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D-M-E ***2000***

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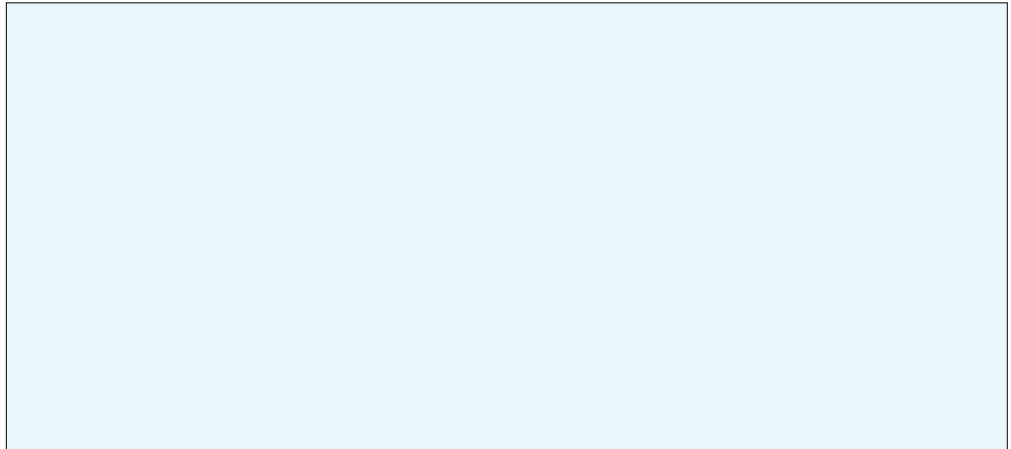
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♥ Blank plates - P-plates

♦ Ungebohrte Platten - P-Platten

Ongeboorde platen - P-platen ♣

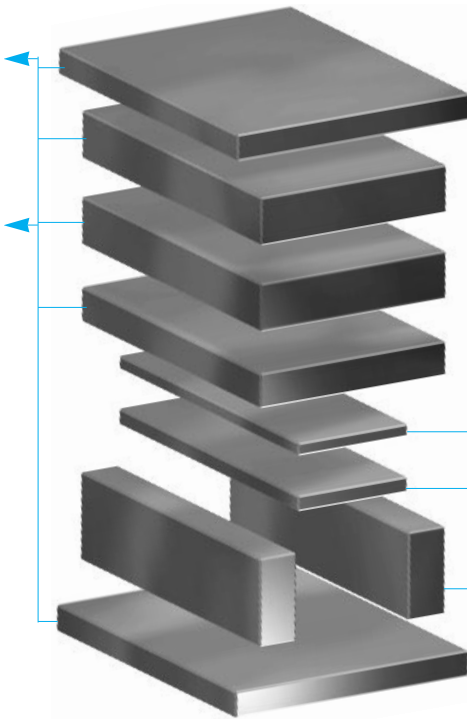
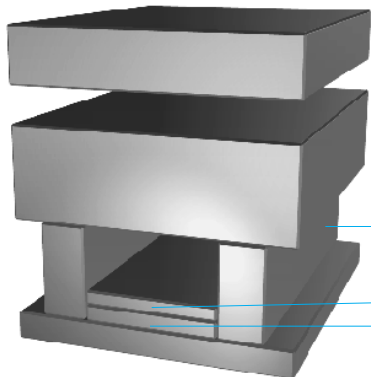
Plaques non-alésées - plaques P ♠

Info

- P12** ♥ Ground mold plates
♦ Geschliffene Formplatten
♣ Geslepen vormplaten
♠ Plaques rectifiées

- P13** ♥ Precision ground mold plates
♦ Präz. geschliffene Formplatten
♣ Fijngeslepen vormplaten
♠ Plaques rectifiées de précision

- ♥ Molds for diecasting
♦ Druckgießformen
♣ Drukgiematrijzen
♠ Moules pour la coulée sous pression



- P42** ♥ Ground ejector retainer plates
♦ Geschliffene Auswerferdeckplatten
♣ Geslepen uitwerpdekplaten
♠ Contre plaques éjectrices rectifiées

- P43** ♥ Precision ground ejector retainer plates
♦ Präz. geschliffene Auswerferdeckplatten
♣ Fijngeslepen uitwerpdekplaten
♠ Contre plaques éjectrices rectifiées de précision

- P52** ♥ Ground ejector plates
♦ Geschliffene Auswerfergrundplatten
♣ Geslepen uitwerpplaten
♠ Plaques éjectrices rectifiées

- P53** ♥ Precision ground ejector plates
♦ Präz. geschliffene Auswerfergrundplatten
♣ Fijngeslepen uitwerpplaten
♠ Plaques éjectrices rectifiées de précision

- P32** ♥ Ground risers
♦ Geschliffene Stützleisten
♣ Geslepen steunlijsten
♠ Blocs supports rectifiés

- P33** ♥ Precision ground risers
♦ Präz. geschliffene Stützleisten
♣ Fijngeslepen steunlijsten
♠ Blocs supports rectifiés de précision

PD 33

PD43
PD 53

Info

♥ Ordering example - ♦ Bestellbeispiel

♣ Bestelvoorbeeld - ♠ Exemple de commande

- ♥ Blank plates,
♦ Ungebohrte Platten
♣ Ongeboorde platen
♠ Plaques non-alésées

- ♥ Steel
♦ Stahl
♣ Staal
♠ Acier

P13 - 2030 - 56/Mat.

Typ(e)

- ♥ 1 = Mold plate
3 = Risers
4 = Ejector retainer plate
5 = Ejector plate
♦ 1 = Formplatte
3 = Stützleisten
4 = Auswerferdeckplatte
5 = Auswerfergrundplatte
♣ 1 = Vormplaat
3 = Steunlijsten
4 = Uitwerpdekplaat
5 = Uitwerpplaat
♠ 1 = Plaque de moule
3 = Blocs supports
4 = Contre plaque éjectrice
5 = Plaque éjectrice

- ♥ Plate thickness
♦ Plattendicke
♣ Dikte plaat
♠ Epaisseur plaque

SERIE(S)

- ♥ Finish
2 = Ground plate
3 = Precision ground plate
♦ Ausführung
2 = Geschliffene Platte
3 = Präz. geschliffene Platte
♣ Afwerking
2 = Geslepen plaat
3 = Fijngeslepen plaat
♠ Finition
2 = Plaque rectifiée
3 = Plaque rectifiée de précision

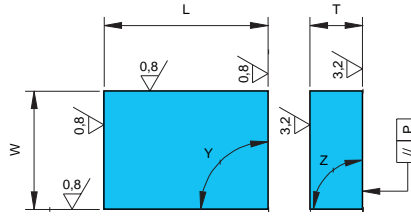
Info

♥ Tolerances - ♦ Toleranzen

♣ Toleranties - ♠ Tolérances

P12

- ♥ Ground mold plates
Length and width square milled, thickness preground
- ♦ Geschliffene Formplatten
Länge und Breite rechtwinklig präzisionsgefräst, Dicke vorgeschliffen



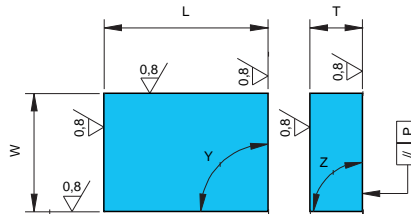
L		W		T	Y	Z	P
≤ 396	≥ 396	≤ 296	≥ 296				
±0,015	+0,1 +0	±0,015	+0,1 +0	+0,3 +0,5	± 0,01/100	± 0,02/100	0,02/100

P12

- ♣ Geslepen vormplaten
Lengte en breedte fijnge-freesd, dikte voorgeslepen
- ♠ Plaques rectifiées
La longueur et la largeur fraisées fines, l'épaisseur rectifiée

P13

- ♥ Finish ground mold plates
Length and width square milled, thickness finish ground
- ♦ Präz. geschliffene Formplatten
Länge und Breite rechtwinklig präzisionsgefräst, Dicke fertiggeschliffen



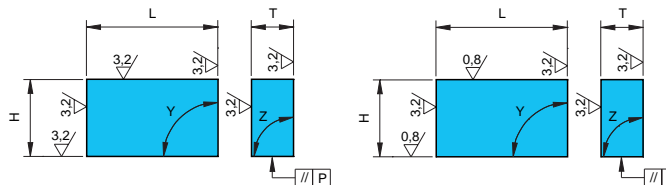
L		W		T	Y	Z	P
≤ 396	≥ 396	≤ 296	≥ 296				
±0,015	+0,1 +0	±0,015	+0,1 +0	+0,05 +0	± 0,01/100	± 0,02/100	0,01/100 max. 0,05

P13

- ♣ Fijngeslepen vormplaten
Lengte en breedte fijnge-freesd, dikte fijngeslepen
- ♠ Plaques rectifiées de précision
La longueur et la largeur fraisées fines, l'épaisseur rectifiée fine

P32

- ♥ Ground risers
- ♦ Geschliffene Stützleisten
- ♣ Geslepen steunlijsten
- ♠ Blocs supports rectifiés



L	H	T	Y	Z	P
-0,4 -0,8	+0,5 +0,3	-0,2 -0,8	± 0,02/100	± 0,02/100	0,02/100

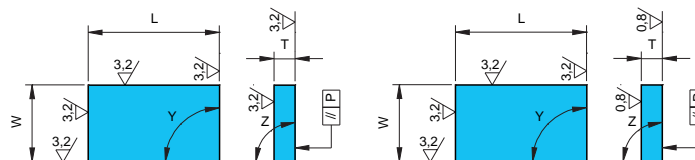
L	H	T	Y	Z	P
-0,4 -0,8	+0,05 +0	-0,2 -0,8	± 0,02/100	± 0,02/100	0,01/100 max. 0,05

P33/PD33

- ♥ Precision ground risers
- ♦ Präz. geschliffene Stützleisten
- ♣ Fijngeslepen steunlijsten
- ♠ Blocs supports rectifiés de précision

P42

- ♥ Ground ejector retainer plates
- ♦ Geschliffene Auswerfer-deckplatten
- ♣ Geslepen uitwerpdekplaten
- ♠ Contre plaques éjectrices rectifiées



P52

- ♥ Ground ejector plates
- ♦ Geschliffene Auswerfer-grundplatten
- ♣ Geslepen uitwerpplatten
- ♠ Plaques éjectrices rectifiées

P43/PD43

- ♥ Precision ground ejector retainer plates
- ♦ Präz. geschliffene Auswerfer-deckplatten
- ♣ Fijngeslepen uitwerpdekplaten
- ♠ Contre plaques éjectrices rectifiées de précision

P53*/PD53*

- ♥ Precision ground ejector plates
- ♦ Präz. geschliffene Auswerfer-grundplatten
- ♣ Fijngeslepen uitwerpplatten
- ♠ Plaques éjectrices rectifiées de précision

L	W	T	Y	Z	P
0 -0,1	0 -0,1	+0,5 +0,3	± 0,01/100	± 0,02/100	0,02/100

L	W	T	T*	Y	Z	P
0 -0,1	0 -0,1	+0,4 0	+0,05 0	± 0,01/100	± 0,02/100	0,02/100

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

Info

♥ Steel - ♦ Stahl

♣ Staal - ♠ Acier

♥ Steel specification ♦ Stahlspezifizierung ♣ Staalspecificaties ♠ Choix des aciers	♥ Analysis & tensile strength ♦ Analyse & Festigkeit ♣ Analyse & trekvastheid ♠ Analyse & résistance	♥ Description ♦ Beschreibung ♣ Beschrijving ♠ Description
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D-M-E 1 C 45 W 1.1730	ca. 640 MPa (N/mm ²) C = 0,45 Si = 0,30 Mn = 0,70	♥ Non alloy tool steel. Not to be hardened and easy to machine. For molds and simple structural components. ♦ Unlegierter Werkzeugstahl. Anwendung: nicht gehärtete Teile für den Formen-, Werkzeug- und Vorrichtungsbau. ♣ Ongelegeerd gereedschapsstaal. Spanningsvrij gegloeid. Goed bewerkbaar. Hoge taaiheid. Voor niet geharde onderdelen voor matrijs-, gereedschaps- en kaliberbouw. ♠ Acier non allié pour outillage. Facile à usiner. Bonne résistance. Pour éléments non-trempés pour moules et fixations d'outillages.
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D-M-E 3 40 Cr Mn Mo S 8 6 1.2312	ca. 1050 MPa (N/mm ²) C = 0,40 Mn = 1,50 Mo = 0,20 Si = 0,40 Cr = 1,90 S = 0,07	♥ Low alloy pre-heat treated tool steel. Excellent machinability. No further hardening required. Can be nitrided. ♦ Vorvergüteter, legierter Werkzeugstahl. Gute Bearbeitbarkeit durch Schwefelzusatz. Nitrierbar. Anwendung: Formplatten für Druck- und Spritzgießformen. Form- und Werkzeugteile. ♣ Veredeld laaggelegeerd gereedschapsstaal. Uitstekend bewerkbaar. Nitreerbaar. Geschikt voor vormplaten voor pers- en spuitgietmatrijzen en voor matrijs- en gereedschapsonderdelen. ♠ Acier allié prétrempé, ne nécessite pas de trempe après usinage, donc aucune déformation avec tenue de dureté à température élevée. Usinage exceptionnel. Peut être chromé et nitruré. Pour plaques empreintes pour moules matières plastiques, inserts pour injection, compression et outils de haute pression.
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D-M-E 4 21 Mn Cr 5 1.2162	ca. 590 MPa (N/mm ²) C = 0,21 Mn = 1,20 Si = 0,30 Cr = 1,20	♥ Case hardening tool steel. Suitable for hobbing with very high surface hardness and finish. For molds and inserts for injection molding. ♦ Legierter Einsatzstahl. Ätzbar, Polierbar und Strukturerozierbar. Anwendung: Formplatten und Einsätze für Kunststoffformen. ♣ Gelegeerd cementeerstaal. Zeer goed bewerkbaar. Textureerbaar, uitstekend polijstbaar en hardbaar. Voor vormplaten en inzetstukken voor kunststofmatrijzen. ♠ Acier à tremper de cémentation très usinable. Peut être poli et texturé. Pour plaques empreintes et inserts dans des moules pour matières plastiques.
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D-M-E 5 X 40 Cr Mo V 5 1 1.2344	ca. 750 MPa (N/mm ²) C = 0,40 Mn = 0,40 Mo = 1,30 Si = 1,00 Cr = 5,20 V = 1,00	♥ Medium alloy hot work tool steel. Resistant to thermal shock and thermal fatigue. Can be heat-treated. For molds for injection molding and diecasting. ♦ Legierter Warmarbeitsstahl. Hohe Warmfestigkeit, Zähigkeit, Druck- und Verschleißfestigkeit. Temperaturwechselbeständigkeit. Wärmeleitfähigkeit. Anwendung: Formplatten und Einsätze für Druckgieß- und Kunststoffverarbeitung. ♣ Gelegeerd warmmatrijzenstaal. Hoge warmtebestendigheid, taaiheid, druk- en slijtvastheid. Geleverd in ontlaten toestand. Nitreerbaar. Geschikt voor vormplaten en inzetstukken voor spuitgiet- en drukgietmatrijzen. ♠ Acier allié à chaud. Résistance excellente à températures élevées, haute ténacité. Livré à l'état non trempé. Peut être trempé et nitruré. Pour plaques empreintes et inserts pour l'injection et la coulée sous pression.
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D-M-E 6 X 45 Ni Cr Mo 4 1.2767	ca. 830 MPa (N/mm ²) C = 0,45 Cr = 1,40 Ni = 4,00 Mo = 0,30 Si = 0,20 Mn = 0,30	♥ Through hardening tool steel. High polishability. Good toughness and shock resistant. The standard quality for molds for injection molding. ♦ Legierter Durchhärtestahl. Sehr gute Polierfähigkeit für hohe Oberflächenanforderungen. Anwendung: Formplatten und Einsätze für die Kunststoffverarbeitung. ♣ Gelegeerd doorhardstaal. Hoge maatbestendigheid en gelijkmatige hardheid. Zeer goed polijstbaar en hoge drukvastheid. Goed vonkverspaanbaar. Voor vormplaten en inzetstukken voor kunststofverwerking, speciaal geschikt voor hoogglanspolijsten. ♠ Acier allié trempant à cœur. Stabilité dimensionnelle et trempe uniforme. Excellent usinage par électro-érosion. Résistance élevée à la compression. Pour empreintes et inserts pour l'injection. Excellentes aptitudes au polissage.
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Info

♥ Steel - ♦ Stahl

♣ Staal - ♠ Acier

♥ Steel specification
♦ Stahlspezifizierung
♣ Staalspecificaties
♠ Choix des aciers

♥ Analysis & tensile strength
♦ Analyse & Festigkeit
♣ Analyse & trekvastheid
♠ Analyse & résistance

♥ Description
♦ Beschreibung
♣ Beschrijving
♠ Description

D-M-E 7

40 Cr Mn Mo 7

1.2311

ca. 1050 MPa (N/mm²)

C = 0,40
Si = 0,40
Mn = 1,50
Cr = 1,90
Mo = 0,20

♥ Low alloy pre-heat treated tool and cavity steel. Suitable for molds without a hardening treatment. Can be hard chromed and nitrided. Supreme surface appearance.
♦ Vorvergüteter, legierter Werkzeugstahl. Gute Bearbeitbarkeit. Polierbar. Nitrierbar. Ätzbar und Strukturierdierbar. Anwendung: Formplatten und Einsätze für Spritzgießformen.
♣ Voorveredeld gelegeerd gereedschapsstaal. Warmtebehandeling en bewerking niet nodig. Behoud van hardheid bij hoge temperaturen. Hoge taaiheid. Zeer goed polijstbaar. Hard verchroom- en nitreerbaar. Geschikt voor vormplaten en inzetstukken voor spuitgietmatrijzen.
♠ Acier allié et prétrempé. Ne nécessite pas de trempe après usinage, donc aucune déformation avec tenue de dureté à température élevée. Usinage exceptionnel. Haute ténacité. Polissage à haut degré, peut être chromé, nitruré et grainé. Pour plaques empreintes de moules pour matières plastiques, inserts pour injection, compression et outils de haute pression.

D-M-E 9

≈ 45 Ni Cr 6

≈ 1.2738

Impax[®] Supreme

ca. 1050 MPa (N/mm²)

290-330 HB

C = 0,37
Si = 0,30
Mn = 1,40
Cr = 2,00
Ni = 1,00
Mo = 0,20
S = 0,008

♥ Vacuum degassed Cr Ni Mo steel. Suitable for molds without a hardening treatment. Excellent polishing and photo-etching properties. Good machinability. High purity and good homogeneity. Uniform hardness in all dimensions. Supreme surface appearance. Tool and cavity steel for injection molding.
♦ Ein vakuummentgaster Cr Ni Mo Stahl. Hervorragendes Verhalten beim Polieren und Foto-Ätzen. Gute Zerspanbarkeit. Hohe Reinheit und gute Homogenität. Gleichmäßige Härte bei allen Querschnitten. Anwendung: Formplatten und Einsätze für die Kunststoffverarbeitung.
♣ Vacuum ontgast Cr Ni Mo staal. Uitstekend polijstbaar en geschikt voor fotoetsen. Goede bewerkbaarheid. Hoge zuiverheid. Gelijkmatische hardheid in alle afmetingen. Geschikt voor vormplaten en inzetstukken voor spuitgietmatrijzen.
♠ Acier Cr Ni Mo dégazé sous vide. Propriétés excellentes de polissage et photogravure. Facile à usiner. Grandes pureté, homogénéité et isotropie. Pour plaques empreintes et inserts dans des moules pour matières plastiques.

D-M-E 10

≈ X 36 Cr Mo 17

≈ 1.2316

Ramax[®] S

ca. 1150 MPa (N/mm²)

≈ 340 HB

C = 0,33
Si = 0,35
Mn = 1,35
Cr = 16,70
V = 0,12

♥ Chromium alloy stainless bolster steel with excellent machinability. Good corrosion resistance. Uniform hardness in all dimensions. Good indentation resistance. Ramax[®] S is not recommended for inserts.
♦ Ein chromlegierter, korrosionsbeständiger Formenaufbaustahl. Ausgezeichnete Zerspanbarkeit. Gleichmäßige Härte. Gute Druckfestigkeit. Ramax[®] S ist nicht geeignet für Einsätze.
♣ Roestvrij Cr matrijshouderstaal. Goede corrosieweerstand. Uitstekende bewerkbaarheid. Gelijkmatische hardheid in alle afmetingen. Bestand tegen samendrukken. Ramax[®] S is niet geschikt voor inzetstukken.
♠ Acier allié au chrome pour porte moules. Résistant à la corrosion. Facile à usiner. Dureté uniforme dans toutes les directions. Résistance à la compression. Ramax[®] S n'est pas recommandé pour blocs inserts.

D-M-E 11

≈ X 42 Cr 13

≈ 1.2083

Stavax[®] ESR

ca. 720 MPa (N/mm²)

≈ 200 HB

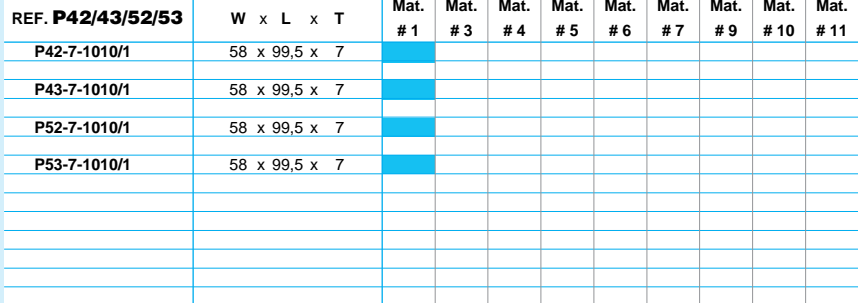
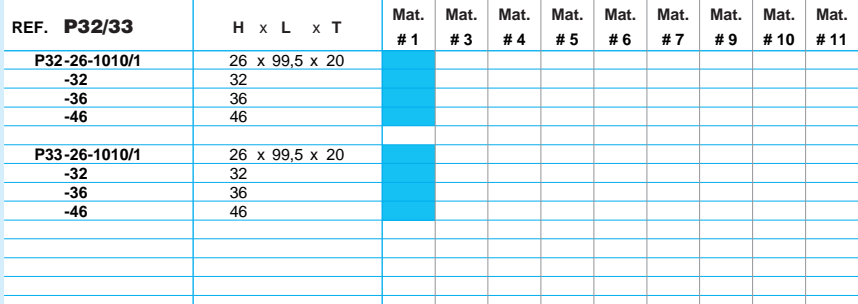
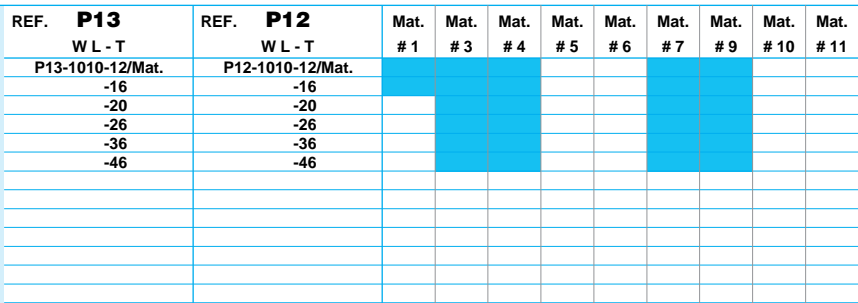
C = 0,38
Si = 0,9
Mn = 0,5
Cr = 13,6
V = 0,3

♥ Chromium alloy stainless tool steel. Good corrosion and wear resistance. Good polishability. Good machinability and stability in hardening. Excellent cavity steel.
♦ Ein chromlegierter, korrosionsbeständiger Werkzeugstahl. Ausgezeichnete Polierbarkeit, verschleißfest. Gute Zerspanbarkeit und Maßbeständigkeit beim Härten. Ein hervorragender Einsatzstahl.
♣ Roestvrij Cr gereedschapsstaal. Goede corrosieweerstand. Uitstekend polijstbaar. Hoge slijtvastheid. Goed bewerkbaar en stabiel bij het harden. Uitstekend voor vormplaten en inzetstukken.
♠ Acier à outil allié au Cr. Résistant à la corrosion. Facile à polir. Résistant à l'usure. Bonne stabilité au traitement thermique. Acier excellent pour inserts.

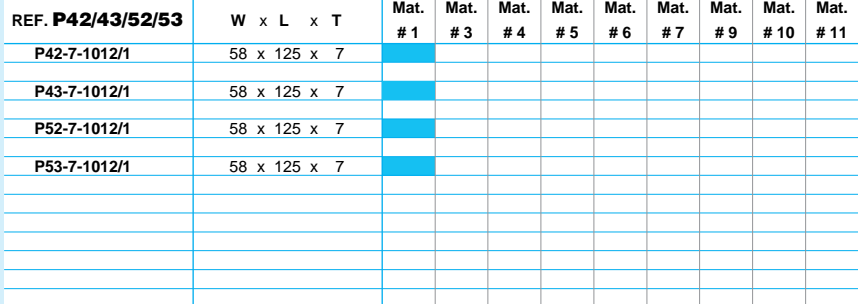
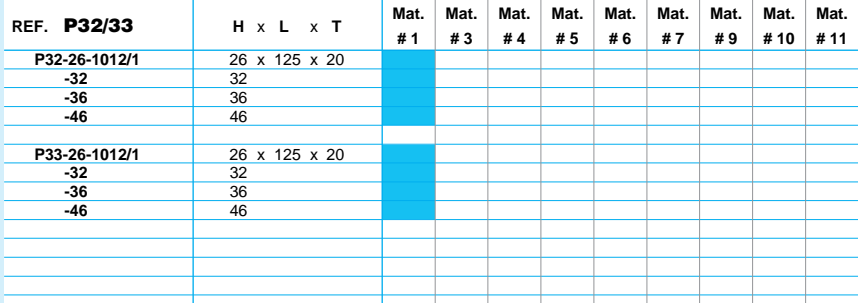
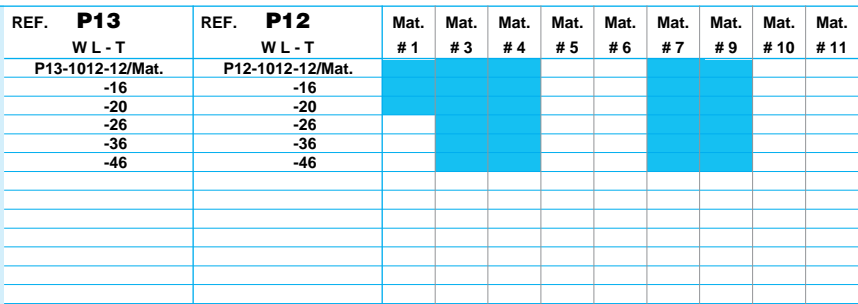
Ongeboorde platen - P-platen ♣

Plaques non-alésées - plaques P ♠

(99,5 x 99,5 mm)



(99,5 x 125 mm)



♥ Blank plates - P-plates

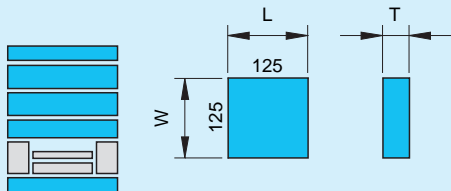
◆ Ungebohrte Platten - P-Platten

Ongeboorde platen - P-platen ♣

Plaques non-alésées - plaques P ♠

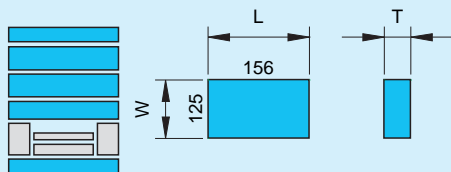
1212

(125 x 125 mm)

[illegible]

1216

(125 x 156 mm)

[illegible]

♥ Blank plates - P-plates

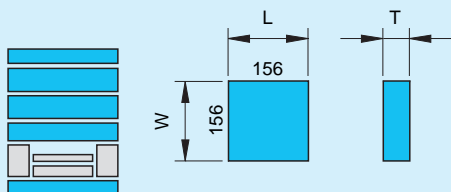
♦ Ungebohrte Platten - P-Platten

Ongeboorde platen - P-platen ♣

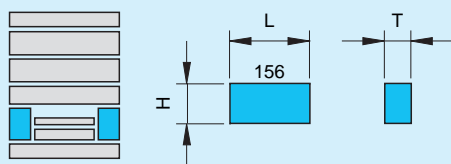
Plaques non-alésées - plaques P ♠

1616

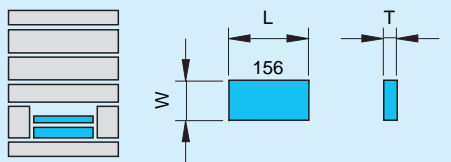
(156 x 156 mm)



REF. P13	REF. P12	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
W L - T	W L - T									
P13-1616-16/Mat.	P12-1616-16/Mat.									
-17	-17									
-20	-20									
-22	-22									
-26	-26									
-27	-27									
-36	-36									
-46	-46									
-56	-56									
-66	-66									
-76	-76									



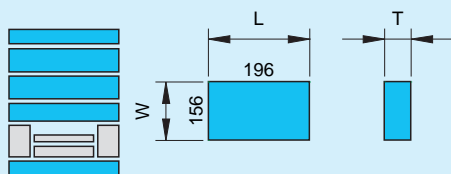
REF. P32/33	H x L x T	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
P32-46-1616/1	46 x 156 x 31									
-56-	56									
-66-	66									
P33-46-1616/1	46 x 156 x 31									
-56-	56									
-66-	66									



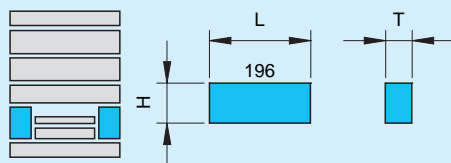
REF. P42/43/52/53	W x L x T	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
P42-10-1616/1	92 x 156 x 10									
P43-10-1616/1	92 x 156 x 10									
P52-12-1616/1	92 x 156 x 12									
P53-12-1616/1	92 x 156 x 12									

1620

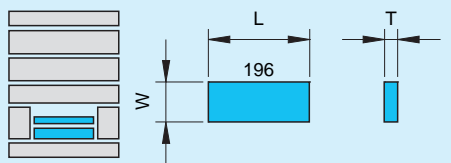
(156 x 196 mm)



REF. P13	REF. P12	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
W L - T	W L - T									
P13-1620-17/Mat.	P12-1620-17/Mat.									
-20	-20									
-22	-22									
-26	-26									
-27	-27									
-36	-36									
-46	-46									
-56	-56									
-66	-66									
-76	-76									



REF. P32/33	H x L x T	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
P32-46-1620/1	46 x 196 x 31									
-56-	56									
-66-	66									
P33-46-1620/1	46 x 196 x 31									
-56-	56									
-66-	66									



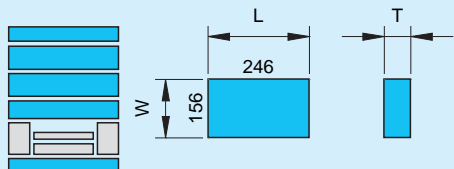
REF. P42/43/52/53	W x L x T	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
P42-10-1620/1	92 x 196 x 10									
P43-10-1620/1	92 x 196 x 10									
P52-12-1620/1	92 x 196 x 12									
P53-12-1620/1	92 x 196 x 12									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

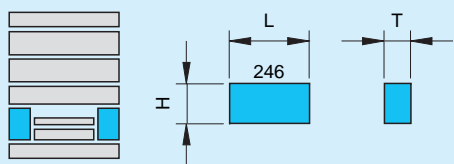
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

1625

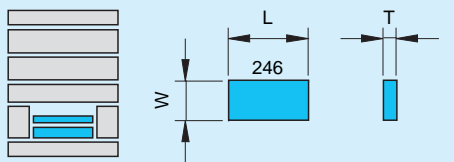
(156 x 246 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-1625-17/Mat.	P12-1625-17/Mat.									
-20	-20									
-22	-22									
-26	-26									
-27	-27									
-36	-36									
-46	-46									
-56	-56									
-66	-66									
-76	-76									



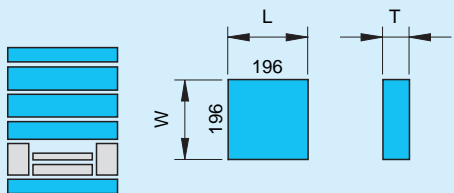
REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-46-1625/1	46 x 246 x 31									
-56-	56									
-66-	66									
P33-46-1625/1	46 x 246 x 31									
-56-	56									
-66-	66									



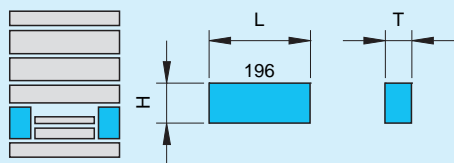
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-10-1625/1	92 x 246 x 10									
P43-10-1625/1	92 x 246 x 10									
P52-12-1625/1	92 x 246 x 12									
P53-12-1625/1	92 x 246 x 12									

2020

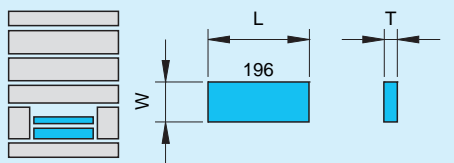
(196 x 196 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-2020-17/Mat.	P12-2020-17/Mat.									
-20	-20									
-22	-22									
-26	-26									
-27	-27									
-36	-36									
-46	-46									
-56	-56									
-66	-66									
-76	-76									
-86	-86									
-96	-96									



REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-2020/1	66 x 196 x 36									
- 86-	86									
-106-	106									
P33- 66-2020/1	66 x 196 x 36									
- 86-	86									
-106-	106									



REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-12-2020/1	122 x 196 x 12									
P43-12-2020/1	122 x 196 x 12									
P52-16-2020/1	122 x 196 x 16									
P53-16-2020/1	122 x 196 x 16									

♥ Blank plates - P-plates

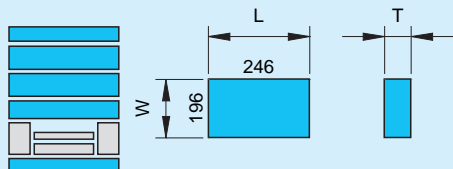
♦ Ungebohrte Platten - P-Platten

Ongeboorde platen - P-platen ♣

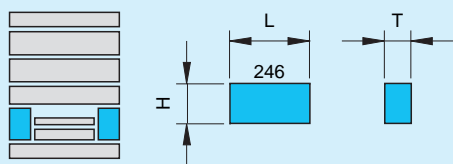
Plaques non-alésées - plaques P ♠

2025

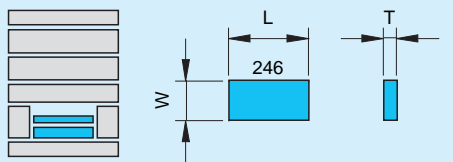
(196 x 246 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-2025-17/Mat.	P12-2025-17/Mat.									
-20	-20									
-22	-22									
-26	-26									
-27	-27									
-36	-36									
-46	-46									
-56	-56									
-66	-66									
-76	-76									
-86	-86									
-96	-96									



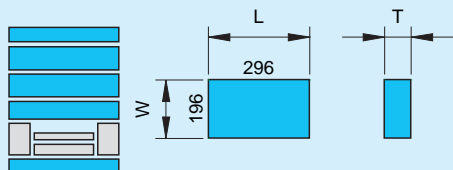
REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-2025/1	66 x 246 x 36									
- 86-	86									
-106-	106									
P33- 66-2025/1	66 x 246 x 36									
- 86-	86									
-106-	106									



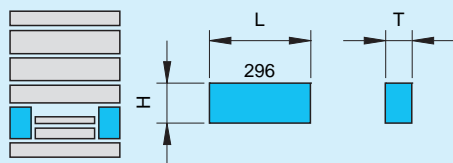
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-12-2025/1	122 x 246 x 12									
P43-12-2025/1	122 x 246 x 12									
P52-16-2025/1	122 x 246 x 16									
P53-16-2025/1	122 x 246 x 16									

2030

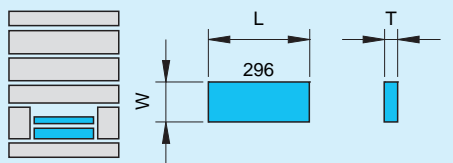
(196 x 296 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-2030-17/Mat.	P12-2030-17/Mat.									
-22	-22									
-26	-26									
-27	-27									
-36	-36									
-46	-46									
-56	-56									
-66	-66									
-76	-76									
-86	-86									
-96	-96									



REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-2030/1	66 x 296 x 36									
- 86-	86									
-106-	106									
P33- 66-2030/1	66 x 296 x 36									
- 86-	86									
-106-	106									



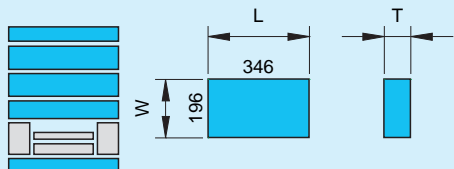
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-12-2030/1	122 x 296 x 12									
P43-12-2030/1	122 x 296 x 12									
P52-16-2030/1	122 x 296 x 16									
P53-16-2030/1	122 x 296 x 16									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

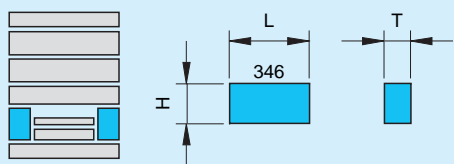
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

2035

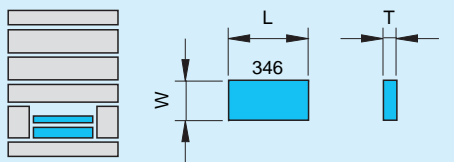
(196 x 346 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-2035-17/Mat.	P12-2035-17/Mat.									
-22	-22									
-26	-26									
-27	-27									
-36	-36									
-46	-46									
-56	-56									
-66	-66									
-76	-76									
-86	-86									



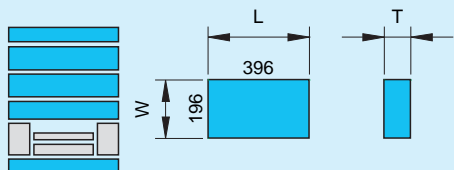
REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-2035/1	66 x 346 x 36									
- 86-	86									
-106-	106									
P33- 66-2035/1	66 x 346 x 36									
- 86-	86									
-106-	106									



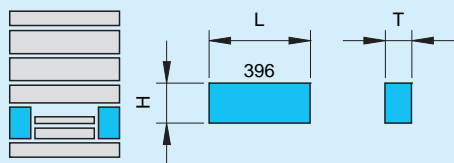
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-12-2035/1	122 x 346 x 12									
P43-12-2035/1	122 x 346 x 12									
P52-16-2035/1	122 x 346 x 16									
P53-16-2035/1	122 x 346 x 16									

2040

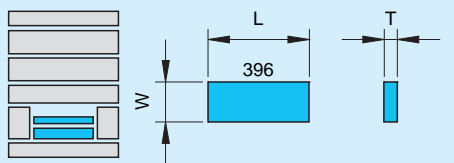
(196 x 396 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-2040-17/Mat.	P12-2040-17/Mat.									
-22	-22									
-26	-26									
-27	-27									
-36	-36									
-46	-46									
-56	-56									
-66	-66									
-76	-76									
-86	-86									



REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-2040/1	66 x 396 x 36									
- 86-	86									
-106-	106									
P33- 66-2040/1	66 x 396 x 36									
- 86-	86									
-106-	106									



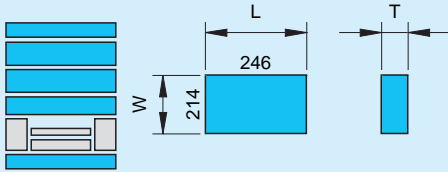
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-12-2040/1	122 x 396 x 12									
P43-12-2040/1	122 x 396 x 12									
P52-16-2040/1	122 x 396 x 16									
P53-16-2040/1	122 x 396 x 16									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

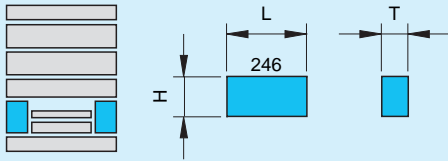
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

2225

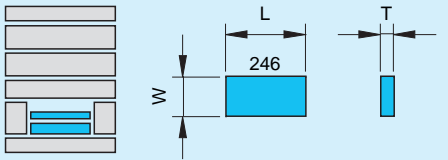
(214 x 246 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-2225-17/Mat.		P12-2225-17/Mat.										
-22		-22										
-26		-26										
-27		-27										
-36		-36										
-46		-46										
-56		-56										
-66		-66										
-76		-76										
-86		-86										



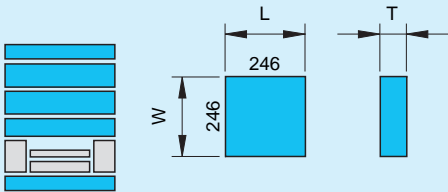
REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-2225/1	66 x 246 x 36									
- 86-	86									
-106-	106									
P33- 66-2225/1	66 x 246 x 36									
- 86-	86									
-106-	106									



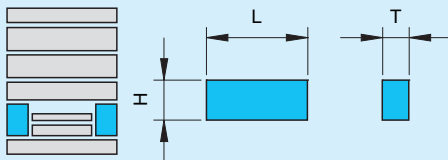
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-12-2225/1	140 x 246 x 12									
P43-12-2225/1	140 x 246 x 12									
P52-16-2225/1	140 x 246 x 16									
P53-16-2225/1	140 x 246 x 16									

2525

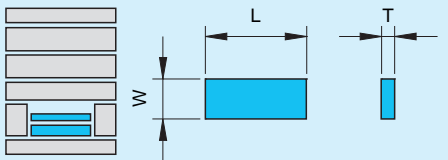
(246 x 246 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-2525- 17/Mat.		P12-2525- 17/Mat.										
- 22		- 22										
- 26		- 26										
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-2525/1	66 x 246 x 46									
- 86-	86									
-106-	106									
P33- 66-2525/1	66 x 246 x 46									
- 86-	86									
-106-	106									



REF. PD33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD33 - 86-2525/1	86 x 196 x 46									
-106-	106									
-126-	126									

REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-2525/1	152 x 246 x 16									
P43-16-2525/1	152 x 246 x 16									
P52-26-2525/1	152 x 246 x 26									
P53-26-2525/1	152 x 246 x 26									

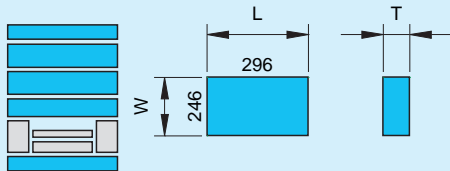
REF. PD43/PD53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD43 -16-2525/1	120 x 196 x 16									
PD53 -26-2525/1	120 x 196 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

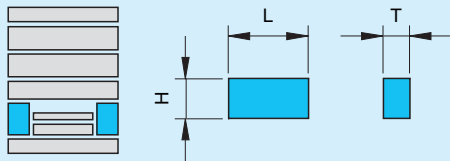
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

2530

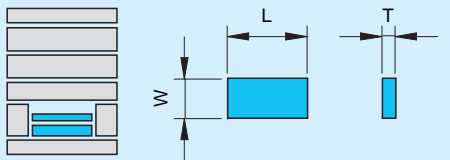
(246 x 296 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-2530- 17/Mat.		P12-2530- 17/Mat.										
- 22		- 22										
- 26		- 26										
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										



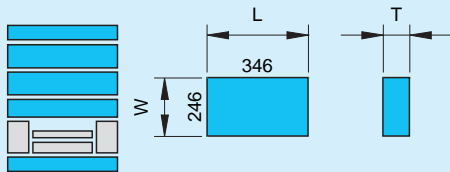
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-2530/1	66 x 296 x 46									
- 86-	86									
-106-	106									
P33- 66-2530/1	66 x 296 x 46									
- 86-	86									
-106-	106									
REF. PD33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD33 - 86-2530/1	86 x 246 x 46									
-106-	106									
-126-	126									



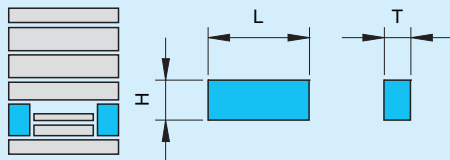
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-2530/1	152 x 296 x 16									
P43-16-2530/1	152 x 296 x 16									
P52-26-2530/1	152 x 296 x 26									
P53-26-2530/1	152 x 296 x 26									
REF. PD43/PD53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD43 -16-2530/1	120 x 246 x 16									
PD53 -26-2530/1	120 x 246 x 26									

2535

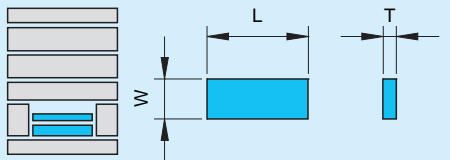
(246 x 346 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-2535- 17/Mat.		P12-2535- 17/Mat.										
- 22		- 22										
- 26		- 26										
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-2535/1	66 x 346 x 46									
- 86-	86									
-106-	106									
P33- 66-2535/1	66 x 346 x 46									
- 86-	86									
-106-	106									
REF. PD33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD33 - 86-2535/1	86 x 296 x 46									
-106-	106									
-126-	126									



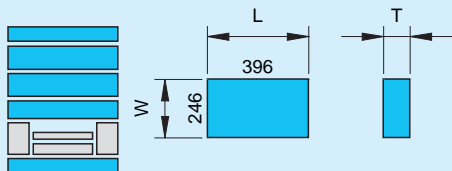
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-2535/1	152 x 346 x 16									
P43-16-2535/1	152 x 346 x 16									
P52-26-2535/1	152 x 346 x 26									
P53-26-2535/1	152 x 346 x 26									
REF. PD43/PD53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD43 -16-2535/1	120 x 296 x 16									
PD53 -26-2535/1	120 x 296 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

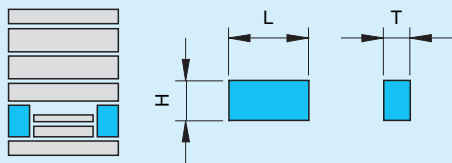
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

2540

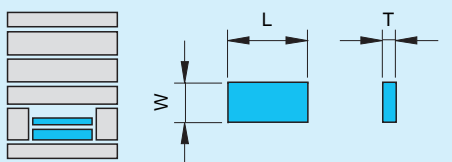
(246 x 396 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-2540-	17/Mat.	P12-2540-	17/Mat.									
- 22		- 22										
- 26		- 26										
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										



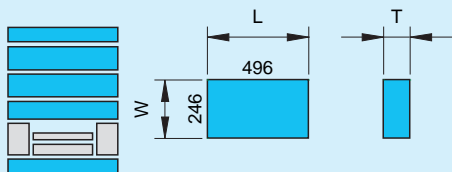
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-2540/1	66 x 396 x 46									
- 86-	86									
-106-	106									
P33- 66-2540/1	66 x 396 x 46									
- 86-	86									
-106-	106									
REF. PD33	H x L x T									
PD33 - 86-2540/1	86 x 346 x 46									
-106-	106									
-126-	126									



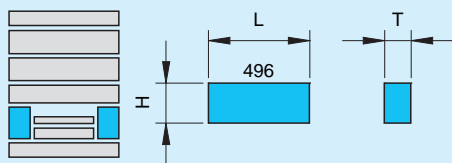
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-2540/1	152 x 396 x 16									
P43-16-2540/1	152 x 396 x 16									
P52-26-2540/1	152 x 396 x 26									
P53-26-2540/1	152 x 396 x 26									
REF. PD43/PD53	W x L x T									
PD43 -16-2540/1	120 x 346 x 16									
PD53 -26-2540/1	120 x 346 x 26									

2550

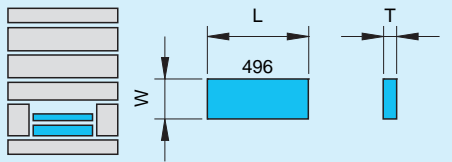
(246 x 496 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-2550-	17/Mat.	P12-2550-	17/Mat.									
- 22		- 22										
- 26		- 26										
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										



REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-2550/1	66 x 496 x 46									
- 86-	86									
-106-	106									
P33- 66-2550/1	66 x 496 x 46									
- 86-	86									
-106-	106									



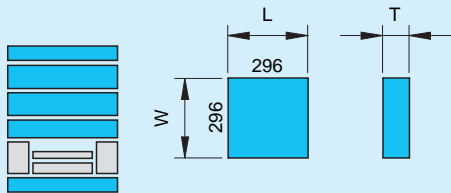
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-2550/1	152 x 496 x 16									
P43-16-2550/1	152 x 496 x 16									
P52-26-2550/1	152 x 496 x 26									
P53-26-2550/1	152 x 496 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

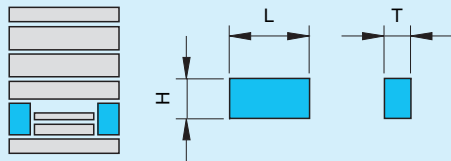
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

3030

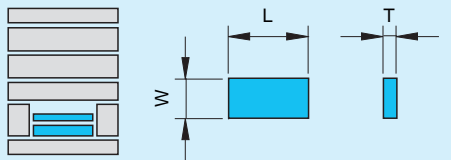
(296 x 296 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3030- 17/Mat.		P12-3030- 17/Mat.										
- 22		- 22										
- 26		- 26										
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										



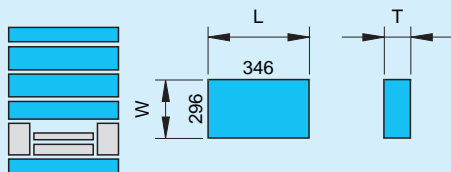
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3030/1	66 x 296 x 46									
- 86-	86									
-106-	106									
P33- 66-3030/1	66 x 296 x 46									
- 86-	86									
-106-	106									
REF. PD33	H x L x T									
PD33 - 86-3030/1	86 x 246 x 56									
-106-	106									
-126-	126									



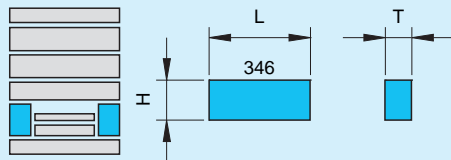
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3030/1	202 x 296 x 16									
P43-16-3030/1	202 x 296 x 16									
P52-26-3030/1	202 x 296 x 26									
P53-26-3030/1	202 x 296 x 26									
REF. PD43/PD53	W x L x T									
PD43 -16-3030/1	150 x 246 x 16									
PD53 -26-3030/1	150 x 246 x 26									

3035

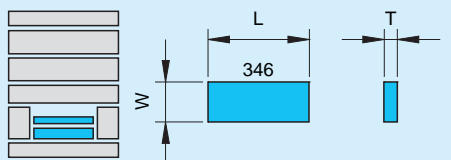
(296 x 346 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3035- 17/Mat.		P12-3035- 17/Mat.										
- 22		- 22										
- 26		- 26										
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										



REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3035/1	66 x 346 x 46									
- 86-	86									
-106-	106									
P33- 66-3035/1	66 x 346 x 46									
- 86-	86									
-106-	106									



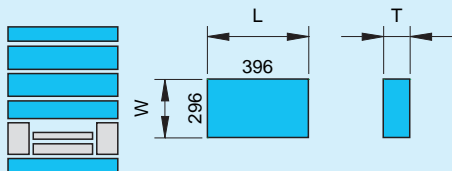
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3035/1	202 x 346 x 16									
P43-16-3035/1	202 x 346 x 16									
P52-26-3035/1	202 x 346 x 26									
P53-26-3035/1	202 x 346 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

3040

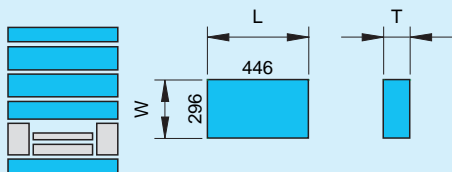
(296 x 396 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3040-	17/Mat.	P12-3040-	17/Mat.									
- 22		- 22										
- 26		- 26										
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
REF. P32/P33	H x L x T	REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3040/1	66 x 396 x 46	P32- 66-3040/1	66 x 396 x 46									
- 86-	86	- 86-	86									
-106-	106	-106-	106									
P33- 66-3040/1	66 x 396 x 46	P33- 66-3040/1	66 x 396 x 46									
- 86-	86	- 86-	86									
-106-	106	-106-	106									
REF. PD33	H x L x T	REF. PD33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD33 - 86-3040/1	86 x 346 x 56	PD33 - 86-3040/1	86 x 346 x 56									
-106-	106	-106-	106									
-126-	126	-126-	126									
REF. P42/43/52/53	W x L x T	REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3040/1	202 x 396 x 16	P42-16-3040/1	202 x 396 x 16									
P43-16-3040/1	202 x 396 x 16	P43-16-3040/1	202 x 396 x 16									
P52-26-3040/1	202 x 396 x 26	P52-26-3040/1	202 x 396 x 26									
P53-26-3040/1	202 x 396 x 26	P53-26-3040/1	202 x 396 x 26									
REF. PD43/PD53	W x L x T	REF. PD43/PD53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD43 -16-3040/1	150 x 346 x 16	PD43 -16-3040/1	150 x 346 x 16									
PD53 -26-3040/1	150 x 346 x 26	PD53 -26-3040/1	150 x 346 x 26									

3045

(296 x 446 mm)



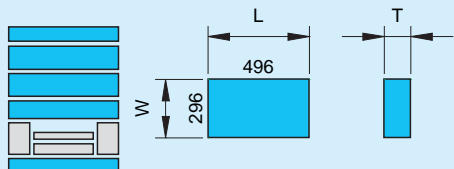
REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3045-	26/Mat.	P12-3045-	26/Mat.									
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
REF. P32/33	H x L x T	REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3045/1	66 x 446 x 46	P32- 66-3045/1	66 x 446 x 46									
- 86-	86	- 86-	86									
-106-	106	-106-	106									
P33- 66-3045/1	66 x 446 x 46	P33- 66-3045/1	66 x 446 x 46									
- 86-	86	- 86-	86									
-106-	106	-106-	106									
REF. P42/43	W x L x T	REF. P42/43	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3045/1	202 x 446 x 16	P42-16-3045/1	202 x 446 x 16									
P43-16-3045/1	202 x 446 x 16	P43-16-3045/1	202 x 446 x 16									
P52-26-3045/1	202 x 446 x 26	P52-26-3045/1	202 x 446 x 26									
P53-26-3045/1	202 x 446 x 26	P53-26-3045/1	202 x 446 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

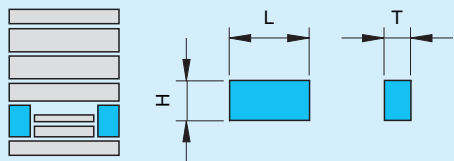
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

3050

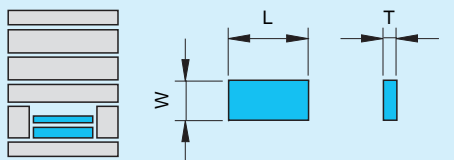
(296 x 496 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3050-	26/Mat.	P12-3050-	26/Mat.									
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										



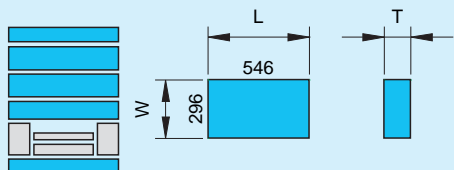
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3050/1	66 x 496 x 46									
- 86-	86									
-106-	106									
P33- 66-3050/1	66 x 496 x 46									
- 86-	86									
-106-	106									
REF. PD33	H x L x T									
PD33 - 86-3050/1	86 x 446 x 56									
-106-	106									
-126-	126									



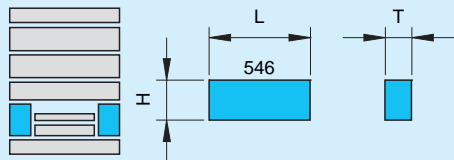
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3050/1	202 x 496 x 16									
P43-16-3050/1	202 x 496 x 16									
P52-26-3050/1	202 x 496 x 26									
P53-26-3050/1	202 x 496 x 26									
REF. PD43/PD53	W x L x T									
PD43 -16-3050/1	150 x 446 x 16									
PD53 -26-3050/1	150 x 446 x 26									

3055

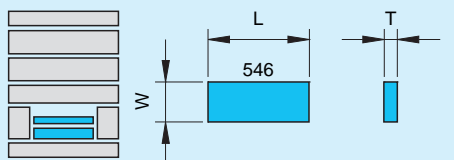
(296 x 546 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3055-	26/Mat.	P12-3055-	26/Mat.									
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										



REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3055/1	66 x 546 x 46									
- 86-	86									
-106-	106									
P33- 66-3055/1	66 x 546 x 46									
- 86-	86									
-106-	106									



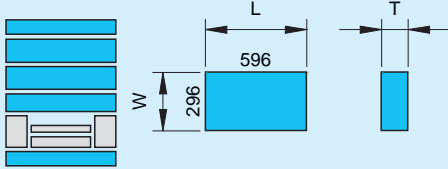
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3055/1	202 x 546 x 16									
P43-16-3055/1	202 x 546 x 16									
P52-26-3055/1	202 x 546 x 26									
P53-26-3055/1	202 x 546 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

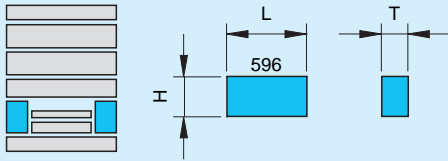
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

3060

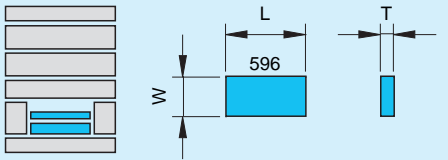
(296 x 596 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3060-	26/Mat.	P12-3060-	26/Mat.									
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										



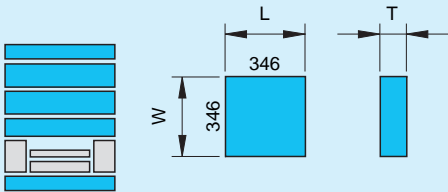
REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3060/1	66 x 596 x 46									
- 86-	86									
-106-	106									
P33- 66-3060/1	66 x 596 x 46									
- 86-	86									
-106-	106									



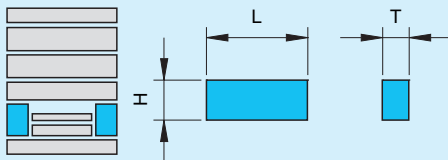
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3060/1	202 x 596 x 16									
P43-16-3060/1	202 x 596 x 16									
P52-26-3060/1	202 x 596 x 26									
P53-26-3060/1	202 x 596 x 26									

3535

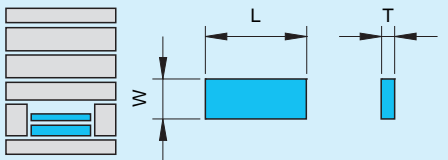
(346 x 346 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3535-	26/Mat.	P12-3535-	26/Mat.									
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3535/1	66 x 346 x 46									
- 86-	86									
-106-	106									
P33- 66-3535/1	66 x 346 x 46									
- 86-	86									
-106-	106									
REF. PD33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD33-106-3535/1	106 x 296 x 66									
-146-	146									
-166-	166									



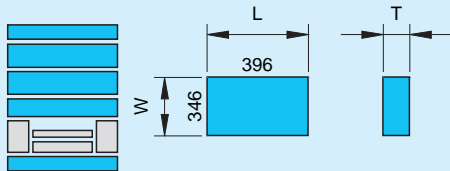
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3535/1	252 x 346 x 16									
P43-16-3535/1	252 x 346 x 16									
P52-26-3535/1	252 x 346 x 26									
P53-26-3535/1	252 x 346 x 26									
REF. PD43/PD53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD43-16-3535/1	180 x 296 x 16									
PD53-26-3535/1	180 x 296 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

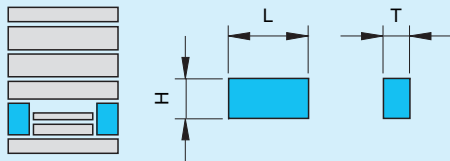
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

3540

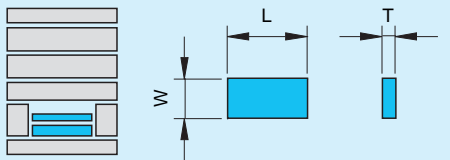
(346 x 396 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3540- 26/Mat.	P12-3540- 26/Mat.											
- 27	- 27											
- 36	- 36											
- 46	- 46											
- 56	- 56											
- 66	- 66											
- 76	- 76											
- 86	- 86											
- 96	- 96											
-106	-106											
-126	-126											
-146	-146											



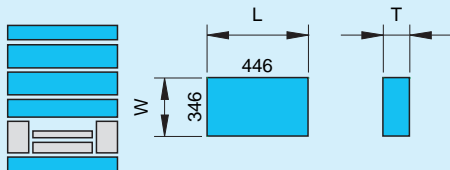
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3540/1	66 x 396 x 46									
- 86-	86									
-106-	106									
P33- 66-3540/1	66 x 396 x 46									
- 86-	86									
-106-	106									
REF. PD33	H x L x T									
PD33 -106-3540/1	106 x 346 x 66									
-146-	146									
-166-	166									



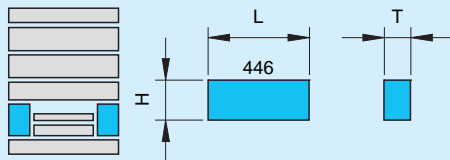
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3540/1	252 x 396 x 16									
P43-16-3540/1	252 x 396 x 16									
P52-26-3540/1	252 x 396 x 26									
P53-26-3540/1	252 x 396 x 26									
REF. PD43/PD53	W x L x T									
PD43 -16-3540/1	180 x 346 x 16									
PD53 -26-3540/1	180 x 346 x 26									

3545

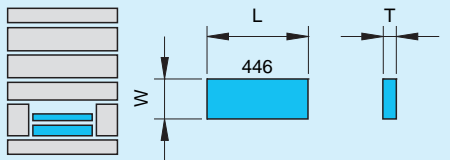
(346 x 446 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3545- 26/Mat.	P12-3545- 26/Mat.											
- 27	- 27											
- 36	- 36											
- 46	- 46											
- 56	- 56											
- 66	- 66											
- 76	- 76											
- 86	- 86											
- 96	- 96											
-106	-106											
-126	-126											
-146	-146											



REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3545/1	66 x 446 x 46									
- 86-	86									
-106-	106									
P33- 66-3545/1	66 x 446 x 46									
- 86-	86									
-106-	106									



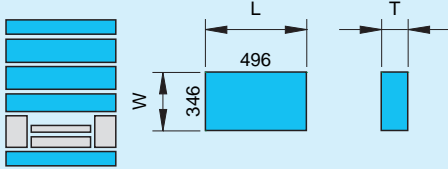
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3545/1	252 x 446 x 16									
P43-16-3545/1	252 x 446 x 16									
P52-26-3545/1	252 x 446 x 26									
P53-26-3545/1	252 x 446 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

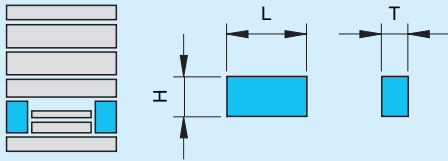
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

3550

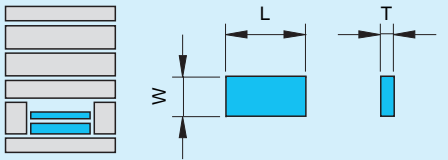
(346 x 496 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3550-	26/Mat.	P12-3550-	26/Mat.									
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										



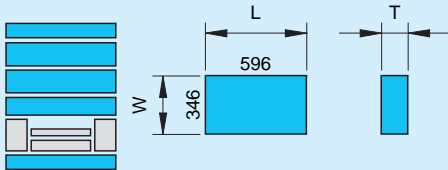
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3550/1	66 x 496 x 46									
- 86-	86									
-106-	106									
P33- 66-3550/1	66 x 496 x 46									
- 86-	86									
-106-	106									
REF. PD33	H x L x T									
PD33 -106-3550/1	106 x 446 x 66									
-146-	146									
-166-	166									



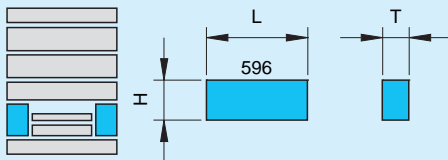
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3550/1	252 x 496 x 16									
P43-16-3550/1	252 x 496 x 16									
P52-26-3550/1	252 x 496 x 26									
P53-26-3550/1	252 x 496 x 26									
REF. PD43/PD53	W x L x T									
PD43 -16-3550/1	180 x 446 x 16									
PD53 -26-3550/1	180 x 446 x 26									

3560

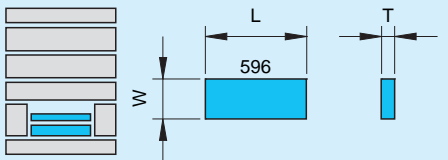
(346 x 596 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-3560-	26/Mat.	P12-3560-	26/Mat.									
- 27		- 27										
- 36		- 36										
- 46		- 46										
- 56		- 56										
- 66		- 66										
- 76		- 76										
- 86		- 86										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										



REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32- 66-3560/1	66 x 596 x 46									
- 86-	86									
-106-	106									
P33- 66-3560/1	66 x 596 x 46									
- 86-	86									
-106-	106									



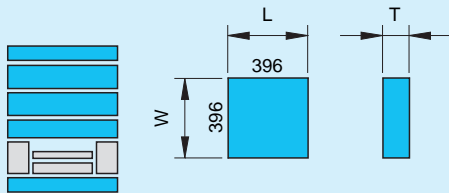
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-3560/1	252 x 596 x 16									
P43-16-3560/1	252 x 596 x 16									
P52-26-3560/1	252 x 596 x 26									
P53-26-3560/1	252 x 596 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

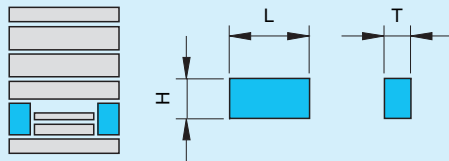
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

4040

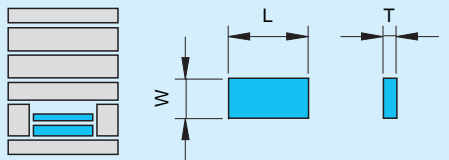
(396 x 396 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-4040- 26/Mat.		P12-4040- 26/Mat.										
- 27		- 27										
- 36		- 36										
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										



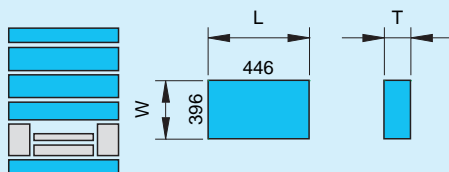
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-4040/1	106 x 396 x 56									
-126-	126									
P33-106-4040/1	106 x 396 x 56									
-126-	126									
REF. PD33	H x L x T									
PD33 -106-4040/1	106 x 346 x 66									
-146-	146									
-166-	166									



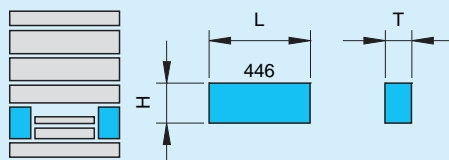
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-4040/1	280 x 396 x 16									
P43-16-4040/1	280 x 396 x 16									
P52-26-4040/1	280 x 396 x 26									
P53-26-4040/1	280 x 396 x 26									
REF. PD43/PD53	W x L x T									
PD43 -26-4040/1	230 x 346 x 26									
PD53 -36-4040/1	230 x 346 x 36									

4045

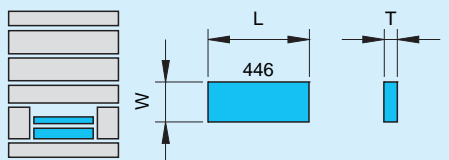
(396 x 446 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-4045- 26/Mat.		P12-4045- 26/Mat.										
- 27		- 27										
- 36		- 36										
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										



REF. P32/33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-4045/1	106 x 446 x 56									
-126-	126									
P33-106-4045/1	106 x 446 x 56									
-126-	126									



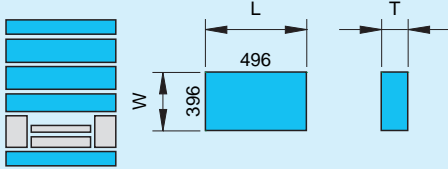
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-4045/1	280 x 446 x 16									
P43-16-4045/1	280 x 446 x 16									
P52-26-4045/1	280 x 446 x 26									
P53-26-4045/1	280 x 446 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

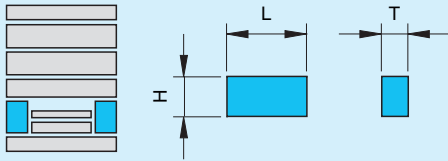
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

4050

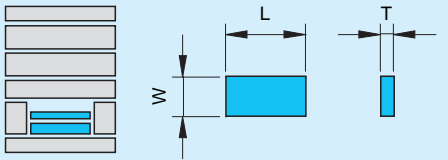
(396 x 496 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-4050- 26/Mat.	P12-4050- 26/Mat.									
- 27	- 27									
- 36	- 36									
- 56	- 56									
- 76	- 76									
- 96	- 96									
-106	-106									
-126	-126									
-146	-146									
-166	-166									
-186	-186									



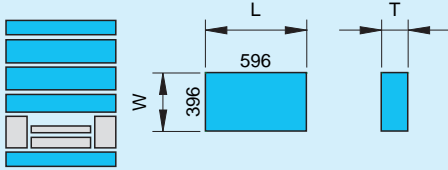
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-4050/1	106 x 496 x 56									
-126-	126									
P33-106-4050/1	106 x 496 x 56									
-126-	126									
REF. PD33	H x L x T									
PD33-106-4050/1	106 x 446 x 66									
-146-	146									
-166-	166									



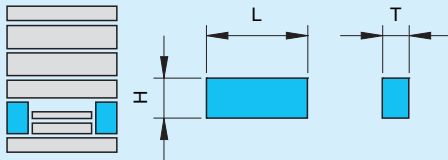
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-4050/1	280 x 496 x 16									
P43-16-4050/1	280 x 496 x 16									
P52-26-4050/1	280 x 496 x 26									
P53-26-4050/1	280 x 496 x 26									
REF. PD43/PD53	W x L x T									
PD43-26-4050/1	230 x 446 x 26									
PD53-36-4050/1	230 x 446 x 36									

4060

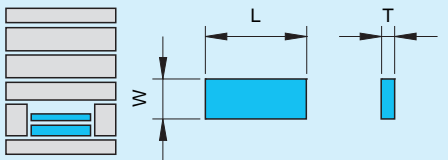
(396 x 596 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-4060- 26/Mat.	P12-4060- 26/Mat.									
- 27	- 27									
- 36	- 36									
- 56	- 56									
- 76	- 76									
- 96	- 96									
-106	-106									
-126	-126									
-146	-146									
-166	-166									
-186	-186									



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-4060/1	106 x 596 x 56									
-126-	126									
P33-106-4060/1	106 x 596 x 56									
-126-	126									
REF. PD33	H x L x T									
PD33-106-4060/1	106 x 546 x 66									
-146-	146									
-166-	166									



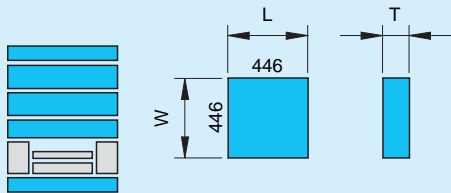
REF. P42/P43	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-16-4060/1	280 x 596 x 16									
P43-16-4060/1	280 x 596 x 16									
P52-26-4060/1	280 x 596 x 26									
P53-26-4060/1	280 x 596 x 26									
REF. PD43/PD53	W x L x T									
PD43-26-4060/1	230 x 546 x 26									
PD53-36-4060/1	230 x 546 x 36									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

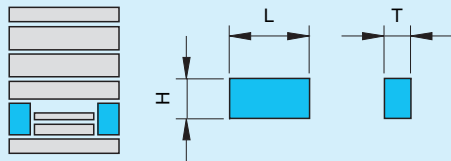
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

4545

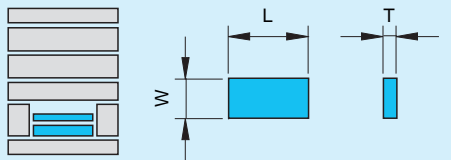
(446 x 446 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-4545- 36/Mat.		P12-4545- 36/Mat.										
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



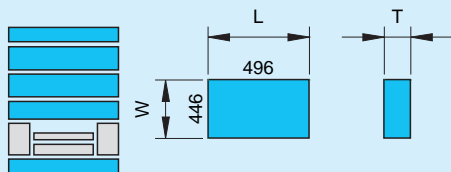
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-4545/1	106 x 446 x 56									
-126-	126									
P33-106-4545/1	106 x 446 x 56									
-126-	126									
REF. PD33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD33 -106-4545/1	106 x 396 x 76									
-146-	146									
-166-	166									



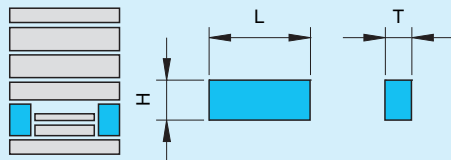
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-4545/1	330 x 446 x 20									
P43-20-4545/1	330 x 446 x 20									
P52-26-4545/1	330 x 446 x 26									
P53-26-4545/1	330 x 446 x 26									
REF. PD43/PD53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD43 -26-4545/1	260 x 396 x 26									
PD53 -36-4545/1	260 x 396 x 36									

4550

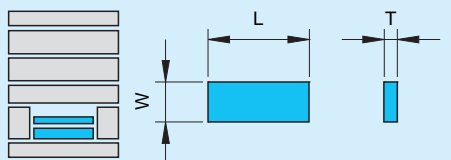
(446 x 496 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-4550- 36/Mat.		P12-4550- 36/Mat.										
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-4550/1	106 x 496 x 56									
-126-	126									
P33-106-4550/1	106 x 496 x 56									
-126-	126									
REF. PD33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD33 -106-4550/1	106 x 446 x 76									
-146-	146									
-186-	186									



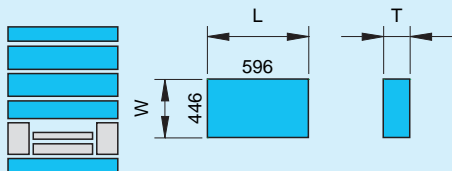
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-4550/1	330 x 496 x 20									
P43-20-4550/1	330 x 496 x 20									
P52-26-4550/1	330 x 496 x 26									
P53-26-4550/1	330 x 496 x 26									
REF. PD43/PD53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD43 -26-4550/1	260 x 446 x 26									
PD53 -36-4550/1	260 x 446 x 36									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

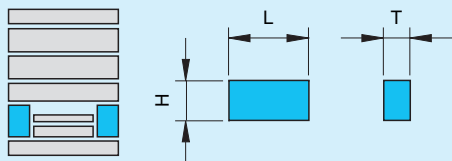
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

4560

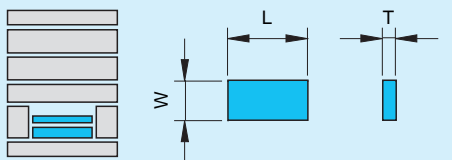
(446 x 596 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-4560-	36/Mat.	P12-4560-	36/Mat.									
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



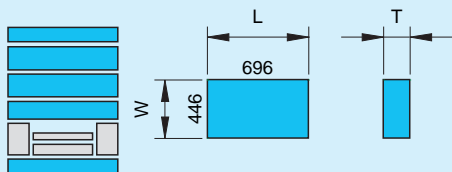
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-4560/1	106 x 596 x 56									
-126-	126									
P33-106-4560/1	106 x 596 x 56									
-126-	126									
REF. PD33	H x L x T									
PD33-106-4560/1	106 x 546 x 76									
-146-	146									
-186-	186									



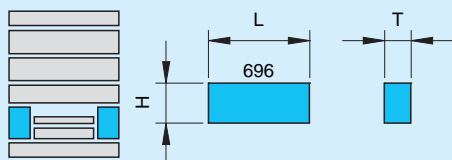
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-4560/1	330 x 596 x 20									
P43-20-4560/1	330 x 596 x 20									
P52-26-4560/1	330 x 596 x 26									
P53-26-4560/1	330 x 596 x 26									
REF. PD43/PD53	W x L x T									
PD43-26-4560/1	260 x 546 x 26									
PD53-36-4560/1	260 x 546 x 36									

4570

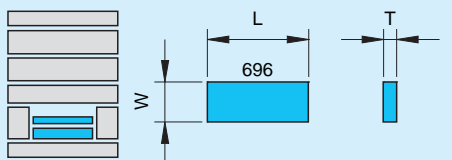
(446 x 696 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-4570-	36/Mat.	P12-4570-	36/Mat.									
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-4570/1	106 x 696 x 56									
-126-	126									
P33-106-4570/1	106 x 696 x 56									
-126-	126									



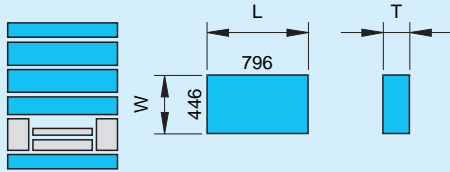
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-4570/1	330 x 696 x 20									
P43-20-4570/1	330 x 696 x 20									
P52-26-4570/1	330 x 696 x 26									
P53-26-4570/1	330 x 696 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

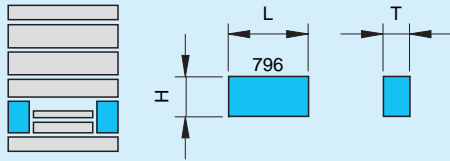
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

4580

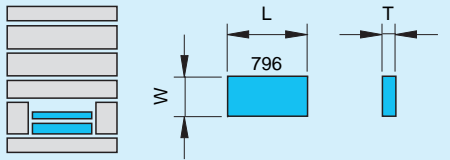
(446 x 796 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-4580-	36/Mat.	P12-4580-	36/Mat.									
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



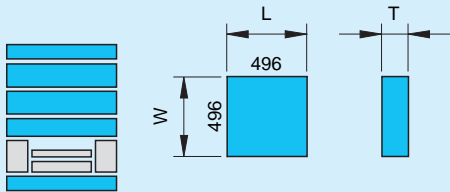
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-4580/1	106 x 796 x 56									
-126-	126									
P33-106-4580/1	106 x 796 x 56									
-126-	126									



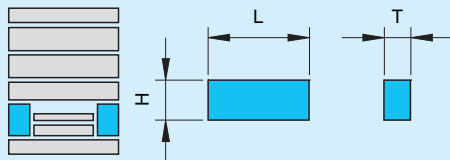
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-4580/1	330 x 796 x 20									
P43-20-4580/1	330 x 796 x 20									
P52-26-4580/1	330 x 796 x 26									
P53-26-4580/1	330 x 796 x 26									

5050

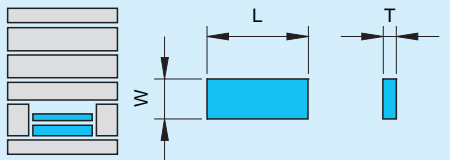
(496 x 496 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-5050-	36/Mat.	P12-5050-	36/Mat.									
- 46		- 46										
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-5050/1	106 x 496 x 56									
-126-	126									
P33-106-5050/1	106 x 496 x 56									
-126-	126									



REF. PD33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD33-106-5050/1	106 x 446 x 76									
-146-	146									
-186-	186									

REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-5050/1	380 x 496 x 20									
P43-20-5050/1	380 x 496 x 20									
P52-26-5050/1	380 x 496 x 26									
P53-26-5050/1	380 x 496 x 26									

REF. PD43/PD53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD43-26-5050/1	310 x 446 x 26									
PD53-36-5050/1	310 x 446 x 36									

♥ Blank plates - P-plates

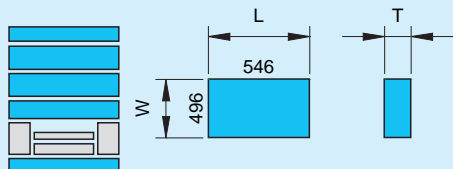
♦ Ungebohrte Platten - P-Platten

Ongeboorde platen - P-platen ♣

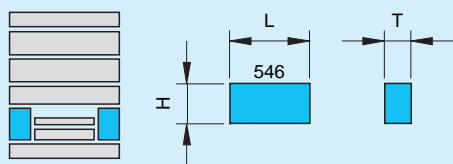
Plaques non-alésées - plaques P ♠

5055

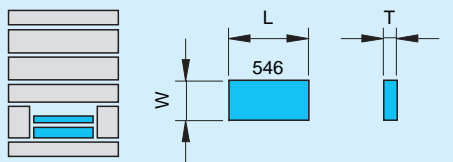
(496 x 546 mm)



REF. P13	REF. P12	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
W L - T	W L - T									
P13-5055- 36/Mat.	P12-5055- 36/Mat.									
- 46	- 46									
- 56	- 56									
- 76	- 76									
- 96	- 96									
-106	-106									
-126	-126									
-146	-146									
-166	-166									
-186	-186									
-206	-206									



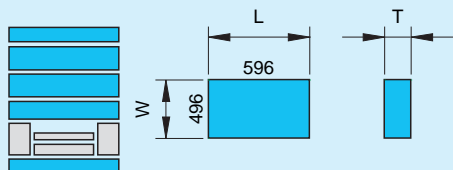
REF. P32/P33	H x L x T	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
P32-106-5055/1	106 x 546 x 56									
-126-	126									
P33-106-5055/1	106 x 546 x 56									
-126-	126									



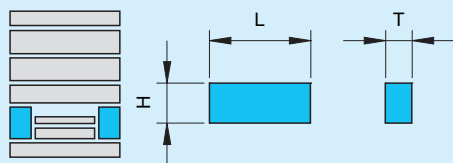
REF. P42/43/52/53	W x L x T	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
P42-20-5055/1	380 x 546 x 20									
P43-20-5055/1	380 x 546 x 20									
P52-26-5055/1	380 x 546 x 26									
P53-26-5055/1	380 x 546 x 26									

5060

(496 x 596 mm)

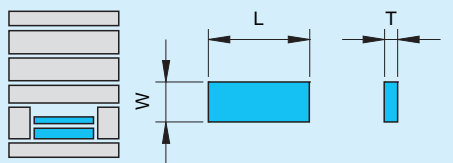


REF. P13	REF. P12	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
W L - T	W L - T									
P13-5060- 36/Mat.	P12-5060- 36/Mat.									
- 46	- 46									
- 56	- 56									
- 76	- 76									
- 96	- 96									
-106	-106									
-126	-126									
-146	-146									
-166	-166									
-186	-186									
-206	-206									



REF. P32/P33	H x L x T	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
P32-106-5060/1	106 x 596 x 56									
-126-	126									
P33-106-5060/1	106 x 596 x 56									
-126-	126									

REF. PD33	H x L x T	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
PD33-106-5060/1	106 x 546 x 76									
-146-	146									
-186-	186									



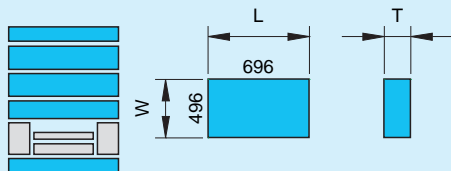
REF. P42/43/52/53	W x L x T	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
P42-20-5060/1	380 x 596 x 20									
P43-20-5060/1	380 x 596 x 20									
P52-26-5060/1	380 x 596 x 26									
P53-26-5060/1	380 x 596 x 26									
REF. PD43/PD53	W x L x T	Mat. #1	Mat. #3	Mat. #4	Mat. #5	Mat. #6	Mat. #7	Mat. #9	Mat. #10	Mat. #11
PD43-26-5060/1	310 x 546 x 26									
PD53-36-5060/1	310 x 546 x 36									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

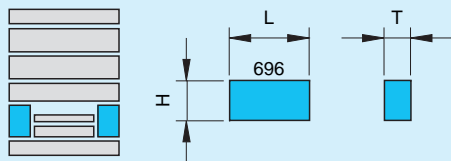
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

5070

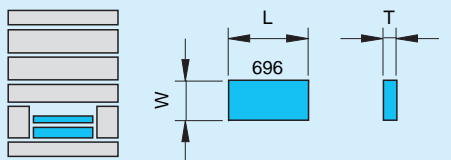
(496 x 696 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-5070-	36/Mat.	P12-5070-	36/Mat.									
- 46		- 46										
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



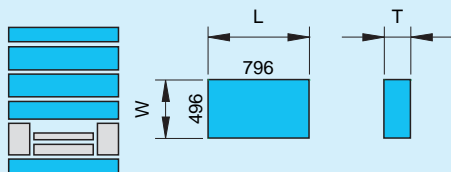
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-5070/1	106 x 696 x 56									
-126-	126									
P33-106-5070/1	106 x 696 x 56									
-126-	126									



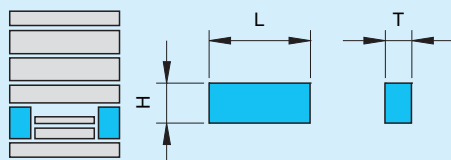
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-5070/1	380 x 696 x 20									
P43-20-5070/1	380 x 696 x 20									
P52-26-5070/1	380 x 696 x 26									
P53-26-5070/1	380 x 696 x 26									

5080

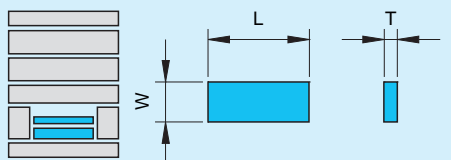
(496 x 796 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-5080-	36/Mat.	P12-5080-	36/Mat.									
- 46		- 46										
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-5080/1	106 x 796 x 56									
-126-	126									
P33-106-5080/1	106 x 796 x 56									
-126-	126									
REF. PD33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD33-106-5080/1	106 x 746 x 76									
-146-	146									
-186-	186									



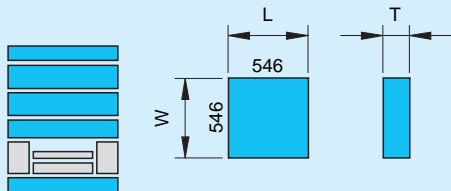
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-5080/1	380 x 796 x 20									
P43-20-5080/1	380 x 796 x 20									
P52-26-5080/1	380 x 796 x 26									
P53-26-5080/1	380 x 796 x 26									
REF. PD43/PD53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD43-26-5080/1	310 x 746 x 26									
PD53-36-5080/1	310 x 746 x 36									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

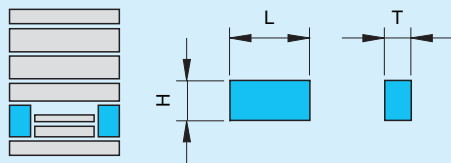
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

5555

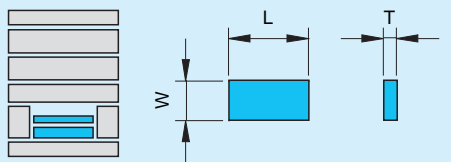
(546 x 546 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-5555- 36/Mat.	P12-5555- 36/Mat.									
- 46	- 46									
- 56	- 56									
- 76	- 76									
- 96	- 96									
-106	-106									
-126	-126									
-146	-146									
-166	-166									
-186	-186									
-206	-206									



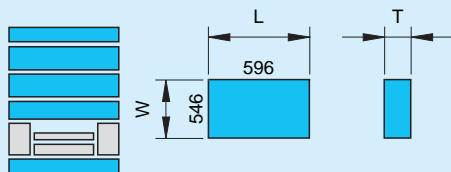
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-5555/1	106 x 546 x 56									
-126-	126									
P33-106-5555/1	106 x 546 x 56									
-126-	126									
REF. PD33	H x L x T									
PD33-106-5555/1	106 x 496 x 86									
-146-	146									
-186-	186									



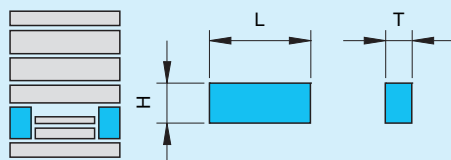
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-5555/1	430 x 546 x 20									
P43-20-5555/1	430 x 546 x 20									
P52-26-5555/1	430 x 546 x 26									
P53-26-5555/1	430 x 546 x 26									
REF. PD43/PD53	W x L x T									
PD43-26-5555/1	340 x 496 x 26									
PD53-36-5555/1	340 x 496 x 36									

5560

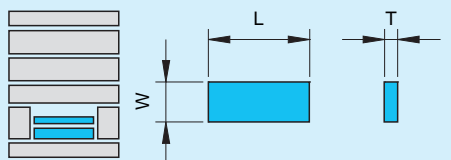
(546 x 596 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-5560- 36/Mat.	P12-5560- 36/Mat.									
- 46	- 46									
- 56	- 56									
- 76	- 76									
- 96	- 96									
-106	-106									
-126	-126									
-146	-146									
-166	-166									
-186	-186									
-206	-206									



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-5560/1	106 x 596 x 56									
-126-	126									
P33-106-5560/1	106 x 596 x 56									
-126-	126									
REF. PD33	H x L x T									
PD33-106-5560/1	106 x 546 x 86									
-146-	146									
-186-	186									



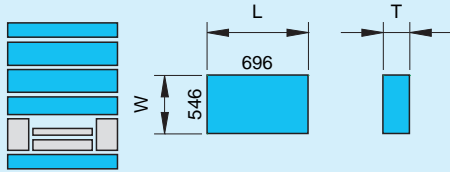
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-5560/1	430 x 596 x 20									
P43-20-5560/1	430 x 596 x 20									
P52-26-5560/1	430 x 596 x 26									
P53-26-5560/1	430 x 596 x 26									
REF. PD43/PD53	W x L x T									
PD43-26-5560/1	340 x 546 x 26									
PD53-36-5560/1	340 x 546 x 36									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

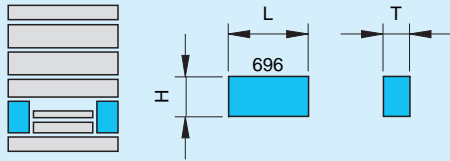
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

5570

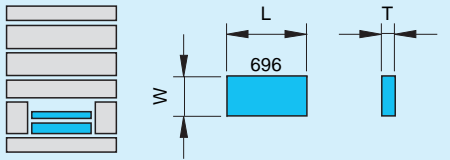
(546 x 696 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-5570- 36/Mat.		P12-5570- 36/Mat.										
- 46		- 46										
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



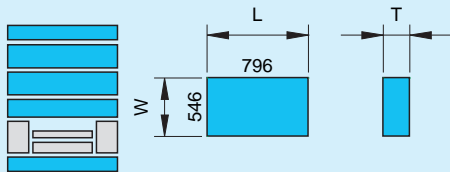
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-5570/1	106 x 696 x 56									
-126-	126									
P33-106-5570/1	106 x 696 x 56									
-126-	126									



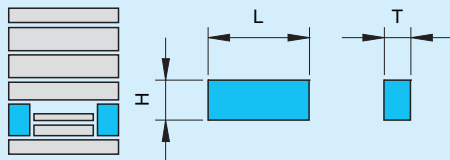
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-5570/1	430 x 696 x 20									
P43-20-5570/1	430 x 696 x 20									
P52-26-5570/1	430 x 696 x 26									
P53-26-5570/1	430 x 696 x 26									

5580

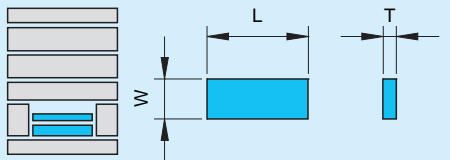
(546 x 796 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-5580- 36/Mat.		P12-5580- 36/Mat.										
- 46		- 46										
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-5580/1	106 x 796 x 56									
-126-	126									
P33-106-5580/1	106 x 796 x 56									
-126-	126									



REF. PD33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD33-106-5580/1	106 x 746 x 86									
-146-	146									
-186-	186									

REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-5580/1	430 x 796 x 20									
P43-20-5580/1	430 x 796 x 20									
P52-26-5580/1	430 x 796 x 26									
P53-26-5580/1	430 x 796 x 26									

REF. PD43/PD53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
PD43-26-5580/1	340 x 746 x 26									
PD53-36-5580/1	340 x 746 x 36									

♥ Blank plates - P-plates

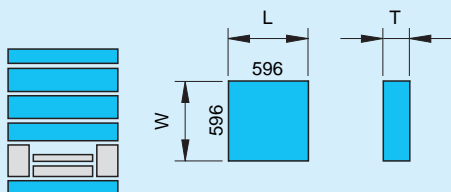
♦ Ungebohrte Platten - P-Platten

Ongeboorde platen - P-platen ♣

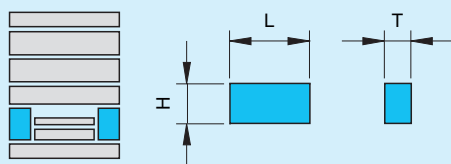
Plaques non-alésées - plaques P ♠

6060

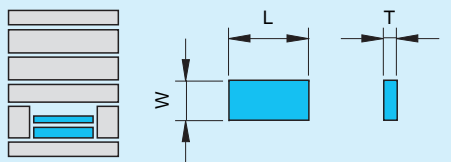
(596 x 596 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-6060- 36/Mat.	P12-6060- 36/Mat.									
- 46	- 46									
- 56	- 56									
- 76	- 76									
- 96	- 96									
-106	-106									
-126	-126									
-146	-146									
-166	-166									
-186	-186									
-206	-206									



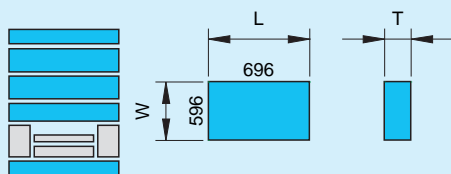
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-6060/1	106 x 596 x 64									
-126-	126									
P33-106-6060/1	106 x 596 x 64									
-126-	126									
REF. PD33	H x L x T									
PD33-126-6060/1	126 x 546 x 96									
-146-	146									
-186-	186									



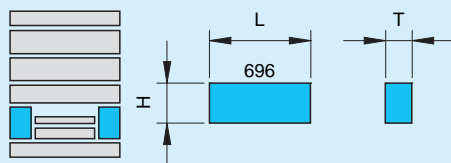
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-6060/1	464 x 596 x 20									
P43-20-6060/1	464 x 596 x 20									
P52-26-6060/1	464 x 596 x 26									
P53-26-6060/1	464 x 596 x 26									
REF. PD43/PD53	W x L x T									
PD43-26-6060/1	370 x 546 x 26									
PD53-46-6060/1	370 x 546 x 46									

6070

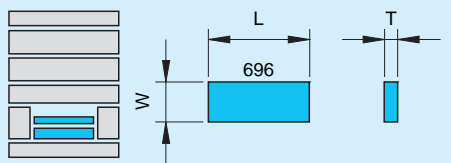
(596 x 696 mm)



REF. P13	REF. P12	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
W L - T	W L - T									
P13-6070- 36/Mat.	P12-6070- 36/Mat.									
- 46	- 46									
- 56	- 56									
- 76	- 76									
- 96	- 96									
-106	-106									
-126	-126									
-146	-146									
-166	-166									
-186	-186									
-206	-206									



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-6070/1	106 x 696 x 64									
-126-	126									
P33-106-6070/1	106 x 696 x 64									
-126-	126									



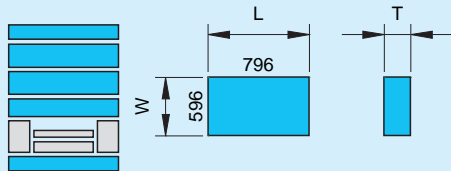
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-6070/1	464 x 696 x 20									
P43-20-6070/1	464 x 696 x 20									
P52-26-6070/1	464 x 696 x 26									
P53-26-6070/1	464 x 696 x 26									

♥ Blank plates - P-plates
♦ Ungebohrte Platten - P-Platten

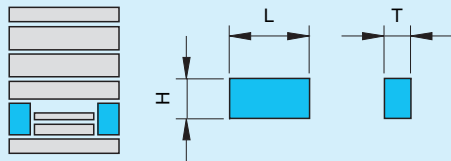
Ongeboorde platen - P-platen ♣
Plaques non-alésées - plaques P ♠

6080

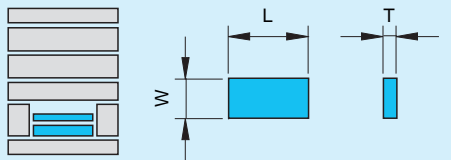
(596 x 796 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-6080-	36/Mat.	P12-6080-	36/Mat.									
- 46		- 46										
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



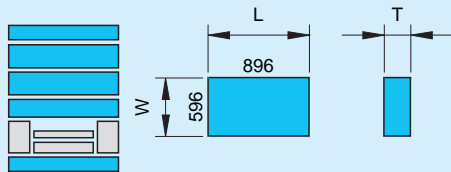
REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-6080/1	106 x 796 x 64									
-126-	126									
P33-106-6080/1	106 x 796 x 64									
-126-	126									
REF. PD33	H x L x T									
PD33 -126-6080/1	126 x 746 x 96									
-146-	146									
-186-	186									



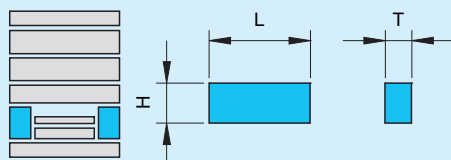
REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-6080/1	464 x 796 x 20									
P43-20-6080/1	464 x 796 x 20									
P52-26-6080/1	464 x 796 x 26									
P53-26-6080/1	464 x 796 x 26									
REF. PD43/PD53	W x L x T									
PD43 -26-6080/1	370 x 746 x 26									
PD53 -46-6080/1	370 x 746 x 46									

6090

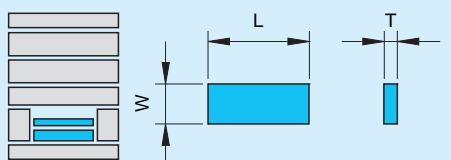
(596 x 896 mm)



REF. P13	W L - T	REF. P12	W L - T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P13-6090-	36/Mat.	P12-6090-	36/Mat.									
- 46		- 46										
- 56		- 56										
- 76		- 76										
- 96		- 96										
-106		-106										
-126		-126										
-146		-146										
-166		-166										
-186		-186										
-206		-206										



REF. P32/P33	H x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P32-106-6090/1	106 x 896 x 64									
-126-	126									
P33-106-6090/1	106 x 896 x 64									
-126-	126									
REF. PD33	H x L x T									
PD33 -126-6090/1	126 x 846 x 96									
-146-	146									
-186-	186									



REF. P42/43/52/53	W x L x T	Mat. # 1	Mat. # 3	Mat. # 4	Mat. # 5	Mat. # 6	Mat. # 7	Mat. # 9	Mat. # 10	Mat. # 11
P42-20-6090/1	464 x 896 x 20									
P43-20-6090/1	464 x 896 x 20									
P52-26-6090/1	464 x 896 x 26									
P53-26-6090/1	464 x 896 x 26									
REF. PD43/PD53	W x L x T									
PD43 -26-6090/1	370 x 846 x 26									
PD53 -46-6090/1	370 x 846 x 46									

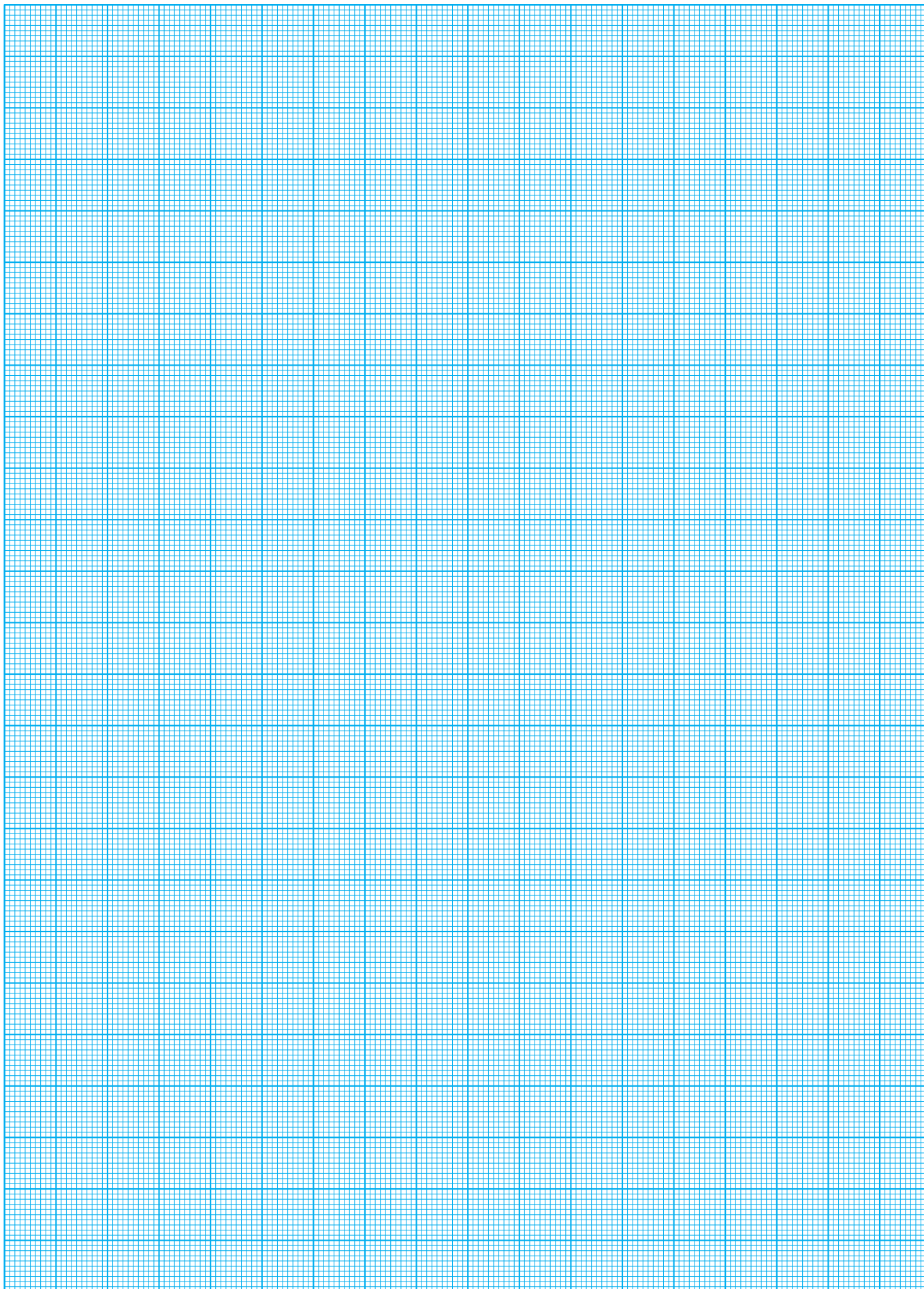
♥ Blank plates - P-plates

♦ Ungebohrte Platten - P-Platten

Ongeboorde platen - P-platen ♣

Plaques non-alésées - plaques P ♠

NOTES - NOTIZEN - NOTA'S - NOTES



Index

	p./S.		p./S.
Info: ♥ Assemblies ♦ Aufbauten ♣ Samenbouw ♠ Assemblages	2a-2	2530 (246 x 296 mm)	2a- 38/2a- 39
		2535 (246 x 346 mm)	2a- 40/2a- 41
		2540 (246 x 396 mm)	2a- 42/2a- 43
Info: ♥ Ordering example assemblies ♦ Bestellbeispiel Aufbauten ♣ Bestelvoorbeeld samenbouw ♠ Exemple de commande assemblages	2a-2	2550 (246 x 496 mm)	2a- 44/2a- 45
		3030 (296 x 296 mm)	2a- 46/2a- 47
		3035 (296 x 346 mm)	2a- 48/2a- 49
Info: ♥ Options ♦ Optionen ♣ Opties ♠ Options	2a-3	3040 (296 x 396 mm)	2a- 50/2a- 51
		3045 (296 x 446 mm)	2a- 52/2a- 53
		3050 (296 x 496 mm)	2a- 54/2a- 55
Info: ♥ Dimensions chart ♦ Übersichtstabelle ♣ Referentietabel ♠ Tableau des dimensions	2a-4	3055 (296 x 546 mm)	2a- 56/2a- 57
		3060 (296 x 596 mm)	2a- 58/2a- 59
		3535 (346 x 346 mm)	2a- 60/2a- 61
Info: ♥ Interchangeable drilled N-plates ♦ Austauschbar gebohrte N-Platten ♣ Uitwisselbaar geboorde N-platen ♠ Plaques alésées interchangeables type N	2a-5	3540 (346 x 396 mm)	2a- 62/2a- 63
		3545 (346 x 446 mm)	2a- 64/2a- 65
		3550 (346 x 496 mm)	2a- 66/2a- 67
Info: ♥ Ordering example N-plates ♦ Bestellbeispiel N-Platten ♣ Bestelvoorbeeld N-platen ♠ Exemple de commande plaques N	2a-5	3560 (346 x 596 mm)	2a- 68/2a- 69
		4040 (396 x 396 mm)	2a- 70/2a- 71
		4045 (396 x 446 mm)	2a- 72/2a- 73
Info: ♥ Steel ♦ Stahl ♣ Staal ♠ Acier	2a-6/2a-7	4050 (396 x 496 mm)	2a- 74/2a- 75
		4060 (396 x 596 mm)	2a- 76/2a- 77
		4545 (446 x 446 mm)	2a- 78/2a- 79
Info: ♥ Tolerances ♦ Toleranzen ♣ Toleranties ♠ Tolérances	2a-8/2a-9	4550 (446 x 496 mm)	2a- 80/2a- 81
		4560 (446 x 596 mm)	2a- 82/2a- 83
		4570 (446 x 696 mm)	2a- 84/2a- 85
		4580 (446 x 796 mm)	2a- 86/2a- 87
		5050 (496 x 496 mm)	2a- 88/2a- 89
		5055 (496 x 546 mm)	2a- 90/2a- 91
		5060 (496 x 596 mm)	2a- 92/2a- 93
		5070 (496 x 696 mm)	2a- 94/2a- 95
		5080 (496 x 796 mm)	2a- 96/2a- 97
		5555 (546 x 546 mm)	2a- 98/2a- 99
		5560 (546 x 596 mm)	2a-100/2a-101
		5570 (546 x 696 mm)	2a-102/2a-103
		5580 (546 x 796 mm)	2a-104/2a-105
		6060 (596 x 596 mm)	2a-106/2a-107
		6070 (596 x 696 mm)	2a-108/2a-109
		6080 (596 x 796 mm)	2a-110/2a-111
		6090 (596 x 896 mm)	2a-112/2a-113
N01-N02-N03-N04-N10-N15-N20-N30-N40-N50 N-B-R-SF-S-SO			
SERIE(S)	p./S.		
1010 (99,5 x 99,5 mm)	2a-10/2a-11		
1012 (99,5 x 125 mm)	2a-12/2a-13		
1212 (125 x 125 mm)	2a-14/2a-15		
1216 (125 x 156 mm)	2a-16/2a-17		
1616 (156 x 156 mm)	2a-18/2a-19		
1620 (156 x 196 mm)	2a-20/2a-21		
1625 (156 x 246 mm)	2a-22/2a-23		
2020 (196 x 196 mm)	2a-24/2a-25		
2025 (196 x 246 mm)	2a-26/2a-27		
2030 (196 x 296 mm)	2a-28/2a-29		
2035 (196 x 346 mm)	2a-30/2a-31		
2040 (196 x 396 mm)	2a-32/2a-33		
2225 (214 x 246 mm)	2a-34/2a-35		
2525 (246 x 246 mm)	2a-36/2a-37		

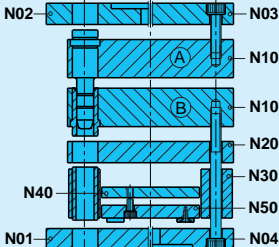
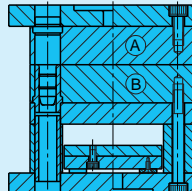
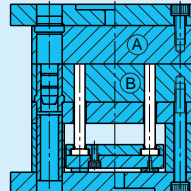
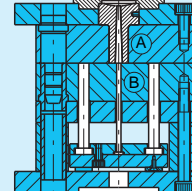
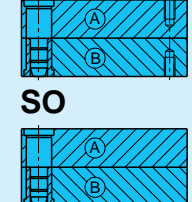
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

♣ Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

Info

♥ Assemblies - ♦ Aufbauten

♣ Samenbouw - ♠ Assemblages

N	B	R	SF	S
				
<p>♥ Mold kit consisting of interchangeable plates complete with components but not assembled.</p> <p>♦ Bausatz bestehend aus austauschbaren Platten, komplett mit Formenbauteilen, nicht montiert.</p> <p>♣ Matrijspakket van uitwisselbaar geboorde platen, met alle onderdelen, niet samengebouwd.</p> <p>♠ Ensemble plaques interchangeables alésées et accessoires, moule complet mais non assemblé.</p>	<p>♥ N-type mold base, assembled and square ground. All plates are interchangeable.</p> <p>♦ N-Type, montiert und winkelgeschliffen. Alle Platten sind austauschbar.</p> <p>♣ N-type matrijshuis samengebouwd en haaksgeslepen. Alle platen zijn uitwisselbaar.</p> <p>♠ Type N assemblé et rectifié d'équerre. Toutes les plaques sont interchangeables.</p>	<p>♥ B-type mold base with four return pins installed. All plates are interchangeable.</p> <p>♦ B-Type mit eingebauten Rückstoßstiften. Alle Platten sind austauschbar.</p> <p>♣ B-type matrijshuis incl. vier gemonteerde terugdrukpenen. Alle platen zijn uitwisselbaar.</p> <p>♠ Type B avec quatre repoussoirs. Toutes les plaques sont interchangeables.</p>	<p>♥ R-type mold base with sprue bushing, locating ring and sprue puller pin installed. All plates are interchangeable.</p> <p>♦ R-Type mit Angußbushse, Zentrierring und Mitenauswerfer, montiert. Alle Platten sind austauschbar.</p> <p>♣ R-type matrijshuis incl. gemonteerde spuitneus, centreerring en centrale uitstootpen. Alle platen zijn uitwisselbaar.</p> <p>♠ Type R avec buse d'injection, anneau de centrage et extracteur central. Toutes les plaques sont interchangeables.</p>	<p>♥ Mold kit consisting of: 2 mold plates N10, 3 + 1 leader pins (FSN), 3 + 1 leader pin bushings (FBN). SO=S-type but without screw holes.</p> <p>♦ Bausatz bestehend aus: 2 Formplatten N10, 3 + 1 Führungsstiften (FSN) und 3 + 1 Führungsbuchsen (FBN). SO=S-Typ aber ohne Gewindebohrungen.</p> <p>♣ Matrijspakket bestaande uit: 2 matrijsplaten N10, 3 + 1 geleide penen (FSN) en 3 + 1 geleide bussen (FBN). SO=S-type maar zonder boutgaten.</p> <p>♠ Ensemble comprenant: 2 plaques porte-empreintes N10, 3 + 1 colonnes de guidage (FSN), 3 + 1 douilles de guidage (FBN). SO=type S mais sans trous de vis.</p>
N 2040 N-26-36/1 66	N 2525 B-36-36/3 86	N 5050 R-96-76/7 106	N 1616 SF-36-46/5 56	N 6060 S-86-26/4 N 6070 SO-56-56/3

Info

♥ Ordering example ♦ Bestellbeispiel

♣ Bestelvoorbeeld ♠ Exemple de commande

♥ Mold bases plastics
♦ Spritzgieß-Normalien
♣ Spuitgietmatrijzen
♠ Moules pour matières plastiques

SERIE(S)

♥ Width x length
♦ Breite x Länge
♣ Breedte x lengte
♠ Largeur x longueur

♥ Type of mold
♦ Formtype
♣ Matrijstype
♠ Type du moule
N-B-R-S-SO-SF

SF: ♥ Specify diameter of locating ring and radius sprue bushing.
♦ Durchmesser des Zentrierrings und Radius der Angußbuchse angeben.
♣ Diameter van de centreerring en radius van de spuitneus vermelden.
♠ Spécifier le diamètre de l'anneau de centrage et le rayon de la buse.



N 2020 SF - 36 - 56 / 3 86

♥ Height risers, N30
♦ Höhe der Stützleisten, N30
♣ Hoogte steunlijsten, N30
♠ Hauteur blocs supports, N30

♥ Steel quality N10 (all other plates in steel DME 1).
♦ Stahlqualität N10 (alle andere Platten in Stahl DME 1).
♣ Staalkwaliteit N10 (alle andere platen in staal DME 1).
♠ Qualité d'acier N10 (Toutes les autres plaques en acier DME 1).

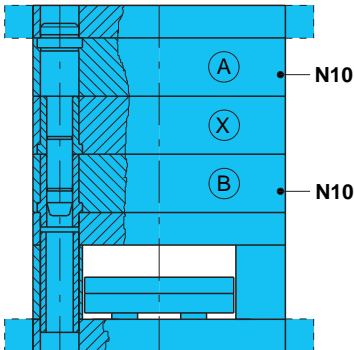
♥ Thickness N10 (A + B)
♦ Dicke N10 (A + B)
♣ Dikte N10 (A + B)
♠ Epaisseur N10 (A + B)

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

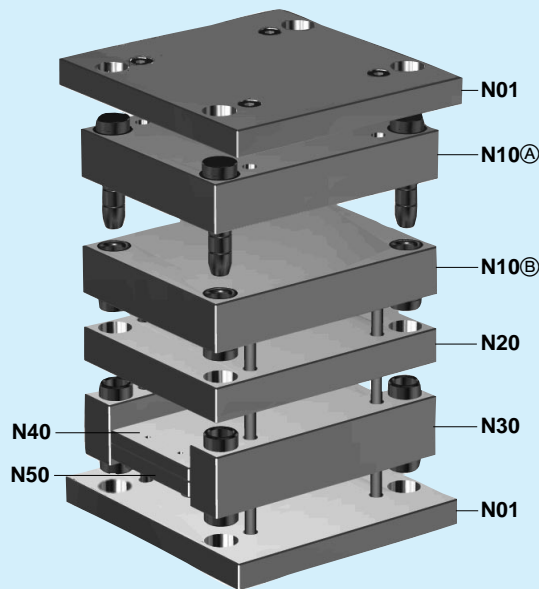
Spruitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

Info

♥Options - ♦Optionen

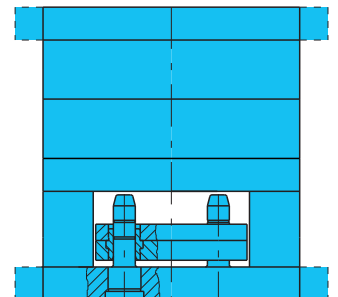


- ♥Stripper plate (X) installed, leader pins in N10 (A) plate
- ♦Zwischenplatte (X) montiert, Führungsstifte in N10 (A) Platte
- ♣Gemonteerde afstroopplaat (X), geleide pennen in de N10 (A) plaat
- ♠Plaque de dévêtissage (X), colonnes de guidage dans la plaque N10 (A)

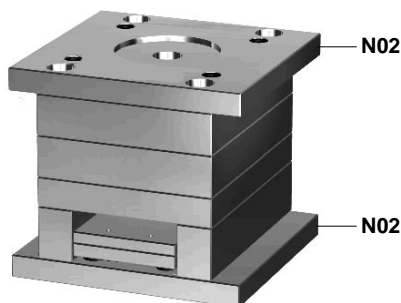


Standard

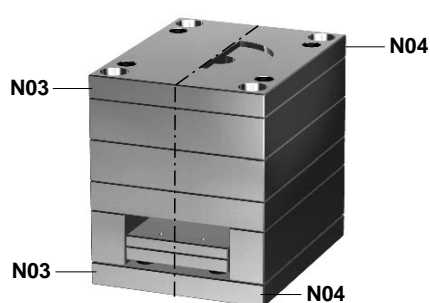
♣Opties - ♠Options



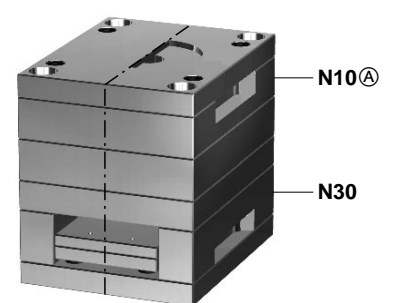
- ♥Guided ejector plates
- ♦Auswerferplattenführung
- ♣Geleiding van uitwerpplatten
- ♠Guidage de la batterie d'éjection



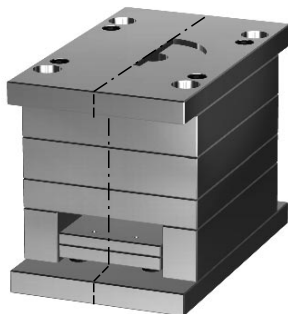
- ♥Clamping plates overhanging in width
- ♦Aufspannplatten überstehend in Breite
- ♣Opspanplaten overstekend in de breedte
- ♠Contre plaques débordantes en largeur



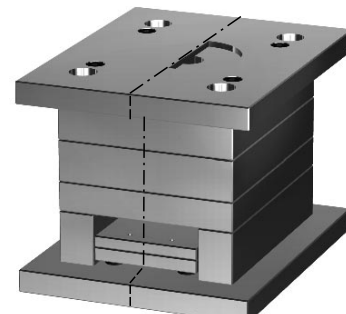
- ♥Flush clamping plates
- ♦Bündige Aufspannplatten
- ♣Opspanplatten
- ♠Contre plaques



- ♥Clamp slots in N10 (A) and in N30
- ♦Spannuten in N10 (A) und in N30
- ♣Spangroeven in N10 (A) en in N30
- ♠Rainures de bridage dans N10 (A) et N30



- ♥Clamping plates overhanging in length
- ♦Aufspannplatten überstehend in die Länge
- ♣Opspanplaten overstekend in de lengte
- ♠Contre plaques débordantes en longueur



- ♥Clamping plates overhanging in length and width
- ♦Aufspannplatten überstehend in Länge und Breite
- ♣Opspanplaten overstekend in lengte en breedte
- ♠Contre plaques débordantes en longueur et largeur

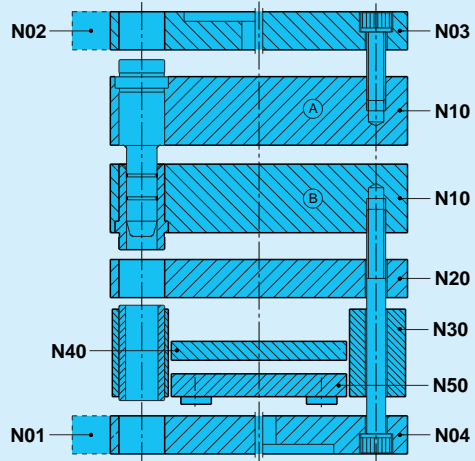
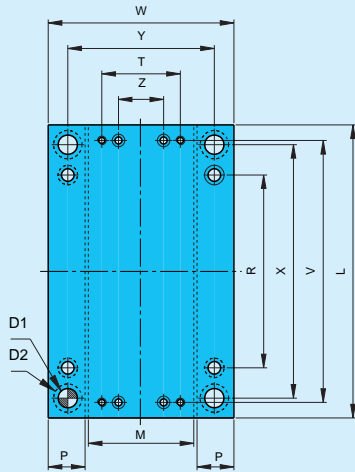
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

♣ S spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

Info

♥ Dimensions chart - ♦ Übersichtstabelle

♣ Referentietabel - ♠ Tableau des dimensions



SERIE(S)	W	L	X	Y	R	T	V	Z	N01 N02 N03 N04	N10 (A-B)	N20	N30	P	N40	N50	M	D 1	D 2	♥Screws ♦Schrauben ♣Bouten ▲Vis		
																			♥Mold ♦Form ♣Matrijs ▲Moule		
																				N40	N50
1010	99,5	99,5	80	80	46	45	86,5	-	12	16-20-26	12	26-32-36-46	20	7	7	58	10	14	M 6	M 4	
1012	99,5	125	105,5	80	52	45	112	-	12	36-46	16		20	7	7	58	10	14	M 6	M 4	
1212	125	125	100	100	62	33	105	-	16	20-26-36	20		36-46	24	8	12	75	12	18	M 8	M 6
1216	125	156	131	100	70	33	136	-	16	46-56	20	24		8	12	75	12	18	M 8	M 6	
1616	156	156	123	123	72	38	130	66	20	17-22-26	26	31		10	12	92	16	24	M 10	M 6	
1620	156	196	163	123	80	38	170	66	20	36-46-56	26	46-56-66	31	10	12	92	16	24	M 10	M 6	
1625	156	246	213	123	162	38	220	66	20	66-76	26		31	10	12	92	16	24	M 10	M 6	
2020	196	196	158	158	98	58	168	97	26/27	17-22-26-36-46 56-66-76-86	36		36	12	16	122	20	28	M 12	M 8	
2025	196	246	208	158	148	58	218	97	26/27		36	36	12	16	122	20	28	M 12	M 8		
2030	196	296	258	158	198	58	268	97	26/27		36	36	12	16	122	20	28	M 12	M 8		
2035	196	346	308	158	248	58	318	97	26/27		36	36	12	16	122	20	28	M 12	M 8		
2040	196	396	358	158	298	58	368	97	26/27		36	36	12	16	122	20	28	M 12	M 8		
2225	214	246	208	176	148	115	218	76	26/27		36	36	12	16	140	20	28	M 12	M 8		
2525	246	246	200	200	134	132	218	94	26/27		17-22-26-36-46 56-66-76	36	46	16	26	152	24	32	M 12	M 8	
2530	246	296	250	200	184	132	268	94	26/27			36	46	16	26	152	24	32	M 12	M 8	
2535	246	346	300	200	234	132	318	94	26/27			36	46	16	26	152	24	32	M 12	M 8	
2540	246	396	350	200	284	132	368	94	26/27			36	46	16	26	152	24	32	M 12	M 8	
2550	246	496	450	200	384	132	468	94	26/27	36		46	16	26	152	24	32	M 12	M 8		
3030	296	296	250	250	184	182	268	144	26/27	17-22-26-36-46	46	66-86-106	46	16	26	202	24	32	M 12	M 8	
3035	296	346	300	250	234	182	318	144	26/27	56-66-76-86-96	46		46	16	26	202	24	32	M 12	M 8	
3040	296	396	350	250	284	182	368	144	26/27	106-126-146	46		46	16	26	202	24	32	M 12	M 8	
3045	296	446	400	250	334	182	418	144	26/27	26-36-46-56 66-76-86-96 106-126-146	46	46	16	26	202	24	32	M 12	M 8		
3050	296	496	450	250	384	182	468	144	26/27		46	46	16	26	202	24	32	M 12	M 8		
3055	296	546	500	250	434	182	518	144	26/27		46	46	16	26	202	24	32	M 12	M 8		
3060	296	596	550	250	484	182	568	144	26/27		46	46	16	26	202	24	32	M 12	M 8		
3535	346	346	300	300	234	230	318	186	26/27		46	46	16	26	252	24	32	M 16	M 10		
3540	346	396	350	300	284	230	368	186	26/27		46	46	16	26	252	24	32	M 16	M 10		
3545	346	446	400	300	334	230	418	186	26/27		46	46	16	26	252	24	32	M 16	M 10		
3550	346	496	450	300	384	230	468	186	26/27		46	46	16	26	252	24	32	M 16	M 10		
3560	346	596	550	300	484	230	568	186	26/27		46	46	16	26	252	24	32	M 16	M 10		
4040	396	396	340	340	232	256	360	206	36		36-56-76 96-106-126 146-166-186	56	56	16	26	280	34	42	M 16	M 10	
4045	396	446	390	340	282	256	410	206	36	56		56	16	26	280	34	42	M 16	M 10		
4050	396	496	440	340	332	256	460	206	36	56		56	16	26	280	34	42	M 16	M 10		
4060	396	596	540	340	432	256	560	206	36	56		56	16	26	280	34	42	M 16	M 10		
4545	446	446	390	390	282	306	410	256	36	56		56	20	26	330	34	42	M 16	M 10		
4550	446	496	440	390	332	306	460	256	36	56		56	20	26	330	34	42	M 16	M 10		
4560	446	596	540	390	432	306	560	256	36	56		56	20	26	330	34	42	M 16	M 10		
4570	446	696	640	390	532	306	660	256	36	56		56	20	26	330	34	42	M 16	M 10		
4580	446	796	740	390	632	306	760	256	36	56		56	20	26	330	34	42	M 16	M 10		
5050	496	496	440	440	332	356	460	306	36	56		56	20	26	380	34	42	M 16	M 10		
5055	496	546	490	440	382	356	510	306	36	36-56-76-96 106-126-146 166-186-206	56	56	20	26	380	34	42	M 16	M 10		
5060	496	596	540	440	432	356	560	306	36		56	56	20	26	380	34	42	M 16	M 10		
5070	496	696	640	440	532	356	660	306	36		56	56	20	26	380	34	42	M 16	M 10		
5080	496	796	740	440	632	356	760	306	36		56	56	20	26	380	34	42	M 16	M 10		
5555	546	546	490	490	382	406	510	356	36		56	56	20	26	430	34	42	M 16	M 10		
5560	546	596	540	490	432	406	560	356	36		56	56	20	26	430	34	42	M 16	M 10		
5570	546	696	640	490	532	406	660	356	36		56	56	20	26	430	34	42	M 16	M 10		
5580	546	796	740	490	632	406	760	356	36		56	56	20	26	430	34	42	M 16	M 10		
6060	596	596	532	532	424	440	560	390	36		56	64	20	26	464	42	50	M 16	M 12		
6070	596	696	632	532	524	440	660	390	36		56	64	20	26	464	42	50	M 16	M 12		
6080	596	796	732	532	624	440	760	390	36	56	64	20	26	464	42	50	M 16	M 12			
6090	596	896	832	532	724	440	860	390	36	56	64	20	26	464	42	50	M 16	M 12			

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

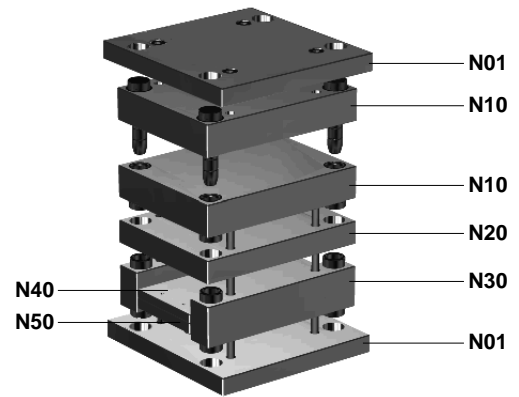
Info

♥ Interchangeable drilled N-plates
♦ Austauschbare gebohrte N-Platten

Uitwisselbaar geboorde N-platen ♣
Plaques alésées interchangeables type N ♠

♥ Ordering example N-plates
♦ Bestellbeispiel N-Platten

Bestelvoorbeeld N-platen ♣
Exemple de commande plaques N ♠



♥ Interchangeable drilled plates
♦ Austauschbare gebohrte Platten
♣ Uitwisselbaar geboorde platen
♠ Plaques alésées interchangeables

N10 3030 - 46/3

♥ Steel
♦ Stahl
♣ Staal
♠ Acier

♥ Thickness
♦ Dicke
♣ Dikte
♠ Epaisseur

Typ(e)

SERIE(S)

<p>N01</p> <p>♥ Oversize clamping plate ♦ Überstehende Aufspannplatte ♣ Overstekende opspanplaat ♠ Contre plaque débordante</p>	<p>N02</p> <p>♥ Oversize clamping plate with center hole and recess for locating ring ♦ Überstehende Aufspannplatte mit Zentrierausdringung und Mittelbohrung für Zentrierung ♣ Overstekende opspanplaat met centergat en uitfrezing voor centreerring ♠ Contre plaque débordante avec trou de centrage et alésage pour anneau de centrage</p>	<p>N03</p> <p>♥ Flush clamping plate ♦ Bündige Aufspannplatte ♣ Opspanplaat ♠ Contre plaque</p>	<p>N04</p> <p>♥ Flush clamping plate with center hole and recess for locating ring ♦ Bündige Aufspannplatte mit Zentrierausdringung und Mittelbohrung für Zentrierung ♣ Opspanplaat met centergat en uitfrezing voor centreerring ♠ Contre plaque avec trou de centrage et alésage pour anneau de centrage</p>	<p>N10</p> <p>♥ Mold plate ♦ Formplatte ♣ Matrijsplaat ♠ Plaque porte empreintes</p>
<p>N15</p> <p>(DME 5-6-11) ♥ Mold plate with undersize boreholes and oversize thickness ♦ Formplatte, Bohrungen Untermaß, Dicke mit Schleifmaß ♣ Matrijsplaat met ondermaatse boringen en overmaatse dikte ♠ Plaque porte empreintes avec surépaisseur et trous de guidage sous-dimensionnés</p>	<p>N20</p> <p>♥ Support plate ♦ Zwischenplatte ♣ Steunplaat ♠ Plaque support</p>	<p>N30</p> <p>♥ Risers ♦ Stützleisten ♣ Steunlijsten ♠ Blocs supports</p>	<p>N40</p> <p>♥ Ejector retainer plate ♦ Auswerferdeckplatte ♣ Uitwerperdekplaat ♠ Contre plaque éjectrice</p>	<p>N50</p> <p>♥ Ejector plate ♦ Auswerfergrundplatte ♣ Uitwerperplaat ♠ Plaque éjectrice</p>

Info

♥ Steel - ♦ Stahl

♣ Staal - ♠ Acier

♥ Steel specification ♦ Stahlspezifizierung ♣ Staalspecificaties ♠ Choix des aciers	♥ Analysis & tensile strength ♦ Analyse & Festigkeit ♣ Analyse & trekvastheid ♠ Analyse & résistance	♥ Description ♦ Beschreibung ♣ Beschrijving ♠ Description
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D-M-E 1 C 45 W 1.1730	ca. 640 MPa (N/mm ²) C = 0,45 Si = 0,30 Mn = 0,70	♥ Non alloy tool steel. Not to be hardened and easy to machine. For molds and simple structural components. ♦ Unlegierter Werkzeugstahl. Anwendung: nicht gehärtete Teile für den Formen-, Werkzeug- und Vorrichtungsbau. ♣ Ongelegeerd gereedschapsstaal. Spanningsvrij gegloeid. Goed bewerkbaar. Hoge taaiheid. Voor niet geharde onderdelen voor matrijs-, gereedschaps- en kaliberbouw. ♠ Acier non allié pour outillage. Facile à usiner. Bonne résistance. Pour éléments non-trempés pour moules et fixations d'outillages.
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D-M-E 3 40 Cr Mn Mo S 8 6 1.2312	ca. 1050 MPa (N/mm ²) C = 0,40 Mn = 1,50 Mo = 0,20 Si = 0,40 Cr = 1,90 S = 0,07	♥ Low alloy pre-heat treated tool steel. Excellent machinability. No further hardening required. Can be nitrided. ♦ Vorvergüteter, legierter Werkzeugstahl. Gute Bearbeitbarkeit durch Schwefelzusatz. Nitrierbar. Anwendung: Formplatten für Druck- und Spritzgießformen. Form- und Werkzeugteile. ♣ Veredeld laaggelegeerd gereedschapsstaal. Uitstekend bewerkbaar. Nitreerbaar. Geschikt voor vormplaten voor pers- en spuitgietmatrijzen en voor matrijs- en gereedschapsonderdelen. ♠ Acier allié prétrempé, ne nécessite pas de trempe après usinage, donc aucune déformation avec tenue de dureté à température élevée. Usinage exceptionnel. Peut être chromé et nitruré. Pour plaques empreintes pour moules matières plastiques, inserts pour injection, compression et outils de haute pression.
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D-M-E 4 21 Mn Cr 5 1.2162	ca. 590 MPa (N/mm ²) C = 0,21 Mn = 1,20 Si = 0,30 Cr = 1,20	♥ Case hardening tool steel. Suitable for hobbing with very high surface hardness and finish. For molds and inserts for injection molding. ♦ Legierter Einsatzstahl. Ätzbar, Polierbar und Strukturverfestigbar. Anwendung: Formplatten und Einsätze für Kunststoffformen. ♣ Gelegeerd cementeerstaal. Zeer goed bewerkbaar. Textureerbaar, uitstekend polijstbaar en hardbaar. Voor vormplaten en inzetstukken voor kunststofmatrijzen. ♠ Acier à tremper de cémentation très usinable. Peut être poli et texturé. Pour plaques empreintes et inserts dans des moules pour matières plastiques.
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D-M-E 5 X 40 Cr Mo V 5 1 1.2344	ca. 750 MPa (N/mm ²) C = 0,40 Mn = 0,40 Mo = 1,30 Si = 1,00 Cr = 5,20 V = 1,00	♥ Medium alloy hot work tool steel. Resistant to thermal shock and thermal fatigue. Can be heat-treated. For molds for injection molding and diecasting. ♦ Legierter Warmarbeitsstahl. Hohe Warmfestigkeit, Zähigkeit, Druck- und Verschleißfestigkeit. Temperaturwechselbeständigkeit. Wärmeleitfähigkeit. Anwendung: Formplatten und Einsätze für Druckgieß- und Kunststoffverarbeitung. ♣ Gelegeerd warmmatrijzenstaal. Hoge warmtebestendigheid, taaiheid, druk- en slijtvastheid. Geleverd in ontlaten toestand. Nitreerbaar. Geschikt voor vormplaten en inzetstukken voor spuitgiet- en drukgietmatrijzen. ♠ Acier allié à chaud. Résistance excellente à températures élevées, haute ténacité. Livré à l'état non trempé. Peut être trempé et nitruré. Pour plaques empreintes et inserts pour l'injection et la coulée sous pression.
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D-M-E 6 X 45 Ni Cr Mo 4 1.2767	ca. 830 MPa (N/mm ²) C = 0,45 Cr = 1,40 Ni = 4,00 Mo = 0,30 Si = 0,20 Mn = 0,30	♥ Through hardening tool steel. High polishability. Good toughness and shock resistant. The standard quality for molds for injection molding. ♦ Legierter Durchhärtestahl. Sehr gute Polierfähigkeit für hohe Oberflächenanforderungen. Anwendung: Formplatten und Einsätze für die Kunststoffverarbeitung. ♣ Gelegeerd doorhardstaal. Hoge maatbestendigheid en gelijkmatige hardheid. Zeer goed polijstbaar en hoge drukvastheid. Goed vonkverspaanbaar. Voor vormplaten en inzetstukken voor kunststofverwerking, speciaal geschikt voor hoogglanspolijsten. ♠ Acier allié trempant à cœur. Stabilité dimensionnelle et trempe uniforme. Excellent usinage par électro-érosion. Résistance élevée à la compression. Pour empreintes et inserts pour l'injection. Excellentes aptitudes au polissage.
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Info

♥ Steel - ♦ Stahl

♣ Staal - ♠ Acier

♥ Steel specification ♦ Stahlspezifizierung ♣ Staalspecificaties ♠ Choix des aciers	♥ Analysis & tensile strength ♦ Analyse & Festigkeit ♣ Analyse & trekvastheid ♠ Analyse & résistance	♥ Description ♦ Beschreibung ♣ Beschrijving ♠ Description
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D-M-E 7

40 Cr Mn Mo 7

1.2311

ca. 1050 MPa (N/mm²)

C = 0,40
Si = 0,40
Mn = 1,50
Cr = 1,90
Mo = 0,20

♥ Low alloy pre-heat treated tool and cavity steel. Suitable for molds without a hardening treatment. Can be hard chromed and nitrided. Supreme surface appearance.
♦ Vorvergüteter, legierter Werkzeugstahl. Gute Bearbeitbarkeit. Polierbar. Nitrierbar. Ätzbar und Strukturerdierbar. Anwendung: Formplatten und Einsätze für Spritzgießformen.
♣ Voorveredeld gelegeerd gereedschapsstaal. Warmtebehandeling en bewerking niet nodig. Behoud van hardheid bij hoge temperaturen. Hoge taaiheid. Zeer goed polijstbaar. Hard verchroom- en nitreerbaar. Geschikt voor vormplaten en inzetstukken voor spuitgietmatrijzen.
♠ Acier allié et prétrempé. Ne nécessite pas de trempe après usinage, donc aucune déformation avec tenue de dureté à température élevée. Usinage exceptionnel. Haute ténacité. Polissage à haut degré, peut être chromé, nitruré et grainé. Pour plaques empreintes de moules pour matières plastiques, inserts pour injection, compression et outils de haute pression.

D-M-E 9

≈ 45 Ni Cr 6

≈ 1.2738

Impax® Supreme

ca. 1050 MPa (N/mm²)

290-330 HB

C = 0,37
Si = 0,30
Mn = 1,40
Cr = 2,00
Ni = 1,00
Mo = 0,20
S = 0,008

♥ Vacuum degassed Cr Ni Mo steel. Suitable for molds without a hardening treatment. Excellent polishing and photo-etching properties. Good machinability. High purity and good homogeneity. Uniform hardness in all dimensions. Supreme surface appearance. Tool and cavity steel for injection molding.
♦ Ein vakuumtgestarter Cr Ni Mo Stahl. Hervorragendes Verhalten beim Polieren und Foto-Ätzen. Gute Zerspanbarkeit. Hohe Reinheit und gute Homogenität. Gleichmäßige Härte bei allen Querschnitten. Anwendung: Formplatten und Einsätze für die Kunststoffverarbeitung.
♣ Vacuum ontgast Cr Ni Mo staal. Uitstekend polijstbaar en geschikt voor fotoetsen. Goede bewerkbaarheid. Hoge zuiverheid. Gelijmatige hardheid in alle afmetingen. Geschikt voor vormplaten en inzetstukken voor spuitgietmatrijzen.
♠ Acier Cr Ni Mo dégazé sous vide. Propriétés excellentes de polissage et photogravure. Facile à usiner. Grandes pureté, homogénéité et isotropie. Pour plaques empreintes et inserts dans des moules pour matières plastiques.

D-M-E 10

≈ X 36 Cr Mo 17

≈ 1.2316

Ramax® S

ca. 1150 MPa (N/mm²)

≈ 340 HB

C = 0,33
Si = 0,35
Mn = 1,35
Cr = 16,70
V = 0,12

♥ Chromium alloy stainless bolster steel with excellent machinability. Good corrosion resistance. Uniform hardness in all dimensions. Good indentation resistance. Ramax® S is not recommended for inserts.
♦ Ein chromlegierter, korrosionsbeständiger Formenaufbaustahl. Ausgezeichnete Zerspanbarkeit. Gleichmäßige Härte. Gute Druckfestigkeit. Ramax® S ist nicht geeignet für Einsätze.
♣ Roestvrij Cr matrijshouderstaal. Goede corrosieweerstand. Uitstekende bewerkbaarheid. Gelijmatige hardheid in alle afmetingen. Bestand tegen samendrukken. Ramax® S is niet geschikt voor inzetstukken.
♠ Acier allié au chrome pour porte moules. Résistant à la corrosion. Facile à usiner. Dureté uniforme dans toutes les directions. Résistance à la compression. Ramax® S n'est pas recommandé pour blocs inserts.

D-M-E 11

≈ X 42 Cr 13

≈ 1.2083

Stavax® ESR

ca. 720 MPa (N/mm²)

≈ 200 HB

C = 0,38
Si = 0,9
Mn = 0,5
Cr = 13,6
V = 0,3

♥ Chromium alloy stainless tool steel. Good corrosion and wear resistance. Good polishability. Good machinability and stability in hardening. Excellent cavity steel.
♦ Ein chromlegierter, korrosionsbeständiger Werkzeugstahl. Ausgezeichnete Polierbarkeit, verschleißfest. Gute Zerspanbarkeit und Maßbeständigkeit beim Härten. Ein hervorragender Einsatzstahl.
♣ Roestvrij Cr gereedschapsstaal. Goede corrosieweerstand. Uitstekend polijstbaar. Hoge slijtvastheid. Goed bewerkbaar en stabiel bij het harden. Uitstekend voor vormplaten en inzetstukken.
♠ Acier à outil allié au Cr. Résistant à la corrosion. Facile à polir. Résistant à l'usure. Bonne stabilité au traitement thermique. Acier excellent pour inserts.

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

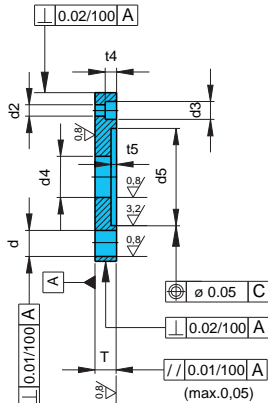
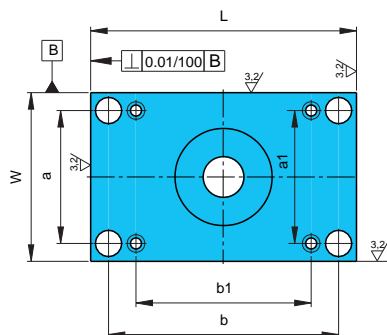
Spruitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

Info

♥ Tolerances - ♦ Toleranzen

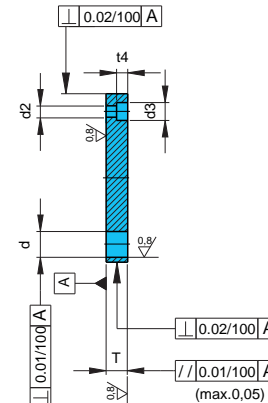
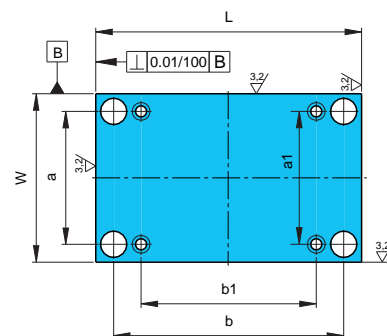
♣ Toleranties - ♠ Tolérances

N02/N04



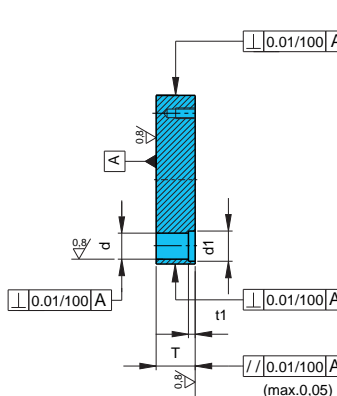
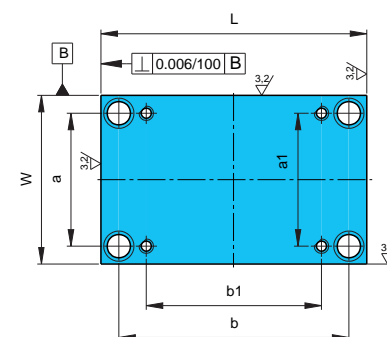
	SERIE(S)	Tol. - µm
L W	1010 - 3040	+50 0
	3045 - 5050	+100 0
	5055 - 6090	+100 0
T	1010 - 6090	+50 0
a,b	1010 - 3040	±14
	3045 - 5050	±14
	5055 - 6090	±14
a1, b1	1010 - 3040	±200
	3045 - 6090	±300
d ^{H7}	1010 - 1216	+18 0
	1616 - 2225	+21 0
	2525 - 6090	+25 0
d2 ^{H13}	1010 - 3060	+220 0
	3535 - 6090	+270 0
d3 ^{H13}	1010 - 3060	+270 0
	3535 - 6090	+330 0
d4 ^{H7}	1212 - 1216	+18 0
	1616 - 6090	+21 0
d5 ^{H9}	1212 - 1216	+74 0
	1616 - 6090	+87 0
t4	1010 - 3040	+200 0
	3045 - 5050	+300 0
	5055 - 6090	+400 0
t5	1010 - 6090	+200 0

N01/N03



	SERIE(S)	Tol. - µm
L W	1010 - 3040	+50 0
	3045 - 5050	+100 0
	5055 - 6090	+100 0
T	1010 - 6090	+50 0
a,b	1010 - 3040	±14
	3045 - 5050	±14
	5055 - 6090	±14
a1, b1	1010 - 3040	±200
	3045 - 6090	±300
d ^{H7}	1010 - 1216	+18 0
	1616 - 2225	+21 0
	2525 - 6090	+25 0
d2 ^{H13}	1010 - 3060	+220 0
	3535 - 6090	+270 0
d3 ^{H13}	1010 - 3060	+270 0
	3535 - 6090	+330 0
t4	1010 - 3040	+200 0
	3045 - 5050	+300 0
	5055 - 6090	+400 0

N10/N15



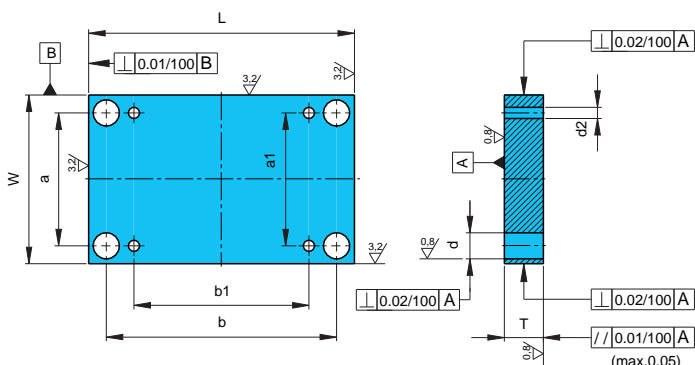
	SERIE(S)	Tol. - µm	
L W	1010 - 3040	N10 ±15	N15 ±15
	3045 - 5050	±20	±20
	5055 - 6090	±25	±25
T	1010 - 6090	+50 0	+200 +400
a,b	1010 - 3040	±10	±10
	3045 - 5050	±12	±12
	5055 - 6090	±14	±14
a1, b1	1010 - 3040	±200	±200
	3045 - 6090	±300	±300
d ^{H7}	1010 - 1216	+18 0	+18 0
	1616 - 2225	+21 0	+21 0
	2525 - 6090	+25 0	+25 0
d1	1010 - 6090	+400 0	+400 0
t1	1010 - 6090	+300 0	+300 0

Info

♥Tolerances - ♦Toleranzen

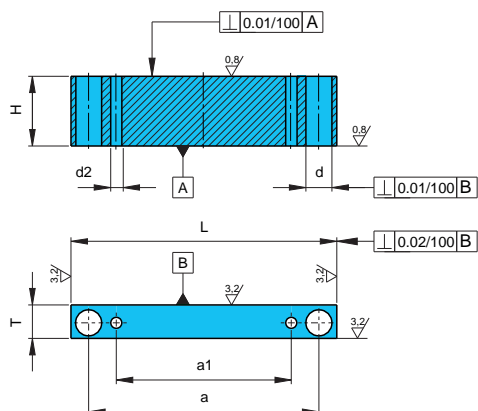
♣Toleranties - ♠Tolérances

N20



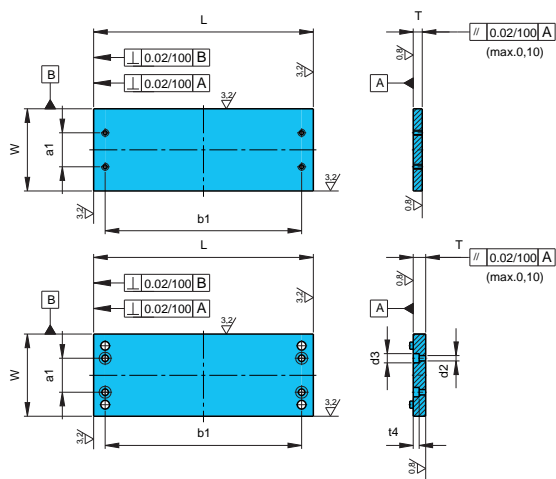
	SERIE(S)	Tol. in μm
L W	1010 - 3040	+50 0
	3045 - 5050	+100 0
	5055 - 6090	+100 0
T	1010 - 6090	+50 0
a,b	1010 - 3040	± 14
	3045 - 5050	± 14
	5055 - 6090	± 14
a1,b1	1010 - 3040	± 200
	3045 - 6090	± 300
d ^{H7}	1010 - 1216	+18 0
	1616 - 2225	+21 0
	2525 - 6090	+25 0
d2 ^{H13}	1010 - 3060	+220 0
	3535 - 6090	+270 0

N30



	SERIE(S)	Tol. in μm
L	1010 - 6090	-400 -800
T	1010 - 6090	-200 -800
H	1010 - 6090	+50 0
a	1010 - 3040	± 14
	3045 - 5050	± 14
	5055 - 6090	± 14
a1	1010 - 3040	± 200
	3045 - 6090	± 300
d ^{H7}	1010 - 1216	+18 0
	1616 - 2225	+21 0
	2525 - 6090	+25 0
d2 ^{H13}	1010 - 3060	+220 0
	3535 - 6090	+270 0

N40/N50



	SERIE(S)	Tol. in μm
L	1010 - 6090	0 -100
W	1010 - 6090	0 -100
T	1010 - 6090	+400 0
a1, b1	1010 - 3040	± 200
	3045 - 6090	± 300
t4	1010 - 1625	+200 0
	2020 - 3060	+300 0
	3535 - 5580	+400 0
	6060 - 6090	+400 0
d2 ^{H13}	1010 - 3060	+220 0
	3535 - 6090	+270 0
d3 ^{H13}	1010 - 3060	+270 0
	3535 - 6090	+330 0

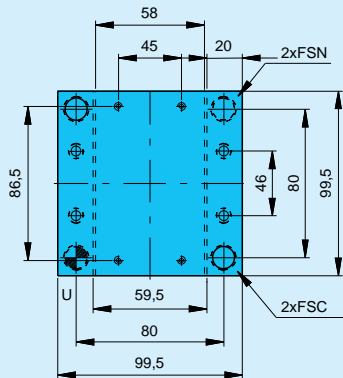
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

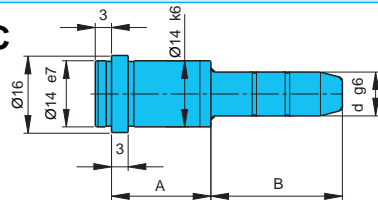
N 1010

(99,5 x 99,5 mm)

N + B

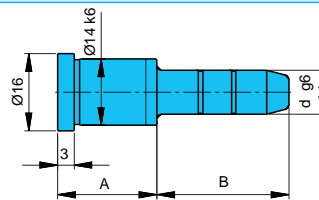


FSC



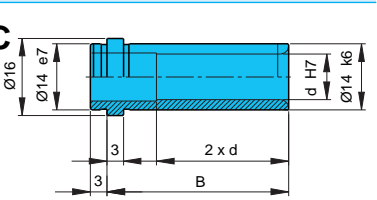
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- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
FSC 10- 26- 36	- 56	FSC 9- 26- 36	- 56
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FSN



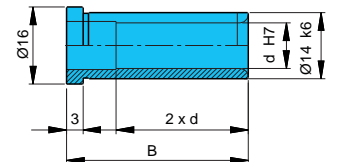
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FSN 10- 20- 26	- 46	FSN 9- 20- 26	- 46
- 46	- 46	- 46	- 46
FSN 10- 26- 26	- 46	FSN 9- 26- 26	- 46
- 46	- 46	- 46	- 46
FSN 10- 36- 26	- 46	FSN 9- 36- 26	- 46
- 46	- 46	- 46	- 46
FSN 10- 46- 26	- 46	FSN 9- 46- 26	- 46

FBC



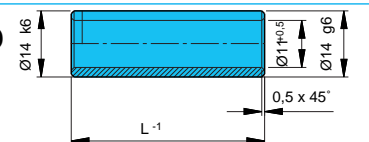
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FBN



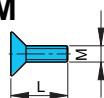
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- 46	- 46	- 46	- 46

TD



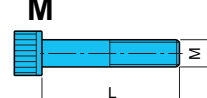
REF. L	REF. L
TD 14- 30	TD 14- 50
- 40	- 60

SM



REF. L
SM 4 x 12
M 6 x 16
x 20
x 40

M



REF. L
M 6 x 45
x 50
x 60
x 70

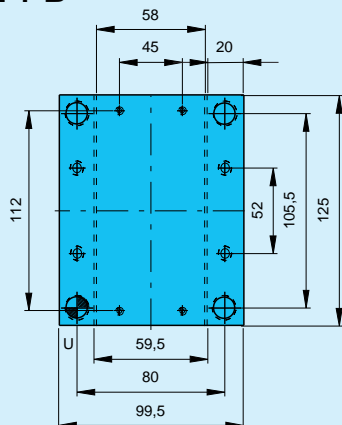
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

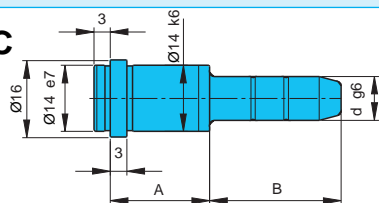
N 1012

(99,5 x 125 mm)

N + B

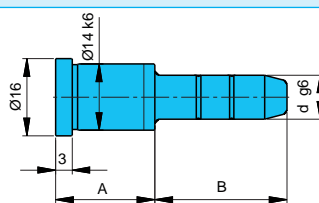


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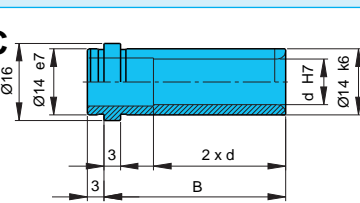
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- 46		- 46	
- 66		- 66	
- 86		- 86	
FSC 10- 26- 36		FSC 9- 26- 36	
- 56		- 56	
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FSN



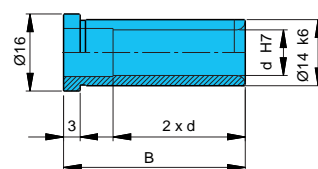
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- 46		- 46	
FSN 10- 26- 26		FSN 9- 26- 26	
- 46		- 46	
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FSN 10- 46- 26		FSN 9- 46- 26	
- 46		- 46	

FBC



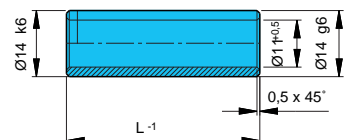
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- 36		- 36	
- 46		- 46	

FBN



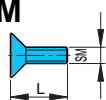
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- 26		- 26	
- 36		- 36	
- 46		- 46	

TD



REF. L	REF. L
TD 14- 30	TD 14- 50
- 40	- 60

SM



REF. L	REF. L
SM 4 x 12	M 6 x 45
	x 50
M 6 x 16	x 60
x 20	x 70
x 40	x 80

M



REF. L	REF. L
M 6 x 45	
x 50	
x 60	
x 70	
x 80	

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 1212

(125 x 125 mm)

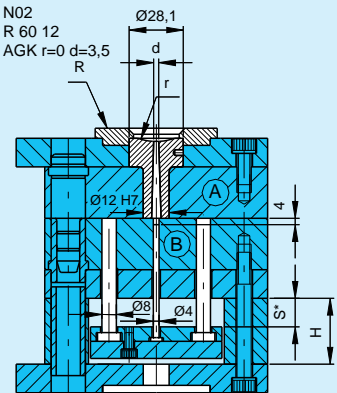
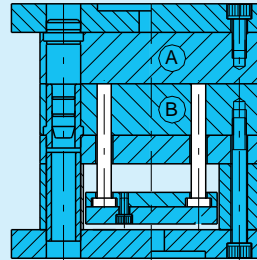
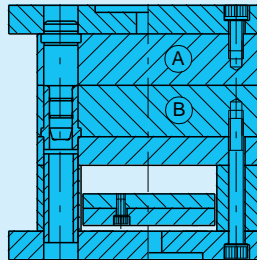
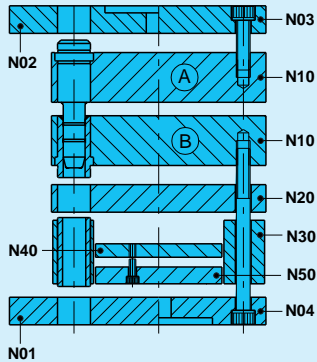
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 1212 N T(A) T(B) H
N01 N10 - N10 / Mat. 46

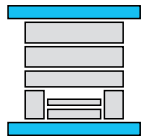
B
N 1212 B T(A) T(B) H
N01 N10 - N10 / Mat. 46

R
N 1212 R T(A) T(B) H
N01 N10 - N10 / Mat. 46

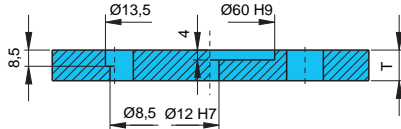
SF
N 1212 SF T(A) T(B) H
N02 N10 - N10 / Mat. 46
R 60 12
AGK r=0 d=3,5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01



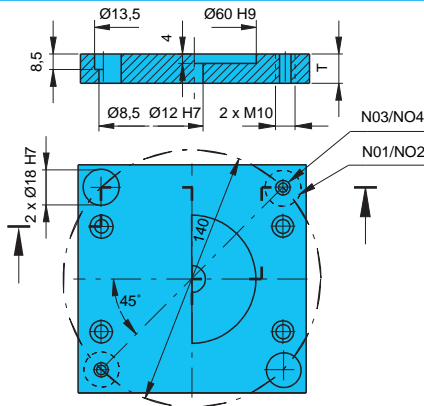
N02

REF.	T	Mat.
N01-1212-16/1		1730

REF.	T	Mat.
N02-1212-16/1		1730



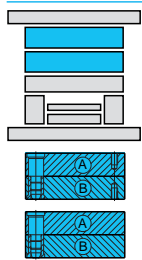
N03



N04

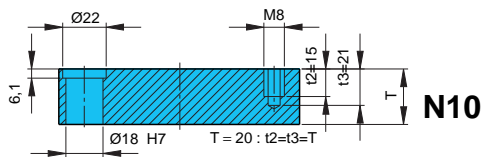
REF.	T	Mat.
N03-1212-16/1		1730

REF.	T	Mat.
N04-1212-16/1		1730

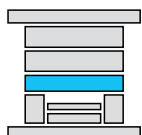


S

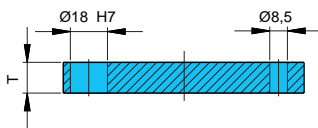
SO



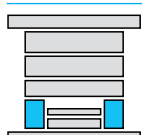
REF.	Mat.	T(A) (B)
N10-1212-T/3	2312	20 26 36 46 56
N10-1212-T/4	2162	
N10-1212-T/7	2311	
N10-1212-T/9	Impax	



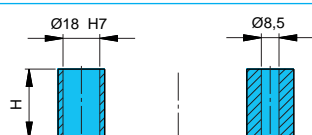
N20



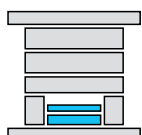
REF.	T	Mat.
N20-1212-20/1		1730



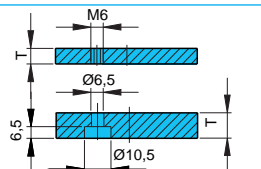
N30



REF.	Mat.	H
N30-H-1212/1	1730	36 46



N40



REF.	T	Mat.
N40-8-1212/1		1730

N50

REF.	T	Mat.
N50-12-1212/1		1730

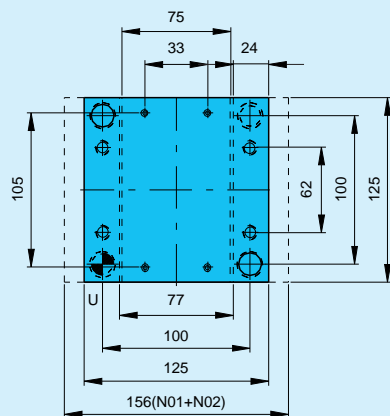
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

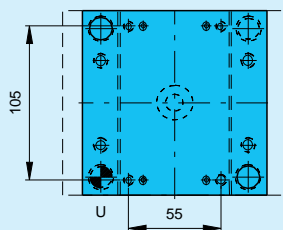
N 1212

(125 x 125 mm)

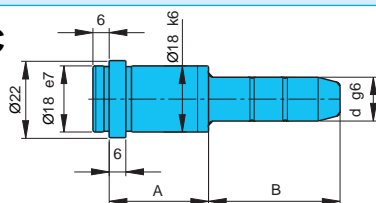
N + B



R + SF

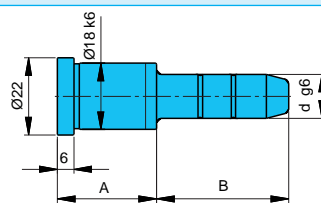


FSC



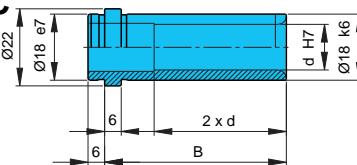
REF. d	A - B	REF. d	A - B
FSC 12- 20- 20	- 26	FSC 11- 20- 20	- 26
- 66	- 66	- 66	- 66
FSC 12- 26- 26	- 36	FSC 11- 26- 26	- 36
- 56	- 56	- 56	- 56
- 96	- 96	- 96	- 96
FSC 12- 36- 36	- 56	FSC 11- 36- 36	- 56
- 86	- 86	- 86	- 86
FSC 12- 46- 46	- 66	FSC 11- 46- 46	- 66
- 66	- 66	- 66	- 66
FSC 12- 56- 36	- 56	FSC 11- 56- 36	- 56

FSN



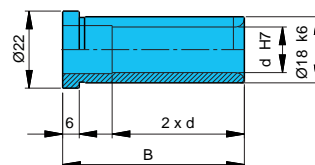
REF. d	A - B	REF. d	A - B
FSN 12- 20- 20	- 26	FSN 11- 20- 20	- 26
- 66	- 66	- 66	- 66
FSN 12- 26- 26	- 36	FSN 11- 26- 26	- 36
- 56	- 56	- 56	- 56
FSN 12- 36- 36	- 56	FSN 11- 36- 36	- 56
- 56	- 56	- 56	- 56
FSN 12- 46- 46	- 66	FSN 11- 46- 46	- 66
- 66	- 66	- 66	- 66
FSN 12- 56- 36	- 56	FSN 11- 56- 36	- 56

FBC



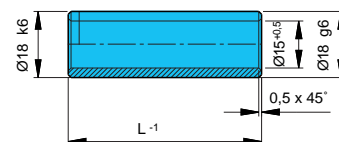
REF. d	B	REF. d	B
FBC 12- 20	- 26	FBC 11- 20	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56

FBN



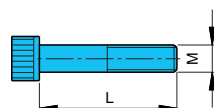
REF. d	B	REF. d	B
FBN 12- 20	- 26	FBN 11- 20	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56

TD



REF. L	REF. L
TD 18- 30	TD 18- 66
- 46	

M



REF. L	REF. L
M 6 x 12	M 8 x 20
	x 60
	x 70
	x 80
	x 90

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 1216

(125 x 156 mm)

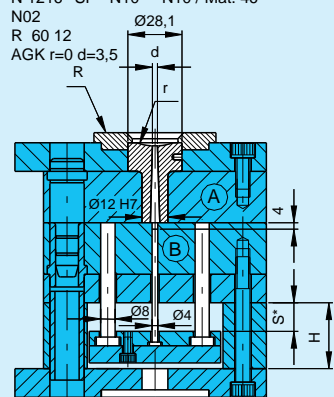
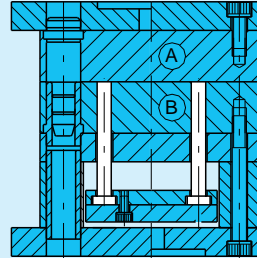
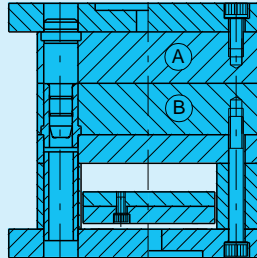
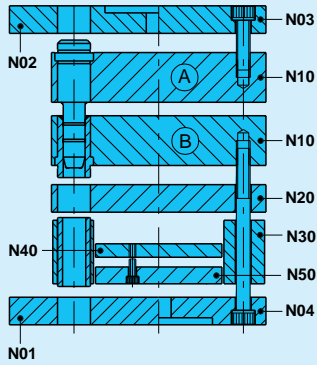
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 1216 N T^A T^B H
N01 N10 - N10 / Mat. 46

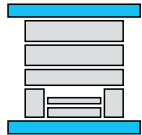
B
N 1216 B T^A T^B H
N01 N10 - N10 / Mat. 46

R
N 1216 R T^A T^B H
N01 N10 - N10 / Mat. 46

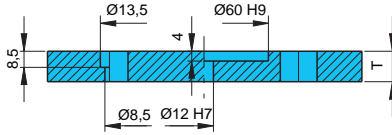
SF
N 1216 SF T^A T^B H
N02 N10 - N10 / Mat. 46
R 60 12
AGK r=0 d=3,5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01



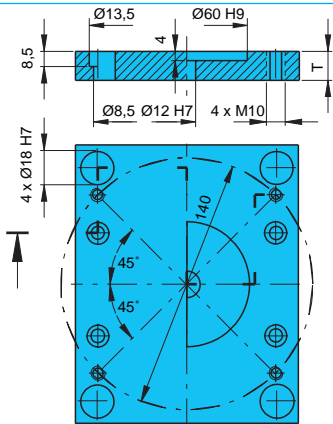
N02

REF.	T	Mat.
N01-1216-16/1		1730

REF.	T	Mat.
N02-1216-16/1		1730



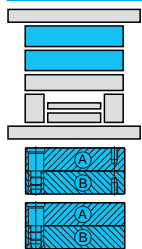
N03



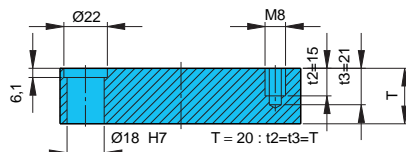
N04

REF.	T	Mat.
N03-1216-16/1		1730

REF.	T	Mat.
N04-1216-16/1		1730

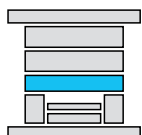


S
SO

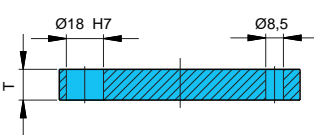


N10

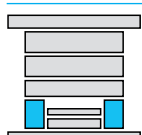
REF.	Mat.	T ^A T ^B
N10-1216-T/3	2312	20 26 36 46 56
N10-1216-T/4	2162	
N10-1216-T/7	2311	
N10-1216-T/9	Impax	



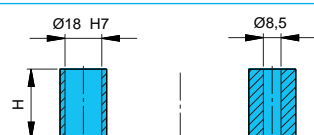
N20



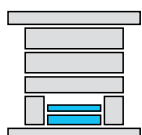
REF.	T	Mat.
N20-1216-20/1		1730



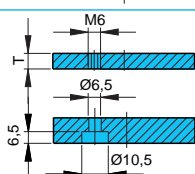
N30



REF.	Mat.	H
N30-H-1216/1	1730	36 46



N40



REF.	T	Mat.
N40-8-1216/1		1730

N50

REF.	T	Mat.
N50-12-1216/1		1730

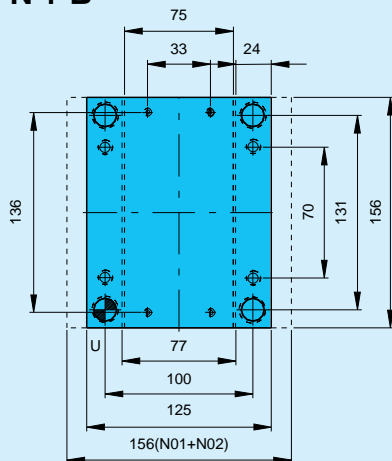
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

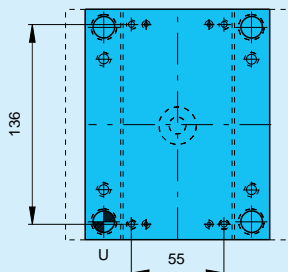
N 1216

(125 x 156 mm)

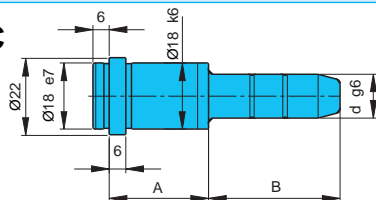
N + B



R + SF

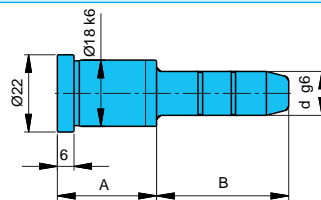


FSC



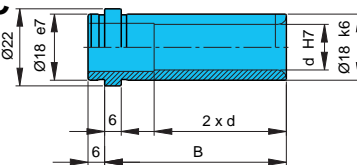
REF. d	A - B	REF. d	A - B
FSC 12- 20- 20	- 26	FSC 11- 20- 20	- 26
- 66	- 66	- 66	- 66
FSC 12- 26- 26	- 36	FSC 11- 26- 26	- 36
- 56	- 56	- 56	- 56
- 96	- 96	- 96	- 96
FSC 12- 36- 36	- 56	FSC 11- 36- 36	- 56
- 86	- 86	- 86	- 86
FSC 12- 46- 46	- 66	FSC 11- 46- 46	- 66
- 66	- 66	- 66	- 66
FSC 12- 56- 36	- 56	FSC 11- 56- 36	- 56

FSN



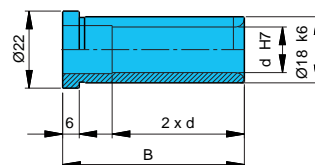
REF. d	A - B	REF. d	A - B
FSN 12- 20- 20	- 26	FSN 11- 20- 20	- 26
- 66	- 66	- 66	- 66
FSN 12- 26- 26	- 36	FSN 11- 26- 26	- 36
- 56	- 56	- 56	- 56
FSN 12- 36- 36	- 56	FSN 11- 36- 36	- 56
- 56	- 56	- 56	- 56
FSN 12- 46- 46	- 66	FSN 11- 46- 46	- 66
- 66	- 66	- 66	- 66
FSN 12- 56- 36	- 56	FSN 11- 56- 36	- 56

FBC



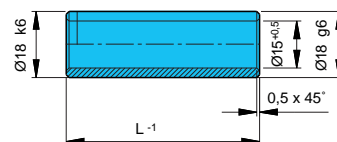
REF. d	B	REF. d	B
FBC 12- 20	- 26	FBC 11- 20	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56

FBN



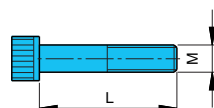
REF. d	B	REF. d	B
FBN 12- 20	- 26	FBN 11- 20	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56

TD



REF. L	REF. L
TD 18- 30	TD 18- 66
- 46	

M



REF. L	REF. L
M 6 x 12	M 8 x 20
	x 60
	x 70
	x 80
	x 90

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 1616

(156 x 156 mm)

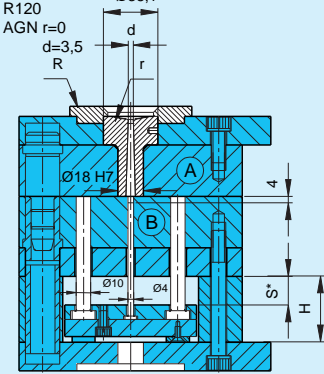
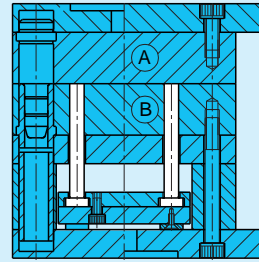
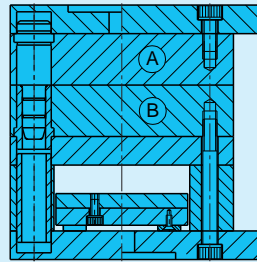
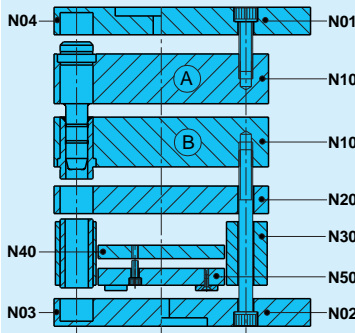
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 1616 N T^A T^B H
N01 N10 - N10 / Mat. 56

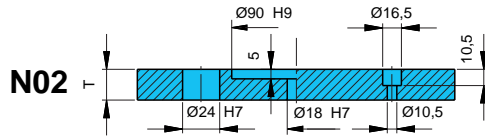
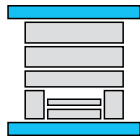
B
N 1616 B T^A T^B H
N01 N10 - N10 / Mat. 56

R
N 1616 R T^A T^B H
N01 N10 - N10 / Mat. 56

SF
N 1616 SF T^A T^B H
N02 R120 AGN r=0
N10 - N10 / Mat. 56

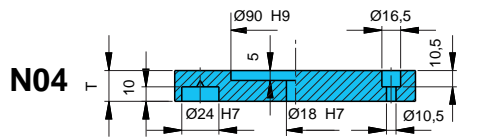


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



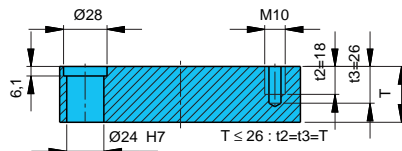
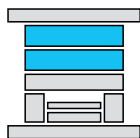
N01

REF.	T	Mat.	REF.	T	Mat.
N02-1616-20/1		1730	N01-1616-20/1		1730



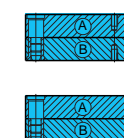
N03

REF.	T	Mat.	REF.	T	Mat.
N04-1616-20/1		1730	N03-1616-20/1		1730

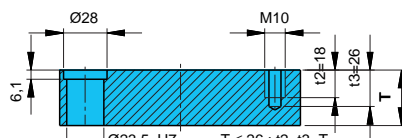


N10

REF.	Mat.	T ^A T ^B							
N10-1616-T/1	1730	17	22	26	36	46	56	66	76
N10-1616-T/3	2312								
N10-1616-T/4	2162								
N10-1616-T/5	2344								
N10-1616-T/6	2767								
N10-1616-T/7	2311								
N10-1616-T/9	Impax								
N10-1616-T/10	Ramax								
N10-1616-T/11	Stavax								

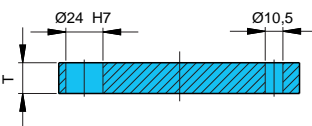
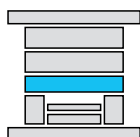


S



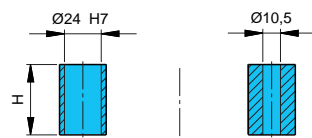
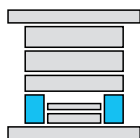
N15

REF.	Mat.	T ^A T ^B							
N15-1616-T/5	2344	17	22	26	36	46	56	66	76
N15-1616-T/6	2767								
N15-1616-T/11	Stavax								



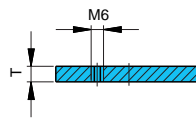
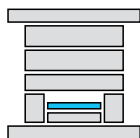
N20

REF.	T	Mat.
N20-1616-26/1		1730



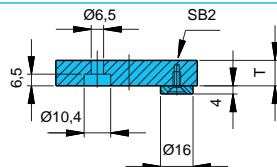
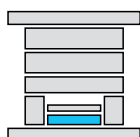
N30

REF.	Mat.	H		
N30-H-1616/1	1730	46	56	66



N40

REF.	T	Mat.
N40-10-1616/1		1730



N50

REF.	T	Mat.
N50-12-1616/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

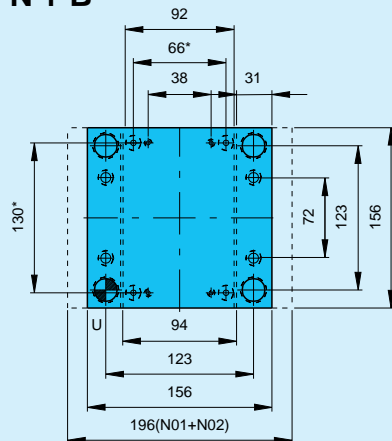
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

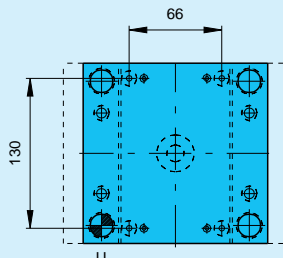
N 1616

(156 x 156 mm)

N + B

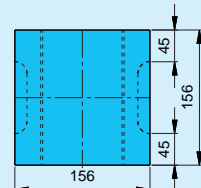
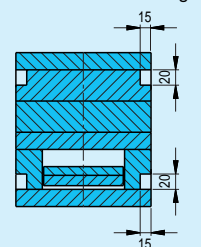


R + SF

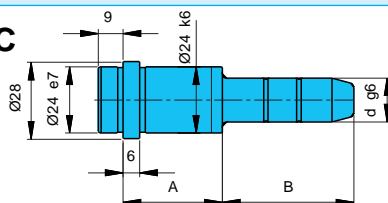


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

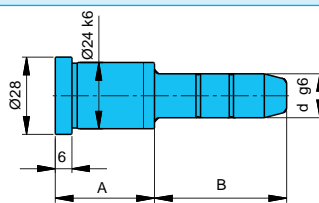


FSC



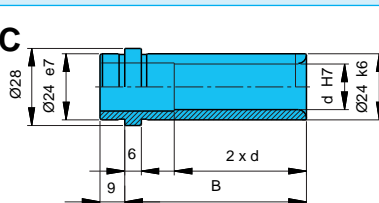
REF. d	A - B	REF. d	A - B
FSC 16- 26- 26	- 36	FSC 15- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
- 146	- 146	- 146	- 146
FSC 16- 36- 26	- 36	FSC 15- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
- 126	- 126	- 126	- 126
FSC 16- 46- 36	- 46	FSC 15- 46- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
FSC 16- 56- 36	- 56	FSC 15- 56- 36	- 56
- 76	- 76	- 76	- 76
FSC 16- 66- 46	- 76	FSC 15- 66- 46	- 76
- 86	- 86	- 86	- 86

FSN



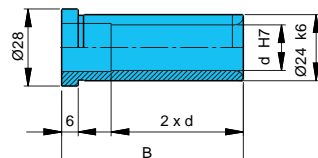
REF. d	A - B	REF. d	A - B
FSN 16- 26- 26	- 36	FSN 15- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
- 106	- 106	- 106	- 106
FSN 16- 36- 26	- 36	FSN 15- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
FSN 16- 46- 36	- 56	FSN 15- 46- 36	- 56
- 76	- 76	- 76	- 76
FSN 16- 56- 36	- 56	FSN 15- 56- 36	- 56
- 76	- 76	- 76	- 76
FSN 16- 66- 46	- 76	FSN 15- 66- 46	- 76
- 86	- 86	- 86	- 86

FBC



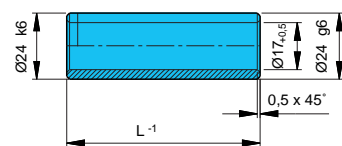
REF. d	B	REF. d	B
FBC 16- 26	- 36	FBC 15- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76

FBN



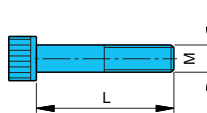
REF. d	B	REF. d	B
FBN 16- 17	- 22	FBN 15- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76

TD



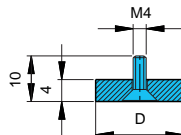
REF. L	REF. L
TD 24- 30	TD 24- 76
- 50	- 86
- 60	- 96

M



REF. L	REF. L
M 6 x 16	M 10 x 80
	x100
M 10 x 25	x110
x 70	x120

SB



REF. D
SB2 16

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 1620

(156 x 196 mm)

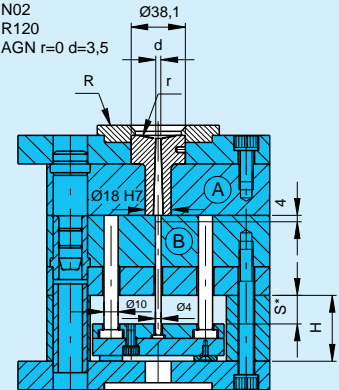
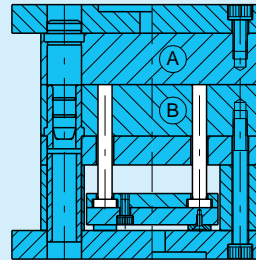
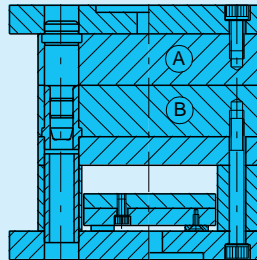
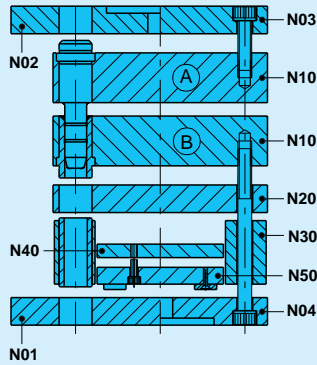
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 1620 N T^A T^B H
N01 N10 - N10 / Mat. 56

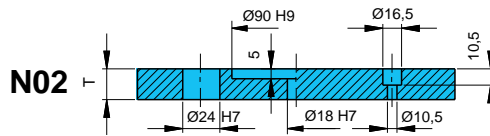
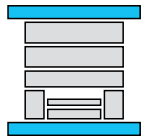
B
N 1620 B T^A T^B H
N01 N10 - N10 / Mat. 56

R
N 1620 R T^A T^B H
N01 N10 - N10 / Mat. 56

SF
N 1620 SF T^A T^B H
N02 N10 - N10 / Mat. 56
R120
AGN r=0 d=3,5



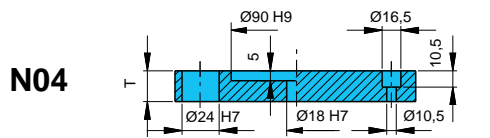
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-1620-20/1		1730

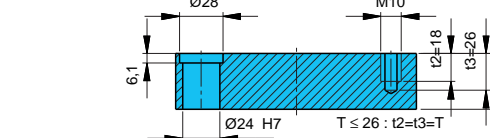
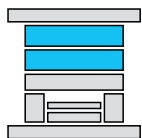
REF.	T	Mat.
N01-1620-20/1		1730



N03

REF.	T	Mat.
N04-1620-20/1		1730

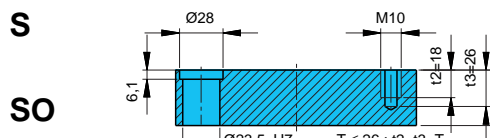
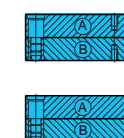
REF.	T	Mat.
N03-1620-20/1		1730



N10

REF.	Mat.	T ^A T ^B
N10-1620-T/1	1730	17 22 26 36 46 56 66 76
N10-1620-T/3	2312	
N10-1620-T/4	2162	
N10-1620-T/5	2344	
N10-1620-T/6	2767	
N10-1620-T/7	2311	
N10-1620-T/9	Impax	
N10-1620-T/10	Ramax	
N10-1620-T/11	Stavax	

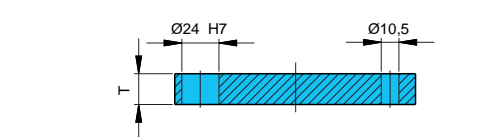
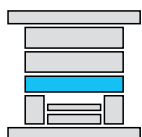
T ^A T ^B	17	22	26	36	46	56	66	76
N10-1620-T/1								
N10-1620-T/3								
N10-1620-T/4								
N10-1620-T/5								
N10-1620-T/6								
N10-1620-T/7								
N10-1620-T/9								
N10-1620-T/10								
N10-1620-T/11								



N15

REF.	Mat.	T ^A T ^B
N15-1620-T/5	2344	17 22 26 36 46 56 66 76
N15-1620-T/6	2767	
N15-1620-T/11	Stavax	

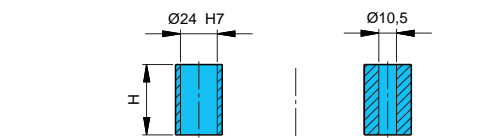
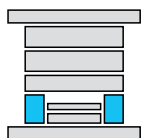
T ^A T ^B	17	22	26	36	46	56	66	76
N15-1620-T/5								
N15-1620-T/6								
N15-1620-T/11								



N20

REF.	T	Mat.
N20-1620-26/1		1730

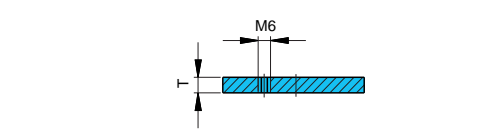
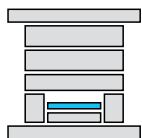
T	17	22	26	36	46	56	66	76
N20-1620-26/1								



N30

REF.	Mat.	H
N30-H-1620/1	1730	46 56 66

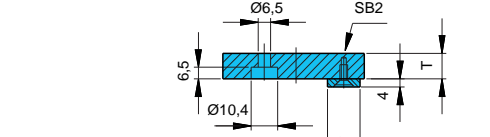
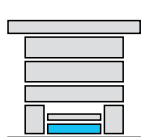
H	46	56	66
N30-H-1620/1			
S*	20	30	40
N30-H-1620/1			



N40

REF.	T	Mat.
N40-10-1620/1		1730

T	17	22	26	36	46	56	66	76
N40-10-1620/1								



N50

REF.	T	Mat.
N50-12-1620/1		1730

T	17	22	26	36	46	56	66	76
N50-12-1620/1								

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

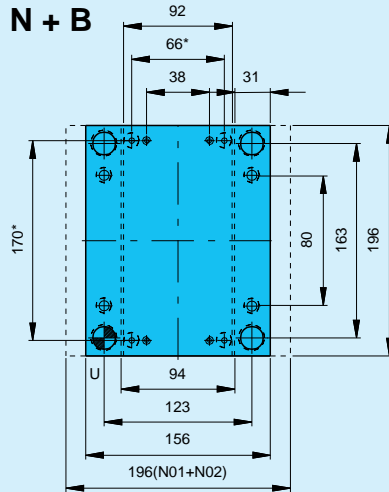
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

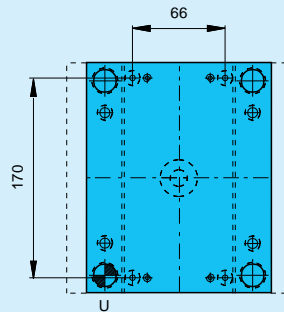
N 1620

(156 x 196 mm)

N + B

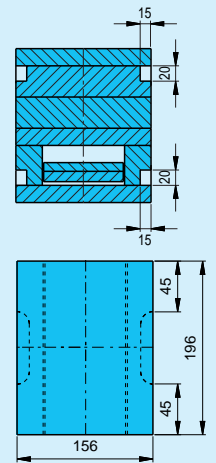


R + SF

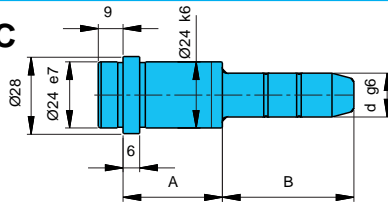


* ♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

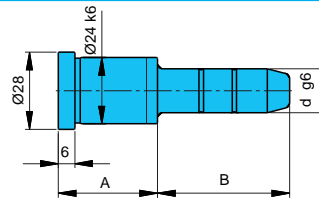


FSC



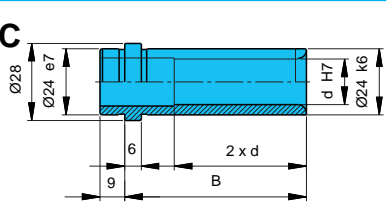
REF. d	A - B	REF. d	A - B
FSC 16- 26- 26		FSC 15- 26- 26	
- 36		- 36	
- 46		- 46	
- 66		- 66	
- 86		- 86	
- 146		- 146	
FSC 16- 36- 26		FSC 15- 36- 26	
- 36		- 36	
- 46		- 46	
- 66		- 66	
- 86		- 86	
- 126		- 126	
FSC 16- 46- 36		FSC 15- 46- 36	
- 46		- 46	
- 56		- 56	
- 76		- 76	
FSC 16- 56- 36		FSC 15- 56- 36	
- 56		- 56	
- 76		- 76	
FSC 16- 66- 46		FSC 15- 66- 46	
- 76		- 76	
FSC 16- 76- 56		FSC 15- 76- 56	
- 86		- 86	

FSN



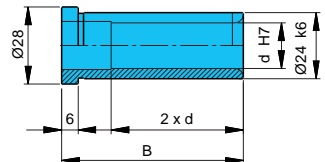
REF. d	A - B	REF. d	A - B
FSN 16- 26- 26		FSN 15- 26- 26	
- 36		- 36	
- 46		- 46	
- 66		- 66	
- 86		- 86	
- 106		- 106	
FSN 16- 36- 26		FSN 15- 36- 26	
- 36		- 36	
- 46		- 46	
- 66		- 66	
- 86		- 86	
- 106		- 106	
FSN 16- 46- 36		FSN 15- 46- 36	
- 56		- 56	
- 76		- 76	
FSN 16- 56- 36		FSN 15- 56- 36	
- 56		- 56	
- 76		- 76	
FSN 16- 66- 46		FSN 15- 66- 46	
- 76		- 76	
FSN 16- 76- 56		FSN 15- 76- 56	
- 86		- 86	

FBC



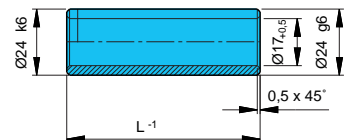
REF. d	B	REF. d	B
FBC 16- 26		FBC 15- 26	
- 36		- 36	
- 46		- 46	
- 56		- 56	
- 66		- 66	
- 76		- 76	

FBN



REF. d	B	REF. d	B
FBN 16- 17		FBN 15- 17	
- 22		- 22	
- 26		- 26	
- 36		- 36	
- 46		- 46	
- 56		- 56	
- 66		- 66	
- 76		- 76	

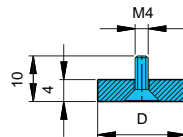
TD



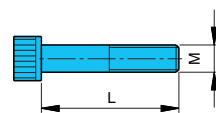
REF. L	REF. L
TD 24- 30	TD 24- 76
- 50	- 86
- 60	- 96

SB

REF. D
SB2 16



M



REF. L	REF. L
M 6 x 16	M 10 x 80
	x100
M 10 x 25	x110
x 70	x120

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 1625

(156 x 246 mm)

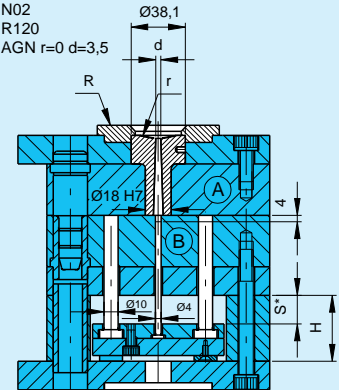
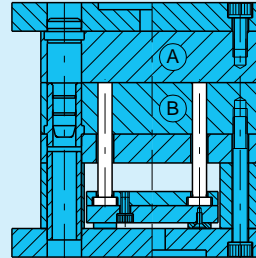
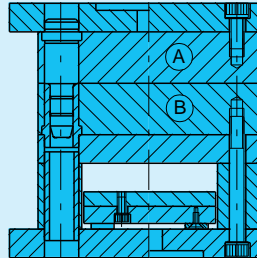
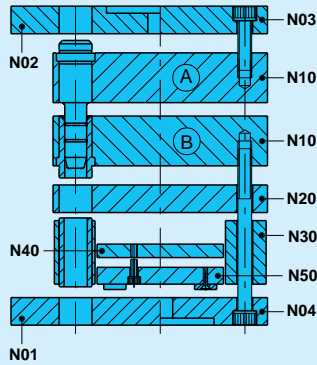
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 1625 N T^A T^B H
N01 N10 - N10 / Mat. 56

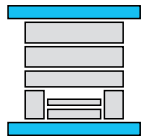
B
N 1625 B T^A T^B H
N01 N10 - N10 / Mat. 56

R
N 1625 R T^A T^B H
N01 N10 - N10 / Mat. 56

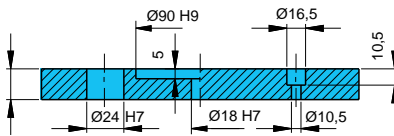
SF
N 1625 SF T^A T^B H
N02 N10 - N10 / Mat. 56
R120
AGN r=0 d=3,5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N02



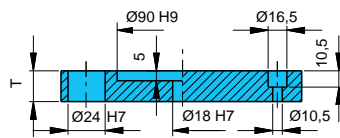
N01

REF.	T	Mat.
N02-1625-20/1		1730

REF.	T	Mat.
N01-1625-20/1		1730



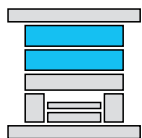
N04



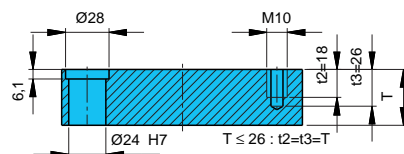
N03

REF.	T	Mat.
N04-1625-20/1		1730

REF.	T	Mat.
N03-1625-20/1		1730



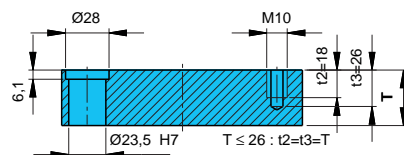
S



N10

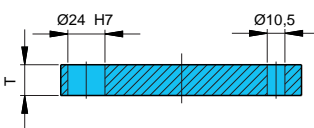
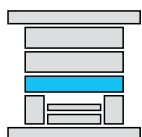
REF.	Mat.	T ^A T ^B
N10-1625-T/1	1730	17 22 26 36 46 56 66 76
N10-1625-T/3	2312	
N10-1625-T/4	2162	
N10-1625-T/5	2344	
N10-1625-T/6	2767	
N10-1625-T/7	2311	
N10-1625-T/9	Impax	
N10-1625-T/10	Ramax	
N10-1625-T/11	Stavax	

SO



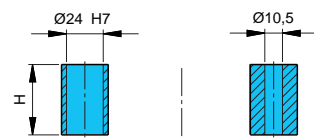
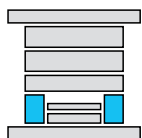
N15

REF.	Mat.	T ^A T ^B
N15-1625-T/5	2344	17 22 26 36 46 56 66 76
N15-1625-T/6	2767	
N15-1625-T/11	Stavax	



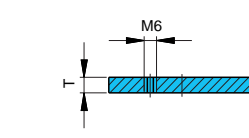
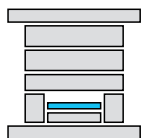
N20

REF.	T	Mat.
N20-1625-26/1		1730



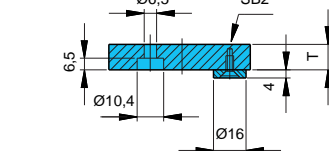
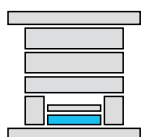
N30

REF.	Mat.	H
N30-H-1625/1	1730	46 56 66



N40

REF.	T	Mat.
N40-10-1625/1		1730

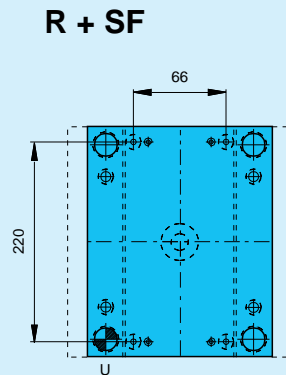
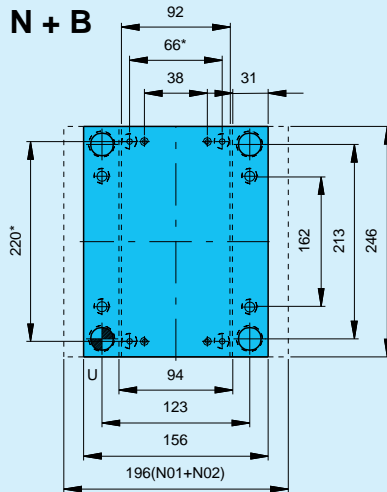


N50

REF.	T	Mat.
N50-12-1625/1		1730

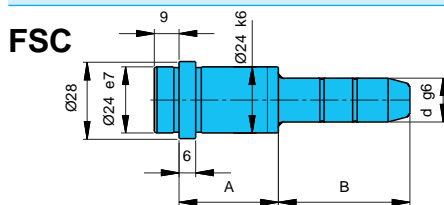
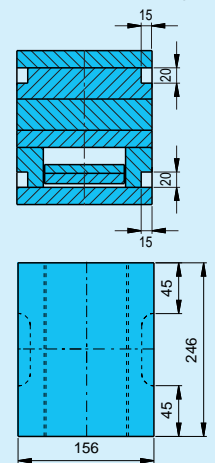
N 1625

(156 x 246 mm)

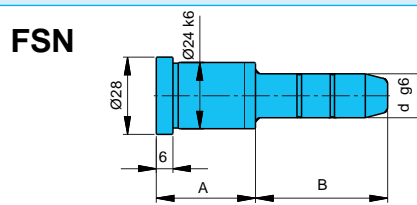


- * ♥ Stop buttons
- ♦ Anschläge
- ♣ Stootnokken
- ♠ Butées d'arrêt

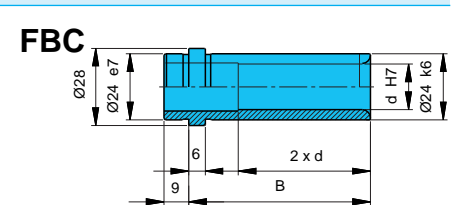
- ♥ Clamp slots
- ♦ Spannuten
- ♣ Spangroeven
- ♠ Rainures de bridage



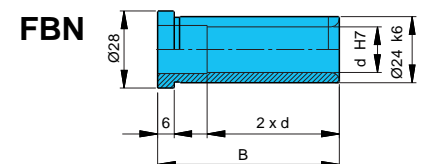
REF. d	A - B	REF. d	A - B
FSC 16- 26- 26		FSC 15- 26- 26	
	- 36		- 36
	- 46		- 46
	- 66		- 66
	- 86		- 86
	-146		-146
FSC 16- 36- 26		FSC 15- 36- 26	
	- 36		- 36
	- 46		- 46
	- 66		- 66
	- 86		- 86
	-126		-126
FSC 16- 46- 36		FSC 15- 46- 36	
	- 46		- 46
	- 56		- 56
	- 76		- 76
FSC 16- 56- 36		FSC 15- 56- 36	
	- 56		- 56
	- 76		- 76
FSC 16- 66- 46		FSC 15- 66- 46	
	- 76		- 76
FSC 16- 76- 56		FSC 15- 76- 56	
	- 86		86



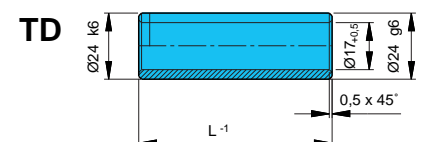
REF. d	A - B	REF. d	A - B
FSN 16- 26- 26		FSN 15- 26- 26	
- 36		- 36	
- 46		- 46	
- 66		- 66	
- 86		- 86	
-106		-106	
FSN 16- 36- 26		FSN 15- 36- 26	
- 36		- 36	
- 46		- 46	
- 66		- 66	
FSN 16- 46- 36		FSN 15- 46- 36	
- 56		- 56	
- 76		- 76	
FSN 16- 56- 36		FSN 15- 56- 36	
- 56		- 56	
- 76		- 76	
FSN 16- 66- 46		FSN 15- 66- 46	
- 76		- 76	
FSN 16- 76- 56		FSN 15- 76- 56	
- 86		- 86	



REF. d B	REF. d B
FBC 16- 26	FBC 15- 26
- 36	- 36
- 46	- 46
- 56	- 56
- 66	- 66
- 76	- 76



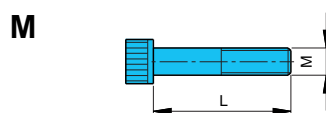
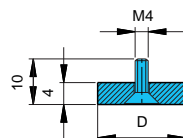
REF. d	B	REF. d	B
FBN 16- 17		FBN 15- 17	
- 22		- 22	
- 26		- 26	
- 36		- 36	
- 46		- 46	
- 56		- 56	
- 66		- 66	
- 76		- 76	



REF. L	REF. L
TD 24- 30	TD 24- 76
- 50	- 86
- 60	- 96

SB

REF.	D
SB2	16



REF. L	REF. L
M 6 x 16	M 10 x 80
	x100
M 10 x 25	x110
x 70	x120

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 2020

(196 x 196 mm)

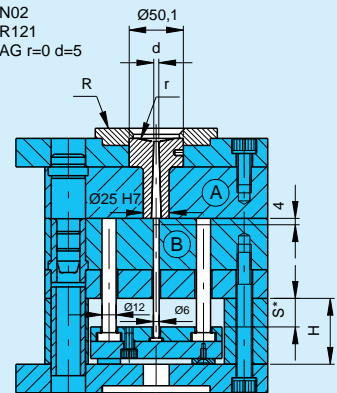
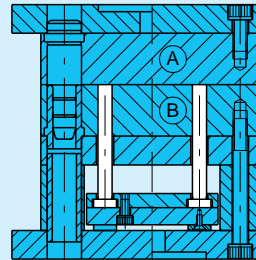
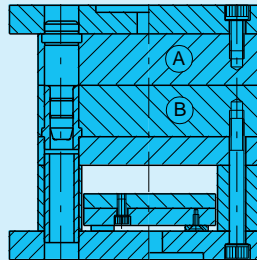
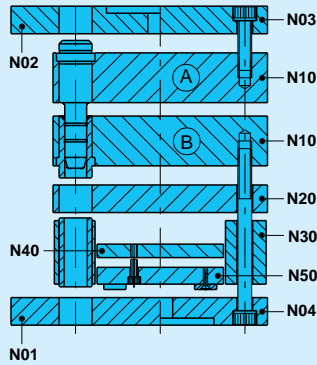
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 2020 N T^A T^B H
N01 N10 - N10 / Mat. 66

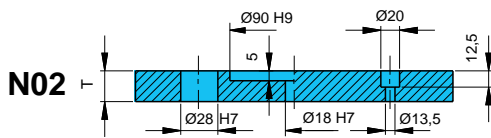
B
N 2020 B T^A T^B H
N01 N10 - N10 / Mat. 66

R
N 2020 R T^A T^B H
N01 N10 - N10 / Mat. 66

SF
N 2020 SF T^A T^B H
N02 N10 - N10 / Mat. 66
R121
AG r=0 d=5



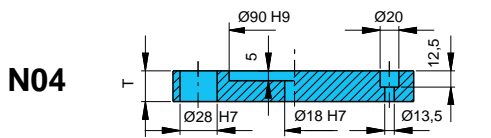
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-2020-26/1	1730	
N02-2020-27/1	1730	

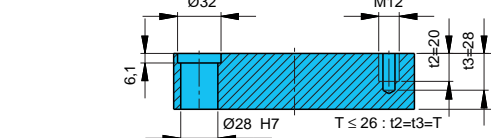
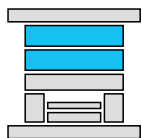
REF.	T	Mat.
N01-2020-26/1	1730	
N01-2020-27/1	1730	



N03

REF.	T	Mat.
N04-2020-26/1	1730	
N04-2020-27/1	1730	

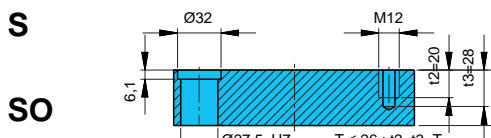
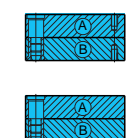
REF.	T	Mat.
N03-2020-26/1	1730	
N03-2020-27/1	1730	



N10

REF.	Mat.	T ^A T ^B
N10-2020-T/1	1730	17 22 26 36 46 56 66 76 86 96
N10-2020-T/3	2312	
N10-2020-T/4	2162	
N10-2020-T/5	2344	
N10-2020-T/6	2767	
N10-2020-T/7	2311	
N10-2020-T/9	Impax	
N10-2020-T/10	Ramax	
N10-2020-T/11	Stavax	

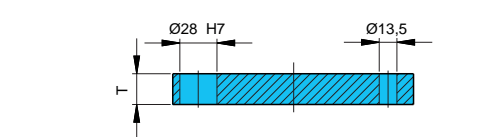
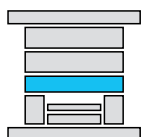
T ^A T ^B	17	22	26	36	46	56	66	76	86	96
N10-2020-T/1										
N10-2020-T/3										
N10-2020-T/4										
N10-2020-T/5										
N10-2020-T/6										
N10-2020-T/7										
N10-2020-T/9										
N10-2020-T/10										
N10-2020-T/11										



N15

REF.	Mat.	T ^A T ^B
N15-2020-T/5	2344	17 22 26 36 46 56 66 76 86 96
N15-2020-T/6	2767	
N15-2020-T/11	Stavax	

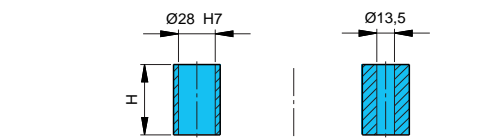
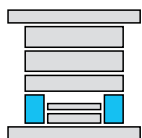
T ^A T ^B	17	22	26	36	46	56	66	76	86	96
N15-2020-T/5										
N15-2020-T/6										
N15-2020-T/11										



N20

REF.	T	Mat.
N20-2020-36/1	1730	

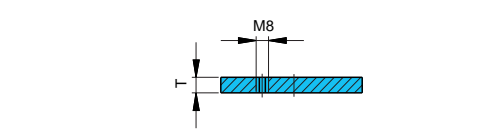
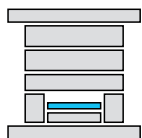
T	17	22	26	36	46	56	66	76	86	96
N20-2020-36/1										



N30

REF.	Mat.	H
N30-H-2020/1	1730	66 86 106

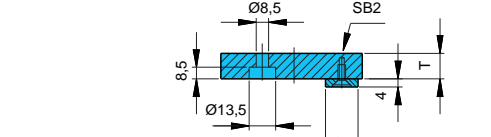
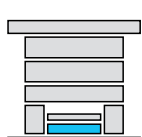
H	66	86	106
N30-H-2020/1			
S*	34	54	74
N30-H-2020/1			



N40

REF.	T	Mat.
N40-12-2020/1	1730	

T	17	22	26	36	46	56	66	76	86	96
N40-12-2020/1										



N50

REF.	T	Mat.
N50-16-2020/1	1730	

T	17	22	26	36	46	56	66	76	86	96
N50-16-2020/1										

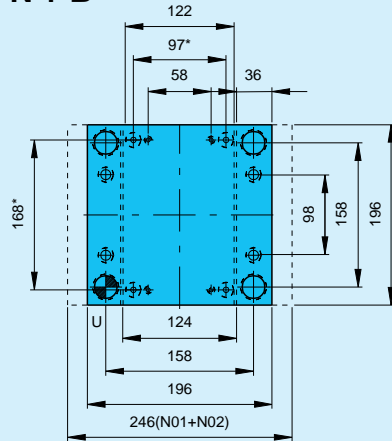
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

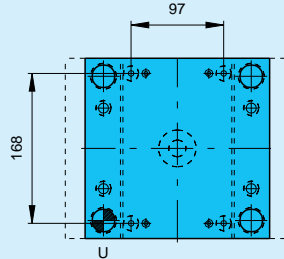
N 2020

(196 x 196 mm)

N + B

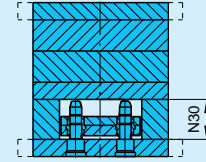


R + SF

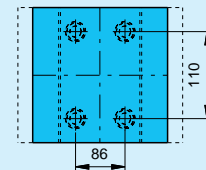


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

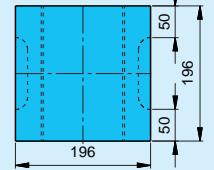
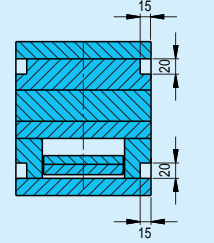
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



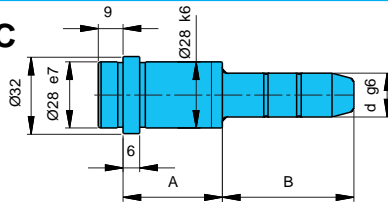
N30	FSN	FBC	GEB
66	16-26- 66	16-16	GEB 16-16
86	16-26- 86		
106	16-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

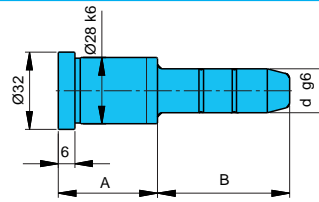


FSC



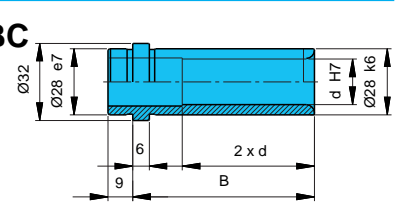
REF. d	A - B	REF. d	A - B
FSC 20- 26- 26	- 36	FSC 19- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-186	-186	-186	-186
FSC 20- 36- 26	- 36	FSC 19- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-186	-186	-186	-186
FSC 20- 46- 36	- 46	FSC 19- 46- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-166	-166	-166	-166
FSC 20- 56- 36	- 56	FSC 19- 56- 36	- 56
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSC 20- 66- 46	- 66	FSC 19- 66- 46	- 66
- 86	- 86	- 86	- 86
FSC 20- 76- 56	- 76	FSC 19- 76- 56	- 76
- 96	- 96	- 96	- 96
FSC 20- 86- 66	- 86	FSC 19- 86- 66	- 86

FSN



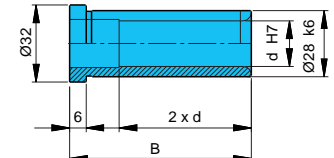
REF. d	A - B	REF. d	A - B
FSN 20- 26- 26	- 36	FSN 19- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 20- 36- 26	- 36	FSN 19- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 20- 46- 36	- 46	FSN 19- 46- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 20- 56- 36	- 56	FSN 19- 56- 36	- 56
- 86	- 86	- 86	- 86
FSN 20- 66- 46	- 66	FSN 19- 66- 46	- 66
- 86	- 86	- 86	- 86
FSN 20- 76- 56	- 76	FSN 19- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 20- 86- 66	- 86	FSN 19- 86- 66	- 86

FBC



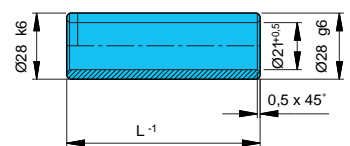
REF. d	B	REF. d	B
FBC 20- 26	- 36	FBC 19- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86

FBN



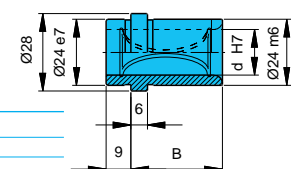
REF. d	B	REF. d	B
FBN 20- 17	- 22	FBN 19- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86

TD



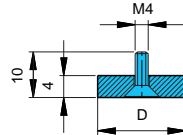
REF. L	REF. L
TD 28- 60	TD 28-120
- 80	-140
-100	

GEB



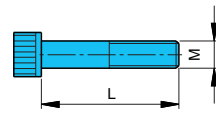
REF. B	REF. B
GEB 16-16	

SB



REF. D	REF. D
SB2 16	

M



REF. L	REF. L
M 8 x 18	M 12 x 120
	x140
M 12 x 30	x160
x100	x180

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 2025

(196 x 246 mm)

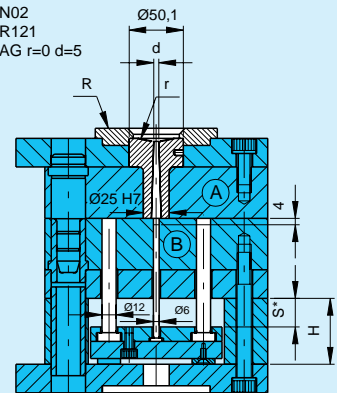
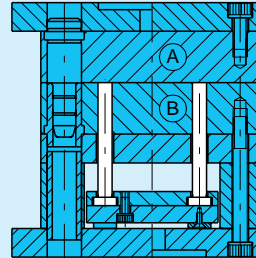
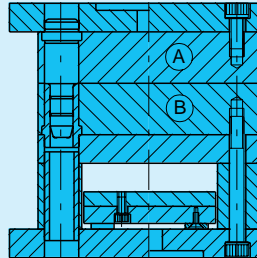
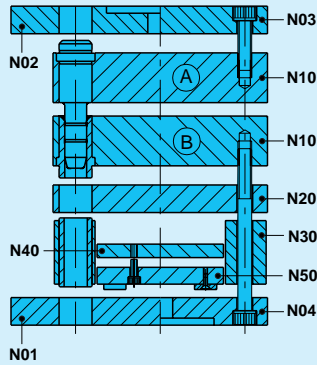
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 2025 N T^A T^B H
N01 N10 - N10 / Mat. 66

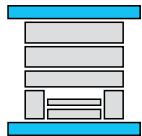
B
N 2025 B T^A T^B H
N01 N10 - N10 / Mat. 66

R
N 2025 R T^A T^B H
N01 N10 - N10 / Mat. 66

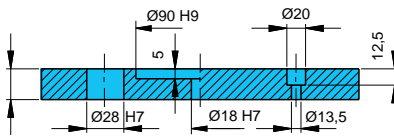
SF
N 2025 SF T^A T^B H
N02 N10 - N10 / Mat. 66
R121
AG r=0 d=5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N02



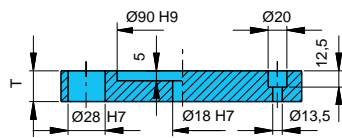
N01

REF.	T	Mat.
N02-2025-26/1		1730
N02-2025-27/1		1730

REF.	T	Mat.
N01-2025-26/1		1730
N01-2025-27/1		1730



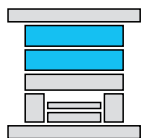
N04



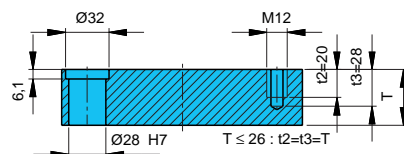
N03

REF.	T	Mat.
N04-2025-26/1		1730
N04-2025-27/1		1730

REF.	T	Mat.
N03-2025-26/1		1730
N03-2025-27/1		1730



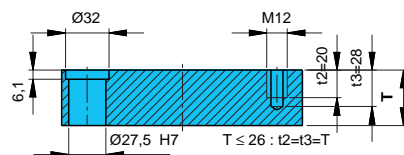
S



N10

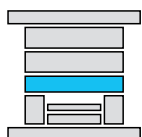
REF.	Mat.	T ^A T ^B
N10-2025-T/1	1730	17 22 26 36 46 56 66 76 86 96
N10-2025-T/3	2312	
N10-2025-T/4	2162	
N10-2025-T/5	2344	
N10-2025-T/6	2767	
N10-2025-T/7	2311	
N10-2025-T/9	Impax	
N10-2025-T/10	Ramax	
N10-2025-T/11	Stavax	

SO

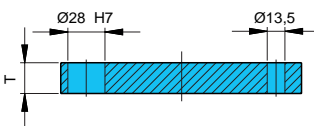


N15

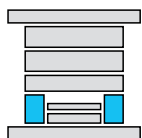
REF.	Mat.	T ^A T ^B
N15-2025-T/5	2344	17 22 26 36 46 56 66 76 86 96
N15-2025-T/6	2767	
N15-2025-T/11	Stavax	



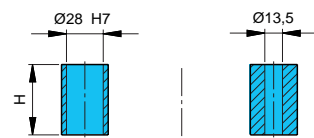
N20



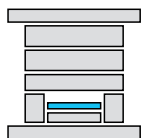
REF.	T	Mat.
N20-2025-36/1		1730



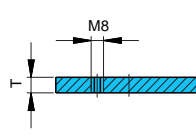
N30



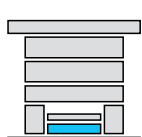
REF.	Mat.	H
N30-H-2025/1	1730	66 86 106



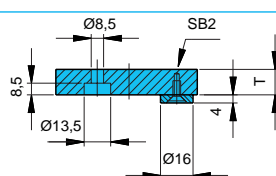
N40



REF.	T	Mat.
N40-12-2025/1		1730



N50



REF.	T	Mat.
N50-16-2025/1		1730

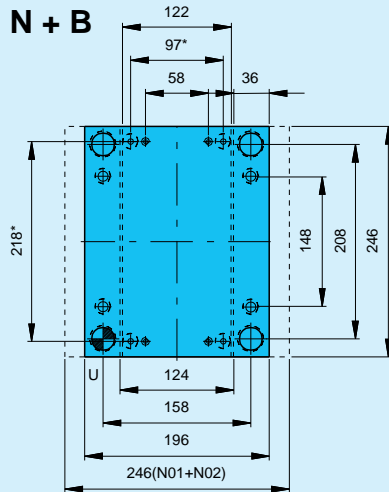
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

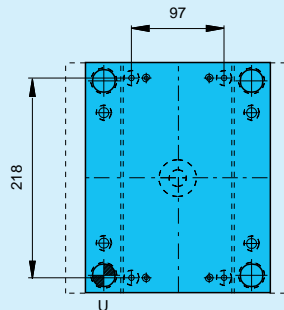
N 2025

(196 x 246 mm)

N + B

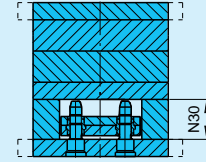


R + SF

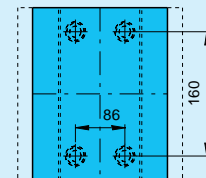


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

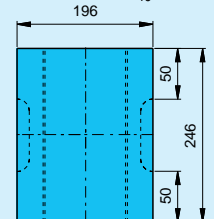
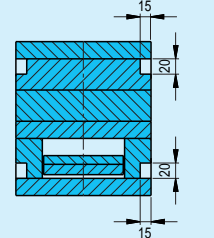
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



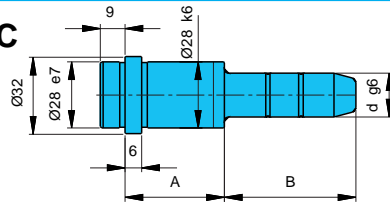
N30	FSN	FBC	GEB
66	16-26- 66	16-16	GEB 16-16
86	16-26- 86		
106	16-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

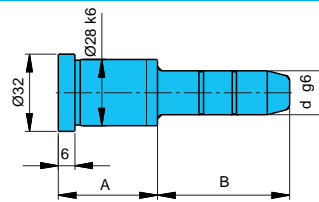


FSC



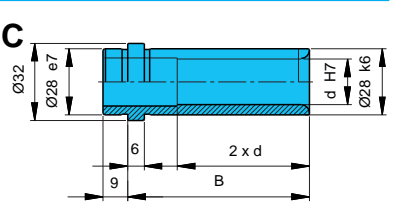
REF. d	A - B	REF. d	A - B
FSC 20- 26- 26		FSC 19- 26- 26	
- 36		- 36	
- 46		- 46	
- 66		- 66	
- 86		- 86	
-106		-106	
-146		-146	
-186		-186	
FSC 20- 36- 26		FSC 19- 36- 26	
- 36		- 36	
- 46		- 46	
- 66		- 66	
- 86		- 86	
-106		-106	
-146		-146	
-186		-186	
FSC 20- 46- 36		FSC 19- 46- 36	
- 46		- 46	
- 66		- 66	
- 86		- 86	
-126		-126	
-166		-166	
FSC 20- 56- 36		FSC 19- 56- 36	
- 56		- 56	
- 86		- 86	
-126		-126	
FSC 20- 66- 46		FSC 19- 66- 46	
- 66		- 66	
- 86		- 86	
FSC 20- 76- 56		FSC 19- 76- 56	
- 76		- 76	
- 96		- 96	
FSC 20- 86- 66		FSC 19- 86- 66	
- 86		- 86	

FSN



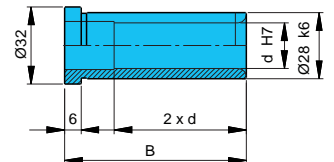
REF. d	A - B	REF. d	A - B
FSN 20- 26- 26		FSN 19- 26- 26	
- 36		- 36	
- 46		- 46	
- 66		- 66	
- 86		- 86	
-106		-106	
FSN 20- 36- 26		FSN 19- 36- 26	
- 36		- 36	
- 46		- 46	
- 66		- 66	
- 86		- 86	
-106		-106	
FSN 20- 46- 36		FSN 19- 46- 36	
- 46		- 46	
- 66		- 66	
- 86		- 86	
-126		-126	
FSN 20- 56- 36		FSN 19- 56- 36	
- 56		- 56	
- 86		- 86	
FSN 20- 66- 46		FSN 19- 66- 46	
- 66		- 66	
- 86		- 86	
FSN 20- 76- 56		FSN 19- 76- 56	
- 76		- 76	
- 96		- 96	
FSN 20- 86- 66		FSN 19- 86- 66	
- 86		- 86	

FBC



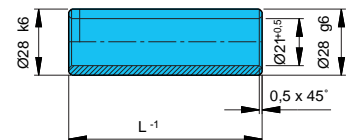
REF. d	B	REF. d	B
FBC 20- 26		FBC 19- 26	
- 36		- 36	
- 46		- 46	
- 56		- 56	
- 66		- 66	
- 76		- 76	
- 86		- 86	

FBN



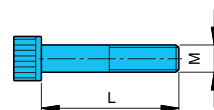
REF. d	B	REF. d	B
FBN 20- 17		FBN 19- 17	
- 22		- 22	
- 26		- 26	
- 36		- 36	
- 46		- 46	
- 56		- 56	
- 66		- 66	
- 76		- 76	
- 86		- 86	

TD



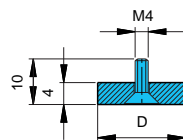
REF. L	REF. L
TD 28- 60	TD 28-120
- 80	-140
-100	

M



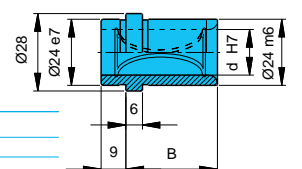
REF. L	REF. L
M 8 x 18	M 12 x 120
	x 140
M 12 x 30	x 160
x 100	x 180

SB



REF. D
SB2 16

GEB



REF. B
GEB 16-16

N 2030

(196 x 296 mm)

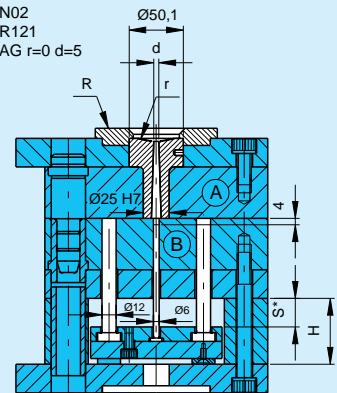
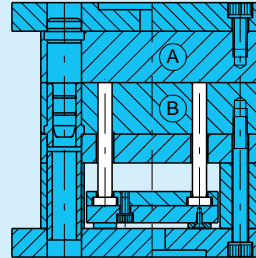
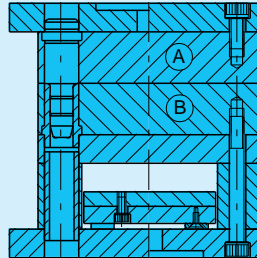
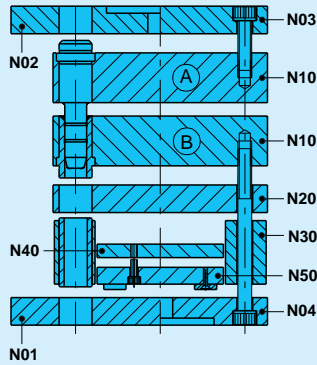
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 2030 N T^A T^B H
N01 N10 - N10 / Mat. 66

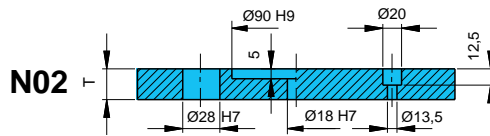
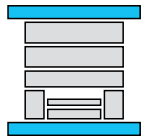
B
N 2030 B T^A T^B H
N01 N10 - N10 / Mat. 66

R
N 2030 R T^A T^B H
N01 N10 - N10 / Mat. 66

SF
N 2030 SF T^A T^B H
N02 N10 - N10 / Mat. 66
R121
AG r=0 d=5



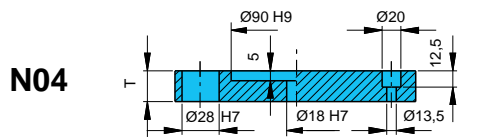
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-2030-26/1	1730	
N02-2030-27/1	1730	

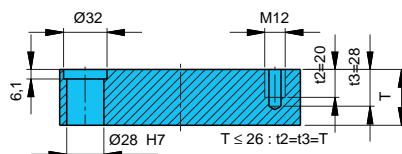
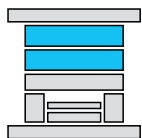
REF.	T	Mat.
N01-2030-26/1	1730	
N01-2030-27/1	1730	



N03

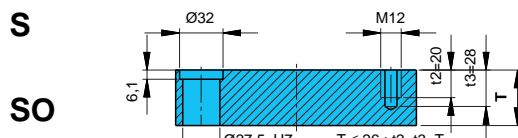
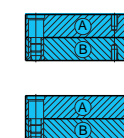
REF.	T	Mat.
N04-2030-26/1	1730	
N04-2030-27/1	1730	

REF.	T	Mat.
N03-2030-26/1	1730	
N03-2030-27/1	1730	



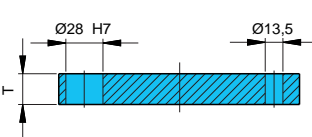
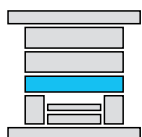
N10

REF.	Mat.	T ^A T ^B
N10-2030-T/1	1730	17 22 26 36 46 56 66 76 86 96
N10-2030-T/3	2312	
N10-2030-T/4	2162	
N10-2030-T/5	2344	
N10-2030-T/6	2767	
N10-2030-T/7	2311	
N10-2030-T/9	Impax	
N10-2030-T/10	Ramax	
N10-2030-T/11	Stavax	



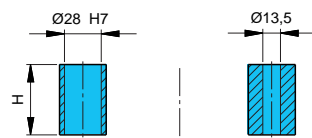
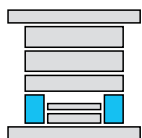
N15

REF.	Mat.	T ^A T ^B
N15-2030-T/5	2344	17 22 26 36 46 56 66 76 86 96
N15-2030-T/6	2767	
N15-2030-T/11	Stavax	



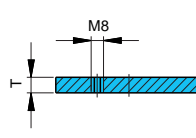
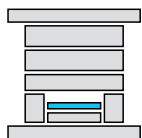
N20

REF.	T	Mat.
N20-2030-36/1	1730	



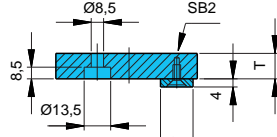
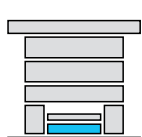
N30

REF.	Mat.	H
N30-H-2030/1	1730	66 86 106
		S*
		34 54 74



N40

REF.	T	Mat.
N40-12-2030/1	1730	



N50

REF.	T	Mat.
N50-16-2030/1	1730	

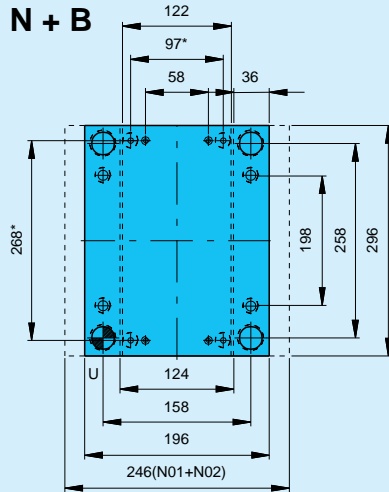
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

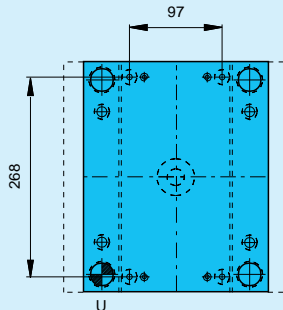
N 2030

(196 x 296 mm)

N + B

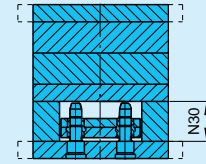


R + SF

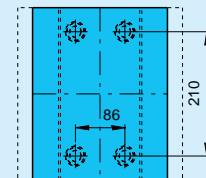


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

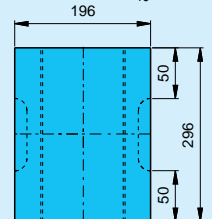
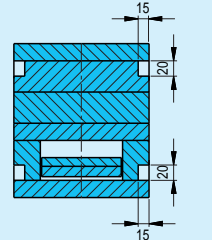
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



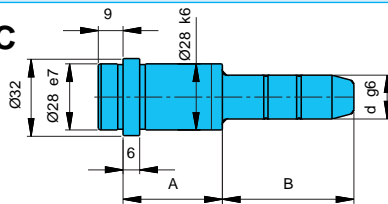
N30	FSN	FBC	GEB
66	16-26- 66	16-16	GEB 16-16
86	16-26- 86		
106	16-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

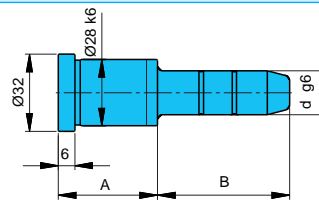


FSC



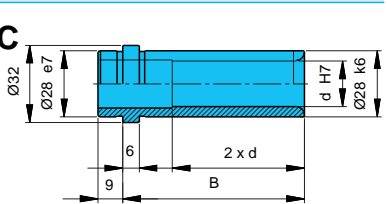
REF. d	A - B	REF. d	A - B
FSC 20- 26- 26	- 36	FSC 19- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-186	-186	-186	-186
FSC 20- 36- 26	- 36	FSC 19- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-186	-186	-186	-186
FSC 20- 46- 36	- 46	FSC 19- 46- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-166	-166	-166	-166
FSC 20- 56- 36	- 56	FSC 19- 56- 36	- 56
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSC 20- 66- 46	- 66	FSC 19- 66- 46	- 66
- 86	- 86	- 86	- 86
FSC 20- 76- 56	- 76	FSC 19- 76- 56	- 76
- 96	- 96	- 96	- 96
FSC 20- 86- 66	- 86	FSC 19- 86- 66	- 86

FSN



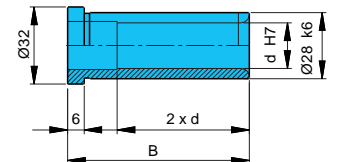
REF. d	A - B	REF. d	A - B
FSN 20- 26- 26	- 36	FSN 19- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 20- 36- 26	- 36	FSN 19- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 20- 46- 36	- 46	FSN 19- 46- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 20- 56- 36	- 56	FSN 19- 56- 36	- 56
- 86	- 86	- 86	- 86
FSN 20- 66- 46	- 66	FSN 19- 66- 46	- 66
- 86	- 86	- 86	- 86
FSN 20- 76- 56	- 76	FSN 19- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 20- 86- 66	- 86	FSN 19- 86- 66	- 86

FBC



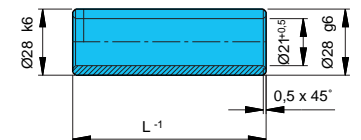
REF. d	B	REF. d	B
FBC 20- 26	- 36	FBC 19- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86

FBN



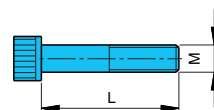
REF. d	B	REF. d	B
FBN 20- 17	- 22	FBN 19- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86

TD



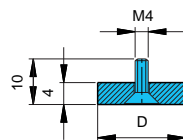
REF. L	REF. L
TD 28- 60	TD 28-120
- 80	-140
-100	

M



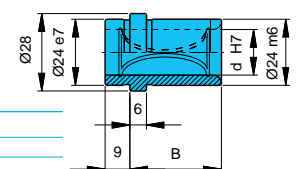
REF. L	REF. L
M 8 x 18	M 12 x 120
	x 140
M 12 x 30	x 160
x 100	x 180

SB



REF. D
SB2 16

GEB



REF. B
GEB 16-16

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 2035

(196 x 346 mm)

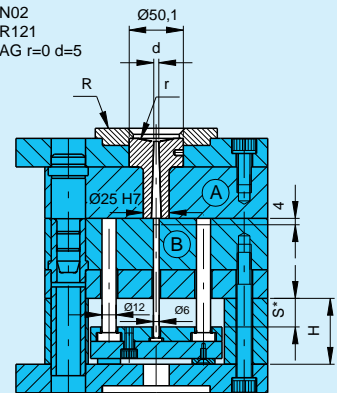
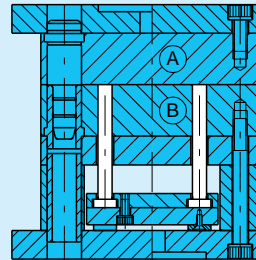
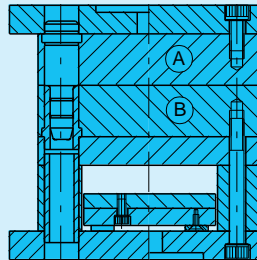
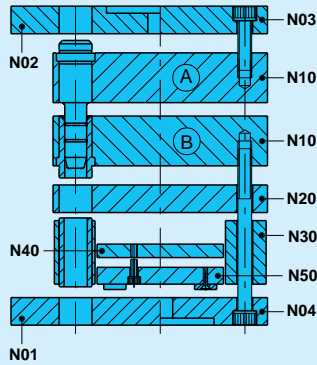
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 2035 N T^A T^B H
N01 N10 - N10 / Mat. 66

B
N 2035 B T^A T^B H
N01 N10 - N10 / Mat. 66

R
N 2035 R T^A T^B H
N01 N10 - N10 / Mat. 66

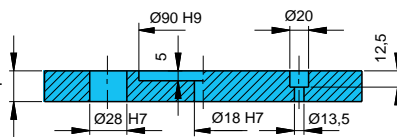
SF
N 2035 SF T^A T^B H
N02 N10 - N10 / Mat. 66
R121
AG r=0 d=5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



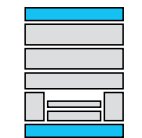
N02



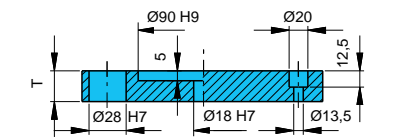
N01

REF.	T	Mat.
N02-2035-26/1		1730
N02-2035-27/1		1730

REF.	T	Mat.
N01-2035-26/1		1730
N01-2035-27/1		1730



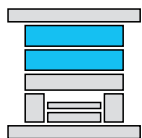
N04



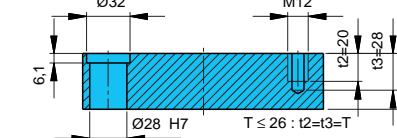
N03

REF.	T	Mat.
N04-2035-26/1		1730
N04-2035-27/1		1730

REF.	T	Mat.
N03-2035-26/1		1730
N03-2035-27/1		1730



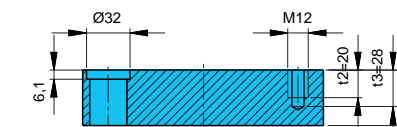
S



N10

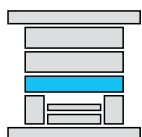
REF.	Mat.	T ^A T ^B
N10-2035-T/1	1730	17 22 26 36 46 56 66 76 86
N10-2035-T/3	2312	
N10-2035-T/4	2162	
N10-2035-T/5	2344	
N10-2035-T/6	2767	
N10-2035-T/7	2311	
N10-2035-T/9	Impax	
N10-2035-T/10	Ramax	
N10-2035-T/11	Stavax	

SO

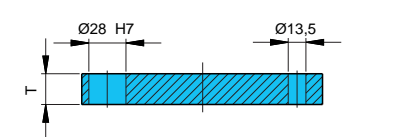


N15

REF.	Mat.	T ^A T ^B
N15-2035-T/5	2344	17 22 26 36 46 56 66 76 86
N15-2035-T/6	2767	
N15-2035-T/11	Stavax	

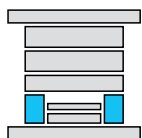


N20

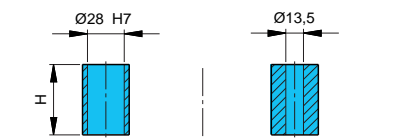


N20

REF.	T	Mat.
N20-2035-36/1		1730

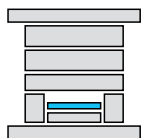


N30

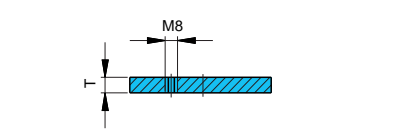


N30

REF.	Mat.	H
N30-H-2035/1	1730	66 86 106
		S*
		34 54 74

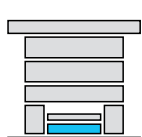


N40

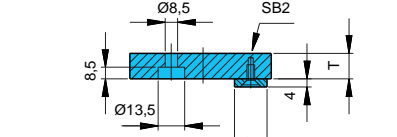


N40

REF.	T	Mat.
N40-12-2035/1		1730



N50



N50

REF.	T	Mat.
N50-16-2035/1		1730

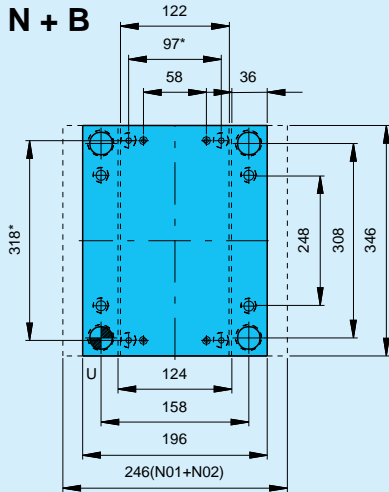
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

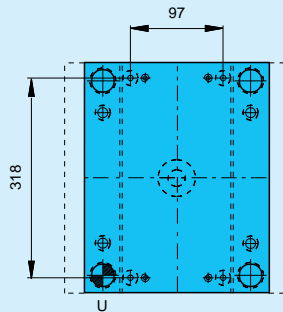
N 2035

(196 x 346 mm)

N + B

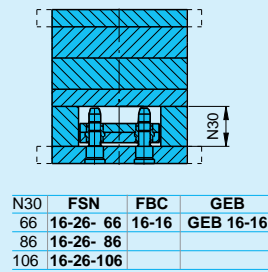


R + SF

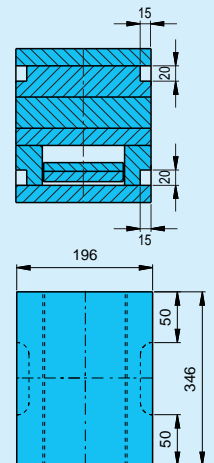


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

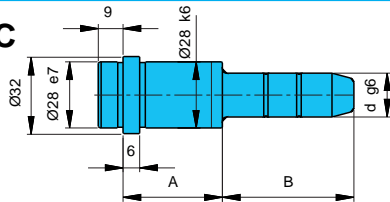
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

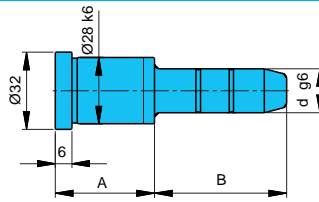


FSC



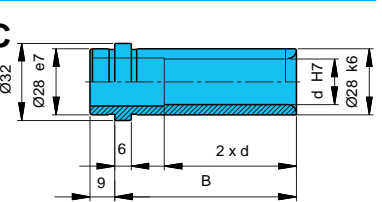
REF. d	A - B	REF. d	A - B
FSC 20- 26- 26	- 36	FSC 19- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-186	-186	-186	-186
FSC 20- 36- 26	- 36	FSC 19- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-186	-186	-186	-186
FSC 20- 46- 36	- 46	FSC 19- 46- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-166	-166	-166	-166
FSC 20- 56- 36	- 56	FSC 19- 56- 36	- 56
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSC 20- 66- 46	- 66	FSC 19- 66- 46	- 66
- 86	- 86	- 86	- 86
FSC 20- 76- 56	- 76	FSC 19- 76- 56	- 76
- 96	- 96	- 96	- 96
FSC 20- 86- 66	- 86	FSC 19- 86- 66	- 86

FSN



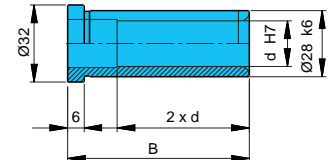
REF. d	A - B	REF. d	A - B
FSN 20- 26- 26	- 36	FSN 19- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 20- 36- 26	- 36	FSN 19- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 20- 46- 36	- 46	FSN 19- 46- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 20- 56- 36	- 56	FSN 19- 56- 36	- 56
- 86	- 86	- 86	- 86
FSN 20- 66- 46	- 66	FSN 19- 66- 46	- 66
- 86	- 86	- 86	- 86
FSN 20- 76- 56	- 76	FSN 19- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 20- 86- 66	- 86	FSN 19- 86- 66	- 86

FBC



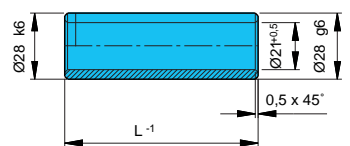
REF. d	B	REF. d	B
FBC 20- 26	- 36	FBC 19- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86

FBN



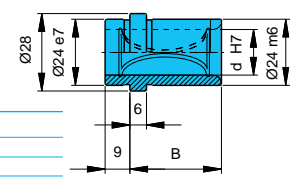
REF. d	B	REF. d	B
FBN 20- 17	- 22	FBN 19- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86

TD



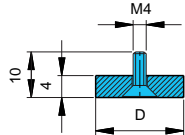
REF. L	REF. L
TD 28- 60	TD 28-120
- 80	-140
-100	

GEB



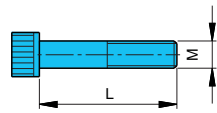
REF. B	REF. B
GEB 16-16	

SB



REF. D	REF. D
SB2 16	

M



REF. L	REF. L
M 8 x 18	M 12 x 120
	x 140
M 12 x 30	x 160
x 100	x 180

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 2040

(196 x 396 mm)

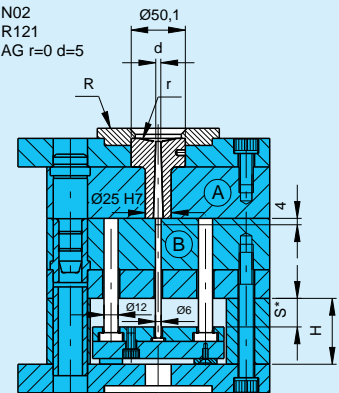
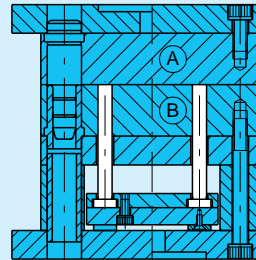
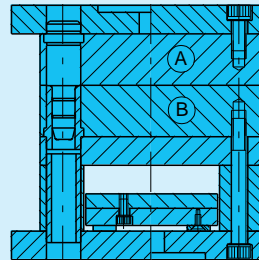
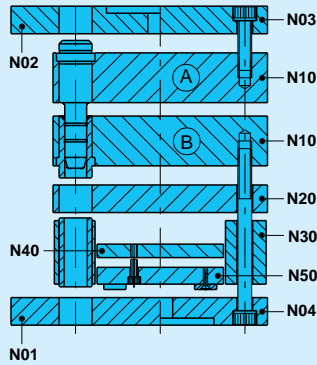
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 2040 N T^A T^B H
N01 N10 - N10 / Mat. 66

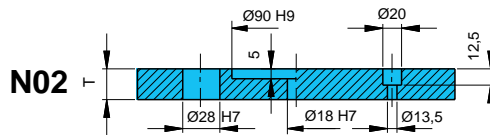
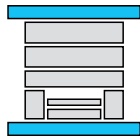
B
N 2040 B T^A T^B H
N01 N10 - N10 / Mat. 66

R
N 2040 R T^A T^B H
N01 N10 - N10 / Mat. 66

SF
N 2040 SF T^A T^B H
N02 N10 - N10 / Mat. 66
R121
AG r=0 d=5



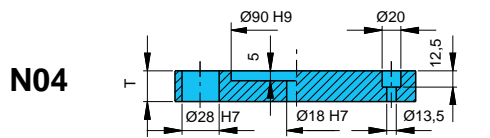
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-2040-26/1		1730
N02-2040-27/1		1730

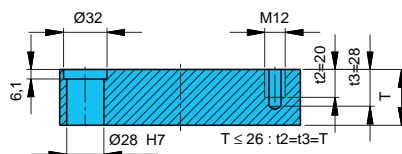
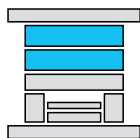
REF.	T	Mat.
N01-2040-26/1		1730
N01-2040-27/1		1730



N03

REF.	T	Mat.
N04-2040-26/1		1730
N04-2040-27/1		1730

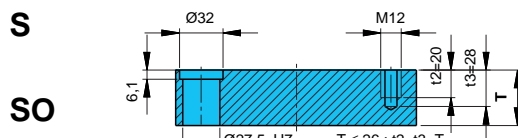
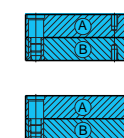
REF.	T	Mat.
N03-2040-26/1		1730
N03-2040-27/1		1730



N10

REF.	Mat.	T ^A T ^B
N10-2040-T/1	1730	
N10-2040-T/3	2312	
N10-2040-T/4	2162	
N10-2040-T/5	2344	
N10-2040-T/6	2767	
N10-2040-T/7	2311	
N10-2040-T/9	Impax	
N10-2040-T/10	Ramax	
N10-2040-T/11	Stavax	

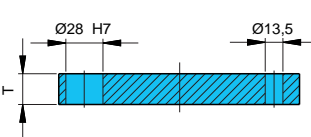
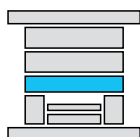
T ^A T ^B	17	22	26	36	46	56	66	76	86
N10-2040-T/1									
N10-2040-T/3									
N10-2040-T/4									
N10-2040-T/5									
N10-2040-T/6									
N10-2040-T/7									
N10-2040-T/9									
N10-2040-T/10									
N10-2040-T/11									



N15

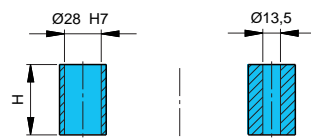
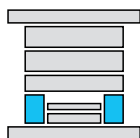
REF.	Mat.	T ^A T ^B
N15-2040-T/5	2344	
N15-2040-T/6	2767	
N15-2040-T/11	Stavax	

T ^A T ^B	17	22	26	36	46	56	66	76	86
N15-2040-T/5									
N15-2040-T/6									
N15-2040-T/11									



N20

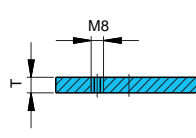
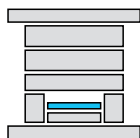
REF.	T	Mat.
N20-2040-36/1		1730



N30

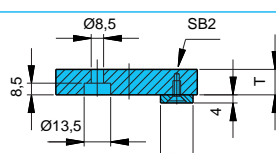
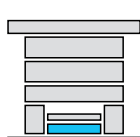
REF.	Mat.	H
N30-H-2040/1	1730	66 86 106

S*	34	54	74
N30-H-2040/1			



N40

REF.	T	Mat.
N40-12-2040/1		1730



N50

REF.	T	Mat.
N50-16-2040/1		1730

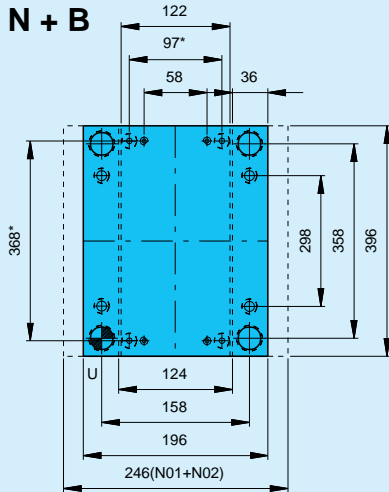
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

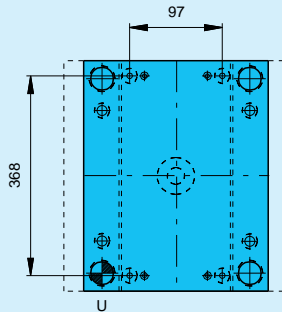
N 2040

(196 x 396 mm)

N + B

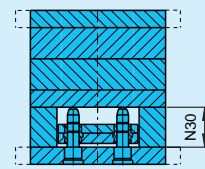


R + SF

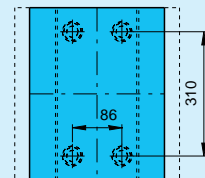


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

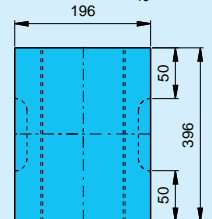
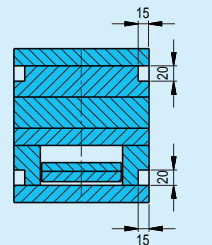
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



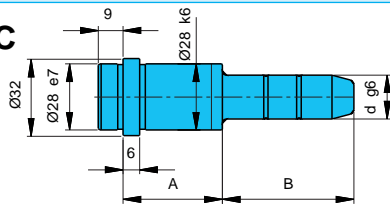
N30	FSN	FBC	GEB
66	16-26- 66	16-16	GEB 16-16
86	16-26- 86		
106	16-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

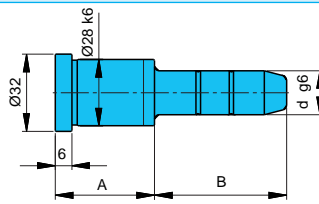


FSC



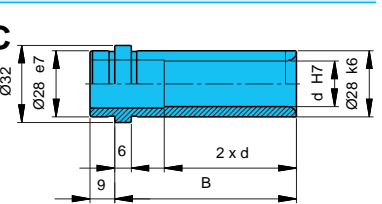
REF. d	A - B	REF. d	A - B
FSC 20- 26- 26	- 36	FSC 19- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-186	-186	-186	-186
FSC 20- 36- 26	- 36	FSC 19- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-186	-186	-186	-186
FSC 20- 46- 36	- 46	FSC 19- 46- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-166	-166	-166	-166
FSC 20- 56- 36	- 56	FSC 19- 56- 36	- 56
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSC 20- 66- 46	- 66	FSC 19- 66- 46	- 66
- 86	- 86	- 86	- 86
FSC 20- 76- 56	- 76	FSC 19- 76- 56	- 76
- 96	- 96	- 96	- 96
FSC 20- 86- 66	- 86	FSC 19- 86- 66	- 86

FSN



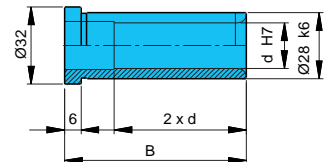
REF. d	A - B	REF. d	A - B
FSN 20- 26- 26	- 36	FSN 19- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 20- 36- 26	- 36	FSN 19- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 20- 46- 36	- 46	FSN 19- 46- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 20- 56- 36	- 56	FSN 19- 56- 36	- 56
- 86	- 86	- 86	- 86
FSN 20- 66- 46	- 66	FSN 19- 66- 46	- 66
- 86	- 86	- 86	- 86
FSN 20- 76- 56	- 76	FSN 19- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 20- 86- 66	- 86	FSN 19- 86- 66	- 86

FBC



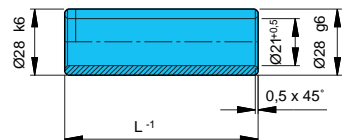
REF. d	B	REF. d	B
FBC 20- 26	- 36	FBC 19- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86

FBN



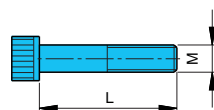
REF. d	B	REF. d	B
FBN 20- 17	- 22	FBN 19- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86

TD



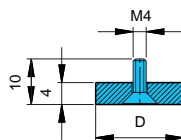
REF. L	REF. L
TD 28- 60	TD 28-120
- 80	-140
-100	

M



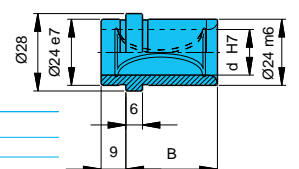
REF. L	REF. L
M 8 x 18	M 12 x 120
	x140
M 12 x 30	x160
x100	x180

SB



REF. D
SB2 16

GEB



REF. B
GEB 16-16

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

♣ S spuitgietmatrijzen - N-platen
♠ Porte-moules pour matières plastiques - plaques N

N 2225

(214 x 246 mm)

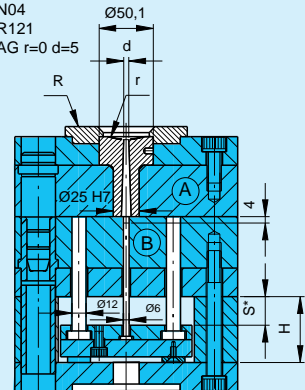
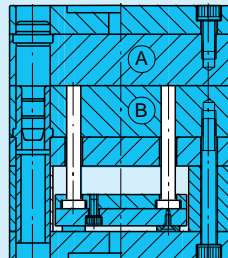
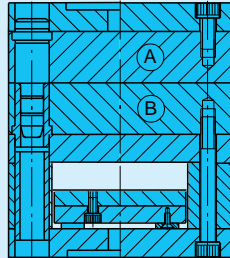
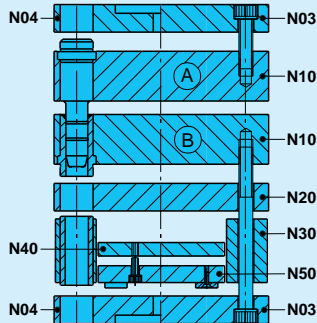
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 2225 N T(A) T(B) H
N03 N10 - N10 / Mat. 66

B
N 2225 B T(A) T(B) H
N03 N10 - N10 / Mat. 66

R
N 2225 R T(A) T(B) H
N03 N10 - N10 / Mat. 66

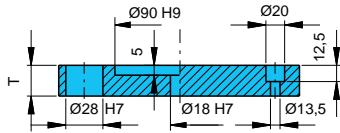
SF
N 2225 SF T(A) T(B) H
N04 N10 - N10 / Mat. 66
R121
AG r=0 d=5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N

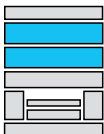


N04

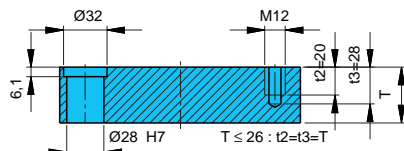


N03

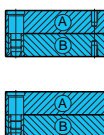
REF.	T	Mat.	REF.	T	Mat.
N04-2225-26/1		1730	N03-2225-26/1		1730
N04-2225-27/1		1730	N03-2225-27/1		1730



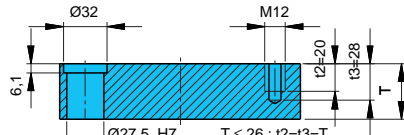
S



N10



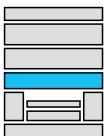
SO



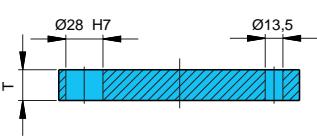
N15

REF.	Mat.	T(A) (B)							
N10-2225-T/1	1730	17	22	26	36	46	56	66	76
N10-2225-T/3	2312								
N10-2225-T/4	2162								
N10-2225-T/5	2344								
N10-2225-T/6	2767								
N10-2225-T/7	2311								
N10-2225-T/9	Impax								
N10-2225-T/10	Ramax								
N10-2225-T/11	Stavax								

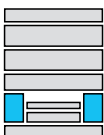
REF.	Mat.	T(A) (B)							
N15-2225-T/5	2344	17	22	26	36	46	56	66	76
N15-2225-T/6	2767								
N15-2225-T/11	Stavax								



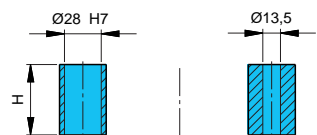
N20



REF.	T	Mat.
N20-2225-36/1		1730



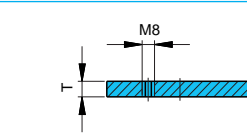
N30



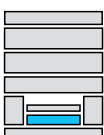
REF.	Mat.	H
N30-H-2225/1	1730	66 86 106
		S*
		34 54 74



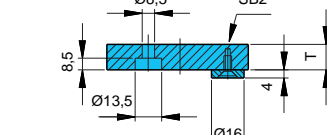
N40



REF.	T	Mat.
N40-12-2225/1		1730



N50



REF.	T	Mat.
N50-16-2225/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

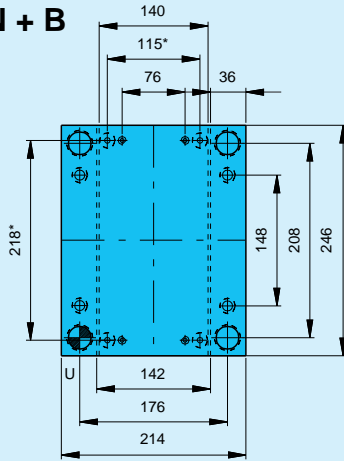
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

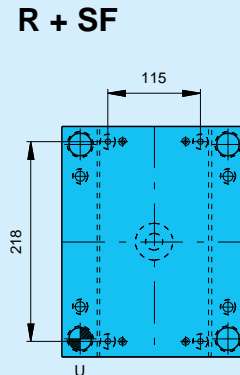
N 2225

(214 x 246 mm)

N + B



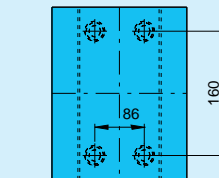
R + SF



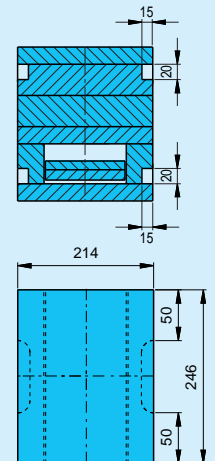
*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection

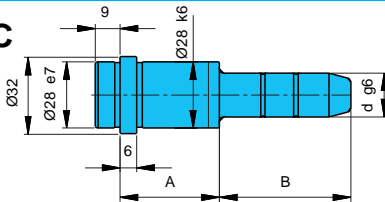
N30	FSN	FBC	GEB
66	16-26- 66	16-16	GEB 16-16
86	16-26- 86		
106	16-26-106		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

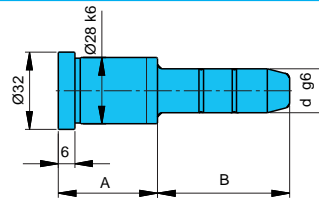


FSC



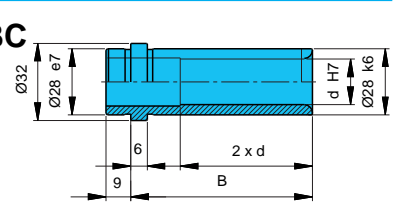
REF. d	A - B	REF. d	A - B
FSC 20- 26- 26	- 36	FSC 19- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-186	-186	-186	-186
FSC 20- 36- 26	- 36	FSC 19- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-186	-186	-186	-186
FSC 20- 46- 36	- 46	FSC 19- 46- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-166	-166	-166	-166
FSC 20- 56- 36	- 56	FSC 19- 56- 36	- 56
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSC 20- 66- 46	- 66	FSC 19- 66- 46	- 66
- 86	- 86	- 86	- 86
FSC 20- 76- 56	- 76	FSC 19- 76- 56	- 76
- 96	- 96	- 96	- 96
FSC 20- 86- 66	- 86	FSC 19- 86- 66	- 86

FSN



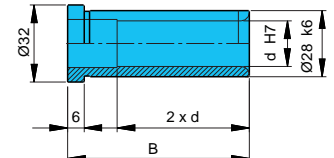
REF. d	A - B	REF. d	A - B
FSN 20- 26- 26	- 36	FSN 19- 26- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 20- 36- 26	- 36	FSN 19- 36- 26	- 36
- 46	- 46	- 46	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 20- 46- 36	- 46	FSN 19- 46- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 20- 56- 36	- 56	FSN 19- 56- 36	- 56
- 86	- 86	- 86	- 86
FSN 20- 66- 46	- 66	FSN 19- 66- 46	- 66
- 86	- 86	- 86	- 86
FSN 20- 76- 56	- 76	FSN 19- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 20- 86- 66	- 86	FSN 19- 86- 66	- 86

FBC



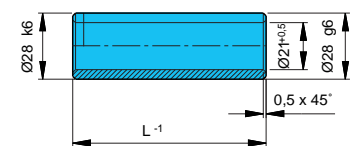
REF. d	B	REF. d	B
FBC 20- 26	- 36	FBC 19- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86

FBN



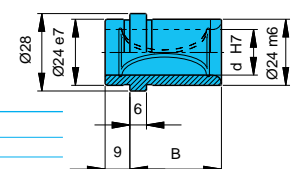
REF. d	B	REF. d	B
FBN 20- 17	- 22	FBN 19- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86

TD



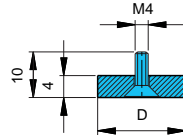
REF. L	REF. L
TD 28- 60	TD 28-120
- 80	-140
-100	

GEB



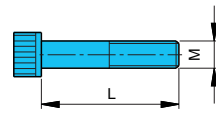
REF. B	REF. B
GEB 16-16	

SB



REF. D	REF. D
SB2 16	

M



REF. L	REF. L
M 8 x 18	M 12 x 120
	x 140
M 12 x 30	x 160
x 100	x 180

N 2525

(246 x 246 mm)

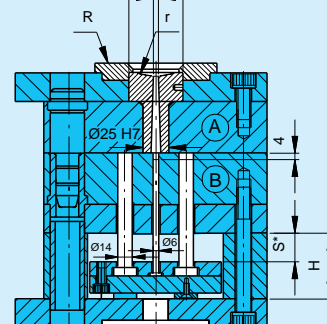
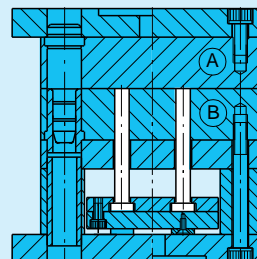
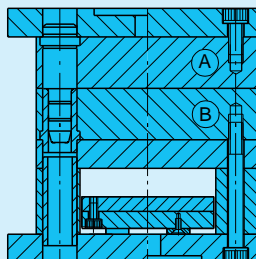
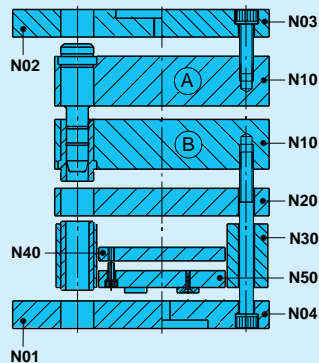
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 2525 N T^A T^B H
N01 N10 - N10 / Mat. 86

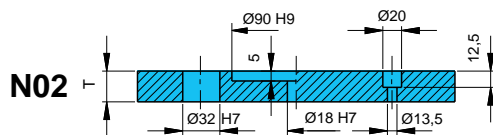
B
N 2525 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 2525 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 2525 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



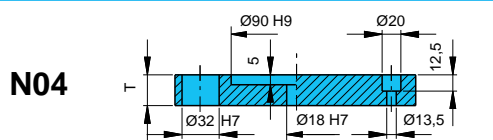
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-2525-26/1		1730
N02-2525-27/1		1730

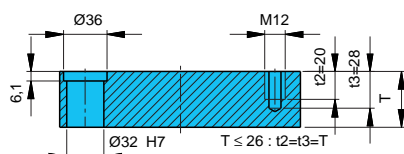
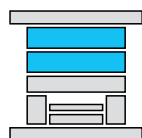
REF.	T	Mat.
N01-2525-26/1		1730
N01-2525-27/1		1730



N03

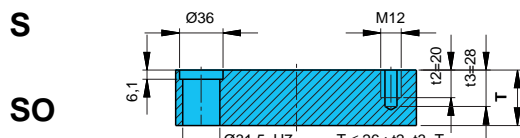
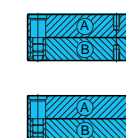
REF.	T	Mat.
N04-2525-26/1		1730
N04-2525-27/1		1730

REF.	T	Mat.
N03-2525-26/1		1730
N03-2525-27/1		1730



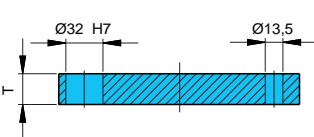
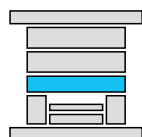
N10

REF.	Mat.	T ^A T ^B									
N10-2525-T/1	1730	17	22	26	36	46	56	66	76	86	96
N10-2525-T/3	2312										
N10-2525-T/4	2162										
N10-2525-T/5	2344										
N10-2525-T/6	2767										
N10-2525-T/7	2311										
N10-2525-T/9	Impax										
N10-2525-T/10	Ramax										
N10-2525-T/11	Stavax										



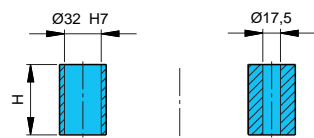
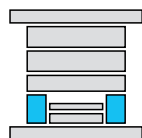
N15

REF.	Mat.	T ^A T ^B									
N15-2525-T/5	2344	17	22	26	36	46	56	66	76	86	96
N15-2525-T/6	2767										
N15-2525-T/11	Stavax										



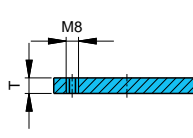
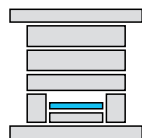
N20

REF.	T	Mat.
N20-2525-36/1		1730



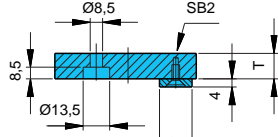
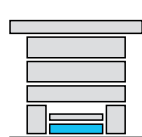
N30

REF.	Mat.	H		
N30-H-2525/1	1730	66	86	106
		S*		
		20	40	60



N40

REF.	T	Mat.
N40-16-2525/1		1730



N50

REF.	T	Mat.
N50-26-2525/1		1730

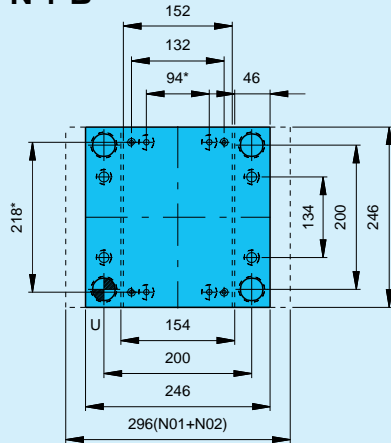
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

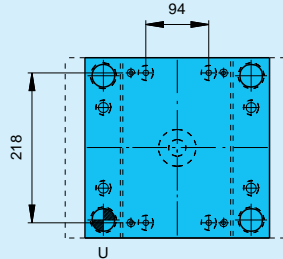
N 2525

(246 x 246 mm)

N + B

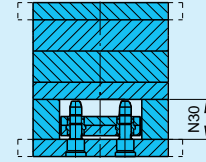


R + SF

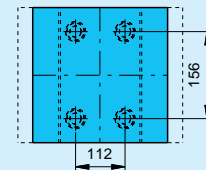


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

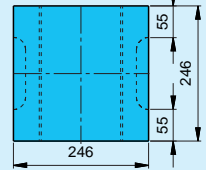
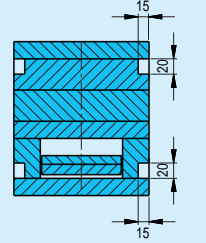
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerperplaten
♠ Guidage de la batterie d'éjection



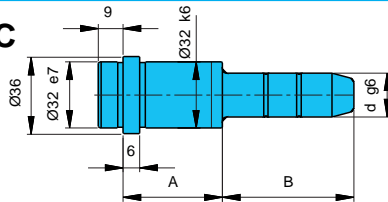
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

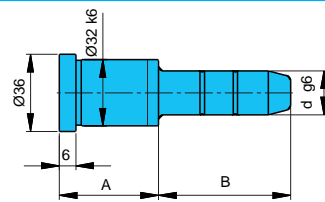


FSC



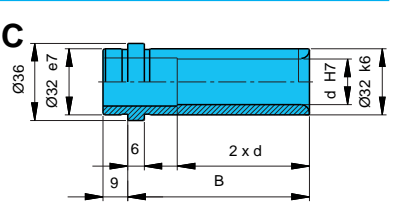
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

FSN



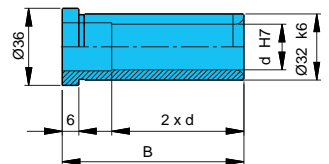
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 106	-106	- 106	-106
FSN 24- 96- 56	- 96	FSN 23- 96- 56	- 96
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 86	FSN 23-106- 56	- 86

FBC



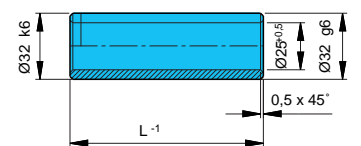
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



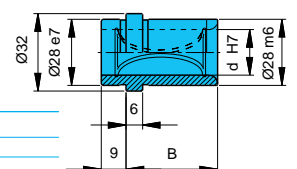
REF. d	B	REF. d	B
FBN 24- 17	- 22	FBN 23- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



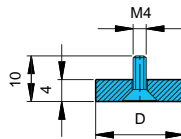
REF. L	REF. L
TD 32- 60	TD 32-120
-100	-140
	-160

GEB



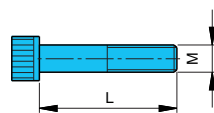
REF. B
GEB 20-26

SB



REF. D
SB2 16

M



REF. L	REF. L
M 8 x 25	M 12 x 120
	x 140
M 12 x 30	x 160
x 100	x 180

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

Porte-moules pour matières plastiques - plaques N ♠

N 2530

(246 x 296 mm)

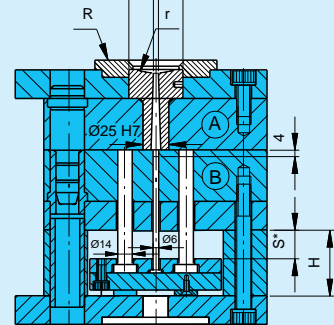
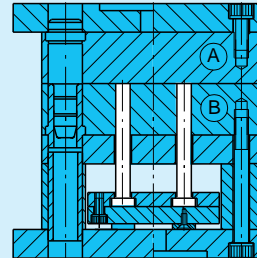
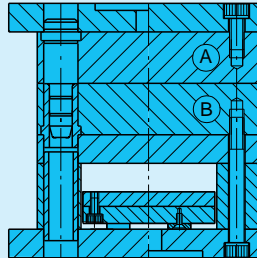
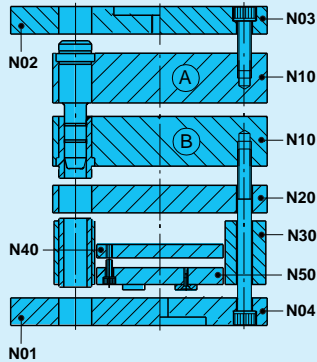
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 2530 N T^A T^B H
N01 N10 - N10 / Mat. 86

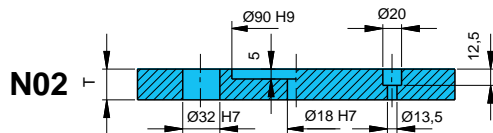
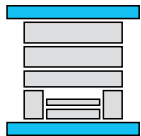
B
N 2530 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 2530 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 2530 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



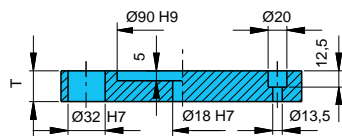
N01

REF.	T	Mat.
N02-2530-26/1		1730
N02-2530-27/1		1730

REF.	T	Mat.
N01-2530-26/1		1730
N01-2530-27/1		1730



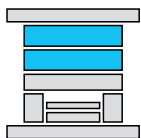
N04



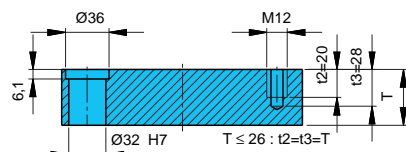
N03

REF.	T	Mat.
N04-2530-26/1		1730
N04-2530-27/1		1730

REF.	T	Mat.
N03-2530-26/1		1730
N03-2530-27/1		1730



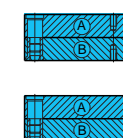
S



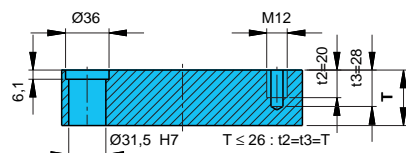
N10

REF.	Mat.	T ^A T ^B
N10-2530-T/1	1730	
N10-2530-T/3	2312	
N10-2530-T/4	2162	
N10-2530-T/5	2344	
N10-2530-T/6	2767	
N10-2530-T/7	2311	
N10-2530-T/9	Impax	
N10-2530-T/10	Ramax	
N10-2530-T/11	Stavax	

T ^A T ^B	17	22	26	36	46	56	66	76	86	96	106
N10-2530-T/1											
N10-2530-T/3											
N10-2530-T/4											
N10-2530-T/5											
N10-2530-T/6											
N10-2530-T/7											
N10-2530-T/9											
N10-2530-T/10											
N10-2530-T/11											



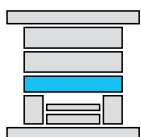
SO



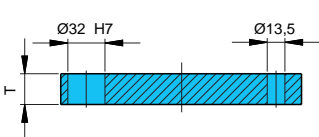
N15

REF.	Mat.	T ^A T ^B
N15-2530-T/5	2344	
N15-2530-T/6	2767	
N15-2530-T/11	Stavax	

T ^A T ^B	17	22	26	36	46	56	66	76	86	96	106
N15-2530-T/5											
N15-2530-T/6											
N15-2530-T/11											

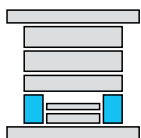


N20

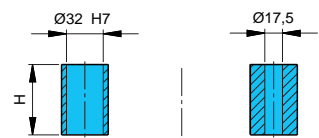


N20

REF.	T	Mat.
N20-2530-36/1		1730



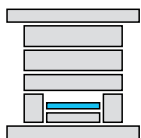
N30



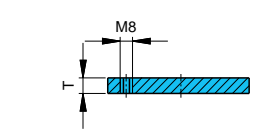
N30

REF.	Mat.	H
N30-H-2530/1	1730	66 86 106

S*	20	40	60
N30-H-2530/1			

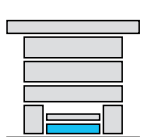


N40

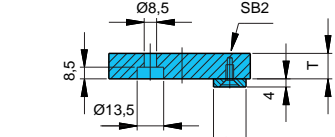


N40

REF.	T	Mat.
N40-16-2530/1		1730



N50



N50

REF.	T	Mat.
N50-26-2530/1		1730

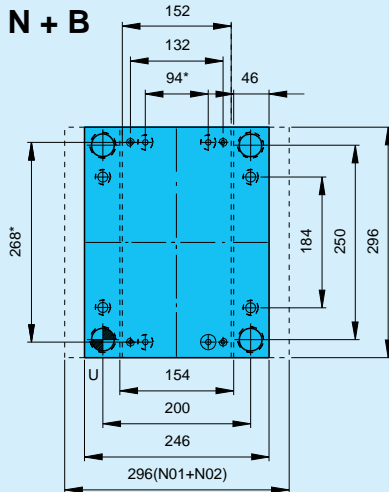
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

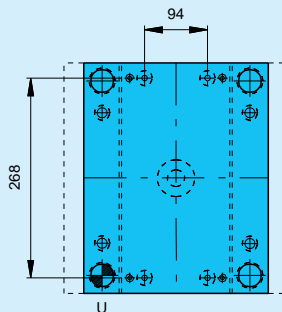
N 2530

(246 x 296 mm)

N + B

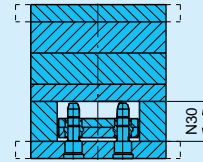


R + SF

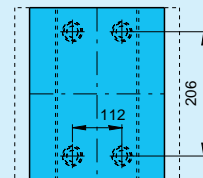


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

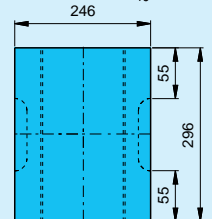
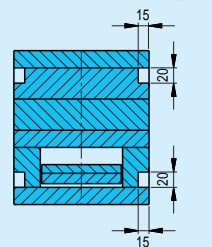
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



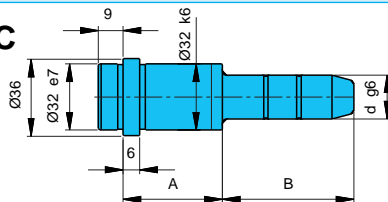
N30	F5N	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage



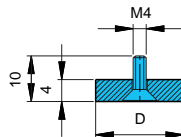
FSC



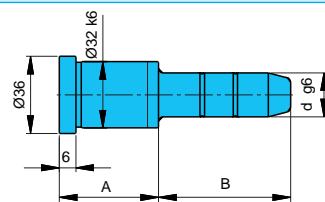
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

SB

REF.	D
SB2	16

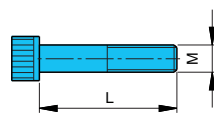


FSN



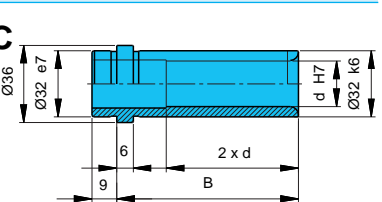
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

M



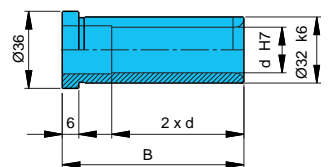
REF.	L	REF.	L
M 8 x 25		M 12 x 120	
		x 140	
M 12 x 30		x 160	
x 100		x 180	

FBC



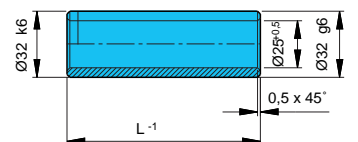
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



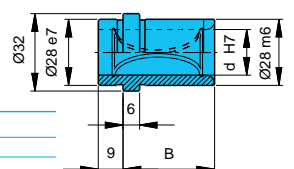
REF. d	B	REF. d	B
FBN 24- 17	- 22	FBN 23- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



REF.	L	REF.	L
TD 32- 60		TD 32-120	
-100		-140	
		-160	

GEB



REF.	B
GEB 20-26	

N 2535

(246 x 346 mm)

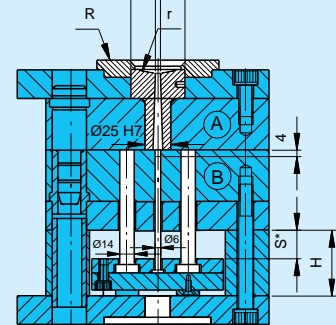
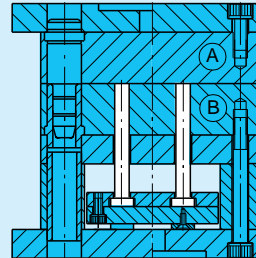
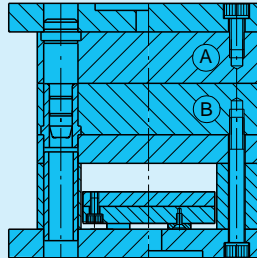
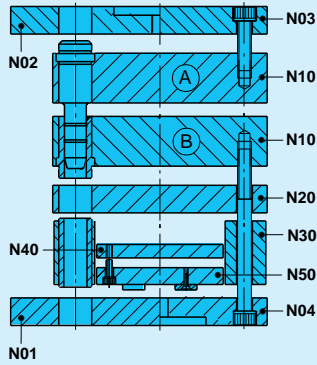
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 2535 N T^A T^B H
N01 N10 - N10 / Mat. 86

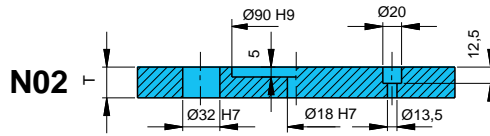
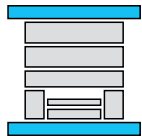
B
N 2535 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 2535 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 2535 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



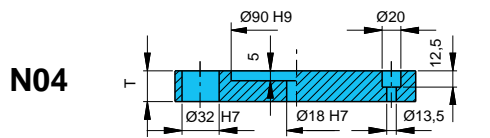
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-2535-26/1		1730
N02-2535-27/1		1730

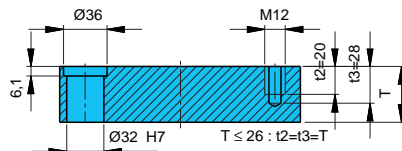
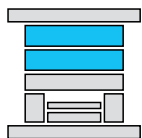
REF.	T	Mat.
N01-2535-26/1		1730
N01-2535-27/1		1730



N03

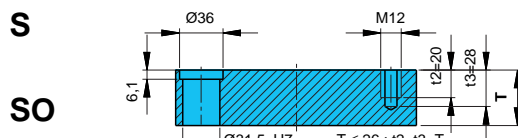
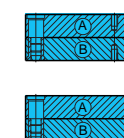
REF.	T	Mat.
N04-2535-26/1		1730
N04-2535-27/1		1730

REF.	T	Mat.
N03-2535-26/1		1730
N03-2535-27/1		1730



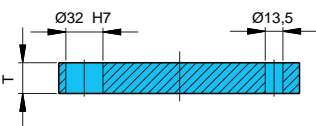
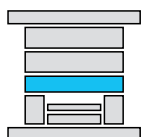
N10

REF.	Mat.	T ^A T ^B									
N10-2535-T/1	1730	17	22	26	36	46	56	66	76	86	96
N10-2535-T/3	2312										
N10-2535-T/4	2162										
N10-2535-T/5	2344										
N10-2535-T/6	2767										
N10-2535-T/7	2311										
N10-2535-T/9	Impax										
N10-2535-T/10	Ramax										
N10-2535-T/11	Stavax										



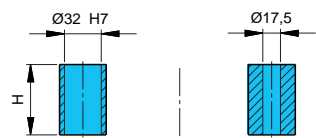
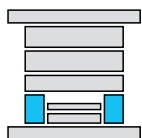
N15

REF.	Mat.	T ^A T ^B									
N15-2535-T/5	2344	17	22	26	36	46	56	66	76	86	96
N15-2535-T/6	2767										
N15-2535-T/11	Stavax										



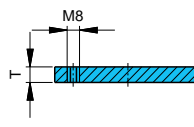
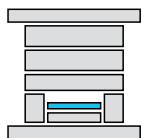
N20

REF.	T	Mat.
N20-2535-36/1		1730



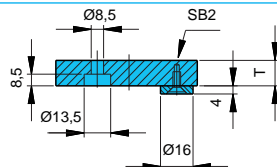
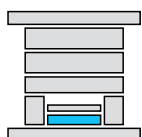
N30

REF.	Mat.	H		
N30-H-2535/1	1730	66	86	106
		S*		
		20	40	60



N40

REF.	T	Mat.
N40-16-2535/1		1730



N50

REF.	T	Mat.
N50-26-2535/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

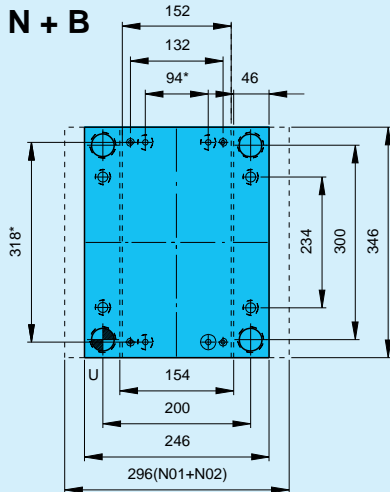
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

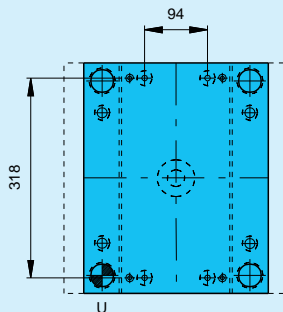
N 2535

(246 x 346 mm)

N + B

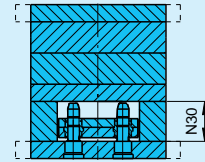


R + SF

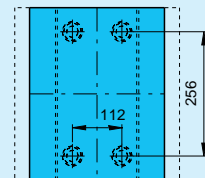


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

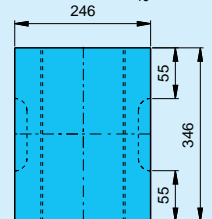
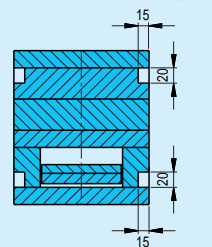
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



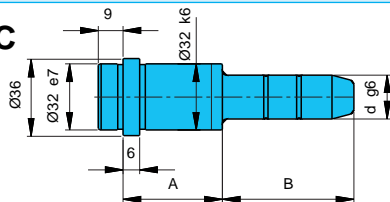
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage



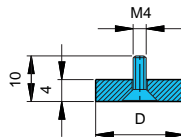
FSC



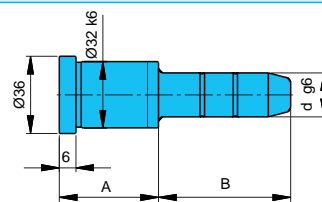
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

SB

REF.	D
SB2	16

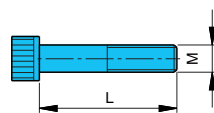


FSN



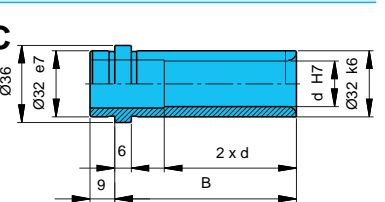
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 106	-106	- 106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

M



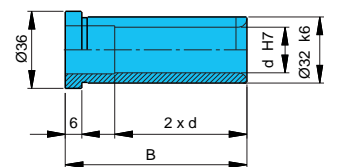
REF.	L	REF.	L
M 8 x 25		M 12 x 120	
M 12 x 30		x 140	
x 100		x 160	
		x 180	

FBC



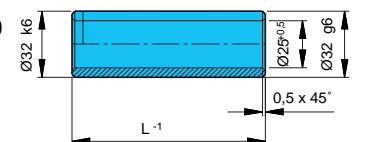
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



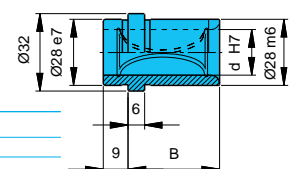
REF. d	B	REF. d	B
FBN 24- 17	- 22	FBN 23- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



REF.	L	REF.	L
TD 32- 60		TD 32-120	
-100		-140	
		-160	

GEB



REF.	B
GEB 20-26	

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 2540

(246 x 396 mm)

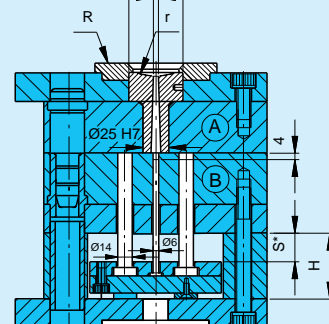
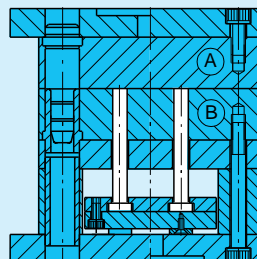
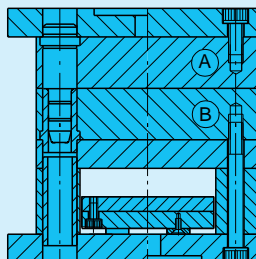
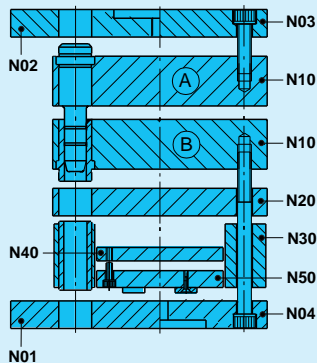
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 2540 N T^A T^B H
N01 N10 - N10 / Mat. 86

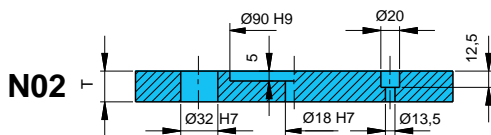
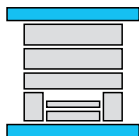
B
N 2540 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 2540 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 2540 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



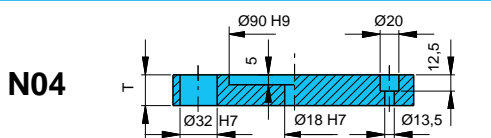
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-2540-26/1		1730
N02-2540-27/1		1730

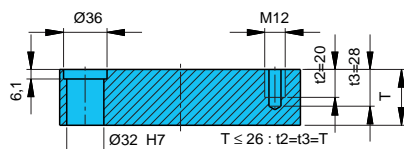
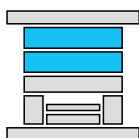
REF.	T	Mat.
N01-2540-26/1		1730
N01-2540-27/1		1730



N03

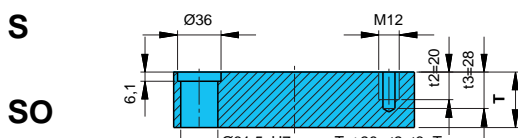
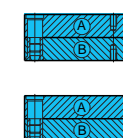
REF.	T	Mat.
N04-2540-26/1		1730
N04-2540-27/1		1730

REF.	T	Mat.
N03-2540-26/1		1730
N03-2540-27/1		1730



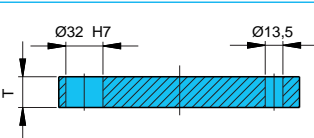
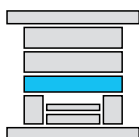
N10

REF.	Mat.	T ^A T ^B									
N10-2540-T/1	1730	17	22	26	36	46	56	66	76	86	96
N10-2540-T/3	2312										
N10-2540-T/4	2162										
N10-2540-T/5	2344										
N10-2540-T/6	2767										
N10-2540-T/7	2311										
N10-2540-T/9	Impax										
N10-2540-T/10	Ramax										
N10-2540-T/11	Stavax										



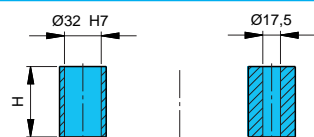
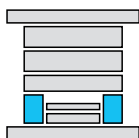
N15

REF.	Mat.	T ^A T ^B									
N15-2540-T/5	2344	17	22	26	36	46	56	66	76	86	96
N15-2540-T/6	2767										
N15-2540-T/11	Stavax										



N20

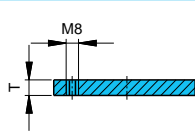
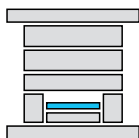
REF.	T	Mat.
N20-2540-36/1		1730



N30

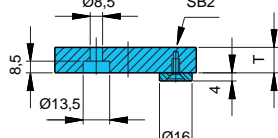
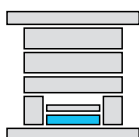
REF.	Mat.	H
N30-H-2540/1	1730	66 86 106

	S*
20	40 60



N40

REF.	T	Mat.
N40-16-2540/1		1730



N50

REF.	T	Mat.
N50-26-2540/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

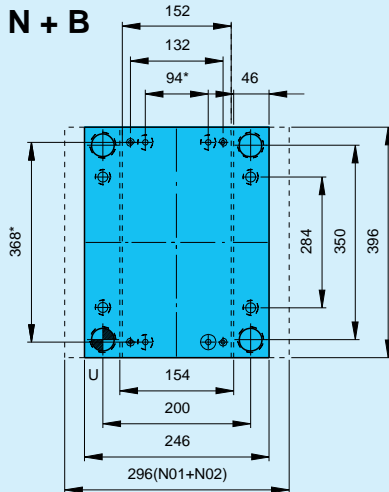
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

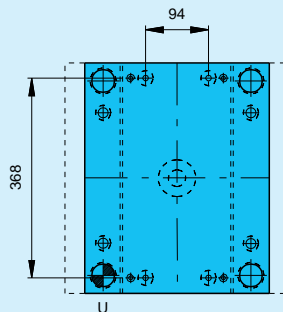
N 2540

(246 x 396 mm)

N + B



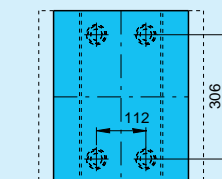
R + SF



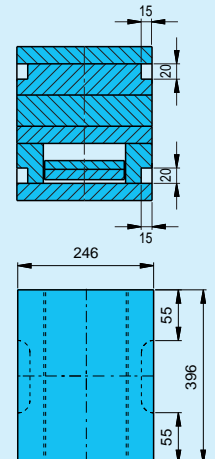
*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection

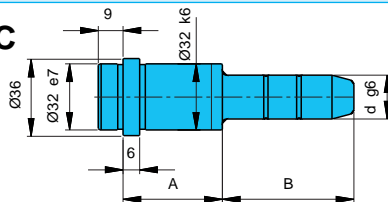
N30	FSC	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage



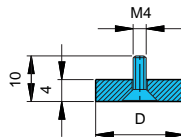
FSC



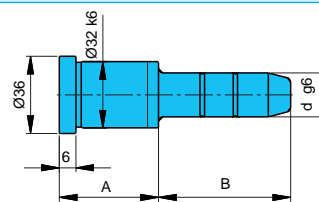
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

SB

REF.	D
SB2	16

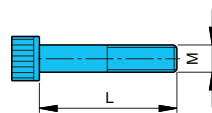


FSN



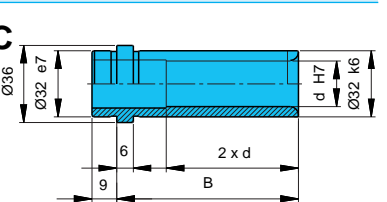
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

M



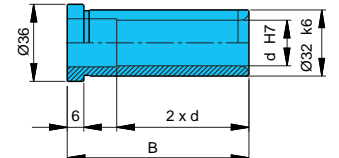
REF.	L	REF.	L
M 8 x 25		M 12 x 120	
M 12 x 30		x 140	
x 100		x 160	
		x 180	

FBC



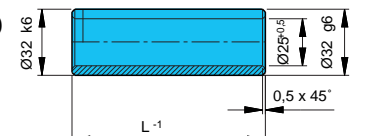
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



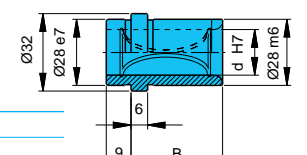
REF. d	B	REF. d	B
FBN 24- 17	- 22	FBN 23- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



REF.	L	REF.	L
TD 32- 60		TD 32-120	
-100		-140	
		-160	

GEB



REF.	B
GEB 20-26	

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 2550

(246 x 496 mm)

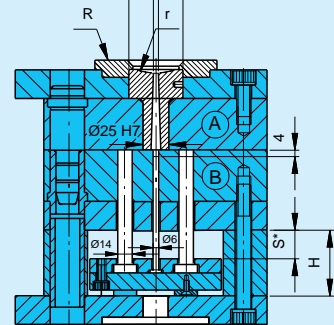
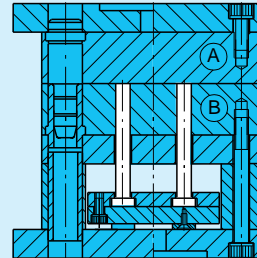
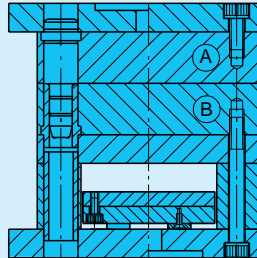
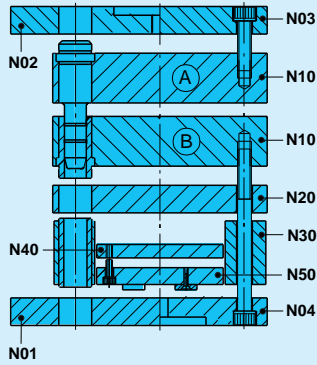
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 2550 N T^A T^B H
N01 N10 - N10 / Mat. 86

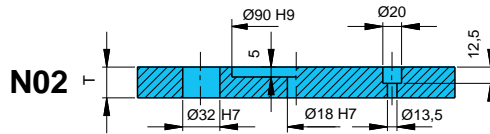
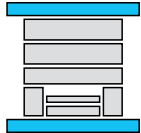
B
N 2550 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 2550 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 2550 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



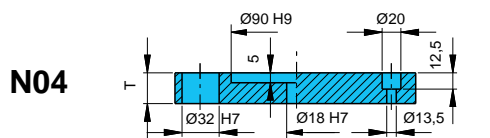
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-2550-26/1		1730
N02-2550-27/1		1730

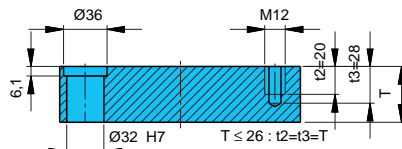
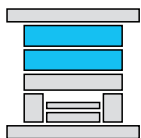
REF.	T	Mat.
N01-2550-26/1		1730
N01-2550-27/1		1730



N03

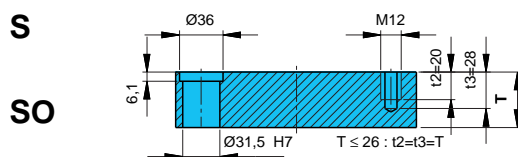
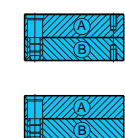
REF.	T	Mat.
N04-2550-26/1		1730
N04-2550-27/1		1730

REF.	T	Mat.
N03-2550-26/1		1730
N03-2550-27/1		1730



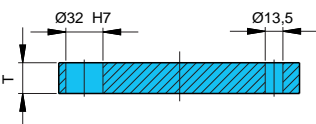
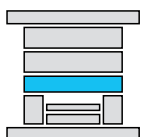
N10

REF.	Mat.	T ^A T ^B									
N10-2550-T/1	1730	17	22	26	36	46	56	66	76	86	96
N10-2550-T/3	2312										
N10-2550-T/4	2162										
N10-2550-T/5	2344										
N10-2550-T/6	2767										
N10-2550-T/7	2311										
N10-2550-T/9	Impax										
N10-2550-T/10	Ramax										
N10-2550-T/11	Stavax										



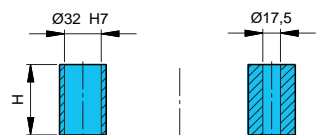
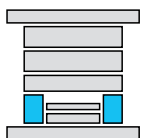
N15

REF.	Mat.	T ^A T ^B									
N15-2550-T/5	2344	17	22	26	36	46	56	66	76	86	96
N15-2550-T/6	2767										
N15-2550-T/11	Stavax										



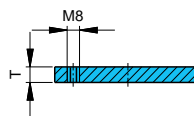
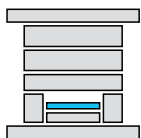
N20

REF.	T	Mat.
N20-2550-36/1		1730



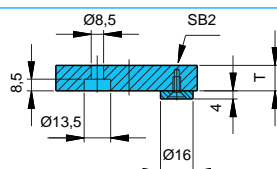
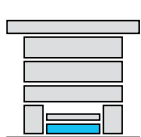
N30

REF.	Mat.	H		
N30-H-2550/1	1730	66	86	106
		20	40	60



N40

REF.	T	Mat.
N40-16-2550/1		1730



N50

REF.	T	Mat.
N50-26-2550/1		1730

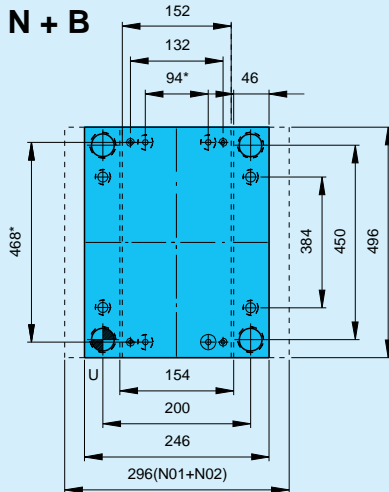
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

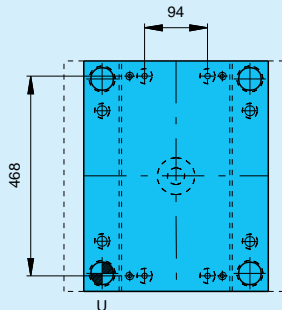
N 2550

(246 x 496 mm)

N + B

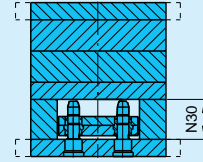


R + SF

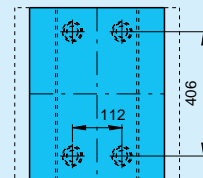


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

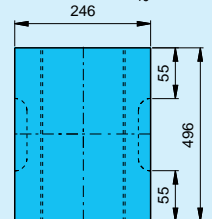
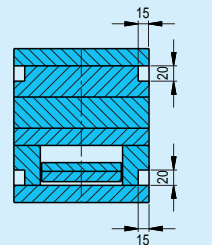
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



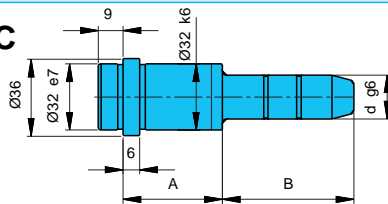
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage



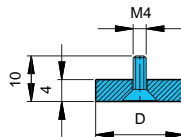
FSC



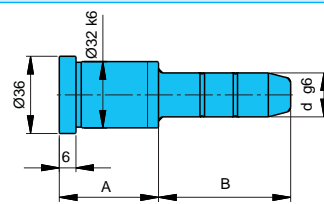
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24- 86- 66	- 86	FSC 23- 86- 66	- 86
- 106	-106	- 106	-106
FSC 24- 96- 56	- 76	FSC 23- 96- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

SB

REF.	D
SB2	16

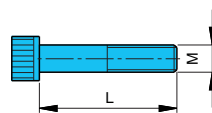


FSN



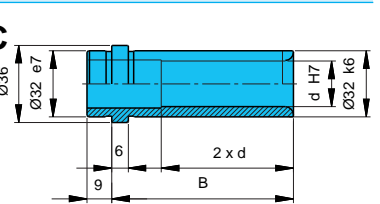
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 106	-106	- 106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

M



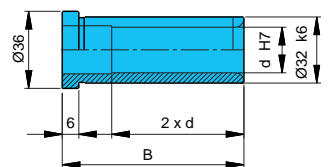
REF.	L	REF.	L
M 8 x 25		M 12 x 120	
		x 140	
M 12 x 30		x 160	
x 100		x 180	

FBC



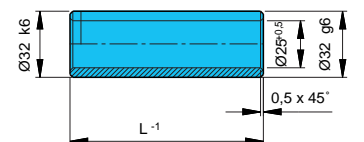
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



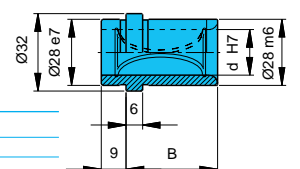
REF. d	B	REF. d	B
FBN 24- 17	- 22	FBN 23- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



REF.	L	REF.	L
TD 32- 60		TD 32-120	
-100		-140	
		-160	

GEB



REF.	B
GEB 20-26	

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 3030

(296 x 296 mm)

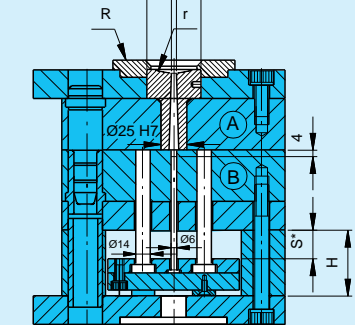
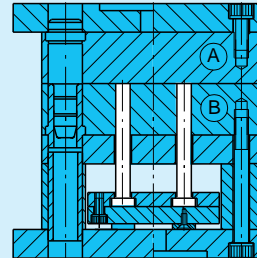
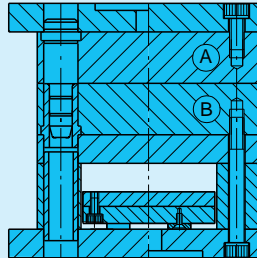
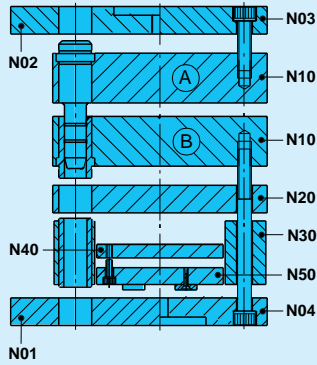
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3030 N T^A T^B H
N01 N10 - N10 / Mat. 86

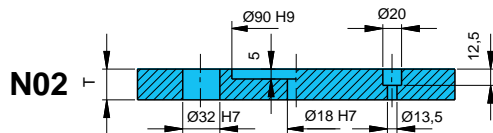
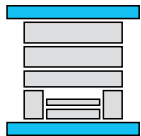
B
N 3030 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 3030 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 3030 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



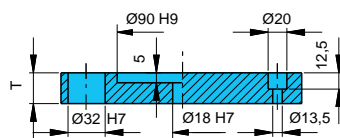
N01

REF.	T	Mat.
N02-3030-26/1		1730
N02-3030-27/1		1730

REF.	T	Mat.
N01-3030-26/1		1730
N01-3030-27/1		1730



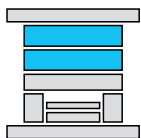
N04



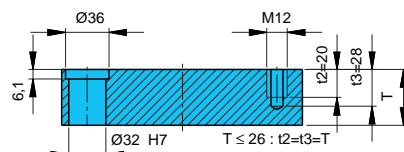
N03

REF.	T	Mat.
N04-3030-26/1		1730
N04-3030-27/1		1730

REF.	T	Mat.
N03-3030-26/1		1730
N03-3030-27/1		1730



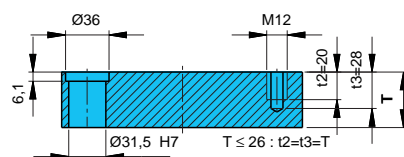
S



N10

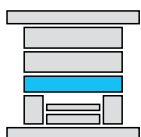
REF.	Mat.	T ^A T ^B
N10-3030-T/1	1730	17 22 26 36 46 56 66 76 86 96 106 126 146
N10-3030-T/3	2312	
N10-3030-T/4	2162	
N10-3030-T/5	2344	
N10-3030-T/6	2767	
N10-3030-T/7	2311	
N10-3030-T/9	Impax	
N10-3030-T/10	Ramax	
N10-3030-T/11	Stavax	

SO

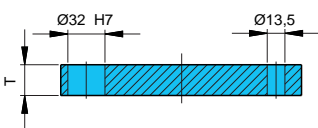


N15

REF.	Mat.	T ^A T ^B
N15-3030-T/5	2344	17 22 26 36 46 56 66 76 86 96 106 126 146
N15-3030-T/6	2767	
N15-3030-T/11	Stavax	

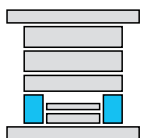


N20

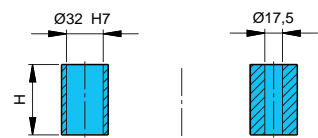


N20

REF.	T	Mat.
N20-3030-46/1		1730

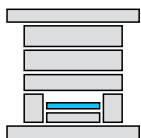


N30

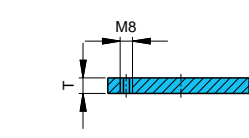


N30

REF.	Mat.	H
N30-H-3030/1	1730	66 86 106

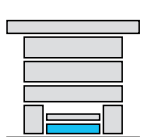


N40

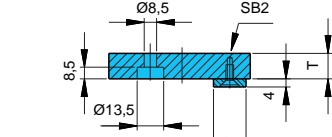


N40

REF.	T	Mat.
N40-16-3030/1		1730



N50



N50

REF.	T	Mat.
N50-26-3030/1		1730

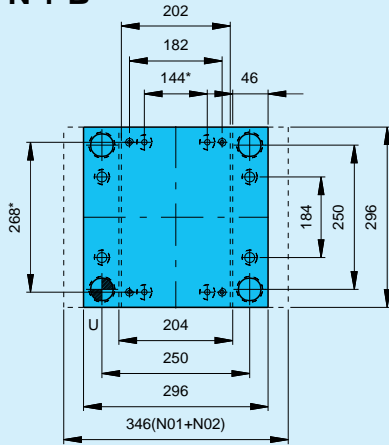
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

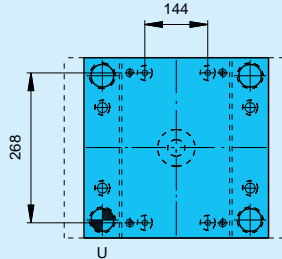
N 3030

(296 x 296 mm)

N + B

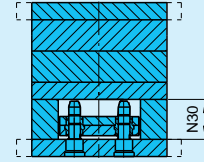


R + SF

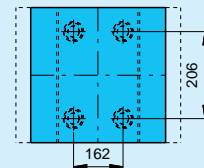


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

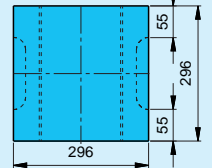
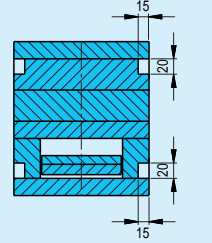
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerperplaten
♠ Guidage de la batterie d'éjection



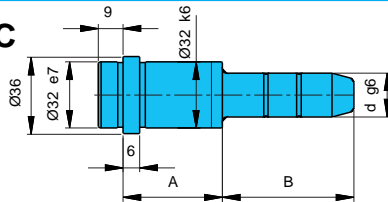
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

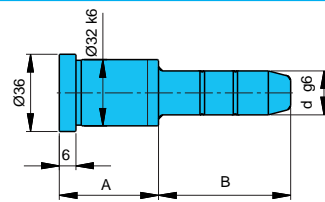


FSC



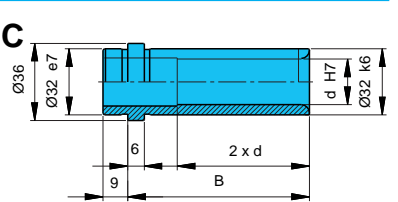
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

FSN



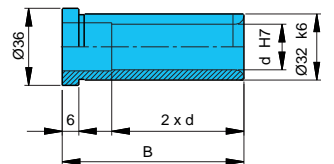
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 106	-106	- 106	-106
FSN 24- 96- 56	- 96	FSN 23- 96- 56	- 96
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 86	FSN 23-106- 56	- 86

FBC



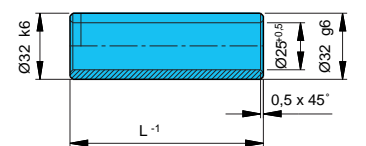
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



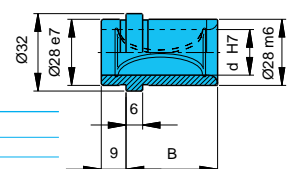
REF. d	B	REF. d	B
FBN 24- 17	- 22	FBN 23- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



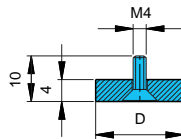
REF. L	REF. L
TD 32- 60	TD 32-120
-100	-140
	-160

GEB



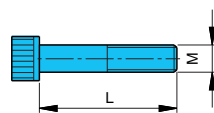
REF. B	REF. B
GEB 20-26	

SB



REF. D	REF. D
SB2 16	

M



REF. L	REF. L
M 8 x 25	M 12 x 120
	x 140
M 12 x 30	x 160
x 100	x 180

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 3035

(296 x 346 mm)

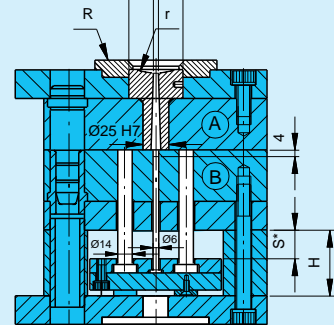
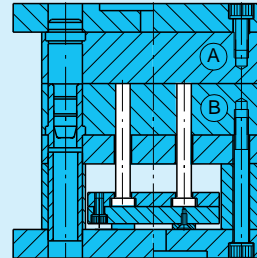
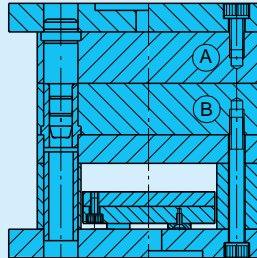
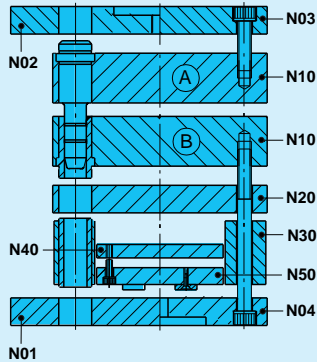
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3035 N T^A T^B H
N01 N10 - N10 / Mat. 86

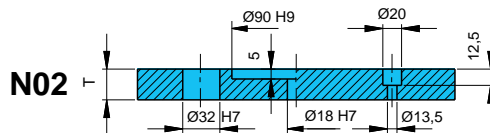
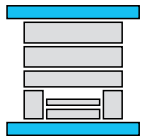
B
N 3035 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 3035 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 3035 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



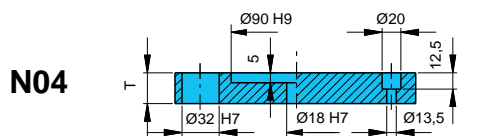
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-3035-26/1		1730
N02-3035-27/1		1730

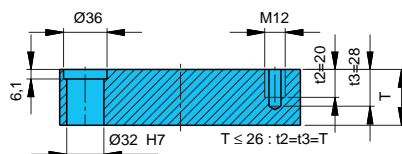
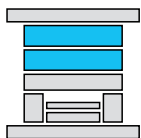
REF.	T	Mat.
N01-3035-26/1		1730
N01-3035-27/1		1730



N03

REF.	T	Mat.
N04-3035-26/1		1730
N04-3035-27/1		1730

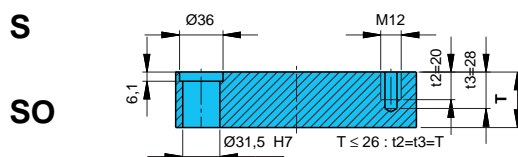
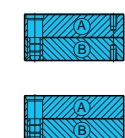
REF.	T	Mat.
N03-3035-26/1		1730
N03-3035-27/1		1730



N10

REF.	Mat.	T ^A T ^B
N10-3035-T/1	1730	
N10-3035-T/3	2312	
N10-3035-T/4	2162	
N10-3035-T/5	2344	
N10-3035-T/6	2767	
N10-3035-T/7	2311	
N10-3035-T/9	Impax	
N10-3035-T/10	Ramax	
N10-3035-T/11	Stavax	

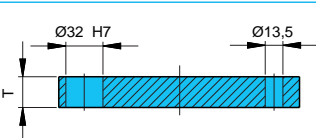
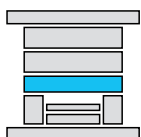
T ^A T ^B	17	22	26	36	46	56	66	76	86	96	106	126	146
N10-3035-T/1													
N10-3035-T/3													
N10-3035-T/4													
N10-3035-T/5													
N10-3035-T/6													
N10-3035-T/7													
N10-3035-T/9													
N10-3035-T/10													
N10-3035-T/11													



N15

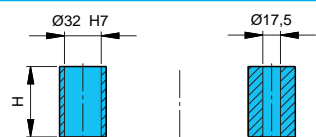
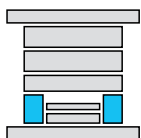
REF.	Mat.	T ^A T ^B
N15-3035-T/5	2344	
N15-3035-T/6	2767	
N15-3035-T/11	Stavax	

T ^A T ^B	17	22	26	36	46	56	66	76	86	96	106	126	146
N15-3035-T/5													
N15-3035-T/6													
N15-3035-T/11													



N20

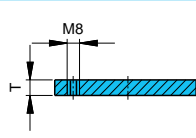
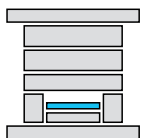
REF.	T	Mat.
N20-3035-46/1		1730



N30

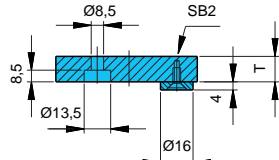
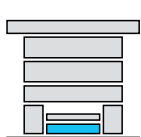
REF.	Mat.	H
N30-H-3035/1	1730	66 86 106

S*	20	40	60
N30-H-3035/1			



N40

REF.	T	Mat.
N40-16-3035/1		1730



N50

REF.	T	Mat.
N50-26-3035/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

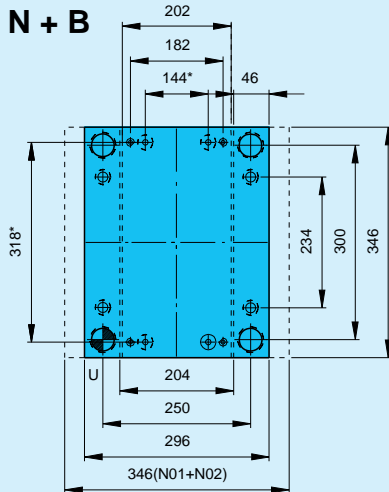
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

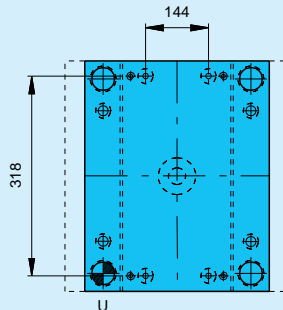
N 3035

(296 x 346 mm)

N + B



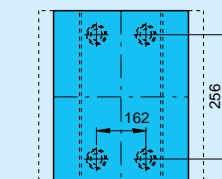
R + SF



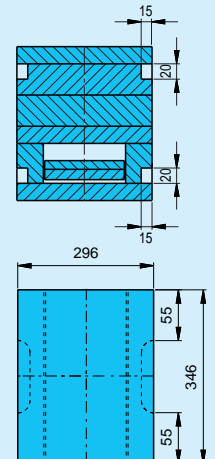
*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection

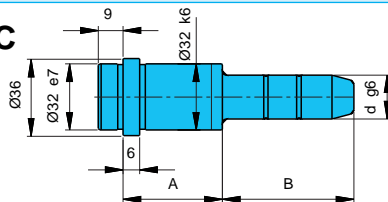
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage



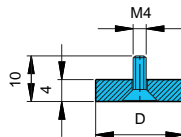
FSC



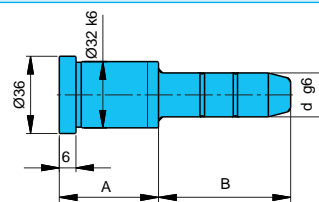
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24- 86- 66	- 86	FSC 23- 86- 66	- 86
- 106	- 106	- 106	- 106
FSC 24- 96- 56	- 96	FSC 23- 96- 56	- 96
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

SB

REF.	D
SB2	16

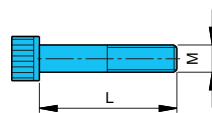


FSN



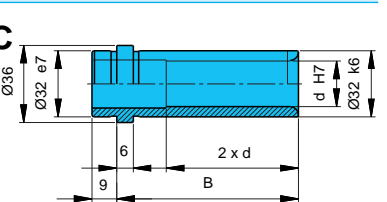
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 106	- 106	- 106	- 106
FSN 24- 96- 56	- 96	FSN 23- 96- 56	- 96
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

M



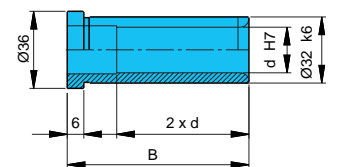
REF.	L	REF.	L
M 8 x 25		M 12 x 120	
M 12 x 30		x140	
x100		x160	
		x180	

FBC



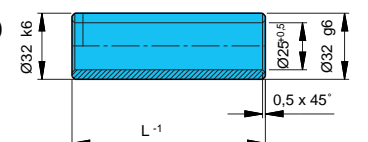
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



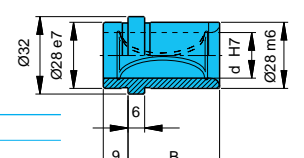
REF. d	B	REF. d	B
FBN 24- 17	- 22	FBN 23- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



REF.	L	REF.	L
TD 32- 60		TD 32-120	
-100		-140	
		-160	

GEB



REF.	B
GEB 20-26	

N 3040

(296 x 396 mm)

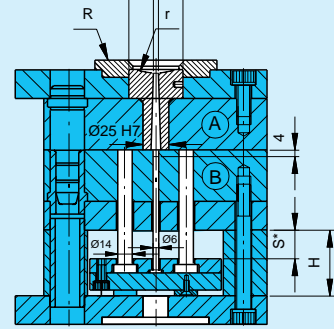
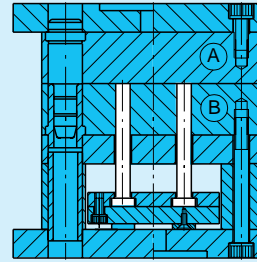
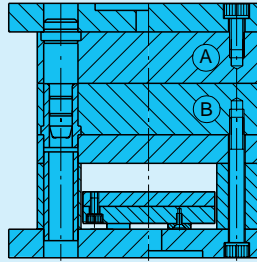
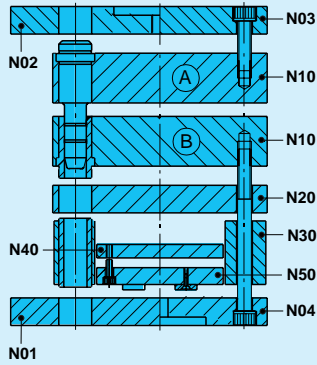
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3040 N T^A T^B H
N01 N10 - N10 / Mat. 86

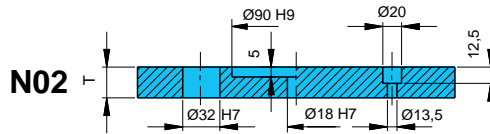
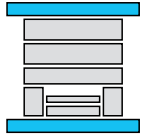
B
N 3040 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 3040 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 3040 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



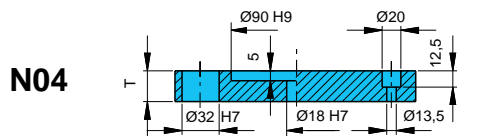
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-3040-26/1		1730
N02-3040-27/1		1730

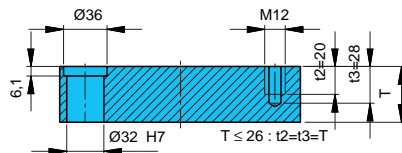
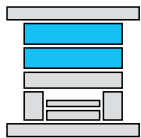
REF.	T	Mat.
N01-3040-26/1		1730
N01-3040-27/1		1730



N03

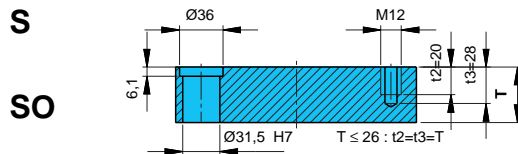
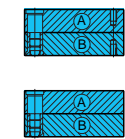
REF.	T	Mat.
N04-3040-26/1		1730
N04-3040-27/1		1730

REF.	T	Mat.
N03-3040-26/1		1730
N03-3040-27/1		1730



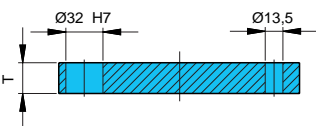
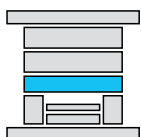
N10

REF.	Mat.	T ^A T ^B															
N10-3040-T/1	1730	17	22	26	36	46	56	66	76	86	96	106	126	146			
N10-3040-T/3	2312																
N10-3040-T/4	2162																
N10-3040-T/5	2344																
N10-3040-T/6	2767																
N10-3040-T/7	2311																
N10-3040-T/9	Impax																
N10-3040-T/10	Ramax																
N10-3040-T/11	Stavax																



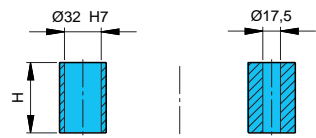
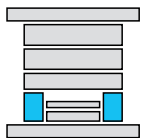
N15

REF.	Mat.	T ^A T ^B															
N15-3040-T/5	2344																
N15-3040-T/6	2767																
N15-3040-T/11	Stavax																



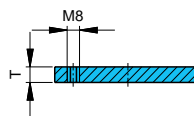
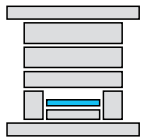
N20

REF.	T	Mat.
N20-3040-46/1		1730



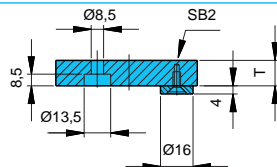
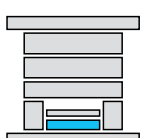
N30

REF.	Mat.	H		
N30-H-3040/1	1730	66	86	106
		S*		
		20	40	60



N40

REF.	T	Mat.
N40-16-3040/1		1730



N50

REF.	T	Mat.
N50-26-3040/1		1730

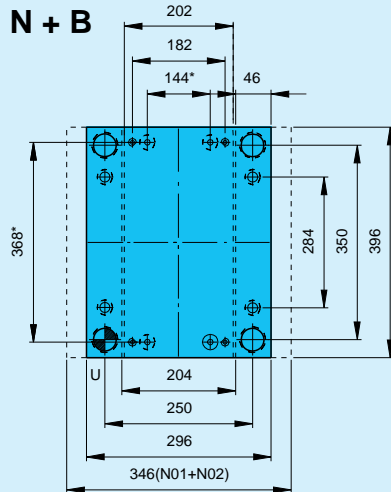
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

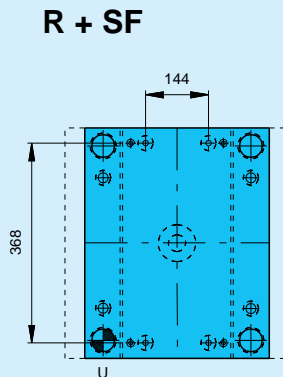
N 3040

(296 x 396 mm)

N + B



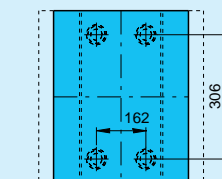
R + SF



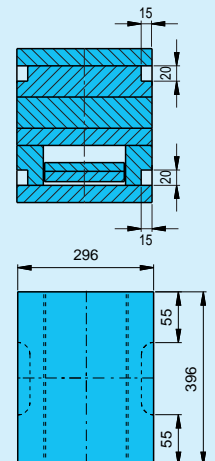
*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection

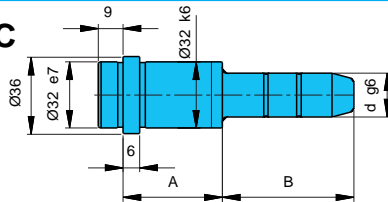
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

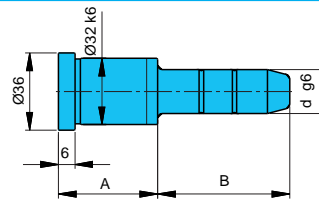


FSC



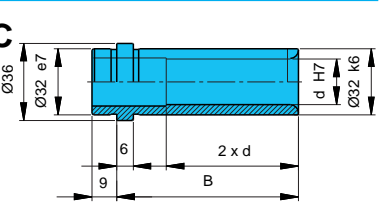
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

FSN



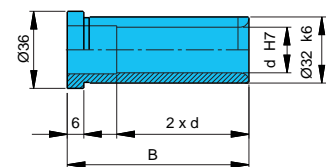
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

FBC



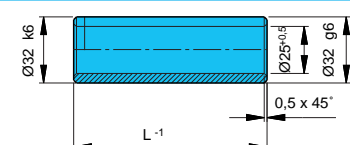
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



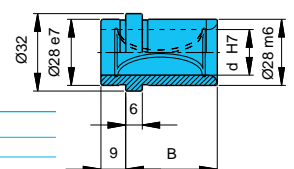
REF. d	B	REF. d	B
FBN 24- 17	- 22	FBN 23- 17	- 22
- 26	- 26	- 26	- 26
- 36	- 36	- 36	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



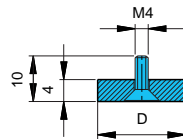
REF. L	REF. L
TD 32- 60	TD 32-120
-100	-140
	-160

GEB



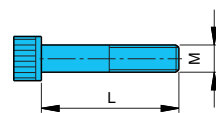
REF. B	REF. B
GEB 20-26	

SB



REF. D	REF. D
SB2 16	

M



REF. L	REF. L
M 8 x 25	M 12 x 120
	x 140
M 12 x 30	x 160
x 100	x 180

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 3045

(296 x 446 mm)

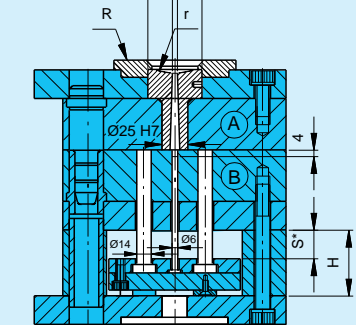
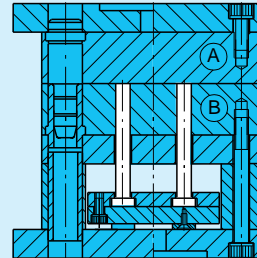
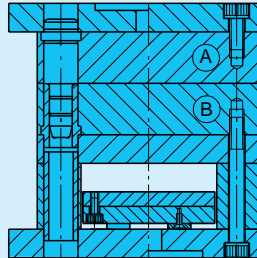
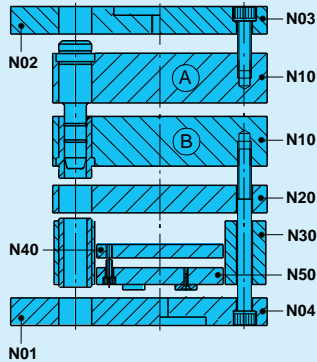
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3045 N T^A T^B H
N01 N10 - N10 / Mat. 86

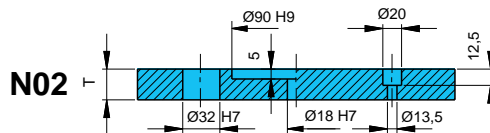
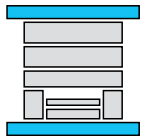
B
N 3045 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 3045 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 3045 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



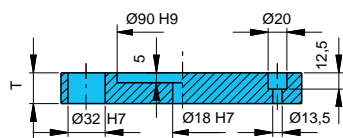
N01

REF.	T	Mat.
N02-3045-26/1	1730	
N02-3045-27/1	1730	

REF.	T	Mat.
N01-3045-26/1	1730	
N01-3045-27/1	1730	



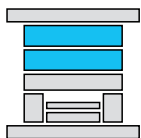
N04



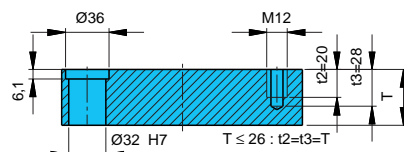
N03

REF.	T	Mat.
N04-3045-26/1	1730	
N04-3045-27/1	1730	

REF.	T	Mat.
N03-3045-26/1	1730	
N03-3045-27/1	1730	



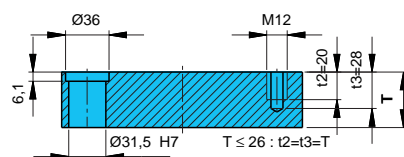
S



N10

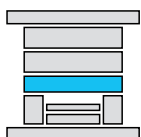
REF.	Mat.	T ^A T ^B
N10-3045-T/1	1730	26 36 46 56 66 76 86 96 106 126 146
N10-3045-T/3	2312	
N10-3045-T/4	2162	
N10-3045-T/5	2344	
N10-3045-T/6	2767	
N10-3045-T/7	2311	
N10-3045-T/9	Impax	
N10-3045-T/10	Ramax	

SO

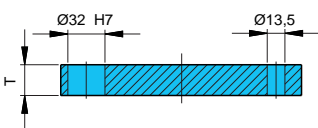


N15

REF.	Mat.	T ^A T ^B
N15-3045-T/5	2344	26 36 46 56 66 76 86 96 106 126 146
N15-3045-T/6	2767	

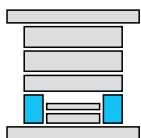


N20

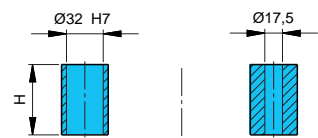


N20

REF.	T	Mat.
N20-3045-46/1	1730	

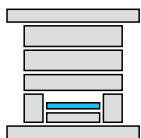


N30

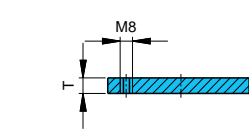


N30

REF.	Mat.	H
N30-H-3045/1	1730	66 86 106

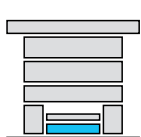


N40

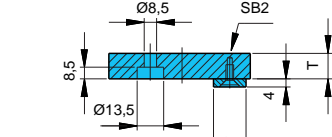


N40

REF.	T	Mat.
N40-16-3045/1	1730	



N50



N50

REF.	T	Mat.
N50-26-3045/1	1730	

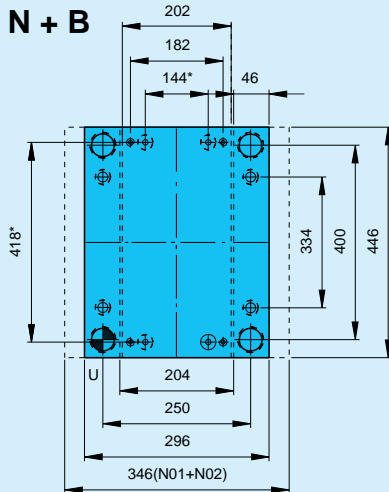
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

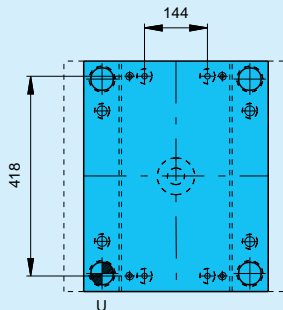
N 3045

(296 x 446 mm)

N + B



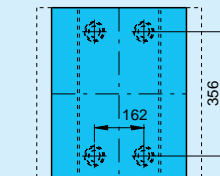
R + SF



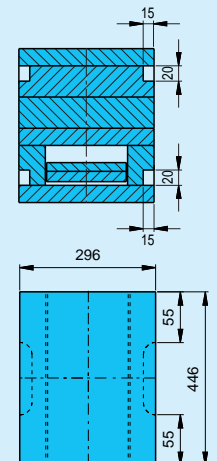
*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection

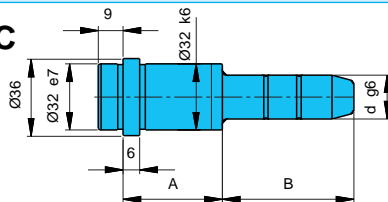
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

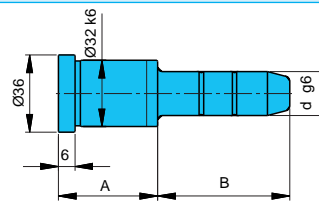


FSC



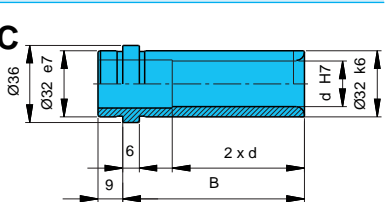
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

FSN



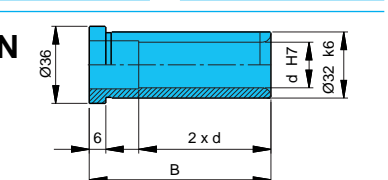
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

FBC



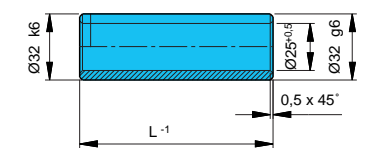
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



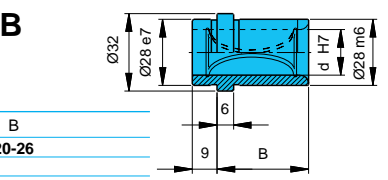
REF. d	B	REF. d	B
FBN 24- 26	- 36	FBN 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



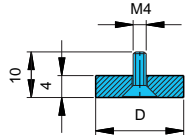
REF. L	REF. L
TD 32- 60	TD 32-120
-100	-140
	-160

GEB



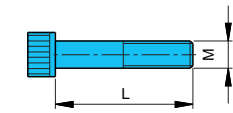
REF. B	REF. B
GEB 20-26	GEB 20-26

SB



REF. D	REF. D
SB2 16	SB2 16

M



REF. L	REF. L
M 8 x 25	M 12 x 120
	x 140
M 12 x 30	x 160
x 100	x 180

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 3050

(296 x 496 mm)

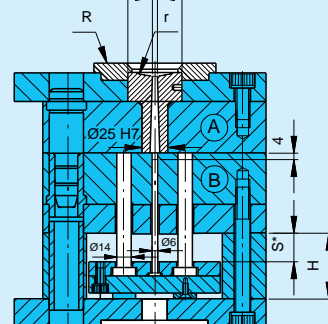
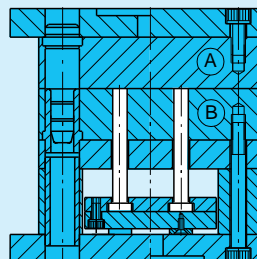
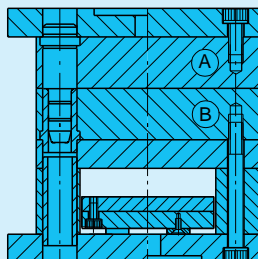
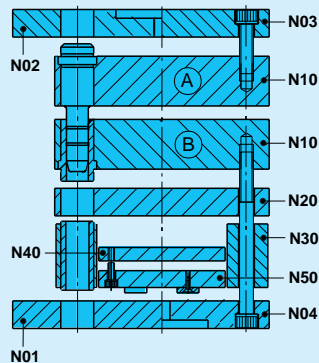
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3050 N T(A) T(B) H
N01 N10 - N10 / Mat. 86

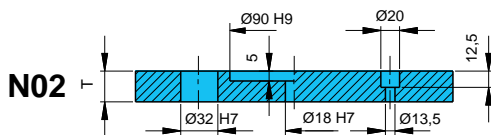
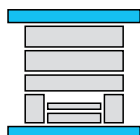
B
N 3050 B T(A) T(B) H
N01 N10 - N10 / Mat. 86

R
N 3050 R T(A) T(B) H
N01 N10 - N10 / Mat. 86

SF
N 3050 SF T(A) T(B) H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



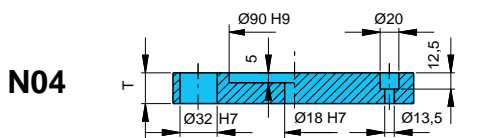
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-3050-26/1		1730
N02-3050-27/1		1730

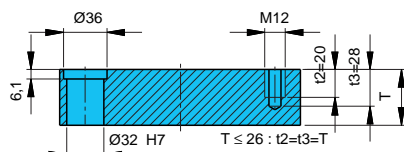
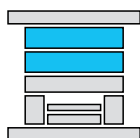
REF.	T	Mat.
N01-3050-26/1		1730
N01-3050-27/1		1730



N03

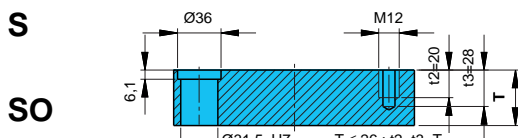
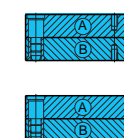
REF.	T	Mat.
N04-3050-26/1		1730
N04-3050-27/1		1730

REF.	T	Mat.
N03-3050-26/1		1730
N03-3050-27/1		1730



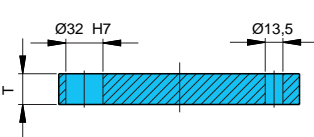
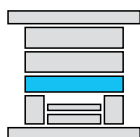
N10

REF.	Mat.	T(A) (B)											
N10-3050-T/1	1730	26	36	46	56	66	76	86	96	106	126	146	
N10-3050-T/3	2312												
N10-3050-T/4	2162												
N10-3050-T/5	2344												
N10-3050-T/6	2767												
N10-3050-T/7	2311												
N10-3050-T/9	Impax												
N10-3050-T/10	Ramax												



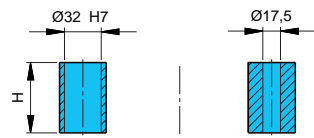
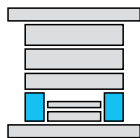
N15

REF.	Mat.	T(A) (B)											
N15-3050-T/5	2344	26	36	46	56	66	76	86	96	106	126	146	
N15-3050-T/6	2767												



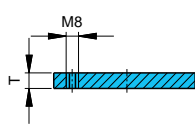
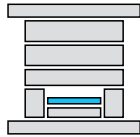
N20

REF.	T	Mat.
N20-3050-46/1		1730



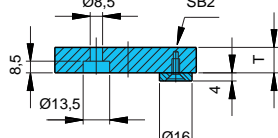
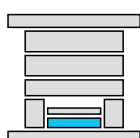
N30

REF.	Mat.	H		
N30-H-3050/1	1730	66	86	106
		20	40	60



N40

REF.	T	Mat.
N40-16-3050/1		1730



N50

REF.	T	Mat.
N50-26-3050/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

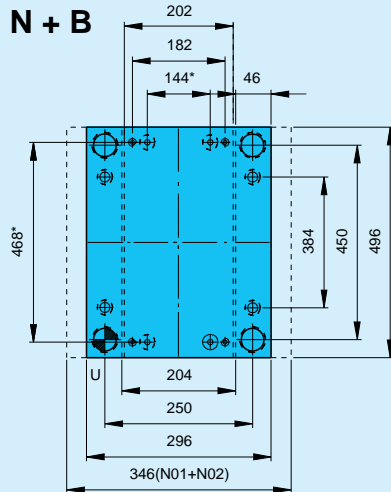
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

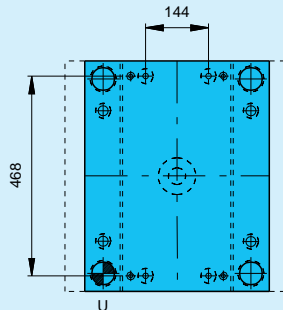
N 3050

(296 x 496 mm)

N + B



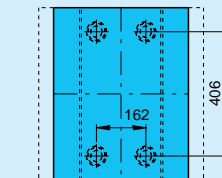
R + SF



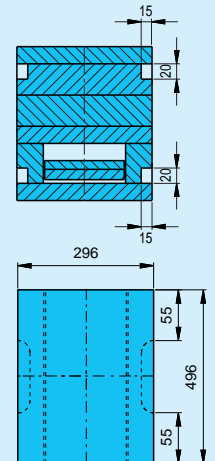
*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection

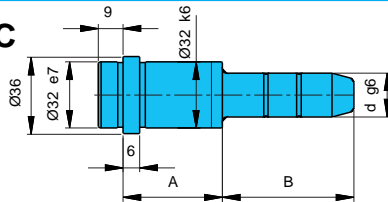
N30	FSC	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

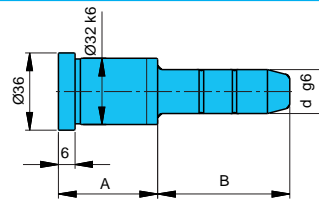


FSC



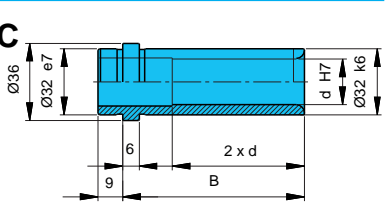
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

FSN



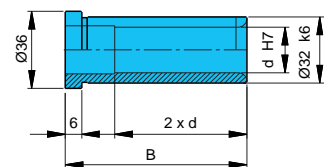
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

FBC



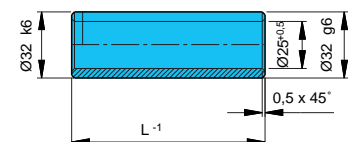
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- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
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- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



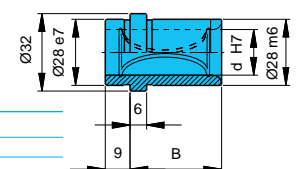
REF. d	B	REF. d	B
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- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



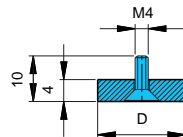
REF. L	REF. L
TD 32- 60	TD 32-120
-100	-140
	-160

GEB



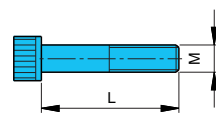
REF. B	REF. B
GEB 20-26	

SB



REF. D	REF. D
SB2 16	

M



REF. L	REF. L
M 8 x 25	M 12 x 120
	x 140
M 12 x 30	x 160
x 100	x 180

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 3055

(296 x 546 mm)

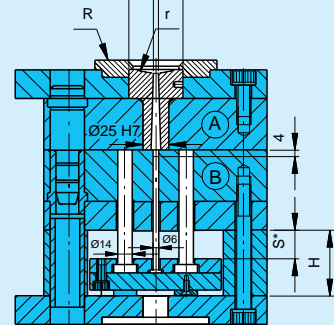
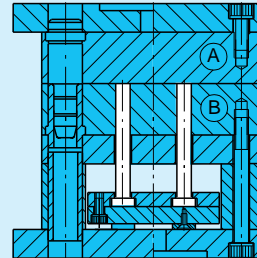
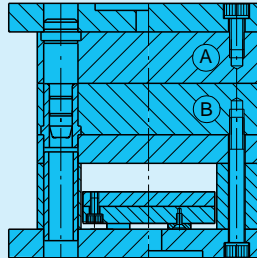
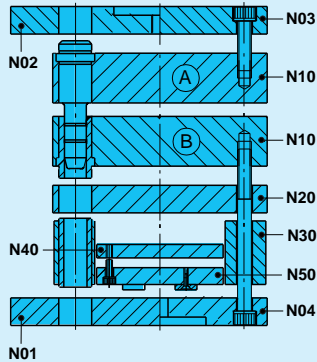
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3055 N T(A) T(B) H
N01 N10 - N10 / Mat. 86

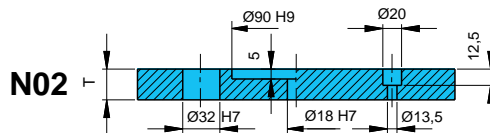
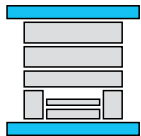
B
N 3055 B T(A) T(B) H
N01 N10 - N10 / Mat. 86

R
N 3055 R T(A) T(B) H
N01 N10 - N10 / Mat. 86

SF
N 3055 SF T(A) T(B) H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



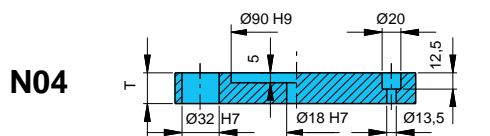
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-3055-26/1		1730
N02-3055-27/1		1730

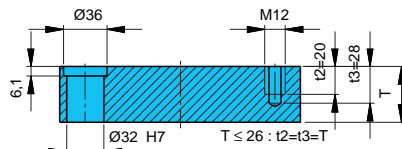
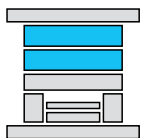
REF.	T	Mat.
N01-3055-26/1		1730
N01-3055-27/1		1730



N03

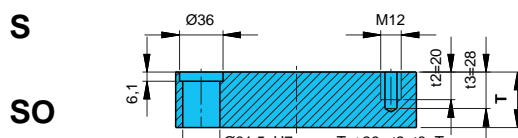
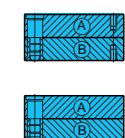
REF.	T	Mat.
N04-3055-26/1		1730
N04-3055-27/1		1730

REF.	T	Mat.
N03-3055-26/1		1730
N03-3055-27/1		1730



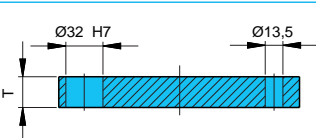
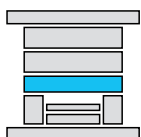
N10

REF.	Mat.	T(A) (B)											
N10-3055-T/1	1730	26	36	46	56	66	76	86	96	106	126	146	
N10-3055-T/3	2312												
N10-3055-T/4	2162												
N10-3055-T/5	2344												
N10-3055-T/6	2767												
N10-3055-T/7	2311												
N10-3055-T/9	Impax												
N10-3055-T/10	Ramax												



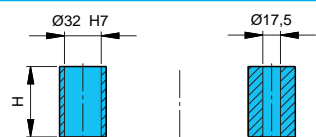
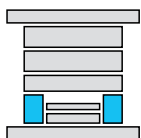
N15

REF.	Mat.	T(A) (B)											
N15-3055-T/5	2344	26	36	46	56	66	76	86	96	106	126	146	
N15-3055-T/6	2767												



N20

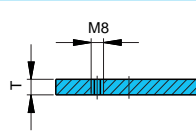
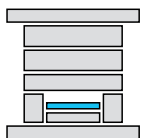
REF.	T	Mat.
N20-3055-46/1		1730



N30

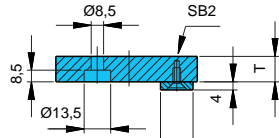
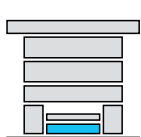
REF.	Mat.	H
N30-H-3055/1	1730	66 86 106

	S*	
20	40	60



N40

REF.	T	Mat.
N40-16-3055/1		1730



N50

REF.	T	Mat.
N50-26-3055/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

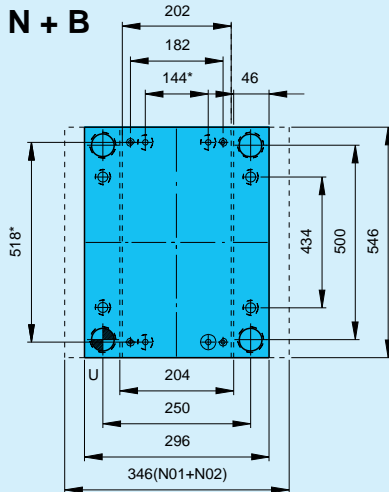
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

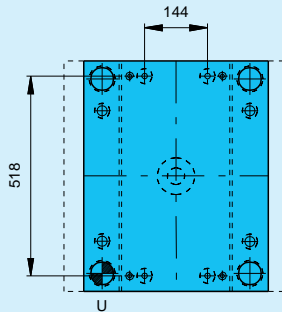
N 3055

(296 x 546 mm)

N + B

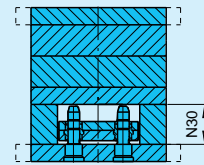


R + SF

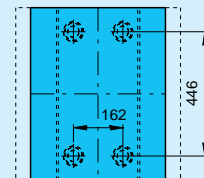


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

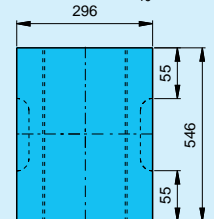
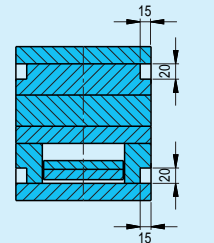
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



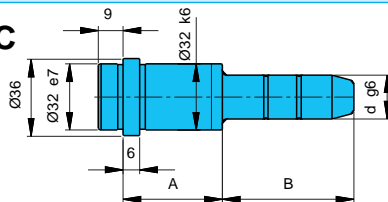
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage



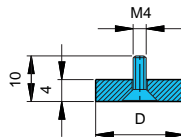
FSC



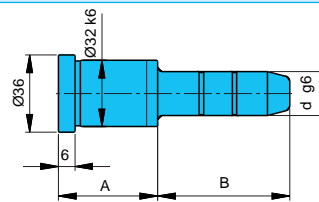
REF. d	A - B	REF. d	A - B
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- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24- 86- 66	- 86	FSC 23- 86- 66	- 86
- 106	-106	- 106	-106
FSC 24- 96- 56	- 96	FSC 23- 96- 56	- 96
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

SB

REF.	D
SB2	16

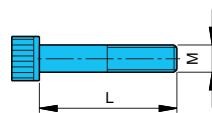


FSN



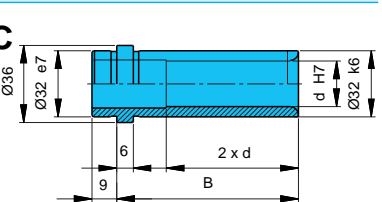
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- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 106	-106	- 106	-106
FSN 24- 96- 56	- 96	FSN 23- 96- 56	- 96
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

M



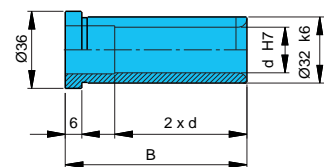
REF.	L	REF.	L
M 8 x 25		M 12 x 120	
M 12 x 30		x 140	
x 100		x 160	
		x 180	

FBC



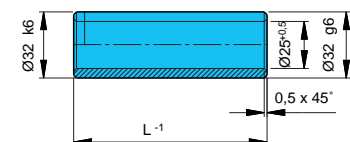
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



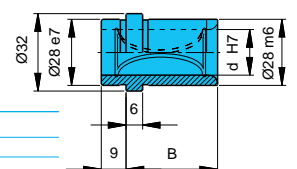
REF. d	B	REF. d	B
FBN 24- 26	- 36	FBN 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



REF.	L	REF.	L
TD 32- 60		TD 32-120	
-100		-140	
		-160	

GEB



REF.	B
GEB 20-26	

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 3060

(296 x 596 mm)

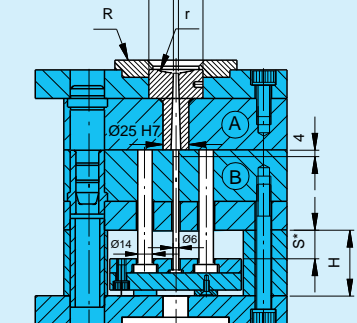
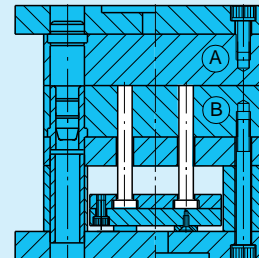
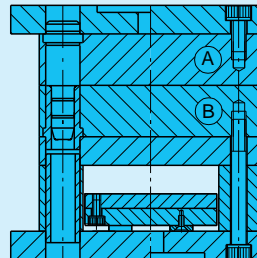
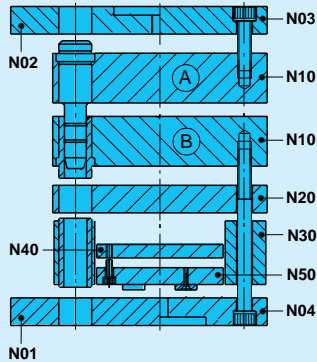
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3060 N T^A T^B H
N01 N10 - N10 / Mat. 86

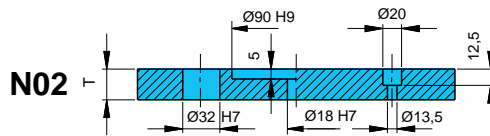
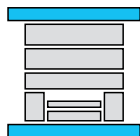
B
N 3060 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 3060 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 3060 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R121 Ø50,1
AG r=0 d=5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



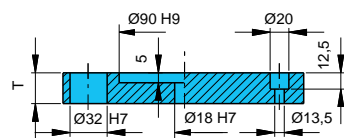
N01

REF.	T	Mat.
N02-3060-26/1	1730	
N02-3060-27/1	1730	

REF.	T	Mat.
N01-3060-26/1	1730	
N01-3060-27/1	1730	



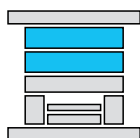
N04



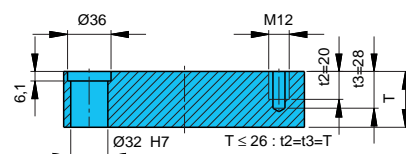
N03

REF.	T	Mat.
N04-3060-26/1	1730	
N04-3060-27/1	1730	

REF.	T	Mat.
N03-3060-26/1	1730	
N03-3060-27/1	1730	



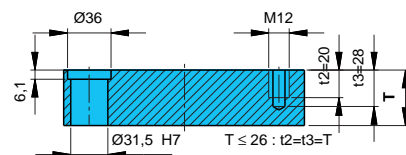
S



N10

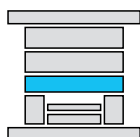
REF.	Mat.	T ^A T ^B
N10-3060-T/1	1730	26 36 46 56 66 76 86 96 106 126 146
N10-3060-T/3	2312	
N10-3060-T/4	2162	
N10-3060-T/5	2344	
N10-3060-T/6	2767	
N10-3060-T/7	2311	
N10-3060-T/9	Impax	
N10-3060-T/10	Ramax	

SO

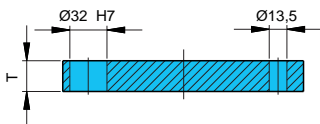


N15

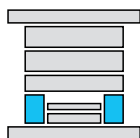
REF.	Mat.	T ^A T ^B
N15-3060-T/5	2344	26 36 46 56 66 76 86 96 106 126 146
N15-3060-T/6	2767	



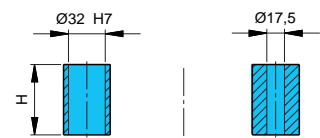
N20



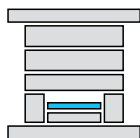
REF.	T	Mat.
N20-3060-46/1	1730	



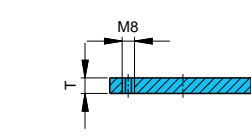
N30



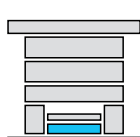
REF.	Mat.	H
N30-H-3060/1	1730	66 86 106



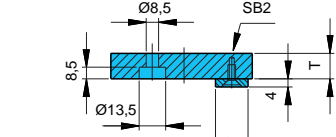
N40



REF.	T	Mat.
N40-16-3060/1	1730	



N50



REF.	T	Mat.
N50-26-3060/1	1730	

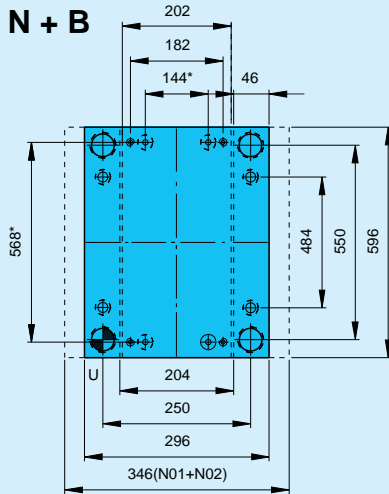
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

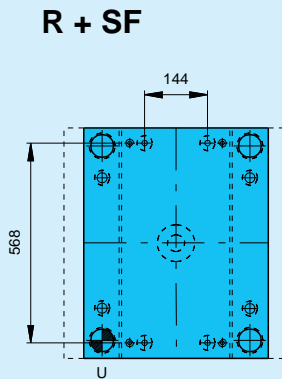
N 3060

(296 x 596 mm)

N + B



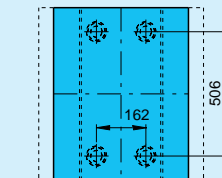
R + SF



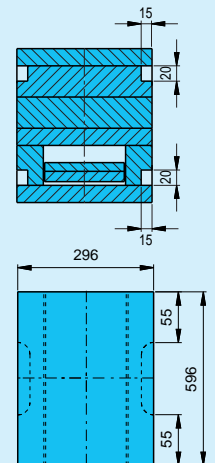
*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection

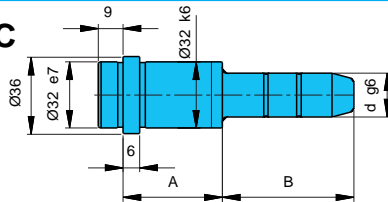
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

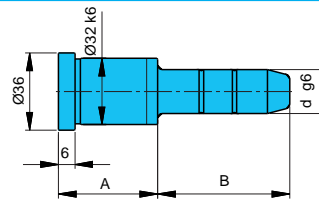


FSC



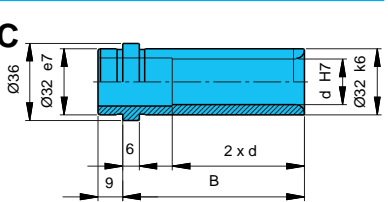
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

FSN



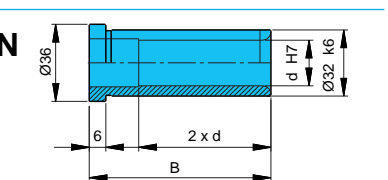
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 106	-106	-106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

FBC



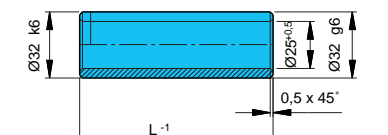
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



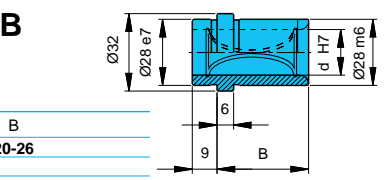
REF. d	B	REF. d	B
FBN 24- 26	- 36	FBN 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



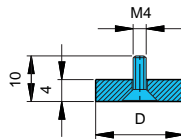
REF. L	REF. L
TD 32- 60	TD 32-120
-100	-140
	-160

GEB



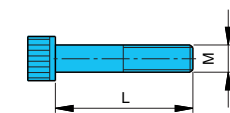
REF. B	REF. B
GEB 20-26	GEB 20-26

SB



REF. D	REF. D
SB2 16	SB2 16

M



REF. L	REF. L
M 8 x 25	M 12 x120
	x140
M 12 x 30	x160
x100	x180

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 3535

(346 x 346 mm)

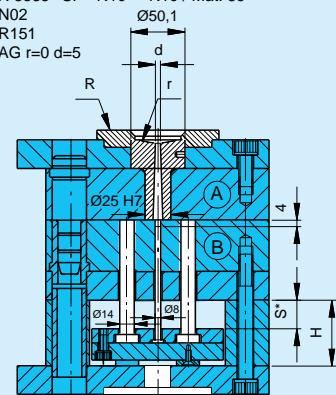
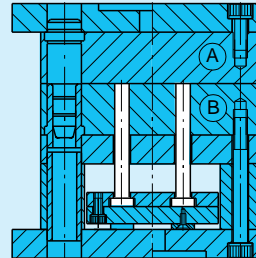
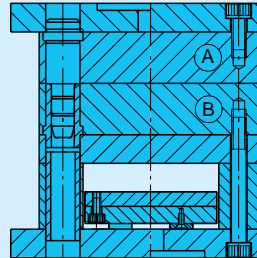
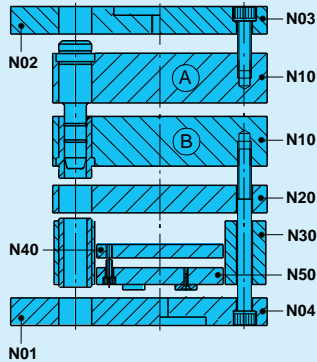
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3535 N T^A T^B H
N01 N10 - N10 / Mat. 86

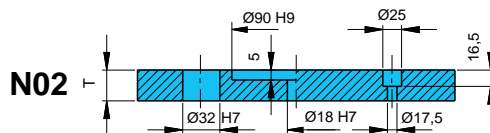
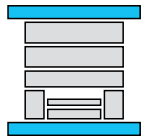
B
N 3535 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 3535 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 3535 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R151
AG r=0 d=5



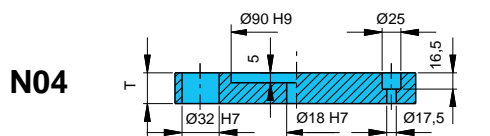
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-3535-26/1	1730	
N02-3535-27/1	1730	

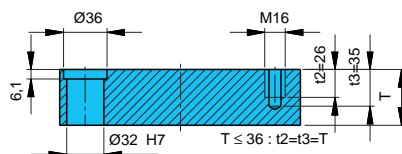
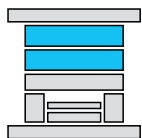
REF.	T	Mat.
N01-3535-26/1	1730	
N01-3535-27/1	1730	



N03

REF.	T	Mat.
N04-3535-26/1	1730	
N04-3535-27/1	1730	

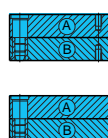
REF.	T	Mat.
N03-3535-26/1	1730	
N03-3535-27/1	1730	



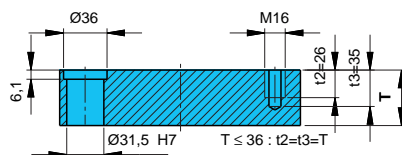
N10

REF.	Mat.	T ^A T ^B
N10-3535-T/1	1730	26 36 46 56 66 76 86 96 106 126 146
N10-3535-T/3	2312	
N10-3535-T/4	2162	
N10-3535-T/5	2344	
N10-3535-T/6	2767	
N10-3535-T/7	2311	
N10-3535-T/9	Impax	
N10-3535-T/10	Ramax	

S

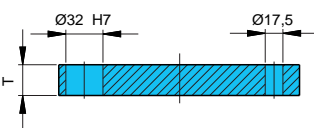
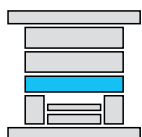


SO



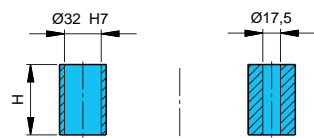
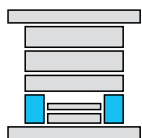
N15

REF.	Mat.	T ^A T ^B
N15-3535-T/5	2344	26 36 46 56 66 76 86 96 106 126 146
N15-3535-T/6	2767	



N20

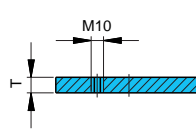
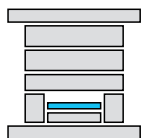
REF.	T	Mat.
N20-3535-46/1	1730	



N30

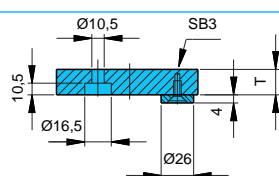
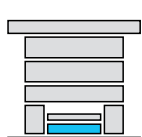
REF.	Mat.	H
N30-H-3535/1	1730	66 86 106

S*	20	40	60
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N40

REF.	T	Mat.
N40-16-3535/1	1730	



N50

REF.	T	Mat.
N50-26-3535/1	1730	

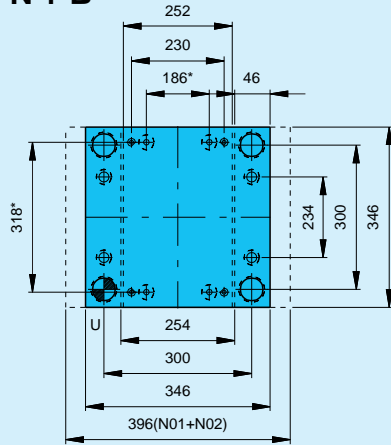
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

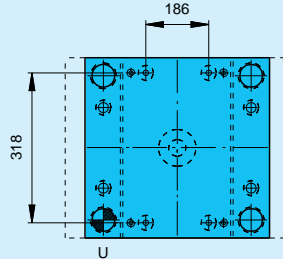
N 3535

(346 x 346 mm)

N + B

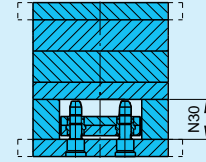


R + SF

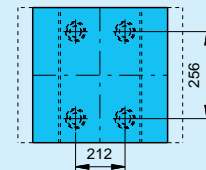


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

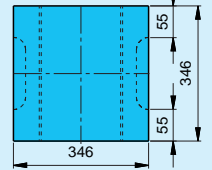
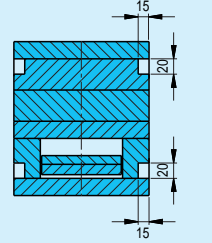
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



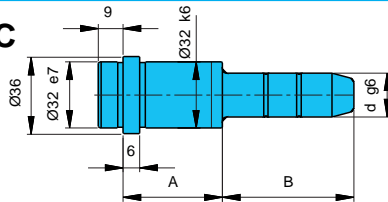
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage



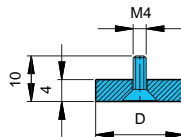
FSC



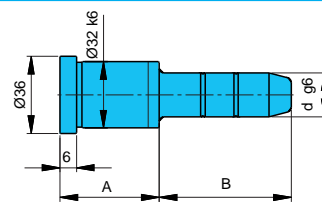
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

SB

REF.	D
SB3	26

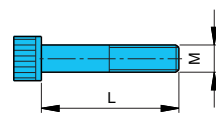


FSN



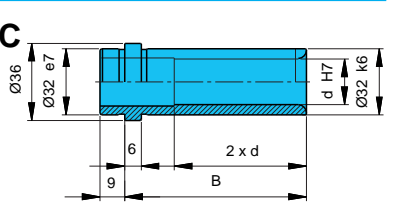
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 106	-106	- 106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

M



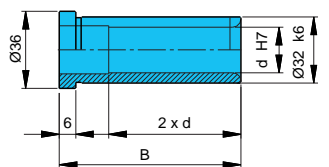
REF.	L	REF.	L
M 10 x 25		M 16 x 140	
M 16 x 30		x150	
x100		x160	
x120		x180	
		x200	

FBC



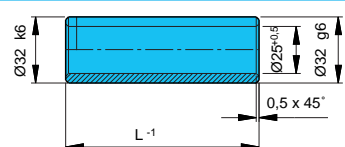
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



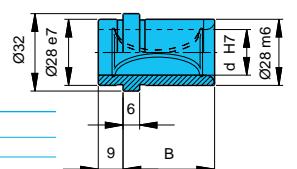
REF. d	B	REF. d	B
FBN 24- 26	- 36	FBN 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



REF.	L	REF.	L
TD 32- 60	-100	TD 32-120	-140
			-160

GEB



REF.	B
GEB 20-26	

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 3540

(346 x 396 mm)

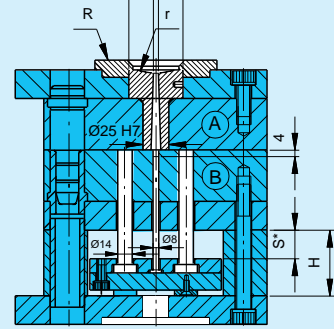
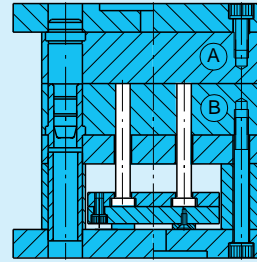
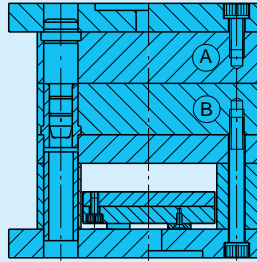
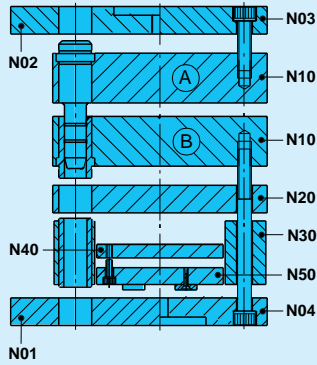
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3540 N T^A T^B H
N01 N10 - N10 / Mat. 86

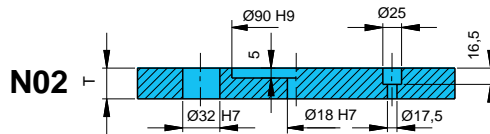
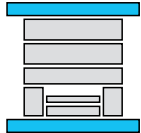
B
N 3540 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 3540 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 3540 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R151
AG r=0 d=5



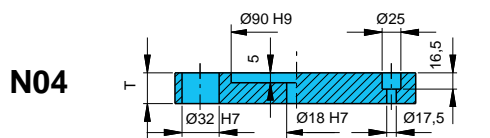
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-3540-26/1		1730
N02-3540-27/1		1730

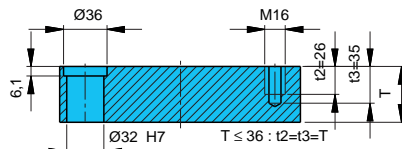
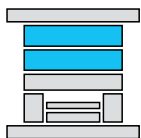
REF.	T	Mat.
N01-3540-26/1		1730
N01-3540-27/1		1730



N03

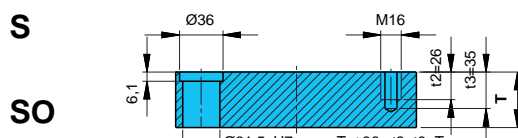
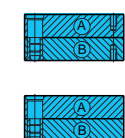
REF.	T	Mat.
N04-3540-26/1		1730
N04-3540-27/1		1730

REF.	T	Mat.
N03-3540-26/1		1730
N03-3540-27/1		1730



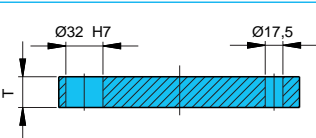
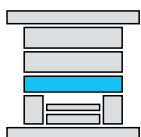
N10

REF.	Mat.	T ^A [®]											
N10-3540-T/1	1730	26	36	46	56	66	76	86	96	106	126	146	
N10-3540-T/3	2312												
N10-3540-T/4	2162												
N10-3540-T/5	2344												
N10-3540-T/6	2767												
N10-3540-T/7	2311												
N10-3540-T/9	Impax												
N10-3540-T/10	Ramax												



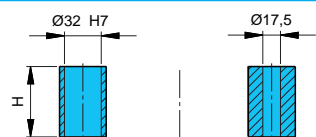
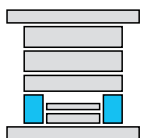
N15

REF.	Mat.	T ^A [®]											
N15-3540-T/5	2344	26	36	46	56	66	76	86	96	106	126	146	
N15-3540-T/6	2767												



N20

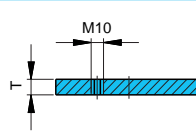
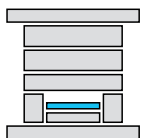
REF.	T	Mat.
N20-3540-46/1		1730



N30

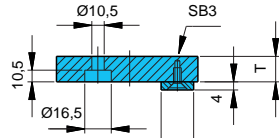
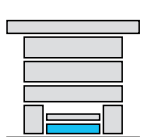
REF.	Mat.	H
N30-H-3540/1	1730	66 86 106

S ⁺		
20	40	60



N40

REF.	T	Mat.
N40-16-3540/1		1730



N50

REF.	T	Mat.
N50-26-3540/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

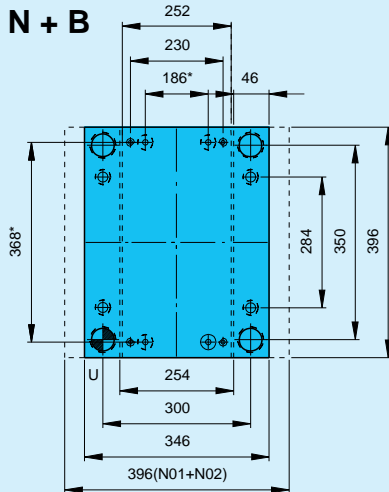
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

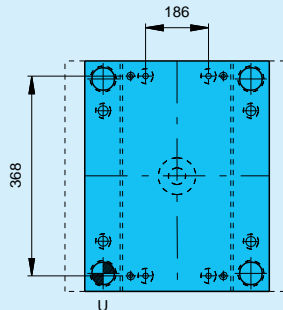
N 3540

(346 x 396 mm)

N + B



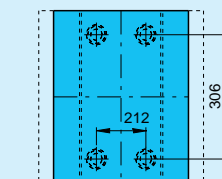
R + SF



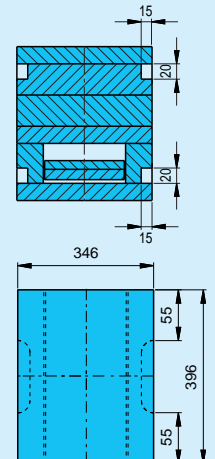
*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection

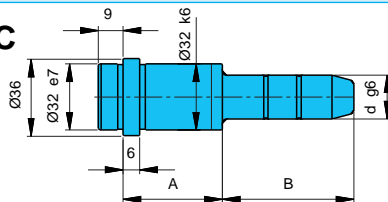
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

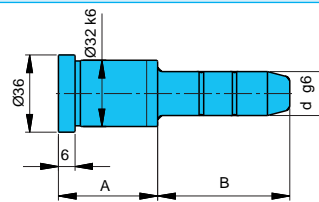


FSC



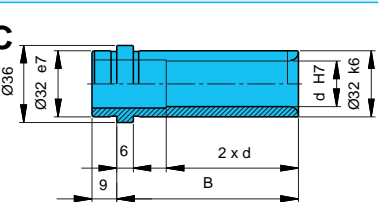
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

FSN



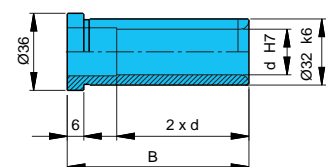
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

FBC



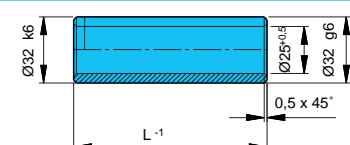
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



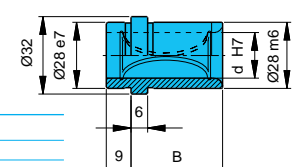
REF. d	B	REF. d	B
FBN 24- 26	- 36	FBN 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



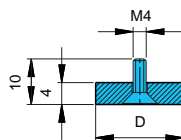
REF. L	REF. L
TD 32- 60	TD 32-120
-100	-140
	-160

GEB



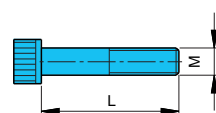
REF. B	REF. B
GEB 20-26	

SB



REF. D	REF. D
SB3 26	

M



REF. L	REF. L
M 10 x 25	M 16 x 140
	x150
M 16 x 30	x160
x100	x180
x120	x200

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 3545

(346 x 446 mm)

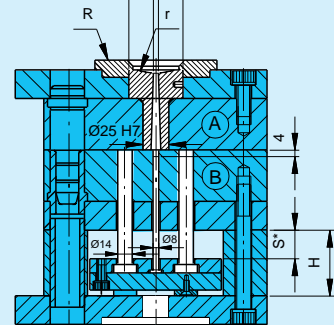
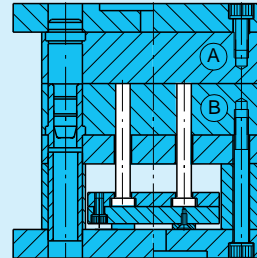
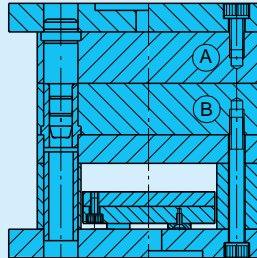
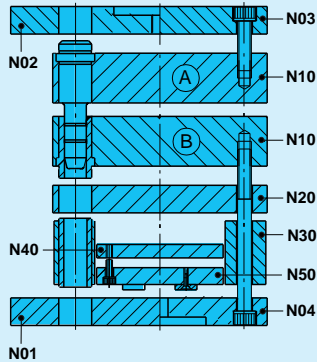
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3545 N T(A) T(B) H
N01 N10 - N10 / Mat. 86

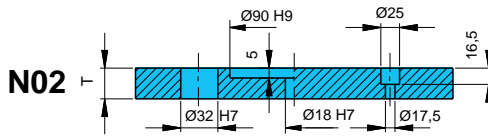
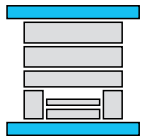
B
N 3545 B T(A) T(B) H
N01 N10 - N10 / Mat. 86

R
N 3545 R T(A) T(B) H
N01 N10 - N10 / Mat. 86

SF
N 3545 SF T(A) T(B) H
N02 N10 - N10 / Mat. 86
R151 Ø50,1
AG r=0 d=5



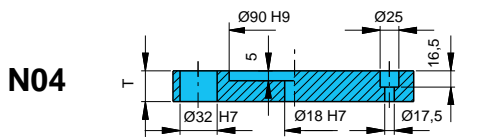
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-3545-26/1	1730	
N02-3545-27/1	1730	

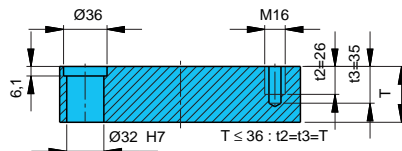
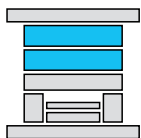
REF.	T	Mat.
N01-3545-26/1	1730	
N01-3545-27/1	1730	



N03

REF.	T	Mat.
N04-3545-26/1	1730	
N04-3545-27/1	1730	

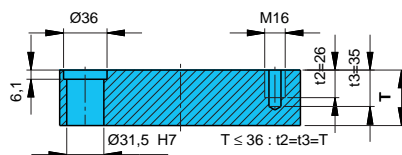
REF.	T	Mat.
N03-3545-26/1	1730	
N03-3545-27/1	1730	



N10

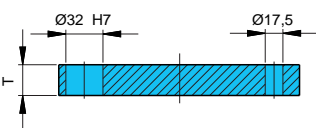
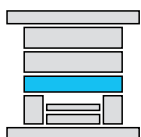
REF.	Mat.	T(A) (B)
N10-3545-T/1	1730	26 36 46 56 66 76 86 96 106 126 146
N10-3545-T/3	2312	
N10-3545-T/4	2162	
N10-3545-T/5	2344	
N10-3545-T/6	2767	
N10-3545-T/7	2311	
N10-3545-T/9	Impax	
N10-3545-T/10	Ramax	

S



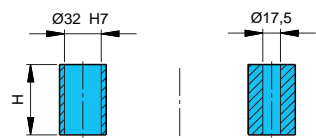
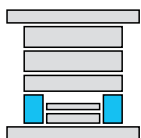
N15

REF.	Mat.	T(A) (B)
N15-3545-T/5	2344	26 36 46 56 66 76 86 96 106 126 146
N15-3545-T/6	2767	



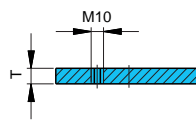
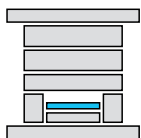
N20

REF.	T	Mat.
N20-3545-46/1	1730	



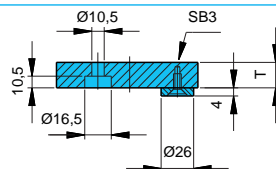
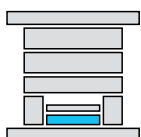
N30

REF.	Mat.	H
N30-H-3545/1	1730	66 86 106
		S* 20 40 60



N40

REF.	T	Mat.
N40-16-3545/1	1730	



N50

REF.	T	Mat.
N50-26-3545/1	1730	

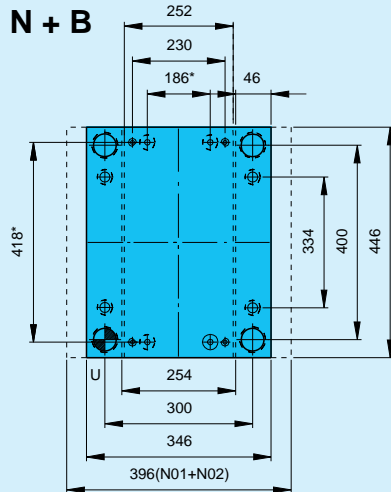
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

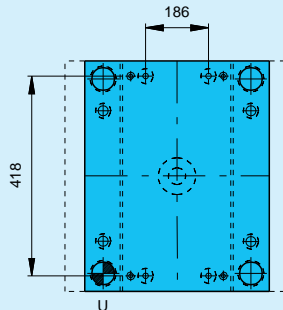
N 3545

(346 x 446 mm)

N + B

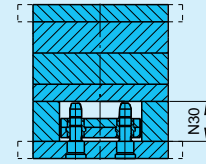


R + SF

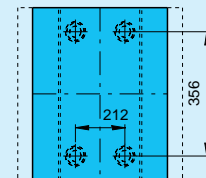


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

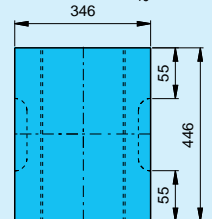
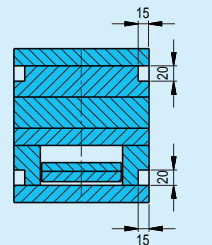
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



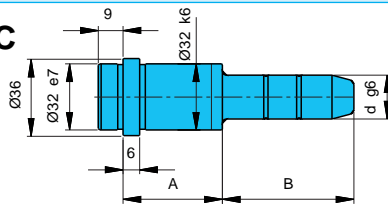
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

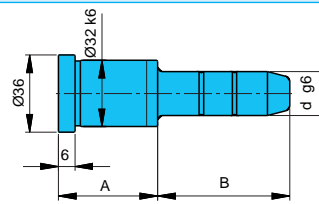


FSC



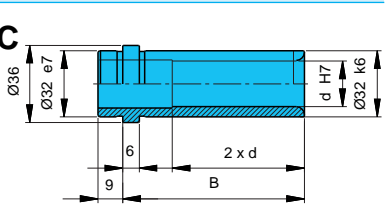
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

FSN



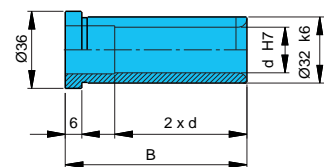
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 106	-106	- 106	-106
FSN 24- 96- 56	- 96	FSN 23- 96- 56	- 96
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 86	FSN 23-106- 56	- 86

FBC



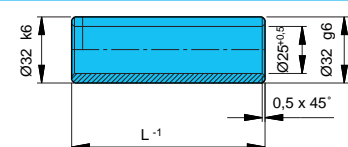
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



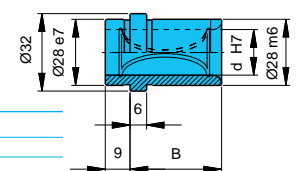
REF. d	B	REF. d	B
FBN 24- 26	- 36	FBN 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



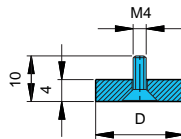
REF. L	REF. L
TD 32- 60	TD 32-120
-100	-140
	-160

GEB



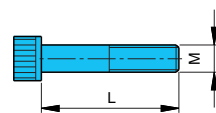
REF. B	REF. B
GEB 20-26	

SB



REF. D	REF. D
SB3 26	

M



REF. L	REF. L
M 10 x 25	M 16 x 140
	x150
M 16 x 30	x160
x100	x180
x120	x200

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 3550

(346 x 496 mm)

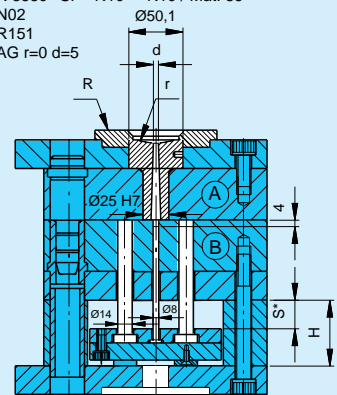
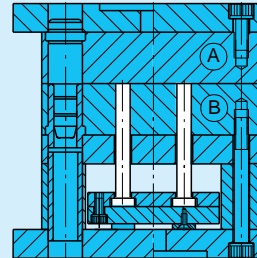
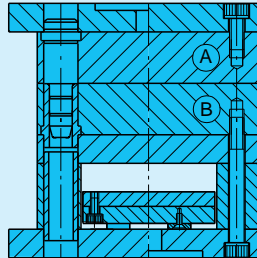
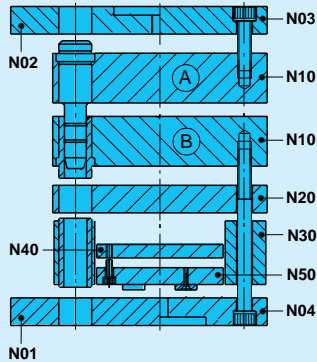
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3550 N T^A T^B H
N01 N10 - N10 / Mat. 86

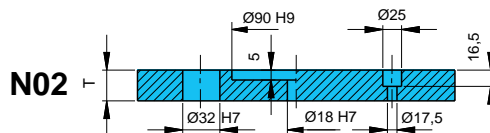
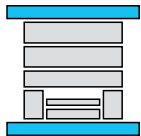
B
N 3550 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 3550 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 3550 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R151
AG r=0 d=5



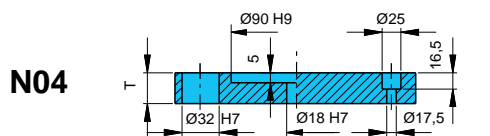
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-3550-26/1		1730
N02-3550-27/1		1730

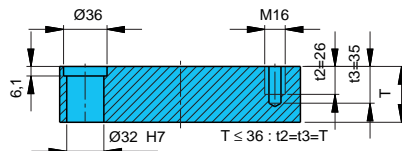
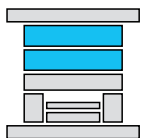
REF.	T	Mat.
N01-3550-26/1		1730
N01-3550-27/1		1730



N03

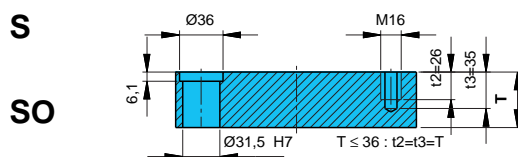
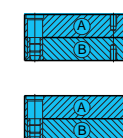
REF.	T	Mat.
N04-3550-26/1		1730
N04-3550-27/1		1730

REF.	T	Mat.
N03-3550-26/1		1730
N03-3550-27/1		1730



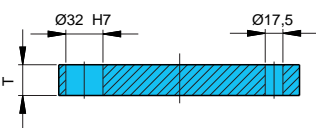
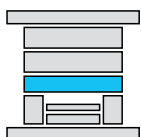
N10

REF.	Mat.	T ^A T ^B											
N10-3550-T/1	1730	26	36	46	56	66	76	86	96	106	126	146	
N10-3550-T/3	2312												
N10-3550-T/4	2162												
N10-3550-T/5	2344												
N10-3550-T/6	2767												
N10-3550-T/7	2311												
N10-3550-T/9	Impax												
N10-3550-T/10	Ramax												



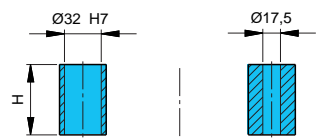
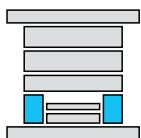
N15

REF.	Mat.	T ^A T ^B											
N15-3550-T/5	2344	26	36	46	56	66	76	86	96	106	126	146	
N15-3550-T/6	2767												



N20

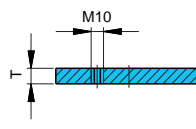
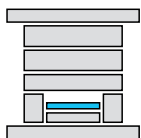
REF.	T	Mat.
N20-3550-46/1		1730



N30

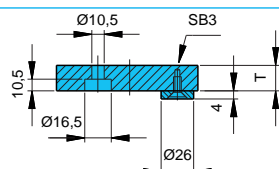
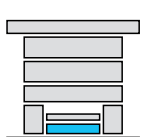
REF.	Mat.	H
N30-H-3550/1	1730	66 86 106

	S*
20	40 60



N40

REF.	T	Mat.
N40-16-3550/1		1730



N50

REF.	T	Mat.
N50-26-3550/1		1730

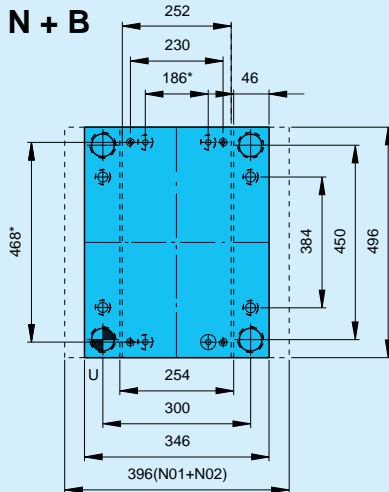
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

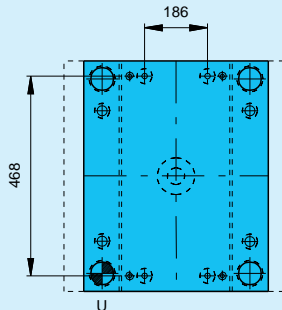
N 3550

(346 x 496 mm)

N + B

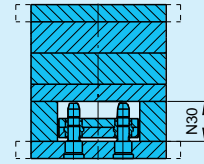


R + SF

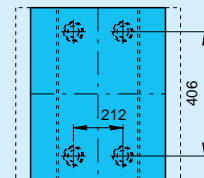


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

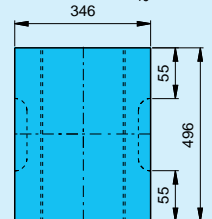
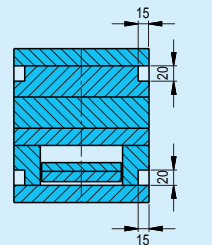
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



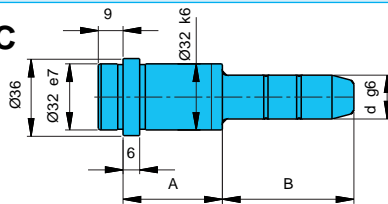
N30	FSN	FBC	GEB
66	20-26- 66	20-26	GEB 20-26
86	20-26- 86		
106	20-26-106		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

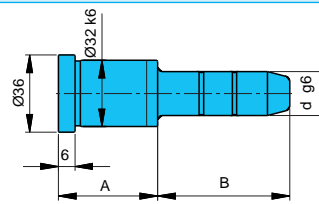


FSC



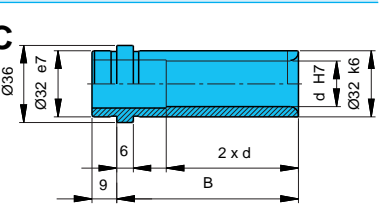
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

FSN



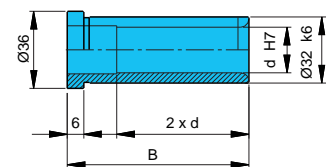
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

FBC



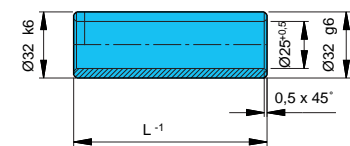
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



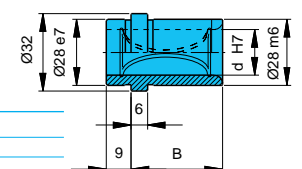
REF. d	B	REF. d	B
FBN 24- 26	- 36	FBN 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



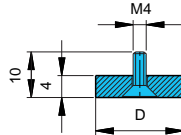
REF. L	REF. L
TD 32- 60	TD 32-120
-100	-140
	-160

GEB



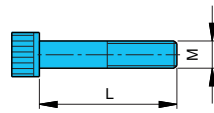
REF. B	REF. B
GEB 20-26	GEB 20-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 10 x 25	M 16 x 140
	x150
M 16 x 30	x160
x100	x180
x120	x200

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 3560

(346 x 596 mm)

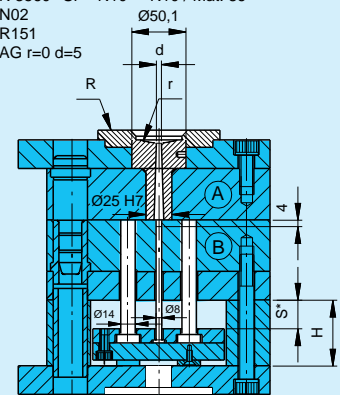
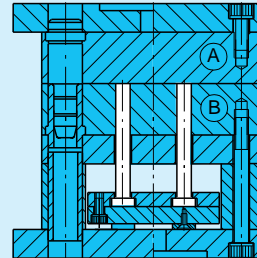
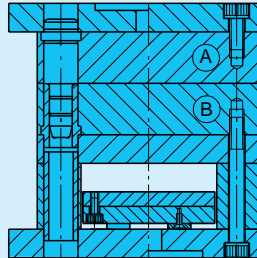
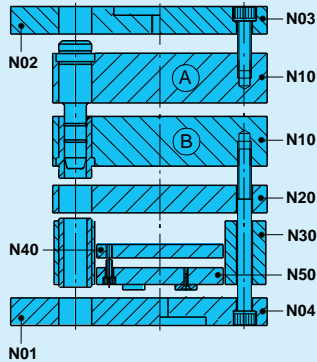
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 3560 N T^A T^B H
N01 N10 - N10 / Mat. 86

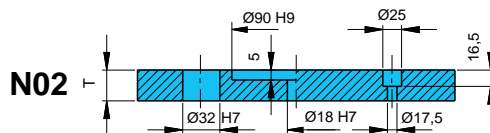
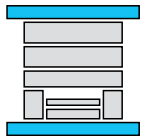
B
N 3560 B T^A T^B H
N01 N10 - N10 / Mat. 86

R
N 3560 R T^A T^B H
N01 N10 - N10 / Mat. 86

SF
N 3560 SF T^A T^B H
N02 N10 - N10 / Mat. 86
R151
AG r=0 d=5



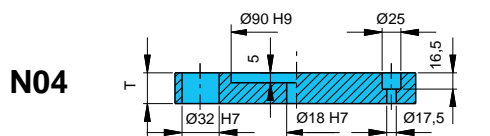
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-3560-26/1	1730	
N02-3560-27/1	1730	

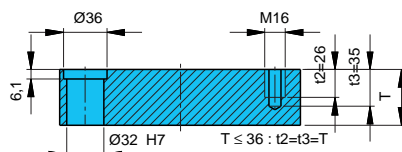
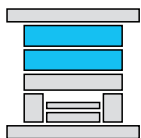
REF.	T	Mat.
N01-3560-26/1	1730	
N01-3560-27/1	1730	



N03

REF.	T	Mat.
N04-3560-26/1	1730	
N04-3560-27/1	1730	

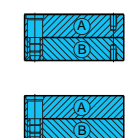
REF.	T	Mat.
N03-3560-26/1	1730	
N03-3560-27/1	1730	



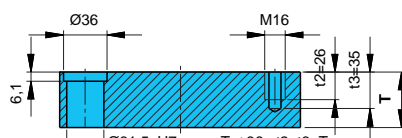
N10

REF.	Mat.	T ^A T ^B
N10-3560-T/1	1730	26 36 46 56 66 76 86 96 106 126 146
N10-3560-T/3	2312	
N10-3560-T/4	2162	
N10-3560-T/5	2344	
N10-3560-T/6	2767	
N10-3560-T/7	2311	
N10-3560-T/9	Impax	
N10-3560-T/10	Ramax	

T ^A T ^B	26	36	46	56	66	76	86	96	106	126	146
N10-3560-T/1											
N10-3560-T/3											
N10-3560-T/4											
N10-3560-T/5											
N10-3560-T/6											
N10-3560-T/7											
N10-3560-T/9											
N10-3560-T/10											



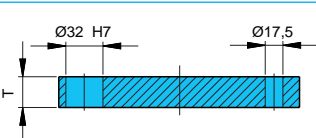
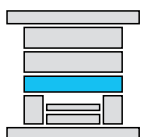
S



N15

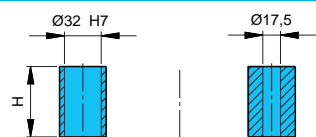
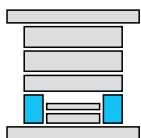
REF.	Mat.	T ^A T ^B
N15-3560-T/5	2344	26 36 46 56 66 76 86 96 106 126 146
N15-3560-T/6	2767	

T ^A T ^B	26	36	46	56	66	76	86	96	106	126	146
N15-3560-T/5											
N15-3560-T/6											



N20

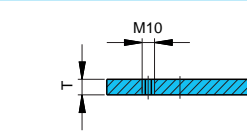
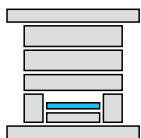
REF.	T	Mat.
N20-3560-46/1	1730	



N30

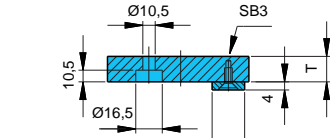
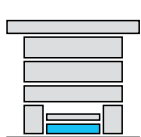
REF.	Mat.	H
N30-H-3560/1	1730	66 86 106

H	66	86	106
N30-H-3560/1			
S*	20	40	60
N30-H-3560/1			



N40

REF.	T	Mat.
N40-16-3560/1	1730	



N50

REF.	T	Mat.
N50-26-3560/1	1730	

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

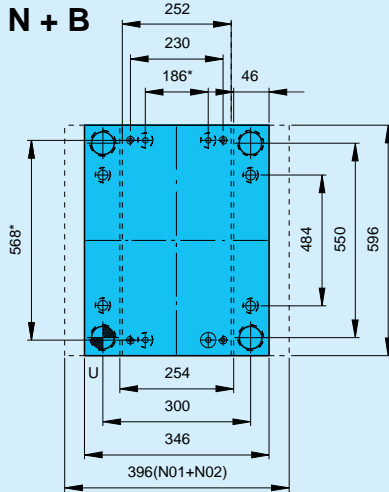
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

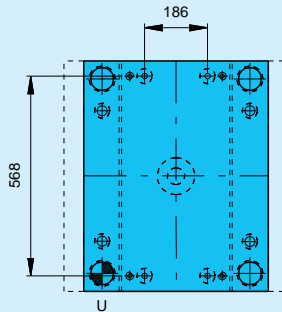
N 3560

(346 x 596 mm)

N + B

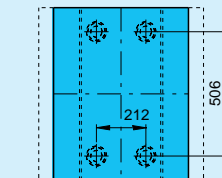
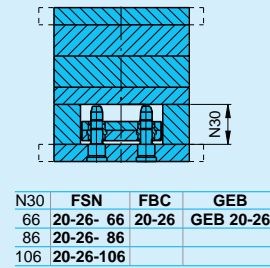


R + SF

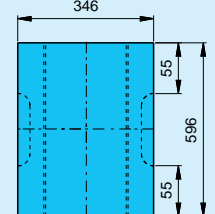
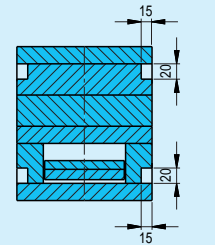


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

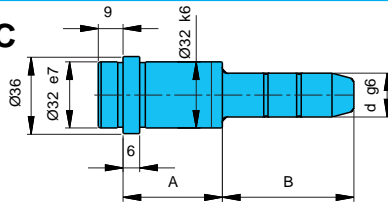
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

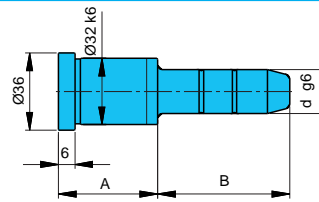


FSC



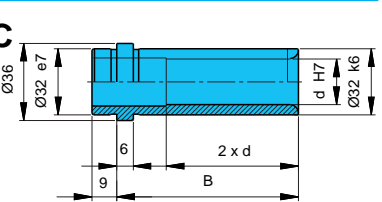
REF. d	A - B	REF. d	A - B
FSC 24- 26- 26	- 46	FSC 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-146	-146	-146	-146
-206	-206	-206	-206
FSC 24- 36- 26	- 36	FSC 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 46- 46	- 66	FSC 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
FSC 24- 56- 36	- 46	FSC 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-246	-246	-246	-246
FSC 24- 66- 46	- 66	FSC 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSC 24- 76- 56	- 76	FSC 23- 76- 56	- 76
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSC 24-106- 86	-146	FSC 23-106- 86	-146
-146	-146	-146	-146
FSC 24-126-126	-146	FSC 23-126-126	-146
-146	-146	-146	-146
FSC 24-146-146	-146	FSC 23-146-146	-146

FSN



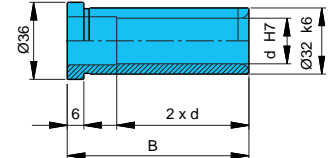
REF. d	A - B	REF. d	A - B
FSN 24- 26- 26	- 46	FSN 23- 26- 26	- 46
- 66	- 66	- 66	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 36- 26	- 36	FSN 23- 36- 26	- 36
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
FSN 24- 46- 46	- 66	FSN 23- 46- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 56- 36	- 46	FSN 23- 56- 36	- 46
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
FSN 24- 66- 46	- 66	FSN 23- 66- 46	- 66
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 76- 56	- 76	FSN 23- 76- 56	- 76
- 96	- 96	- 96	- 96
FSN 24- 86- 66	- 86	FSN 23- 86- 66	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106
FSN 24- 96- 56	- 76	FSN 23- 96- 56	- 76
- 96	- 96	- 96	- 96
FSN 24-106- 56	- 76	FSN 23-106- 56	- 76
- 86	- 86	- 86	- 86

FBC



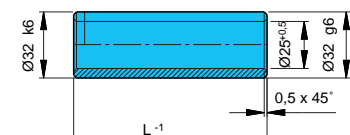
REF. d	B	REF. d	B
FBC 24- 26	- 36	FBC 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

FBN



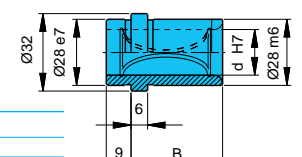
REF. d	B	REF. d	B
FBN 24- 26	- 36	FBN 23- 26	- 36
- 46	- 46	- 46	- 46
- 56	- 56	- 56	- 56
- 66	- 66	- 66	- 66
- 76	- 76	- 76	- 76
- 86	- 86	- 86	- 86
- 96	- 96	- 96	- 96
-106	-106	-106	-106

TD



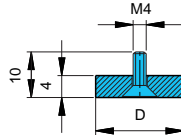
REF. L	REF. L
TD 32- 60	TD 32-120
-100	-140
	-160

GEB



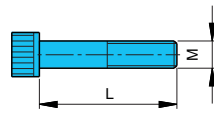
REF. B	REF. B
GEB 20-26	GEB 20-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 10 x 25	M 16 x 140
	x150
M 16 x 30	x160
x100	x180
x120	x200

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 4040

(396 x 396 mm)

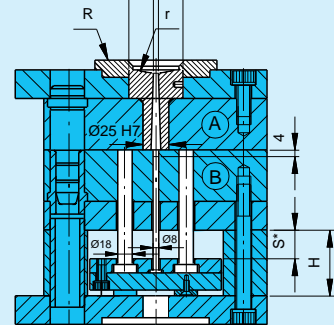
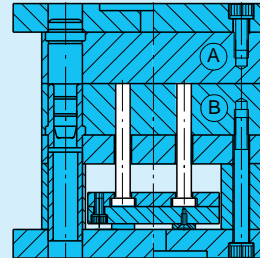
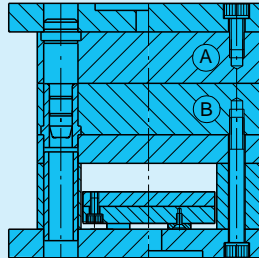
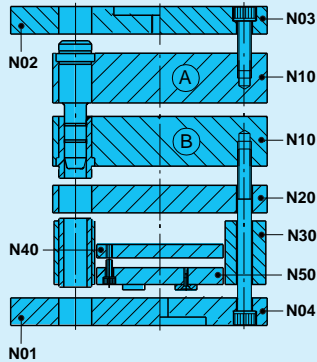
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 4040 N T^A T^B H
N01 N10 - N10 / Mat. 106

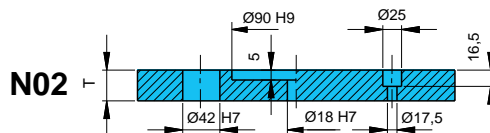
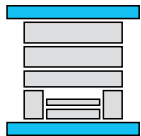
B
N 4040 B T^A T^B H
N01 N10 - N10 / Mat. 106

R
N 4040 R T^A T^B H
N01 N10 - N10 / Mat. 106

SF
N 4040 SF T^A T^B H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5

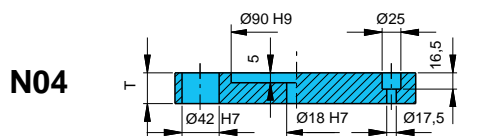


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



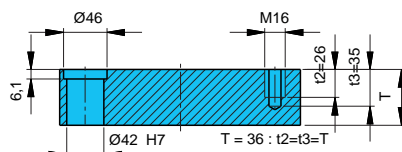
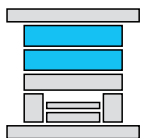
N01

REF.	T	Mat.	REF.	T	Mat.
N02-4040-36/1		1730	N01-4040-36/1		1730



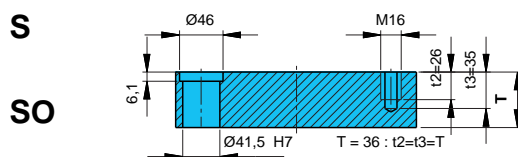
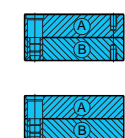
N03

REF.	T	Mat.	REF.	T	Mat.
N04-4040-36/1		1730	N03-4040-36/1		1730



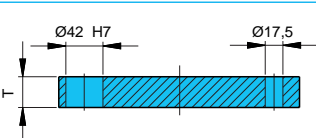
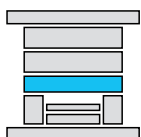
N10

REF.	Mat.	T ^A T ^B											
N10-4040-T/1	1730	26	36	56	76	96	106	126	146	166	186		
N10-4040-T/3	2312												
N10-4040-T/5	2344												
N10-4040-T/7	2311												
N10-4040-T/9	Impax												
N10-4040-T/10	Ramax												



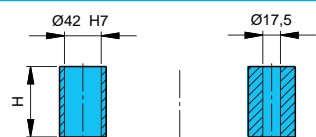
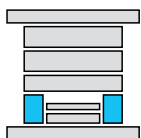
N15

REF.	Mat.	T ^A T ^B											
N15-4040-T/5	2344	26	36	56	76	96	106	126	146	166	186		



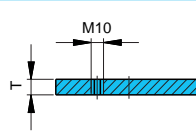
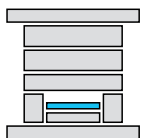
N20

REF.	T	Mat.
N20-4040-56/1		1730



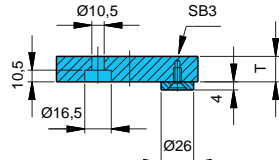
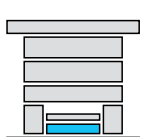
N30

REF.	Mat.	H			
N30-H-4040/1	1730	106	126		
		60	80		



N40

REF.	T	Mat.
N40-16-4040/1		1730



N50

REF.	T	Mat.
N50-26-4040/1		1730

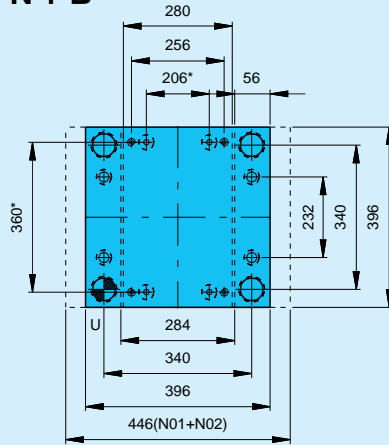
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

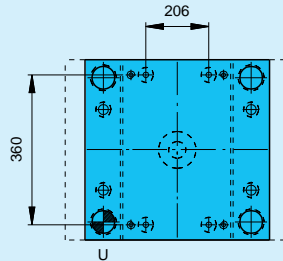
N 4040

(396 x 396 mm)

N + B

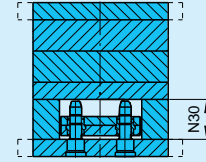


R + SF

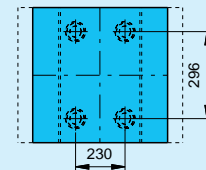


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

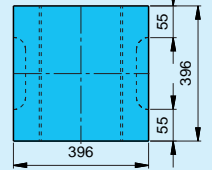
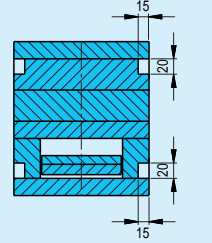
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



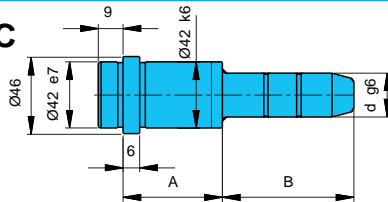
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

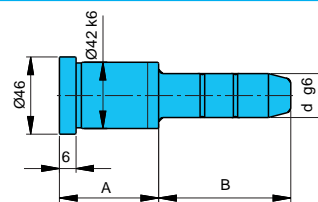


FSC



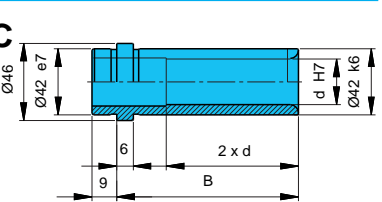
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	-106	FSC 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	-106	FSC 33-106- 76	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34-126- 86	-126	FSC 33-126- 86	-126
-126	-126	-126	-126
-146	-146	-146	-146
FSC 34-146- 86	-106	FSC 33-146- 86	-106
-106	-106	-106	-106
-166	-166	-166	-166
FSC 34-166-166	-166	FSC 33-166-166	-166
FSC 34-186-186	-186	FSC 33-186-186	-186
FSC 34-206-206	-206	FSC 33-206-206	-206

FSN



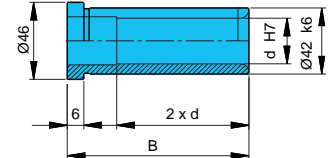
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 66	FSN 33- 56- 56	- 66
- 66	- 66	- 66	- 66
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	-106	FSN 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



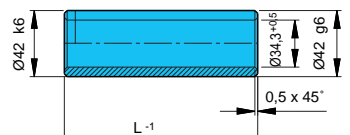
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



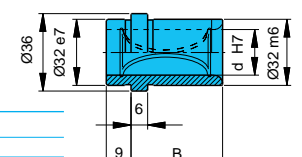
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



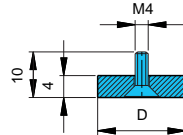
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



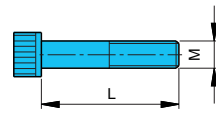
REF. B	REF. B
GEB 24-26	GEB 24-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 10 x 25	M 16 x 180
	x 210
M 16 x 35	x 240
x 150	

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 4045

(396 x 446 mm)

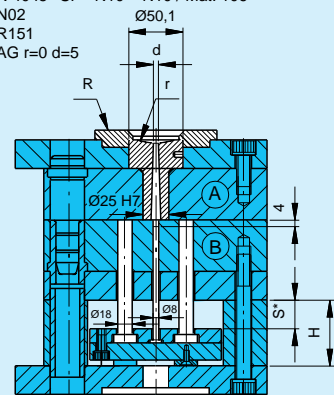
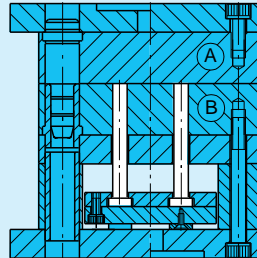
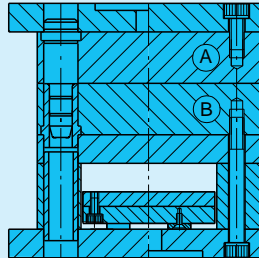
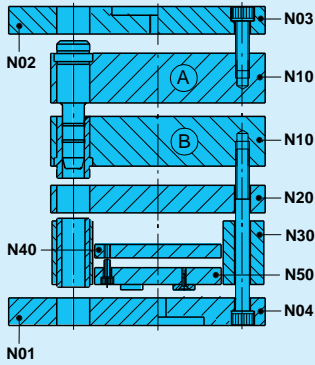
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 4045 N T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

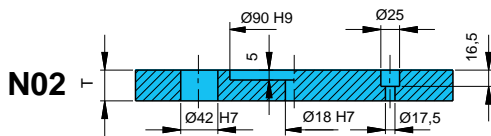
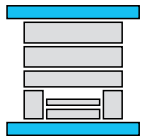
B
N 4045 B T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

R
N 4045 R T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

SF
N 4045 SF T[Ⓐ] T[Ⓑ] H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5

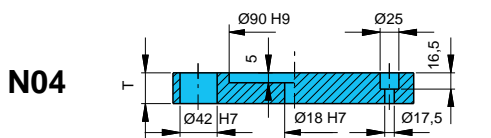


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



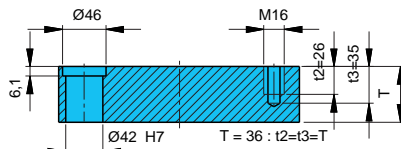
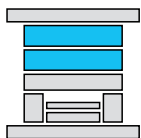
N01

REF.	T	Mat.	REF.	T	Mat.
N02-4045-36/1		1730	N01-4045-36/1		1730



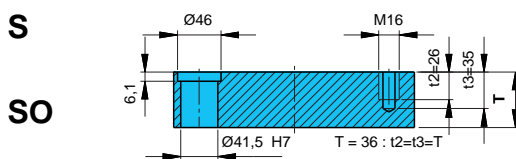
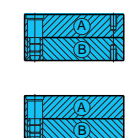
N03

REF.	T	Mat.	REF.	T	Mat.
N04-4045-36/1		1730	N03-4045-36/1		1730



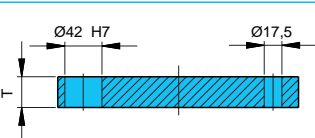
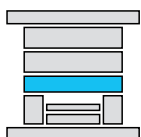
N10

REF.	Mat.	T [Ⓐ] T [Ⓑ]											
N10-4045-T/1	1730	26	36	56	76	96	106	126	146	166	186		
N10-4045-T/3	2312												
N10-4045-T/5	2344												
N10-4045-T/7	2311												
N10-4045-T/9	Impax												
N10-4045-T/10	Ramax												



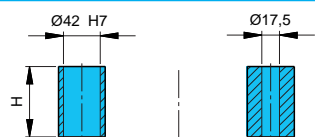
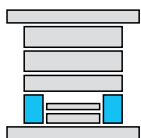
N15

REF.	Mat.	T [Ⓐ] T [Ⓑ]											
N15-4045-T/5	2344	26	36	56	76	96	106	126	146	166	186		



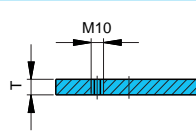
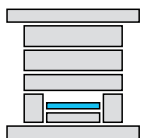
N20

REF.	T	Mat.
N20-4045-56/1		1730



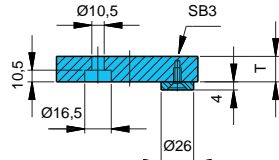
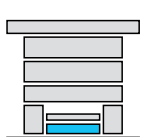
N30

REF.	Mat.	H			
N30-H-4045/1	1730	106	126		
		60	80		



N40

REF.	T	Mat.
N40-16-4045/1		1730



N50

REF.	T	Mat.
N50-26-4045/1		1730

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 4050

(396 x 496 mm)

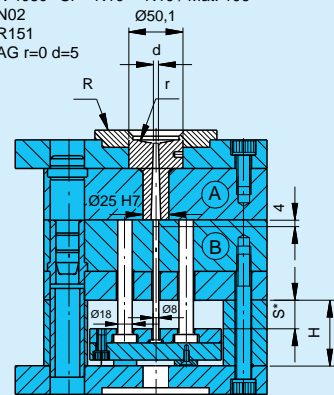
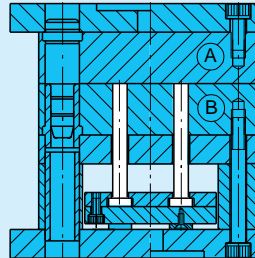
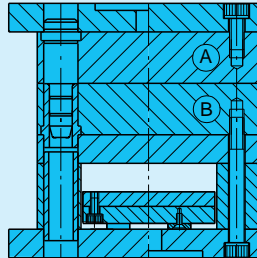
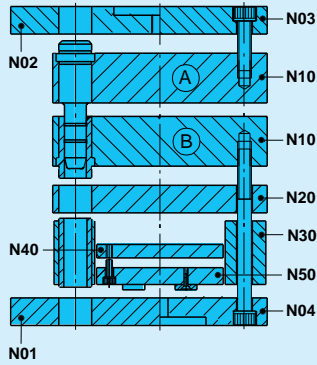
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 4050 N T^A T^B H
N01 N10 - N10 / Mat. 106

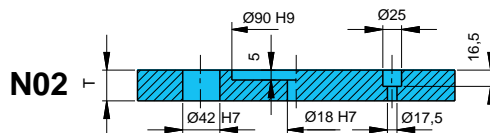
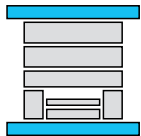
B
N 4050 B T^A T^B H
N01 N10 - N10 / Mat. 106

R
N 4050 R T^A T^B H
N01 N10 - N10 / Mat. 106

SF
N 4050 SF T^A T^B H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5

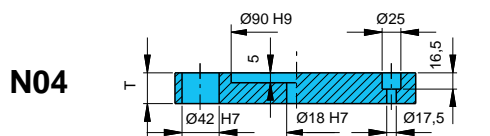


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



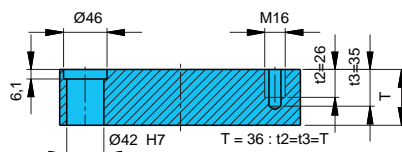
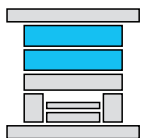
N01

REF.	T	Mat.	REF.	T	Mat.
N02-4050-36/1		1730	N01-4050-36/1		1730



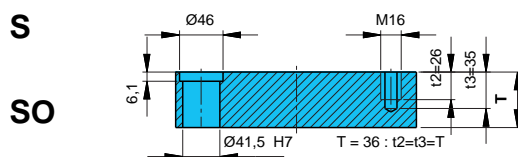
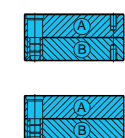
N03

REF.	T	Mat.	REF.	T	Mat.
N04-4050-36/1		1730	N03-4050-36/1		1730



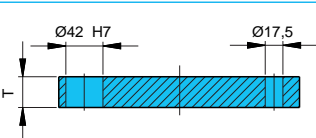
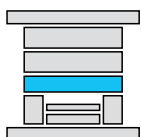
N10

REF.	Mat.	T ^A T ^B											
N10-4050-T/1	1730	26	36	56	76	96	106	126	146	166	186		
N10-4050-T/3	2312												
N10-4050-T/5	2344												
N10-4050-T/7	2311												
N10-4050-T/9	Impax												
N10-4050-T/10	Ramax												



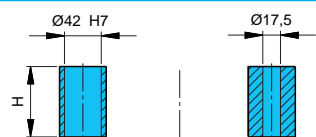
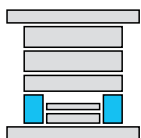
N15

REF.	Mat.	T ^A T ^B											
N15-4050-T/5	2344	26	36	56	76	96	106	126	146	166	186		



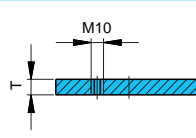
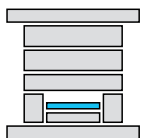
N20

REF.	T	Mat.
N20-4050-56/1		1730



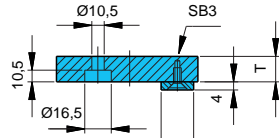
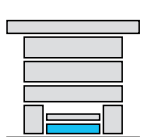
N30

REF.	Mat.	H			
N30-H-4050/1	1730	106	126		
		60	80		



N40

REF.	T	Mat.
N40-16-4050/1		1730



N50

REF.	T	Mat.
N50-26-4050/1		1730

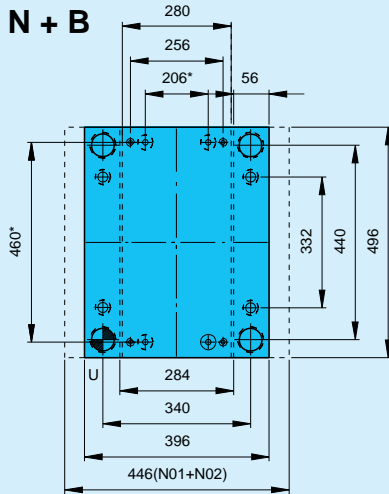
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

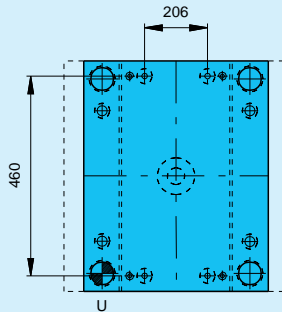
N 4050

(396 x 496 mm)

N + B

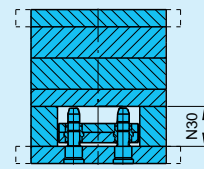


R + SF

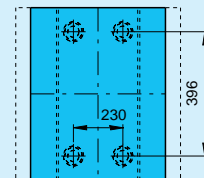


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

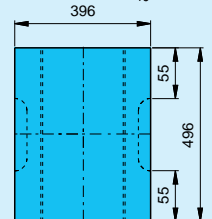
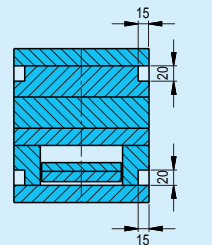
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



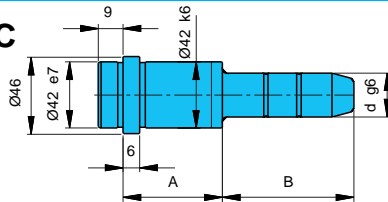
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

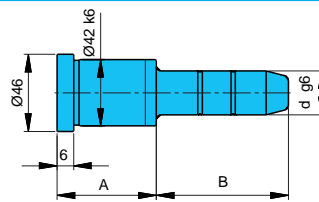


FSC



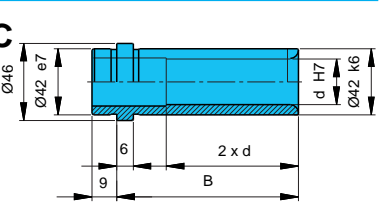
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	-106	FSC 33- 76- 66	-106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
-146	-146	-146	-146
FSC 34-106- 76	-106	FSC 33-106- 76	-106
-146	-146	-146	-146
FSC 34-126- 86	-126	FSC 33-126- 86	-126
-146	-146	-146	-146
FSC 34-146- 86	-106	FSC 33-146- 86	-106
-166	-166	-166	-166
FSC 34-166-166		FSC 33-166-166	
FSC 34-186-186		FSC 33-186-186	
FSC 34-206-206		FSC 33-206-206	

FSN



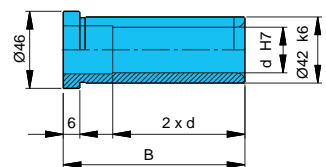
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
-126	-126	-126	-126
FSN 34- 76- 66	-106	FSN 33- 76- 66	-106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
-106	-106	-106	-106

FBC



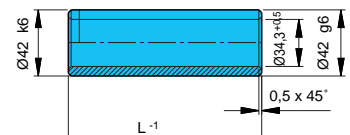
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



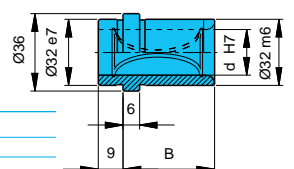
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



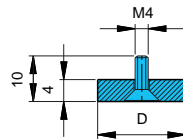
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



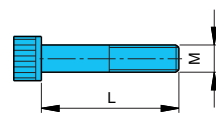
REF. B	REF. B
GEB 20-26	

SB



REF. D	REF. D
SB3 26	

M



REF. L	REF. L
M 10 x 25	M 16 x 180
	x 210
M 16 x 35	x 240
x 150	

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 4060

(396 x 596 mm)

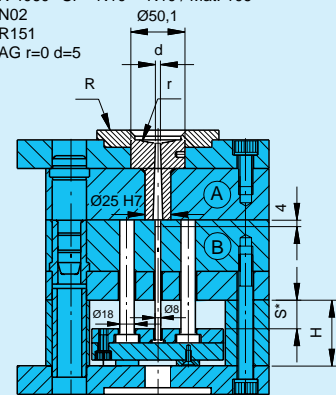
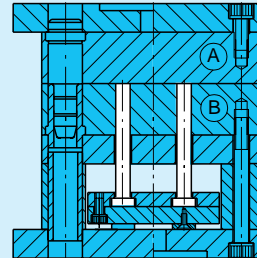
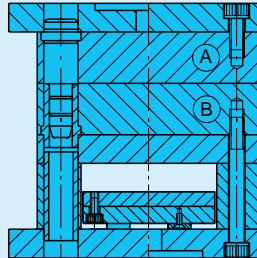
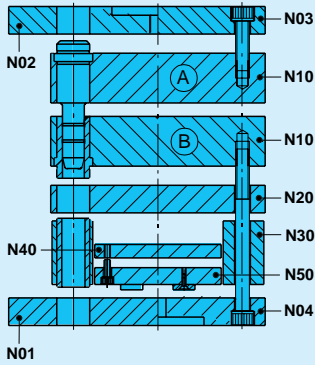
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 4060 N T^A T^B H
N01 N10 - N10 / Mat. 106

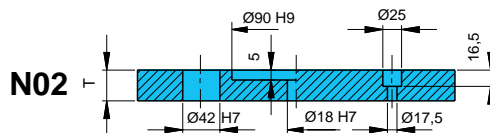
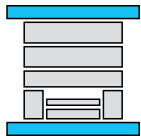
B
N 4060 B T^A T^B H
N01 N10 - N10 / Mat. 106

R
N 4060 R T^A T^B H
N01 N10 - N10 / Mat. 106

SF
N 4060 SF T^A T^B H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5

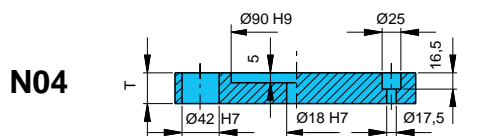


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



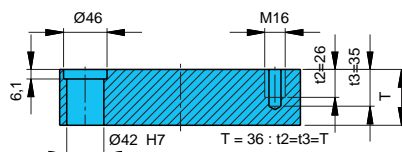
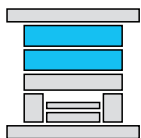
N01

REF.	T	Mat.	REF.	T	Mat.
N02-4060-36/1		1730	N01-4060-36/1		1730



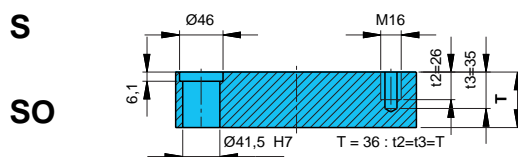
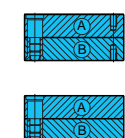
N03

REF.	T	Mat.	REF.	T	Mat.
N04-4060-36/1		1730	N03-4060-36/1		1730



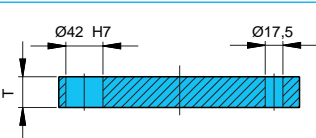
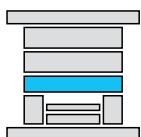
N10

REF.	Mat.	T ^A T ^B											
N10-4060-T/1	1730	26	36	56	76	96	106	126	146	166	186		
N10-4060-T/3	2312												
N10-4060-T/5	2344												
N10-4060-T/7	2311												
N10-4060-T/9	Impax												
N10-4060-T/10	Ramax												



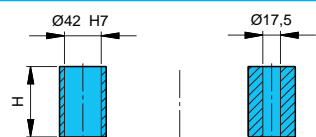
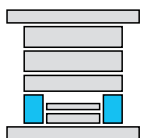
N15

REF.	Mat.	T ^A T ^B											
N15-4060-T/5	2344	26	36	56	76	96	106	126	146	166	186		



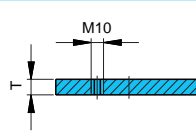
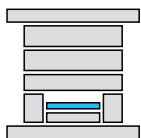
N20

REF.	T	Mat.
N20-4060-56/1		1730



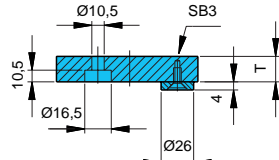
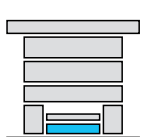
N30

REF.	Mat.	H
N30-H-4060/1	1730	106 126
		60 80



N40

REF.	T	Mat.
N40-16-4060/1		1730



N50

REF.	T	Mat.
N50-26-4060/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

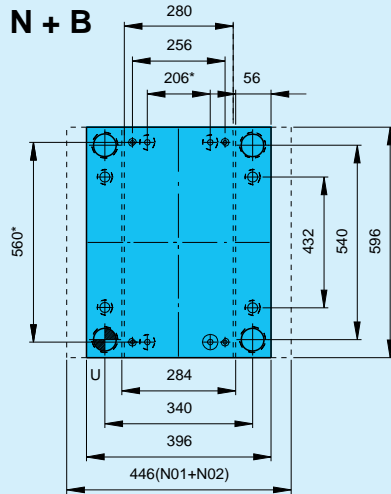
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

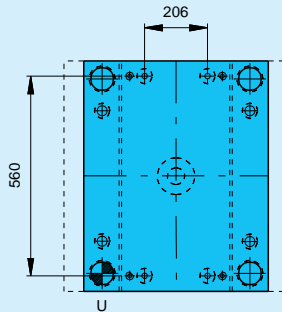
N 4060

(396 x 596 mm)

N + B

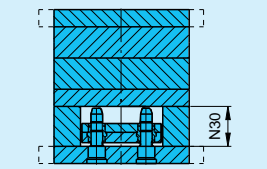


R + SF

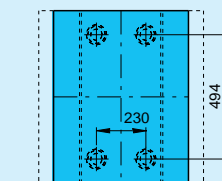


* Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

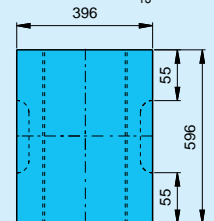
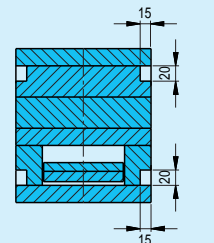
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



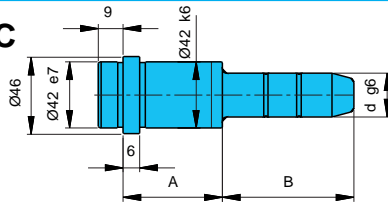
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

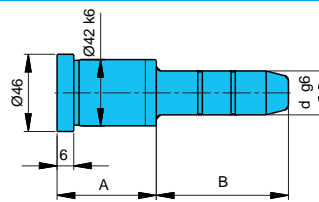


FSC



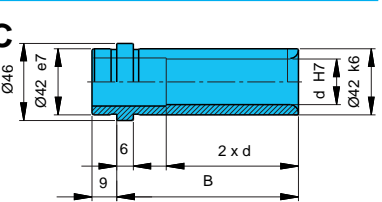
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	-106	FSC 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	-106	FSC 33-106- 76	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34-126- 86	-126	FSC 33-126- 86	-126
-126	-126	-126	-126
-146	-146	-146	-146
FSC 34-146- 86	-106	FSC 33-146- 86	-106
-106	-106	-106	-106
-166	-166	-166	-166
FSC 34-166-166		FSC 33-166-166	
FSC 34-186-186		FSC 33-186-186	
FSC 34-206-206		FSC 33-206-206	

FSN



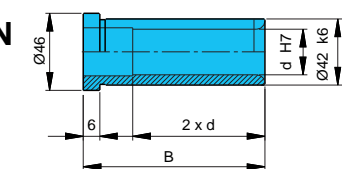
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	-106	FSN 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



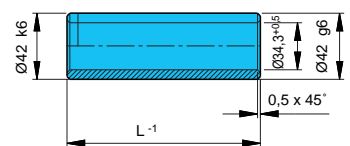
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



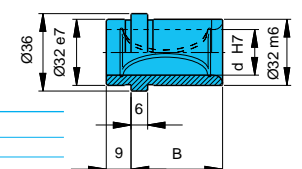
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



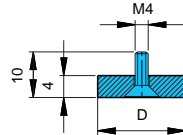
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



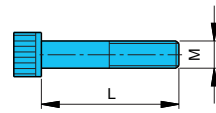
REF. B	REF. B
GEB 24-26	

SB



REF. D	REF. D
SB3 26	

M



REF. L	REF. L
M 10 x 25	M 16 x 180
	x 210
M 16 x 35	x 240
x 150	

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 4545

(446 x 446 mm)

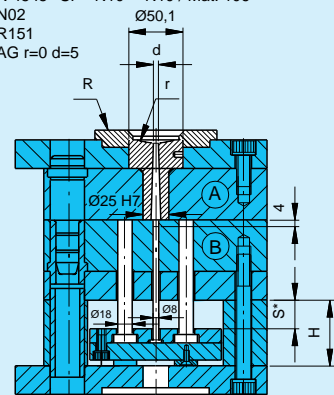
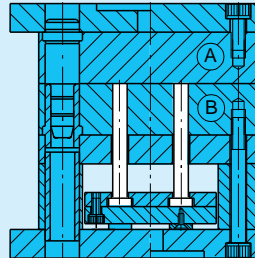
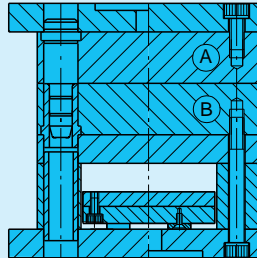
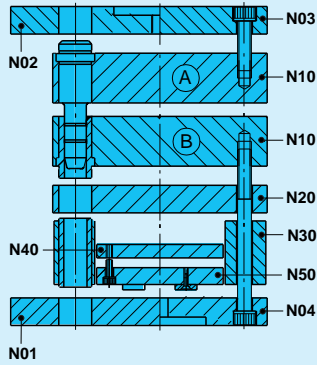
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 4545 N T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

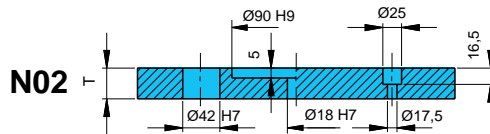
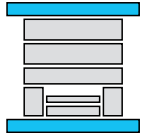
B
N 4545 B T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

R
N 4545 R T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

SF
N 4545 SF T[Ⓐ] T[Ⓑ] H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5

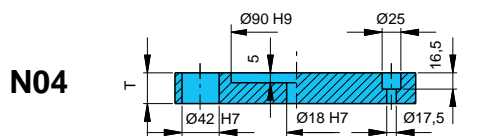


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



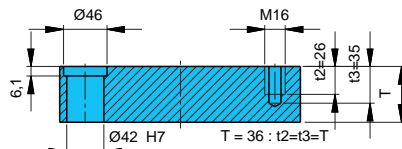
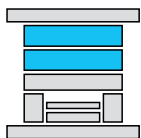
N01

REF.	T	Mat.	REF.	T	Mat.
N02-4545-36/1		1730	N01-4545-36/1		1730



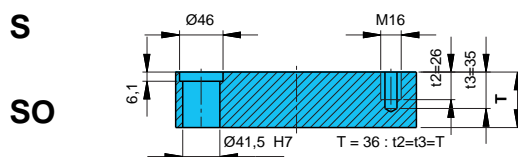
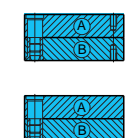
N03

REF.	T	Mat.	REF.	T	Mat.
N04-4545-36/1		1730	N03-4545-36/1		1730



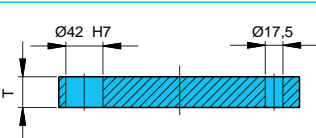
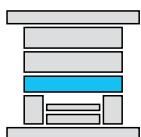
N10

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N10-4545-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-4545-T/3	2312										
N10-4545-T/5	2344										
N10-4545-T/7	2311										
N10-4545-T/9	Impax										
N10-4545-T/10	Ramax										



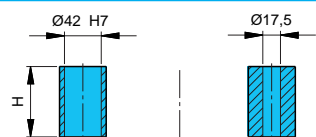
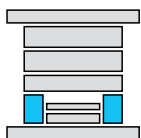
N15

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N15-4545-T/5	2344	36	56	76	96	106	126	146	166	186	206



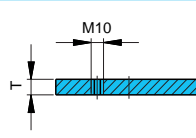
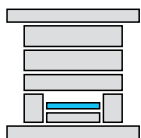
N20

REF.	T	Mat.
N20-4545-56/1		1730



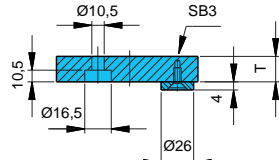
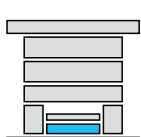
N30

REF.	Mat.	H
N30-H-4545/1	1730	106
		126
		56
		76



N40

REF.	T	Mat.
N40-20-4545/1		1730



N50

REF.	T	Mat.
N50-26-4545/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

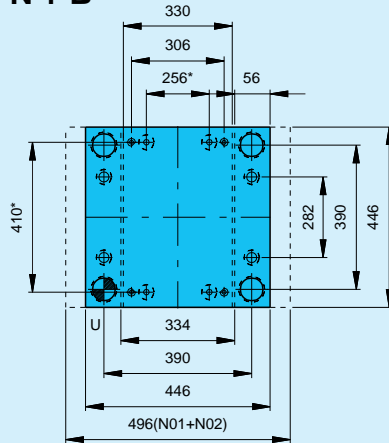
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

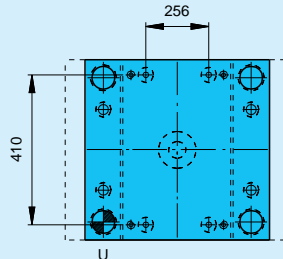
N 4545

(446 x 446 mm)

N + B

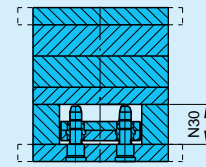


R + SF

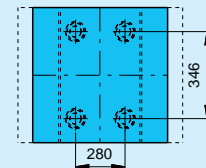


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

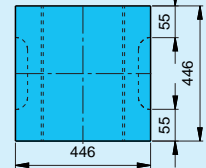
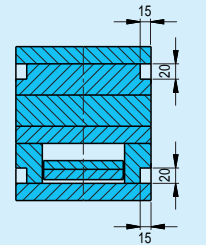
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



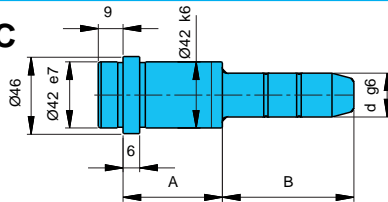
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

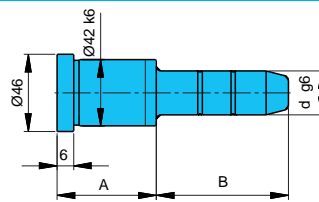


FSC



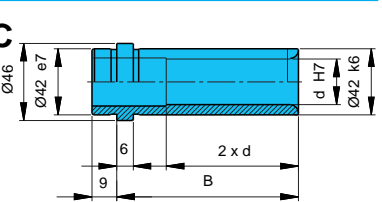
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	- 106	FSC 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	- 106	FSC 33-106- 76	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34-126- 86	- 126	FSC 33-126- 86	- 126
- 126	- 126	- 126	- 126
-146	-146	-146	-146
FSC 34-146- 86	- 106	FSC 33-146- 86	- 106
- 106	- 106	- 106	- 106
-166	-166	-166	-166
FSC 34-166-166	- 166	FSC 33-166-166	- 166
FSC 34-186-186	- 186	FSC 33-186-186	- 186
FSC 34-206-206	- 206	FSC 33-206-206	- 206

FSN



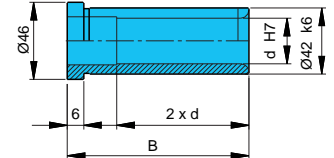
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	- 106	FSN 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



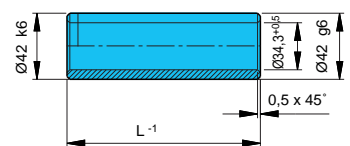
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



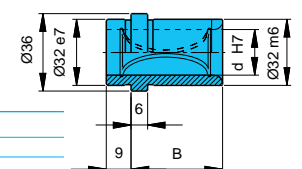
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



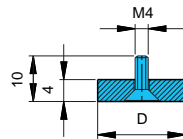
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



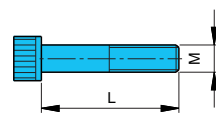
REF. B	REF. B
GEB 24-26	GEB 24-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 10 x 25	M 16 x 180
	x 210
M 16 x 35	x 240
x 150	

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 4550

(446 x 496 mm)

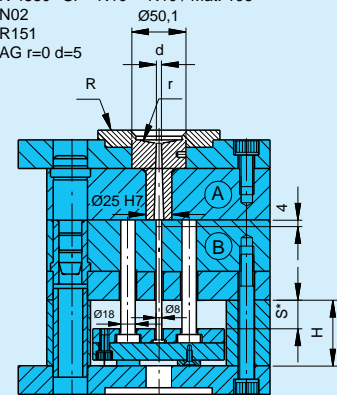
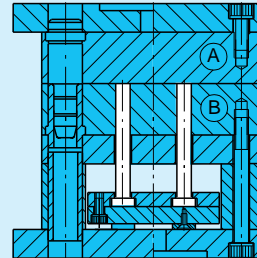
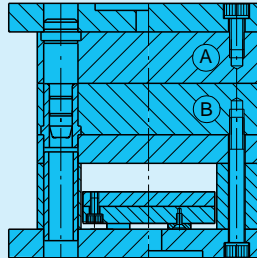
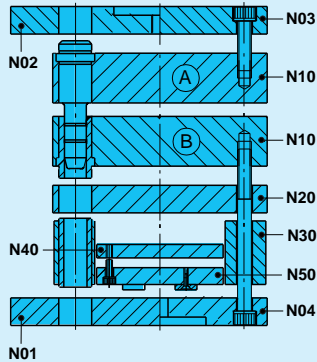
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 4550 N T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

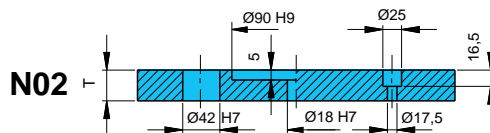
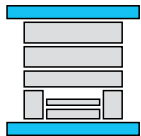
B
N 4550 B T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

R
N 4550 R T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

SF
N 4550 SF T[Ⓐ] T[Ⓑ] H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5

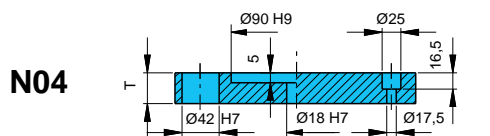


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



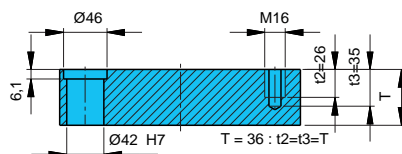
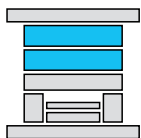
N01

REF.	T	Mat.	REF.	T	Mat.
N02-4550-36/1		1730	N01-4550-36/1		1730



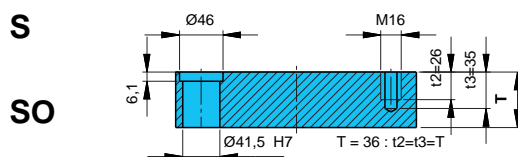
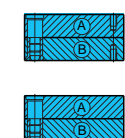
N03

REF.	T	Mat.	REF.	T	Mat.
N04-4550-36/1		1730	N03-4550-36/1		1730



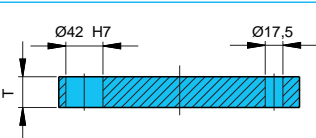
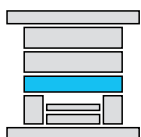
N10

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N10-4550-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-4550-T/3	2312										
N10-4550-T/5	2344										
N10-4550-T/7	2311										
N10-4550-T/9	Impax										
N10-4550-T/10	Ramax										



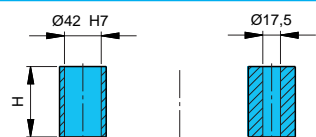
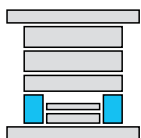
N15

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N15-4550-T/5	2344	36	56	76	96	106	126	146	166	186	206



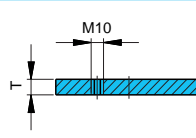
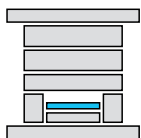
N20

REF.	T	Mat.
N20-4550-56/1		1730



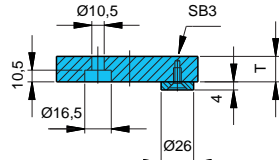
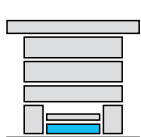
N30

REF.	Mat.	H	
N30-H-4550/1	1730	106	126
		56	76



N40

REF.	T	Mat.
N40-20-4550/1		1730



N50

REF.	T	Mat.
N50-26-4550/1		1730

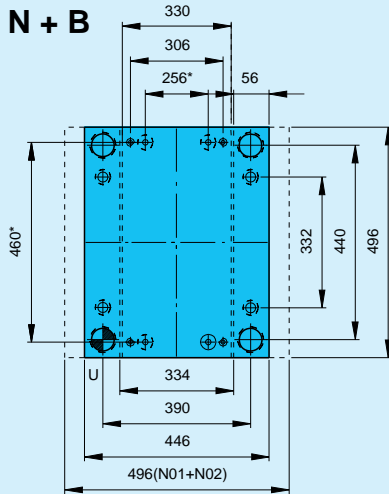
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

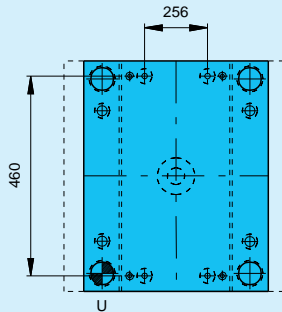
N 4550

(446 x 496 mm)

N + B

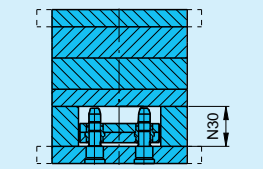


R + SF

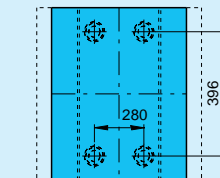


* Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

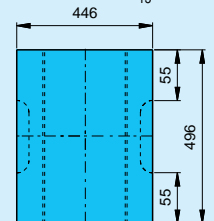
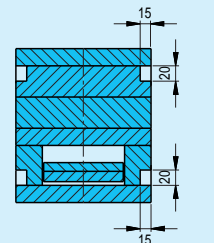
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



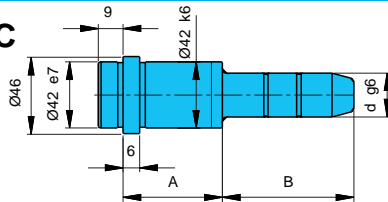
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

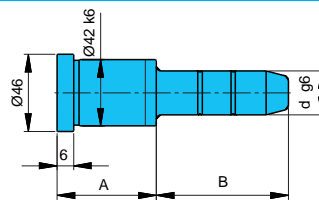


FSC



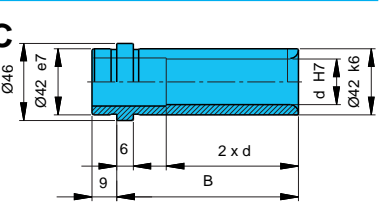
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46		FSC 33- 36- 46	
- 66		- 66	
- 86		- 86	
-126		-126	
-186		-186	
-246		-246	
FSC 34- 56- 66		FSC 33- 56- 66	
- 96		- 96	
-126		-126	
-166		-166	
-206		-206	
-246		-246	
FSC 34- 76- 66		FSC 33- 76- 66	
-106		-106	
-146		-146	
FSC 34- 96- 66		FSC 33- 96- 66	
- 96		- 96	
-146		-146	
FSC 34-106- 76		FSC 33-106- 76	
-106		-106	
-146		-146	
FSC 34-126- 86		FSC 33-126- 86	
-126		-126	
-146		-146	
FSC 34-146- 86		FSC 33-146- 86	
-106		-106	
-166		-166	
FSC 34-166-166		FSC 33-166-166	
FSC 34-186-186		FSC 33-186-186	
FSC 34-206-206		FSC 33-206-206	

FSN



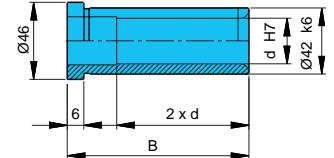
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46		FSN 33- 36- 46	
- 66		- 66	
- 86		- 86	
-126		-126	
FSN 34- 56- 56		FSN 33- 56- 56	
- 96		- 96	
-126		-126	
FSN 34- 76- 66		FSN 33- 76- 66	
-106		-106	
-146		-146	
FSN 34- 96- 66		FSN 33- 96- 66	
- 96		- 96	
-146		-146	
FSN 34-106- 56		FSN 33-106- 56	
- 76		- 76	
-106		-106	
-146		-146	
FSN 34-126- 56		FSN 33-126- 56	
- 86		- 86	
-126		-126	
-146		-146	
FSN 34-146- 56		FSN 33-146- 56	
- 86		- 86	
-106		-106	

FBC



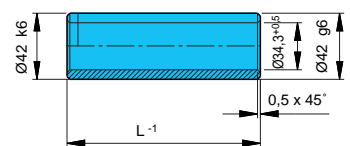
REF. d	B	REF. d	B
FBC 34- 36		FBC 33- 36	
- 56		- 56	
- 76		- 76	
- 96		- 96	
-106		-106	
-126		-126	
-146		-146	
-166		-166	
-186		-186	
-206		-206	

FBN



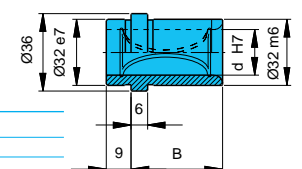
REF. d	B	REF. d	B
FBN 34- 36		FBN 33- 36	
- 56		- 56	
- 76		- 76	
- 96		- 96	
-106		-106	
-126		-126	
-146		-146	

TD



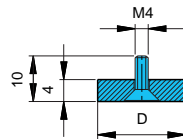
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



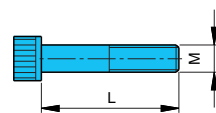
REF. B	REF. B
GEB 24-26	

SB



REF. D	REF. D
SB3 26	

M



REF. L	REF. L
M 10 x 25	M 16 x 180
	x 210
M 16 x 35	x 240
x 150	

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 4560

(446 x 596 mm)

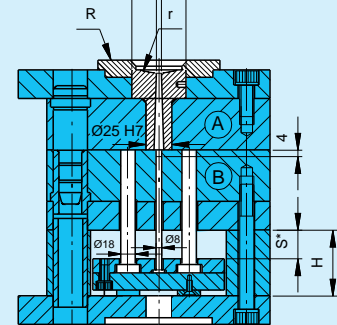
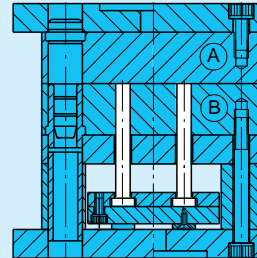
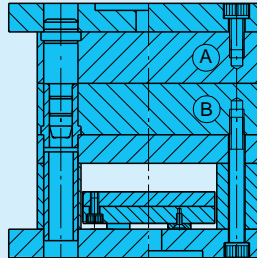
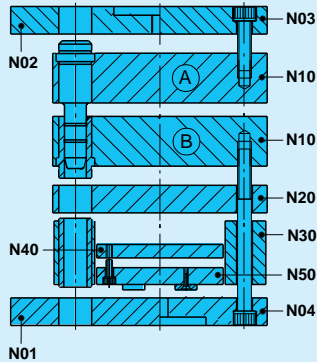
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 4560 N T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

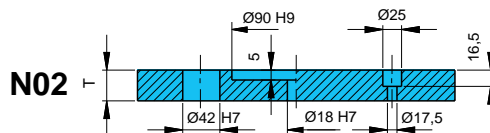
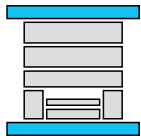
B
N 4560 B T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

R
N 4560 R T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

SF
N 4560 SF T[Ⓐ] T[Ⓑ] H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5

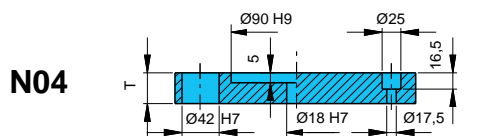


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



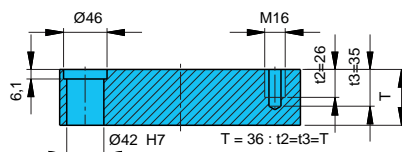
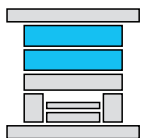
N01

REF.	T	Mat.	REF.	T	Mat.
N02-4560-36/1		1730	N01-4560-36/1		1730



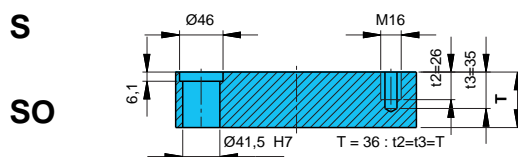
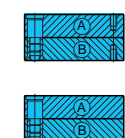
N03

REF.	T	Mat.	REF.	T	Mat.
N04-4560-36/1		1730	N03-4560-36/1		1730



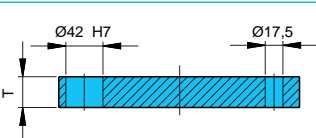
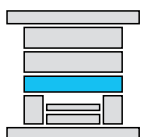
N10

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N10-4560-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-4560-T/3	2312										
N10-4560-T/5	2344										
N10-4560-T/7	2311										
N10-4560-T/9	Impax										
N10-4560-T/10	Ramax										



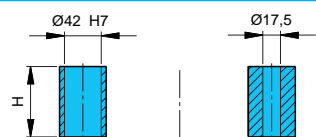
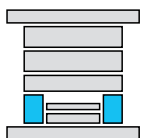
N15

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N15-4560-T/5	2344	36	56	76	96	106	126	146	166	186	206



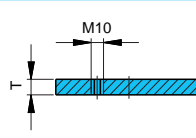
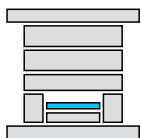
N20

REF.	T	Mat.
N20-4560-56/1		1730



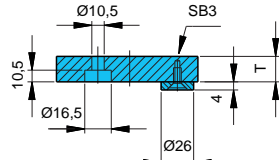
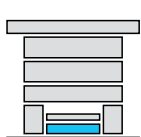
N30

REF.	Mat.	H
N30-H-4560/1	1730	106
		126
		56
		76



N40

REF.	T	Mat.
N40-20-4560/1		1730



N50

REF.	T	Mat.
N50-26-4560/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

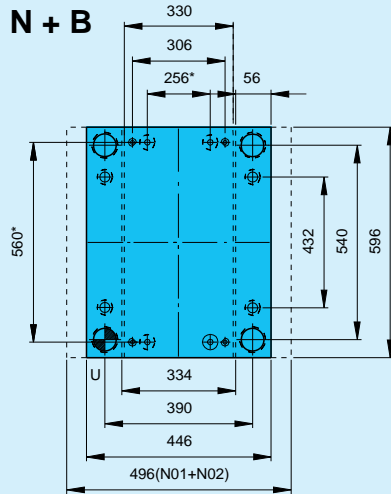
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

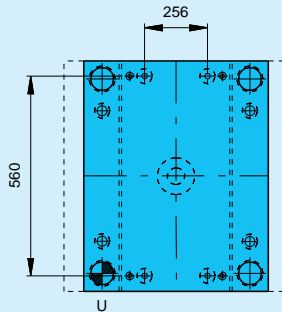
N 4560

(446 x 596 mm)

N + B

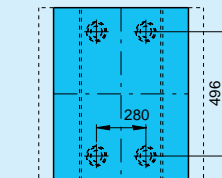
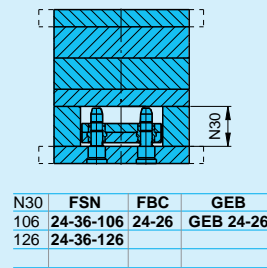


R + SF

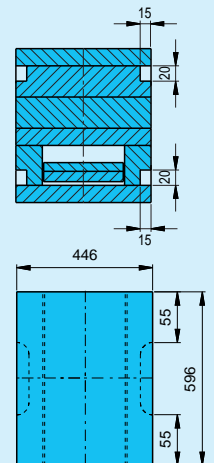


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

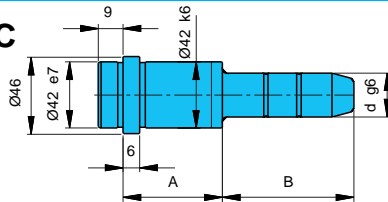
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

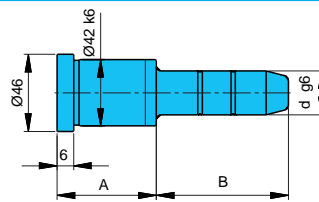


FSC



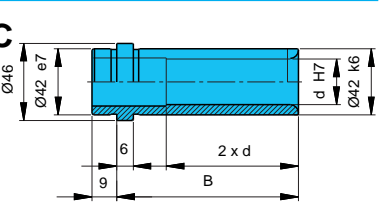
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	- 106	FSC 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	- 106	FSC 33-106- 76	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34-126- 86	- 126	FSC 33-126- 86	- 126
- 126	- 126	- 126	- 126
-146	-146	-146	-146
FSC 34-146- 86	- 106	FSC 33-146- 86	- 106
- 106	- 106	- 106	- 106
-166	-166	-166	-166
FSC 34-166-166	- 166	FSC 33-166-166	- 166
FSC 34-186-186	- 186	FSC 33-186-186	- 186
FSC 34-206-206	- 206	FSC 33-206-206	- 206

FSN



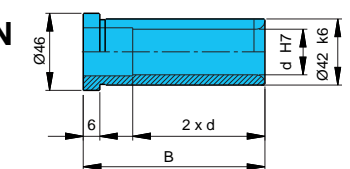
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	- 106	FSN 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



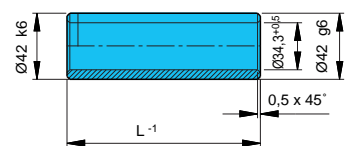
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



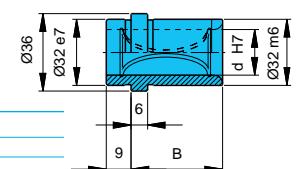
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



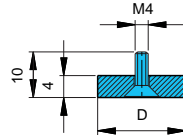
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



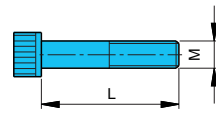
REF. B	REF. B
GEB 24-26	GEB 24-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 10 x 25	M 16 x 180
M 16 x 35	x 210
x 150	x 240

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 4570

(446 x 696 mm)

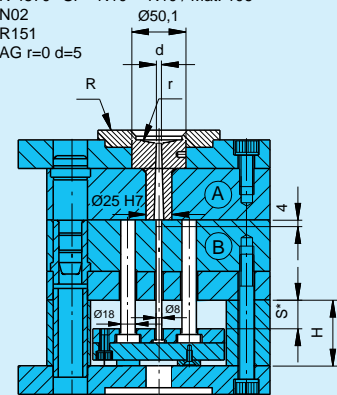
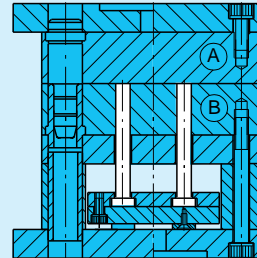
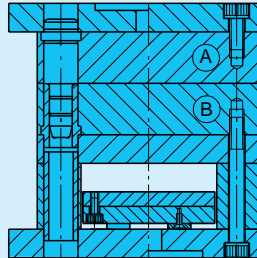
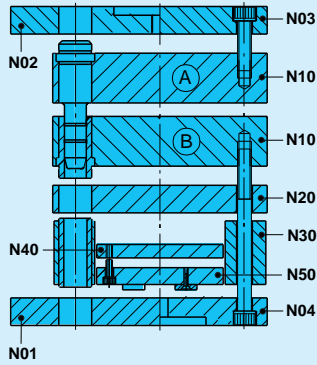
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 4570 N T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

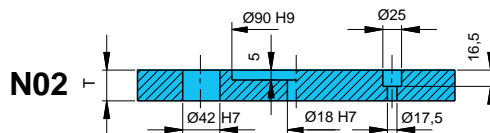
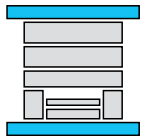
B
N 4570 B T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

R
N 4570 R T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

SF
N 4570 SF T[Ⓐ] T[Ⓑ] H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5



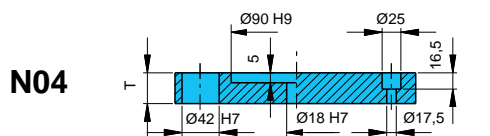
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-4570-36/1		1730

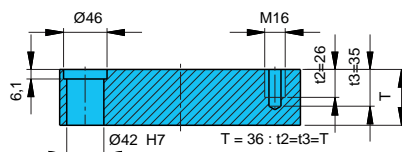
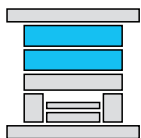
REF.	T	Mat.
N01-4570-36/1		1730



N03

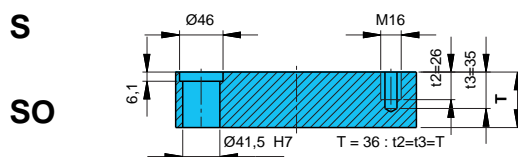
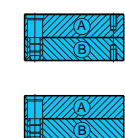
REF.	T	Mat.
N04-4570-36/1		1730

REF.	T	Mat.
N03-4570-36/1		1730



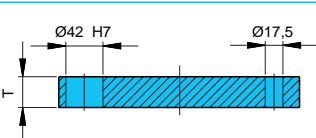
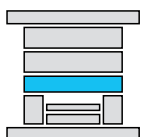
N10

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N10-4570-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-4570-T/3	2312										
N10-4570-T/5	2344										
N10-4570-T/7	2311										
N10-4570-T/9	Impax										
N10-4570-T/10	Ramax										



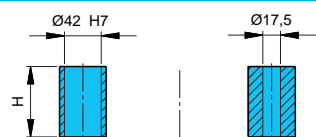
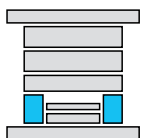
N15

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N15-4570-T/5	2344	36	56	76	96	106	126	146	166	186	206



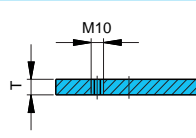
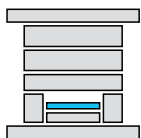
N20

REF.	T	Mat.
N20-4570-56/1		1730



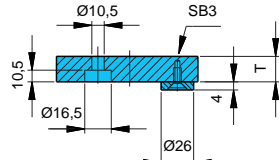
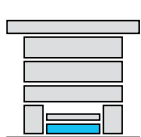
N30

REF.	Mat.	H	
N30-H-4570/1	1730	106	126
		56	76



N40

REF.	T	Mat.
N40-20-4570/1		1730



N50

REF.	T	Mat.
N50-26-4570/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

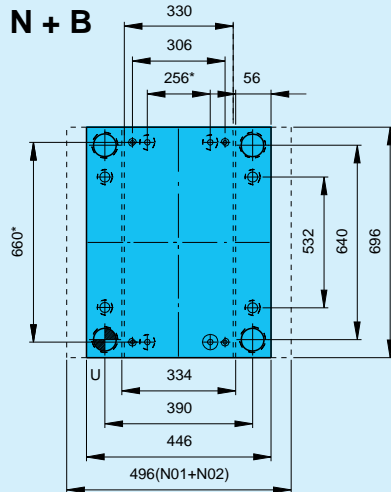
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

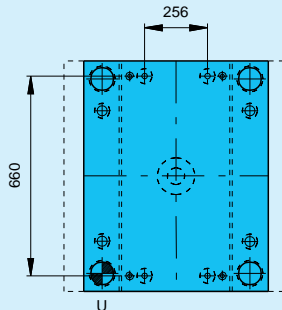
N 4570

(446 x 696 mm)

N + B

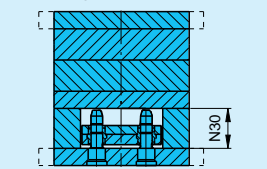


R + SF

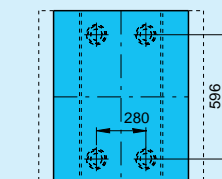


* Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

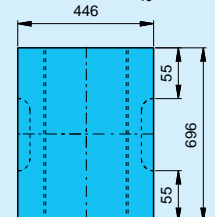
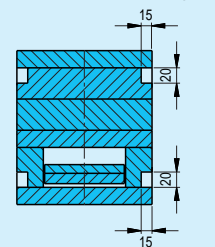
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



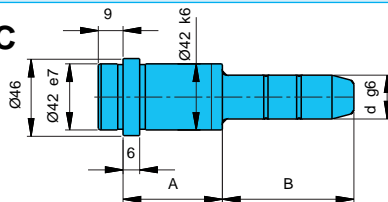
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

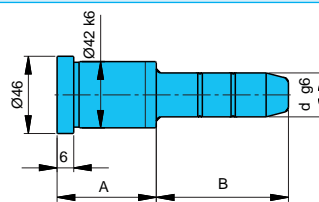


FSC



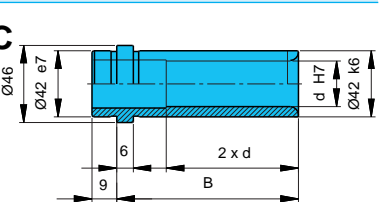
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	- 106	FSC 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	- 106	FSC 33-106- 76	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34-126- 86	- 126	FSC 33-126- 86	- 126
- 126	- 126	- 126	- 126
-146	-146	-146	-146
FSC 34-146- 86	- 106	FSC 33-146- 86	- 106
- 106	- 106	- 106	- 106
-166	-166	-166	-166
FSC 34-166-166	- 166	FSC 33-166-166	- 166
FSC 34-186-186	- 186	FSC 33-186-186	- 186
FSC 34-206-206	- 206	FSC 33-206-206	- 206

FSN



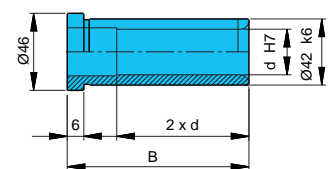
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	- 106	FSN 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



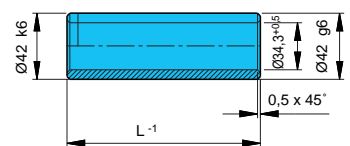
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



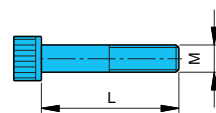
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



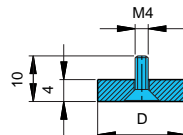
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

M



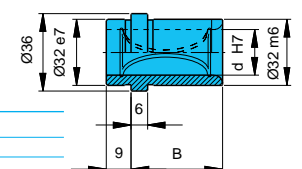
REF. L	REF. L
M 10 x 25	M 16 x 35
	x150
	x180
	x210
	x240

SB



REF. D
SB3 26

GEB



REF. B
GEB 24-26

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 4580

(446 x 796 mm)

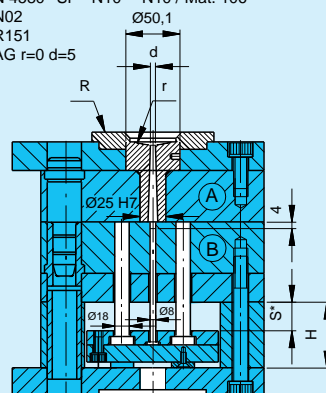
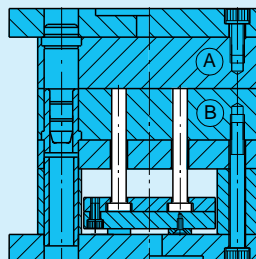
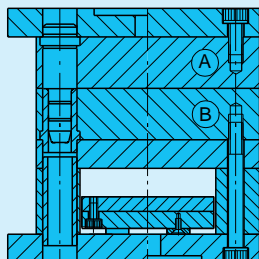
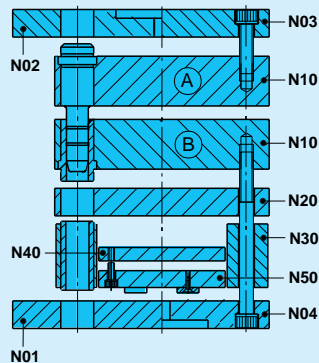
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 4580 N T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

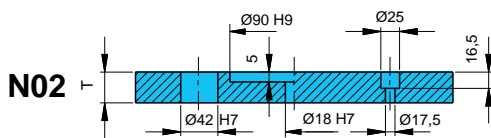
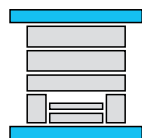
B
N 4580 B T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

R
N 4580 R T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 106

SF
N 4580 SF T[Ⓐ] T[Ⓑ] H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5



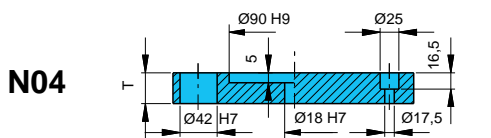
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-4580-36/1		1730

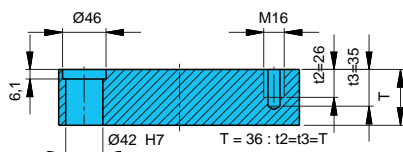
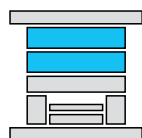
REF.	T	Mat.
N01-4580-36/1		1730



N03

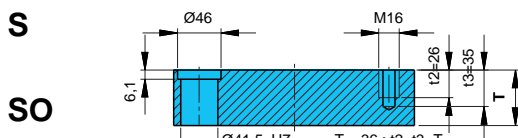
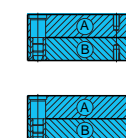
REF.	T	Mat.
N04-4580-36/1		1730

REF.	T	Mat.
N03-4580-36/1		1730



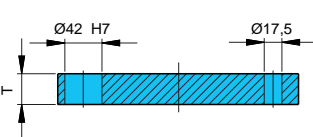
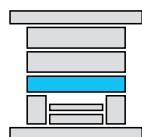
N10

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N10-4580-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-4580-T/3	2312										
N10-4580-T/5	2344										
N10-4580-T/7	2311										
N10-4580-T/9	Impax										
N10-4580-T/10	Ramax										



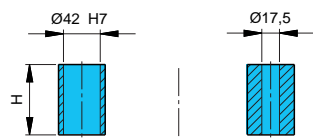
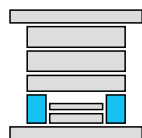
N15

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N15-4580-T/5	2344	36	56	76	96	106	126	146	166	186	206



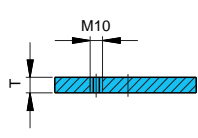
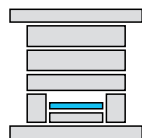
N20

REF.	T	Mat.
N20-4580-56/1		1730



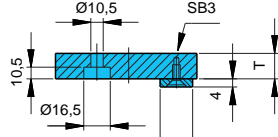
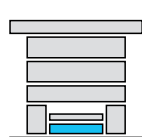
N30

REF.	Mat.	H	
N30-H-4580/1	1730	106	126
		56	76



N40

REF.	T	Mat.
N40-20-4580/1		1730



N50

REF.	T	Mat.
N50-26-4580/1		1730

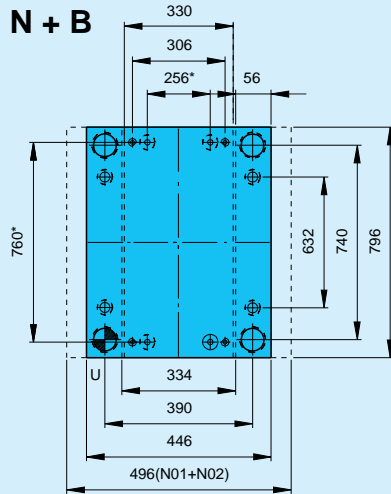
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

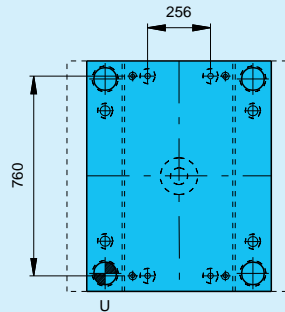
N 4580

(446 x 796 mm)

N + B

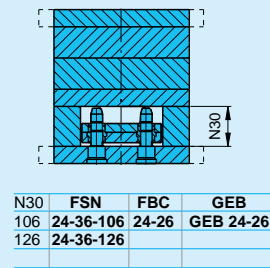


R + SF

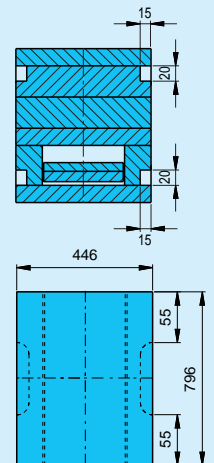


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

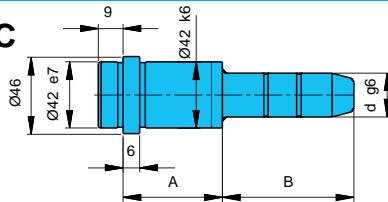
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

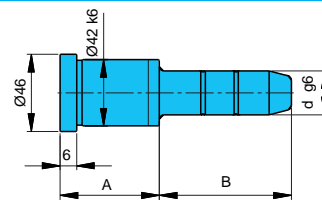


FSC



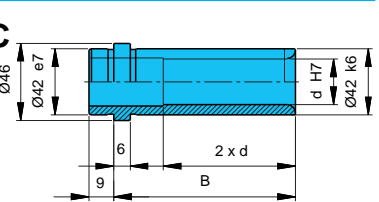
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	-106	FSC 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	-106	FSC 33-106- 76	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34-126- 86	-126	FSC 33-126- 86	-126
-126	-126	-126	-126
-146	-146	-146	-146
FSC 34-146- 86	-106	FSC 33-146- 86	-106
-106	-106	-106	-106
-166	-166	-166	-166
FSC 34-166-166	-166	FSC 33-166-166	-166
FSC 34-186-186	-186	FSC 33-186-186	-186
FSC 34-206-206	-206	FSC 33-206-206	-206

FSN



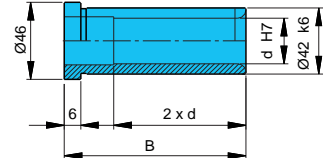
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	-106	FSN 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



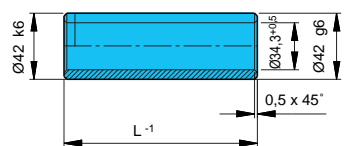
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



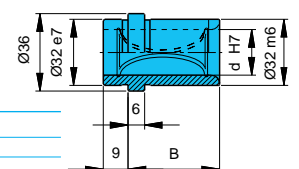
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



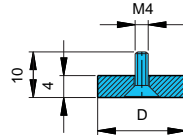
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



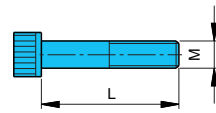
REF. B	REF. B
GEB 24-26	GEB 24-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 10 x 25	M 16 x 35
	x150
	x180
	x210
	x240

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 5050

(496 x 496 mm)

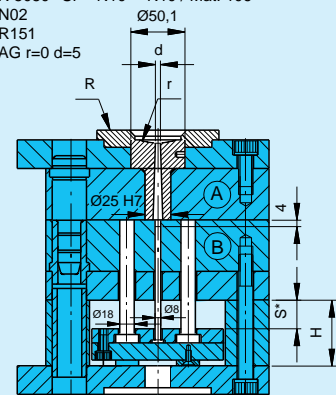
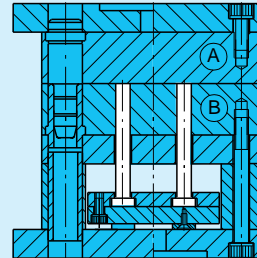
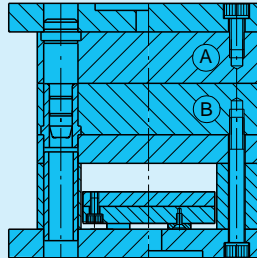
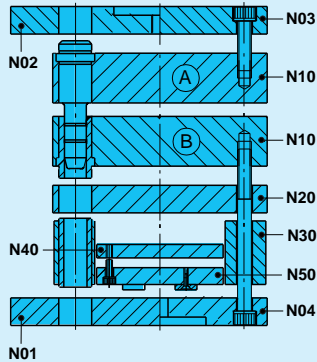
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 5050 N T^A T^B H
N01 N10 - N10 / Mat. 106

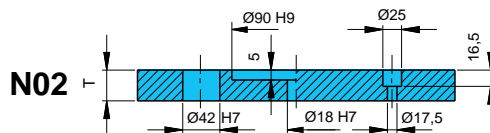
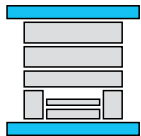
B
N 5050 B T^A T^B H
N01 N10 - N10 / Mat. 106

R
N 5050 R T^A T^B H
N01 N10 - N10 / Mat. 106

SF
N 5050 SF T^A T^B H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5

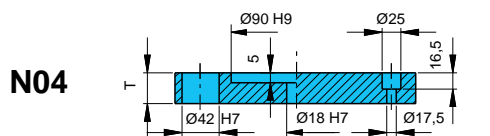


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



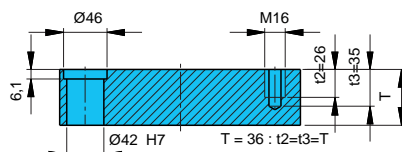
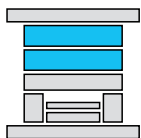
N01

REF.	T	Mat.	REF.	T	Mat.
N02-5050-36/1		1730	N01-5050-36/1		1730



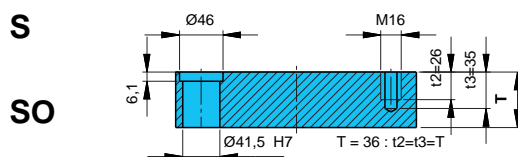
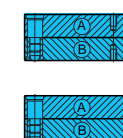
N03

REF.	T	Mat.	REF.	T	Mat.
N04-5050-36/1		1730	N03-5050-36/1		1730



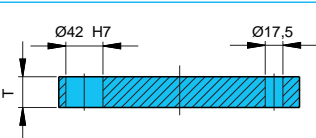
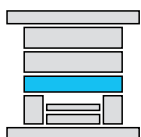
N10

REF.	Mat.	T ^A T ^B									
N10-5050-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-5050-T/3	2312										
N10-5050-T/5	2344										
N10-5050-T/7	2311										
N10-5050-T/9	Impax										



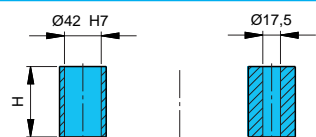
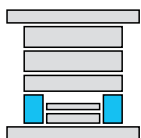
N15

REF.	Mat.	T ^A T ^B									
N15-5050-T/5	2344	36	56	76	96	106	126	146	166	186	206



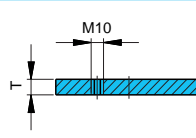
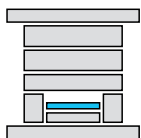
N20

REF.	T	Mat.
N20-5050-56/1		1730



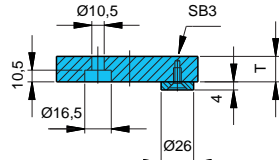
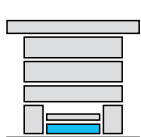
N30

REF.	Mat.	H	
N30-H-5050/1	1730	106	126
		56	76



N40

REF.	T	Mat.
N40-20-5050/1		1730



N50

REF.	T	Mat.
N50-26-5050/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

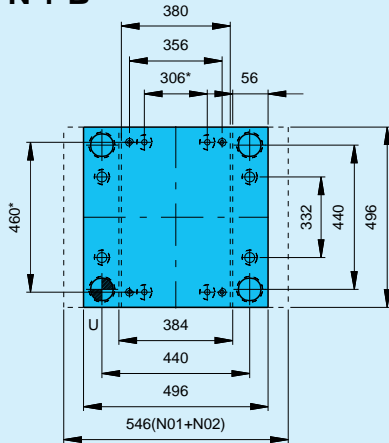
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

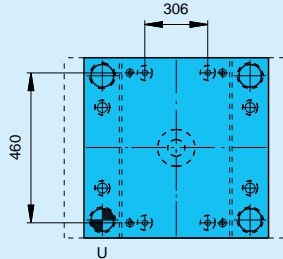
N 5050

(496 x 496 mm)

N + B

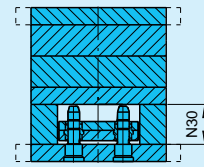


R + SF

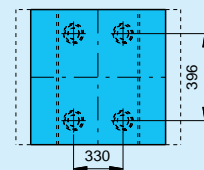


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

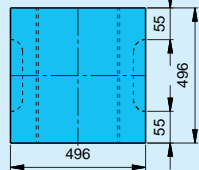
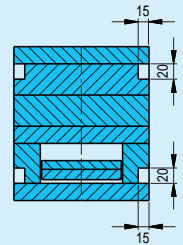
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



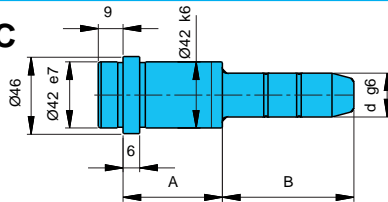
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

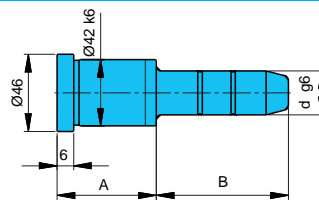


FSC



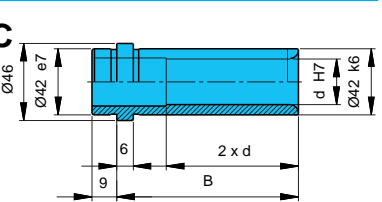
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	-106	FSC 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	-106	FSC 33-106- 76	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34-126- 86	-126	FSC 33-126- 86	-126
-126	-126	-126	-126
-146	-146	-146	-146
FSC 34-146- 86	-106	FSC 33-146- 86	-106
-106	-106	-106	-106
-166	-166	-166	-166
FSC 34-166-166	-166	FSC 33-166-166	-166
FSC 34-186-186	-186	FSC 33-186-186	-186
FSC 34-206-206	-206	FSC 33-206-206	-206

FSN



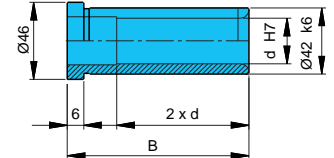
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	-106	FSN 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



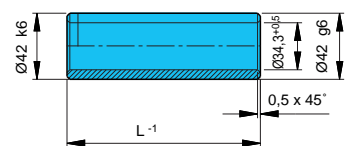
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



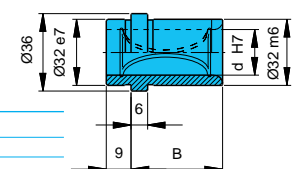
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



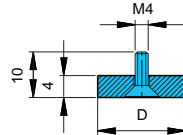
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



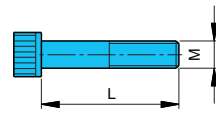
REF. B	REF. B
GEB 24-26	GEB 24-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 10 x 25	M 16 x 35
	x150
	x180
	x210
	x240

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 5055

(496 x 546 mm)

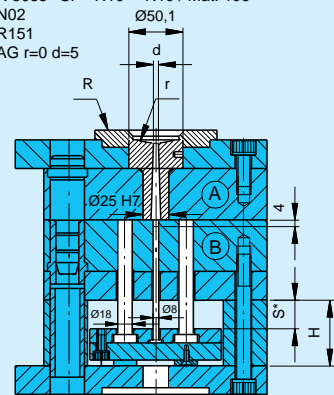
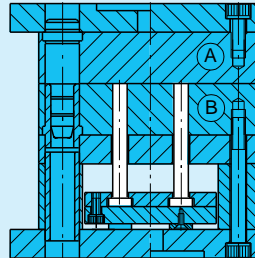
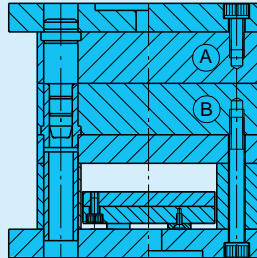
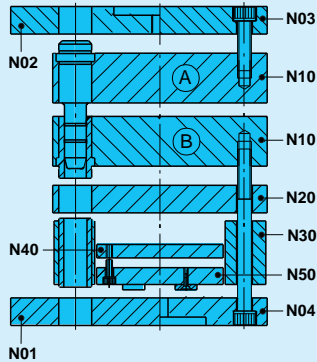
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 5055 N T^A T^B H
N01 N10 - N10 / Mat. 106

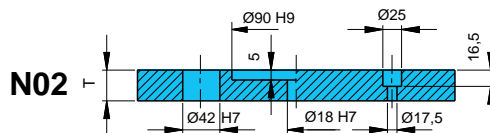
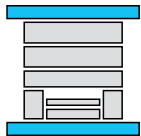
B
N 5055 B T^A T^B H
N01 N10 - N10 / Mat. 106

R
N 5055 R T^A T^B H
N01 N10 - N10 / Mat. 106

SF
N 5055 SF T^A T^B H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5



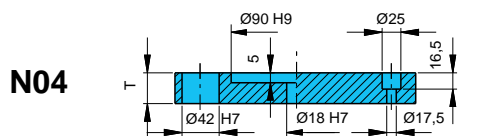
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-5055-36/1		1730

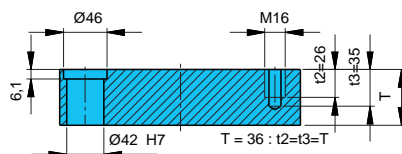
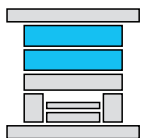
REF.	T	Mat.
N01-5055-36/1		1730



N03

REF.	T	Mat.
N04-5055-36/1		1730

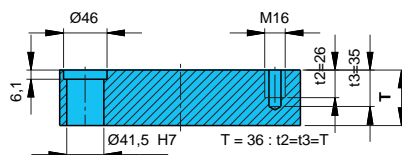
REF.	T	Mat.
N03-5055-36/1		1730



N10

REF.	Mat.	T ^A T ^B
N10-5055-T/1	1730	36 56 76 96 106 126 146 166 186 206
N10-5055-T/3	2312	
N10-5055-T/5	2344	
N10-5055-T/7	2311	
N10-5055-T/9	Impax	

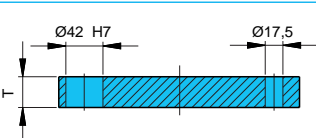
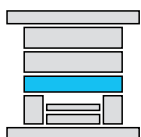
S



N15

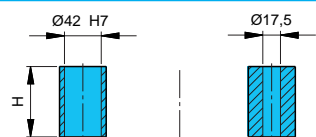
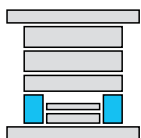
REF.	Mat.	T ^A T ^B
N15-5055-T/5	2344	36 56 76 96 106 126 146 166 186 206

SO



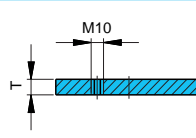
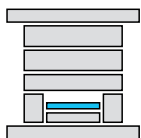
N20

REF.	T	Mat.
N20-5055-56/1		1730



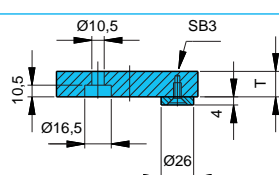
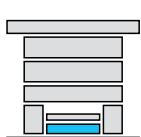
N30

REF.	Mat.	H
N30-H-5055/1	1730	106 126
		56 76



N40

REF.	T	Mat.
N40-20-5055/1		1730



N50

REF.	T	Mat.
N50-26-5055/1		1730

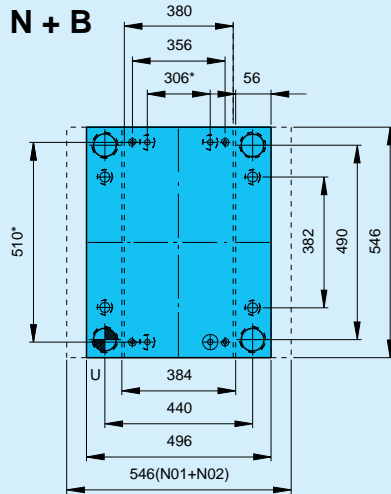
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

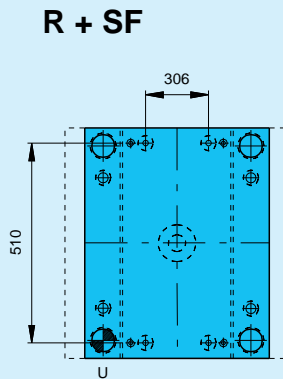
N 5055

(496 x 546 mm)

N + B

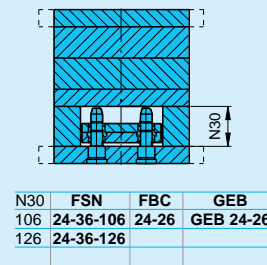


R + SF

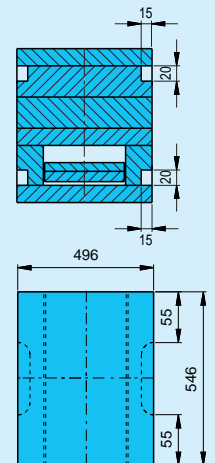


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

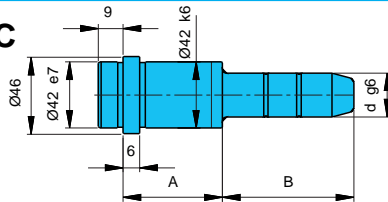
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

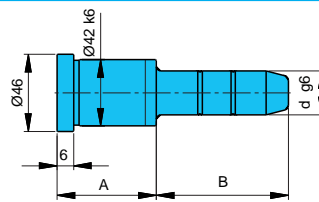


FSC



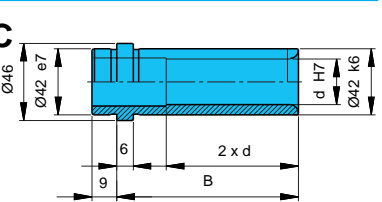
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	- 106	FSC 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	- 106	FSC 33-106- 76	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34-126- 86	- 126	FSC 33-126- 86	- 126
- 126	- 126	- 126	- 126
-146	-146	-146	-146
FSC 34-146- 86	- 106	FSC 33-146- 86	- 106
- 106	- 106	- 106	- 106
-166	-166	-166	-166
FSC 34-166-166	- 166	FSC 33-166-166	- 166
- 166	- 166	- 166	- 166
FSC 34-186-186	- 186	FSC 33-186-186	- 186
- 186	- 186	- 186	- 186
FSC 34-206-206	- 206	FSC 33-206-206	- 206
- 206	- 206	- 206	- 206

FSN



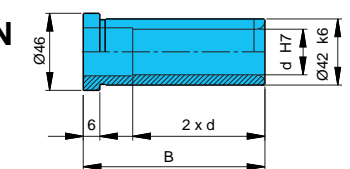
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	- 106	FSN 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



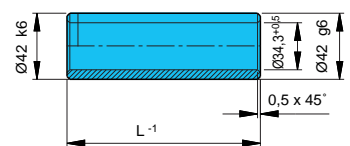
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



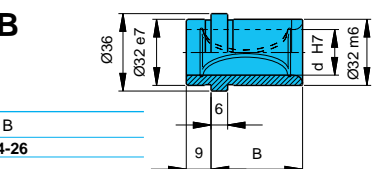
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



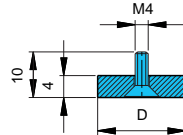
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



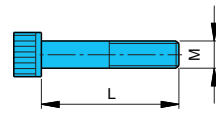
REF. B	REF. B
GEB 24-26	GEB 24-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 8 x 20	M 16 x 35
	x150
M 10 x 25	x180
	x210
	x240

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 5060

(496 x 596 mm)

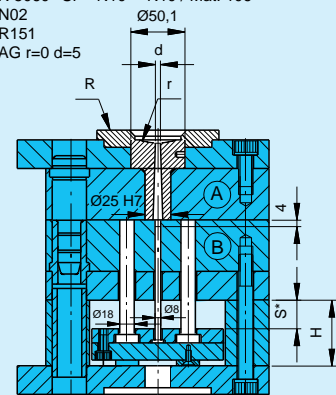
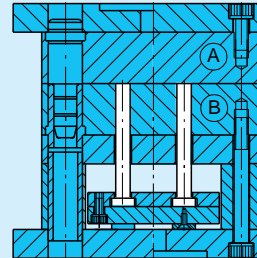
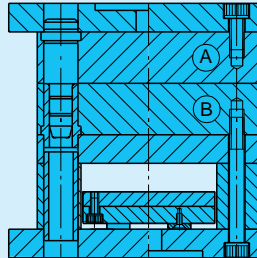
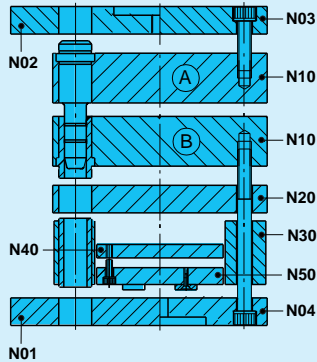
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 5060 N T^A T^B H
N01 N10 - N10 / Mat. 106

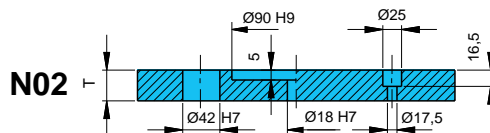
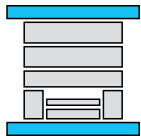
B
N 5060 B T^A T^B H
N01 N10 - N10 / Mat. 106

R
N 5060 R T^A T^B H
N01 N10 - N10 / Mat. 106

SF
N 5060 SF T^A T^B H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5

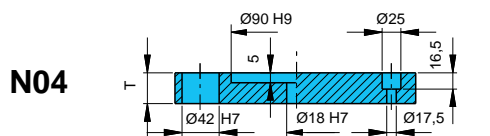


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



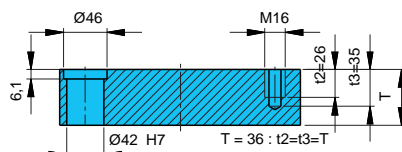
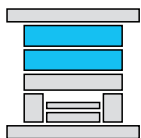
N01

REF.	T	Mat.	REF.	T	Mat.
N02-5060-36/1		1730	N01-5060-36/1		1730



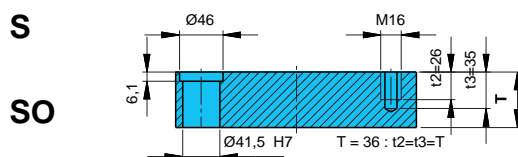
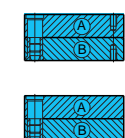
N03

REF.	T	Mat.	REF.	T	Mat.
N04-5060-36/1		1730	N03-5060-36/1		1730



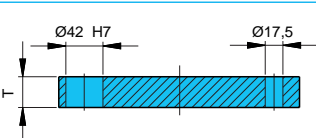
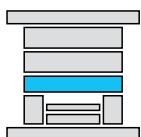
N10

REF.	Mat.	T ^A T ^B									
N10-5060-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-5060-T/3	2312										
N10-5060-T/5	2344										
N10-5060-T/7	2311										
N10-5060-T/9	Impax										



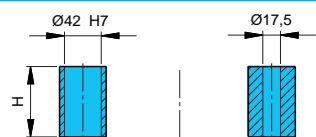
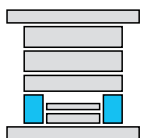
N15

REF.	Mat.	T ^A T ^B									
N15-5060-T/5	2344	36	56	76	96	106	126	146	166	186	206



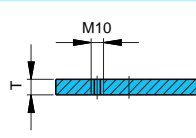
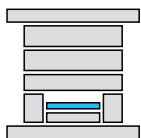
N20

REF.	T	Mat.
N20-5060-56/1		1730



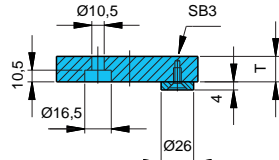
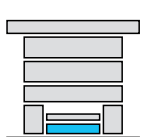
N30

REF.	Mat.	H
N30-H-5060/1	1730	106
		126
		S*
		56
		76



N40

REF.	T	Mat.
N40-20-5060/1		1730



N50

REF.	T	Mat.
N50-26-5060/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

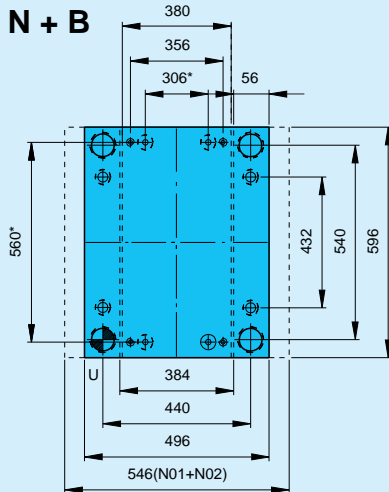
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

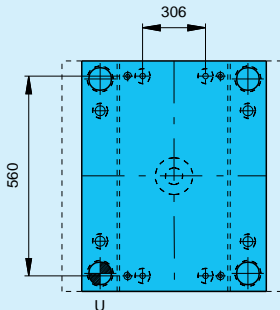
N 5060

(496 x 596 mm)

N + B

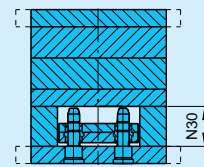


R + SF

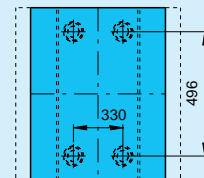


* Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

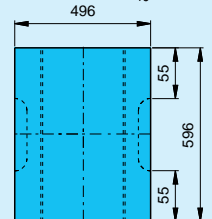
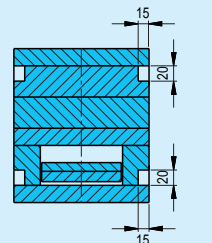
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



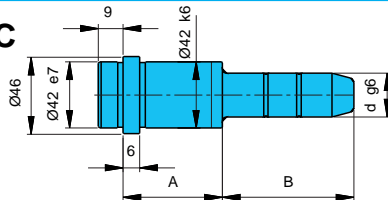
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

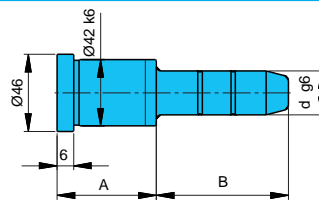


FSC



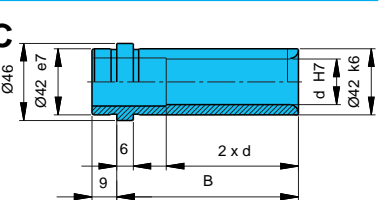
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	- 106	FSC 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	- 106	FSC 33-106- 76	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34-126- 86	- 126	FSC 33-126- 86	- 126
-126	-126	-126	-126
-146	-146	-146	-146
FSC 34-146- 86	- 106	FSC 33-146- 86	- 106
- 106	- 106	- 106	- 106
-166	-166	-166	-166
FSC 34-166-166	- 186	FSC 33-166-166	- 186
FSC 34-186-186	- 206	FSC 33-186-186	- 206
FSC 34-206-206		FSC 33-206-206	

FSN



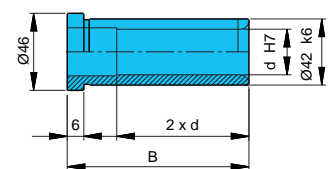
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	- 106	FSN 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



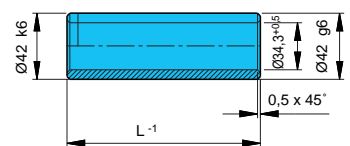
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



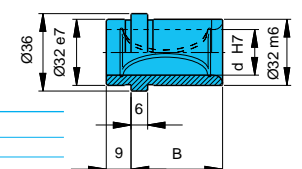
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



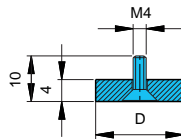
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



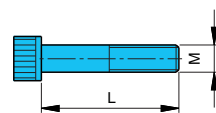
REF. B	REF. B
GEB 24-26	

SB



REF. D	REF. D
SB3 26	

M



REF. L	REF. L
M 10 x 25	M 16 x 35
	x150
	x180
	x210
	x240

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 5070

(496 x 696 mm)

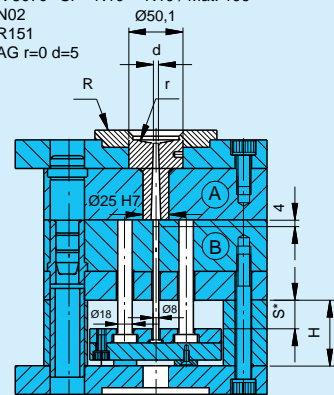
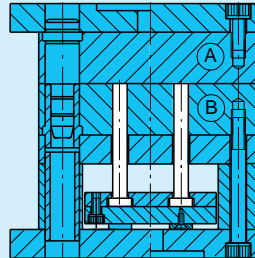
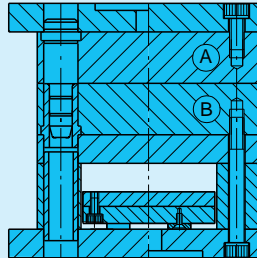
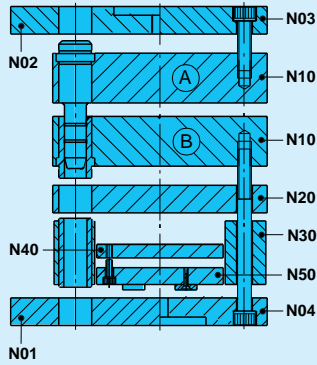
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 5070 N T^A T^B H
N01 N10 - N10 / Mat. 106

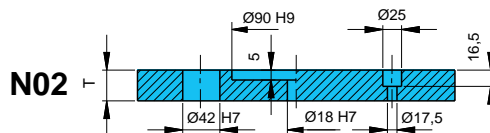
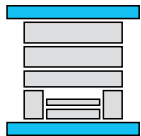
B
N 5070 B T^A T^B H
N01 N10 - N10 / Mat. 106

R
N 5070 R T^A T^B H
N01 N10 - N10 / Mat. 106

SF
N 5070 SF T^A T^B H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5

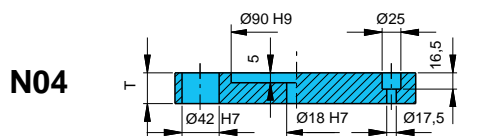


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



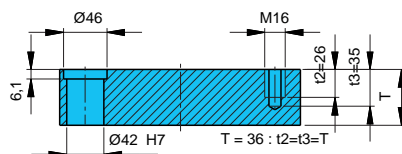
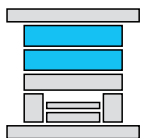
N01

REF.	T	Mat.	REF.	T	Mat.
N02-5070-36/1		1730	N01-5070-36/1		1730



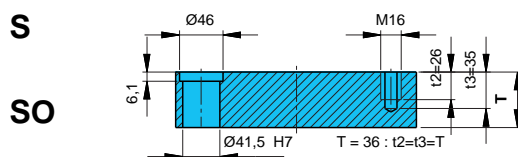
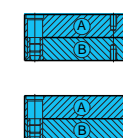
N03

REF.	T	Mat.	REF.	T	Mat.
N04-5070-36/1		1730	N03-5070-36/1		1730



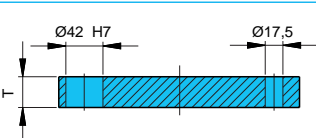
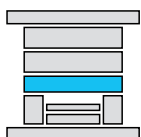
N10

REF.	Mat.	T ^A T ^B									
N10-5070-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-5070-T/3	2312										
N10-5070-T/5	2344										
N10-5070-T/7	2311										
N10-5070-T/9	Impax										



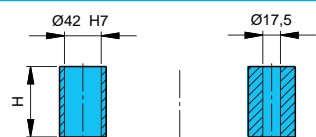
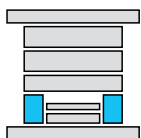
N15

REF.	Mat.	T ^A T ^B									
N15-5070-T/5	2344	36	56	76	96	106	126	146	166	186	206



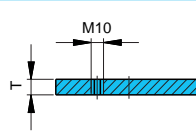
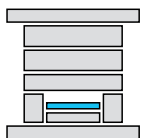
N20

REF.	T	Mat.
N20-5070-56/1		1730



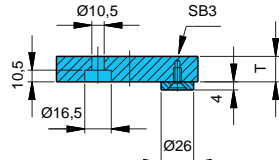
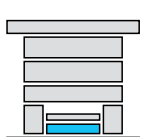
N30

REF.	Mat.	H
N30-H-5070/1	1730	106 126
		56 76



N40

REF.	T	Mat.
N40-20-5070/1		1730



N50

REF.	T	Mat.
N50-26-5070/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

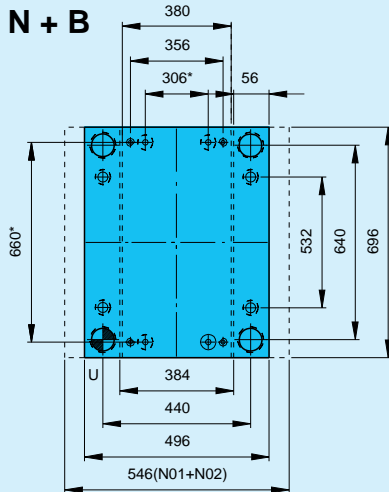
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

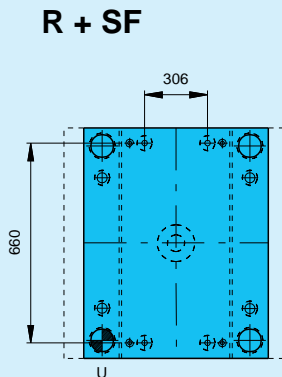
N 5070

(496 x 696 mm)

N + B

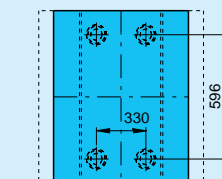
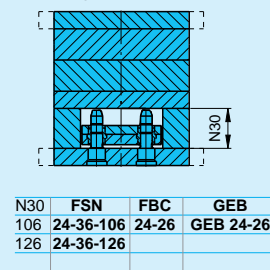


R + SF

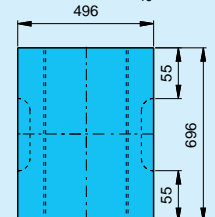
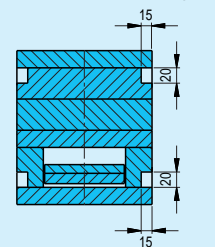


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

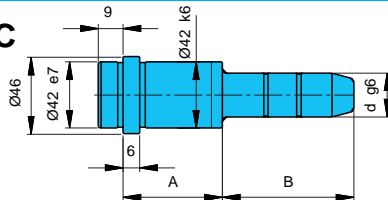
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

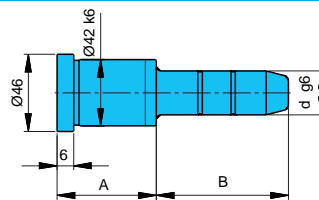


FSC



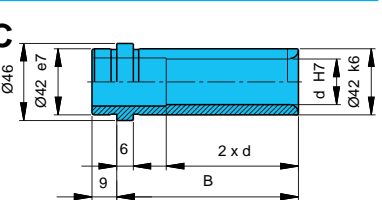
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	-106	FSC 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	-106	FSC 33-106- 76	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34-126- 86	-126	FSC 33-126- 86	-126
-126	-126	-126	-126
-146	-146	-146	-146
FSC 34-146- 86	-106	FSC 33-146- 86	-106
-106	-106	-106	-106
-166	-166	-166	-166
FSC 34-166-166	-166	FSC 33-166-166	-166
FSC 34-186-186	-186	FSC 33-186-186	-186
FSC 34-206-206	-206	FSC 33-206-206	-206

FSN



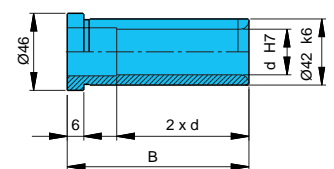
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	-106	FSN 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



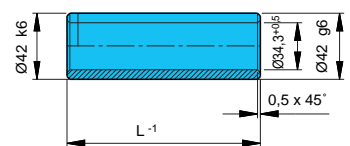
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



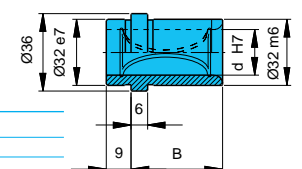
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



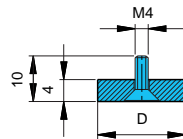
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



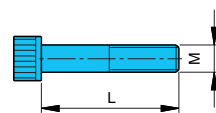
REF. B	REF. B
GEB 24-26	GEB 24-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 10 x 25	M 16 x 35
	x150
	x180
	x210
	x240

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 5080

(496 x 796 mm)

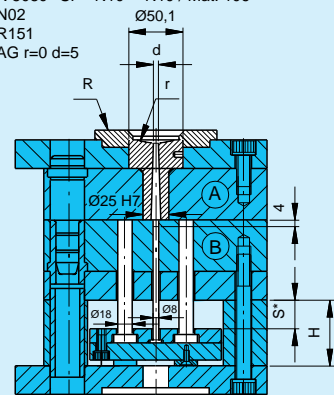
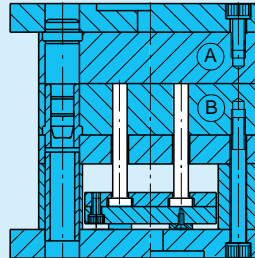
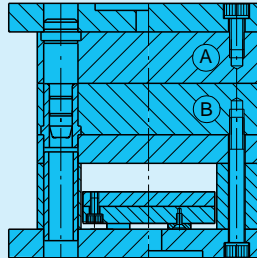
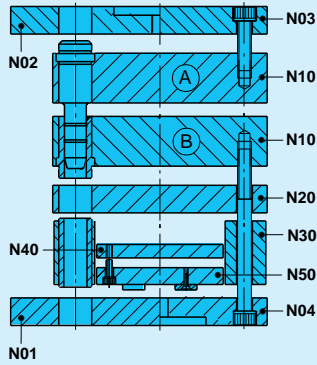
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 5080 N T^A T^B H
N01 N10 - N10 / Mat. 106

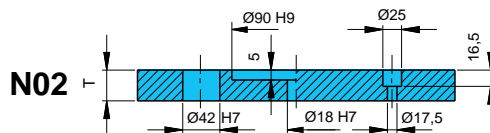
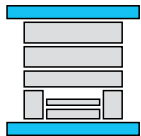
B
N 5080 B T^A T^B H
N01 N10 - N10 / Mat. 106

R
N 5080 R T^A T^B H
N01 N10 - N10 / Mat. 106

SF
N 5080 SF T^A T^B H
N02 N10 - N10 / Mat. 106
R151
AG r=0 d=5



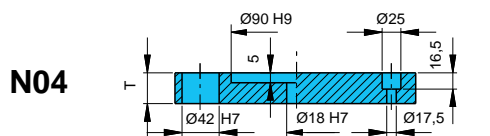
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-5080-36/1		1730

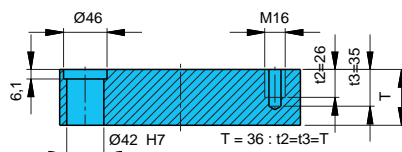
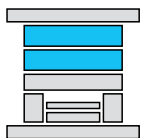
REF.	T	Mat.
N01-5080-36/1		1730



N03

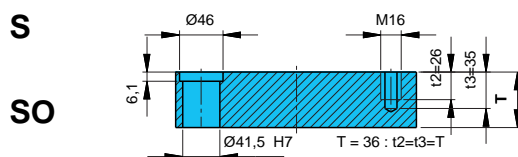
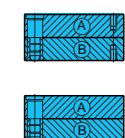
REF.	T	Mat.
N04-5080-36/1		1730

REF.	T	Mat.
N03-5080-36/1		1730



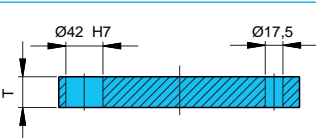
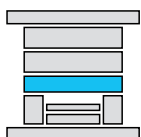
N10

REF.	Mat.	T ^A T ^B									
N10-5080-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-5080-T/3	2312										
N10-5080-T/5	2344										
N10-5080-T/7	2311										
N10-5080-T/9	Impax										



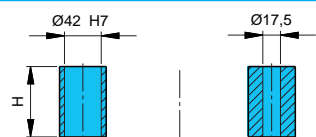
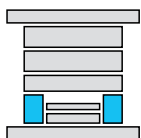
N15

REF.	Mat.	T ^A T ^B									
N15-5080-T/5	2344	36	56	76	96	106	126	146	166	186	206



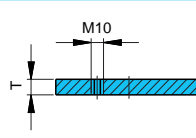
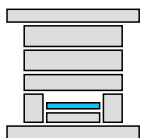
N20

REF.	T	Mat.
N20-5080-56/1		1730



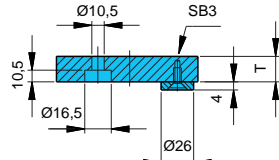
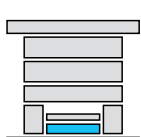
N30

REF.	Mat.	H	
N30-H-5080/1	1730	106	126
		56	76



N40

REF.	T	Mat.
N40-20-5080/1		1730



N50

REF.	T	Mat.
N50-26-5080/1		1730

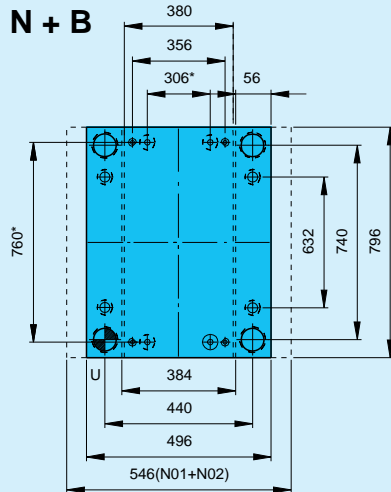
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

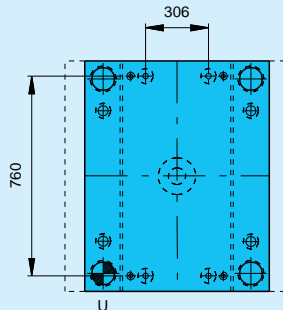
N 5080

(496 x 796 mm)

N + B

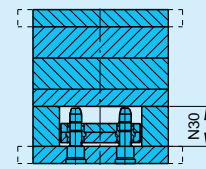


R + SF

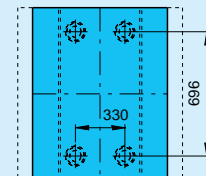


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

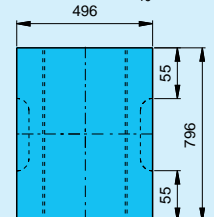
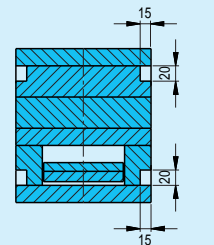
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



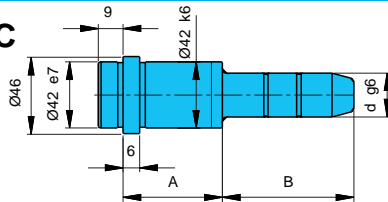
N30	FSC	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

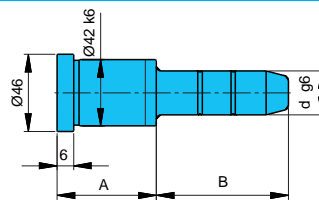


FSC



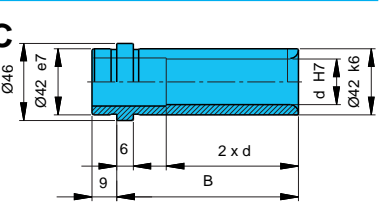
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	-106	FSC 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	-106	FSC 33-106- 76	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34-126- 86	-126	FSC 33-126- 86	-126
-126	-126	-126	-126
-146	-146	-146	-146
FSC 34-146- 86	-106	FSC 33-146- 86	-106
-106	-106	-106	-106
-166	-166	-166	-166
FSC 34-166-166	-166	FSC 33-166-166	-166
FSC 34-186-186	-186	FSC 33-186-186	-186
FSC 34-206-206	-206	FSC 33-206-206	-206

FSN



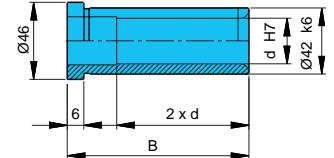
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	-106	FSN 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



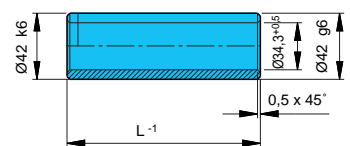
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



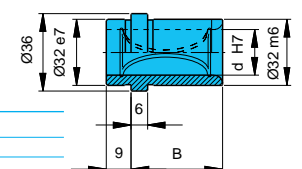
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

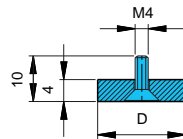
GEB



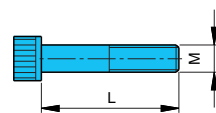
REF. B	REF. B
GEB 24-26	GEB 24-26

SB

REF. D	REF. D
SB3 26	SB3 26



M



REF. L	REF. L
M 10 x 25	M 16 x 35
	x150
	x180
	x210
	x240

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 5555

(546 x 546 mm)

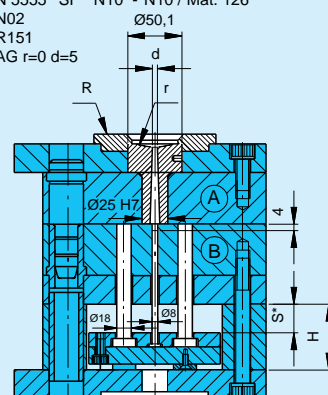
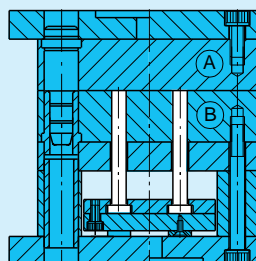
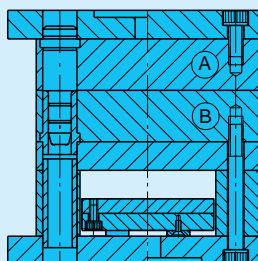
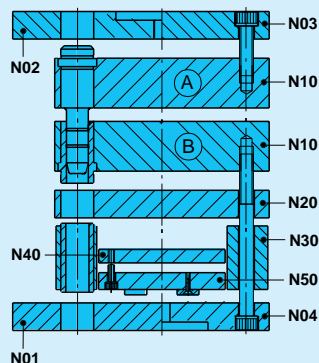
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 5555 N T^A T^B H
N01 N10 - N10 / Mat. 126

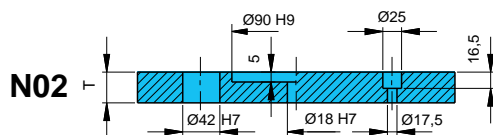
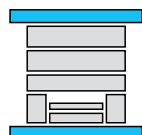
B
N 5555 B T^A T^B H
N01 N10 - N10 / Mat. 126

R
N 5555 R T^A T^B H
N01 N10 - N10 / Mat. 126

SF
N 5555 SF T^A T^B H
N02 N10 - N10 / Mat. 126
R151
AG r=0 d=5



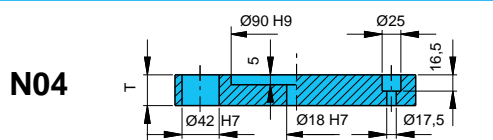
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-5555-36/1		1730

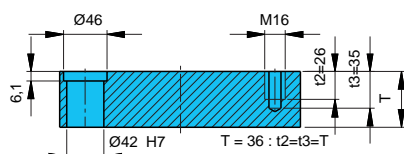
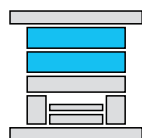
REF.	T	Mat.
N01-5555-36/1		1730



N03

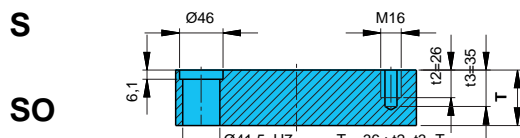
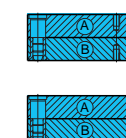
REF.	T	Mat.
N04-5555-36/1		1730

REF.	T	Mat.
N03-5555-36/1		1730



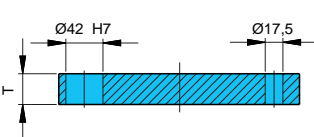
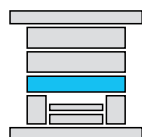
N10

REF.	Mat.	T ^A T ^B
N10-5555-T/1	1730	36 56 76 96 106 126 146 166 186 206
N10-5555-T/3	2312	
N10-5555-T/5	2344	
N10-5555-T/7	2311	
N10-5555-T/9	Impax	



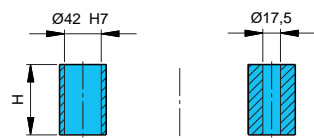
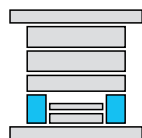
N15

REF.	Mat.	T ^A T ^B
N15-5555-T/5	2344	36 56 76 96 106 126 146 166 186 206



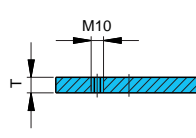
N20

REF.	T	Mat.
N20-5555-56/1		1730



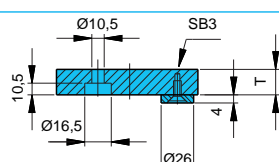
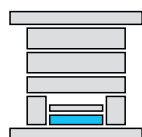
N30

REF.	Mat.	H
N30-H-5555/1	1730	106 126
		56 76



N40

REF.	T	Mat.
N40-20-5555/1		1730



N50

REF.	T	Mat.
N50-26-5555/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

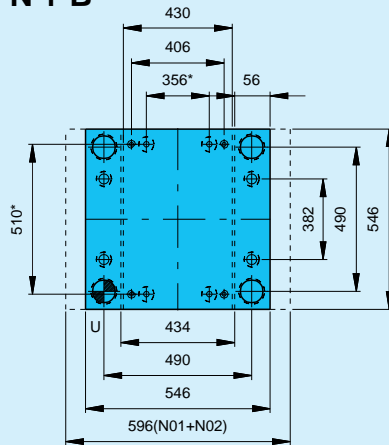
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

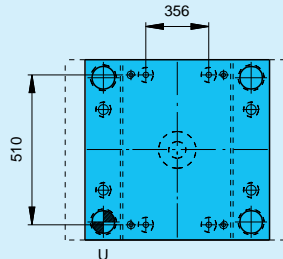
N 5555

(546 x 546 mm)

N + B

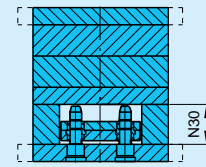


R + SF

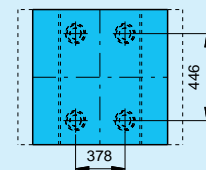


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

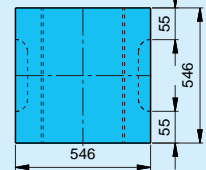
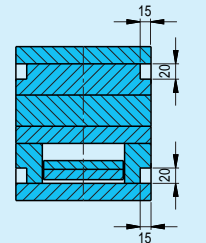
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerperplaten
♠ Guidage de la batterie d'éjection



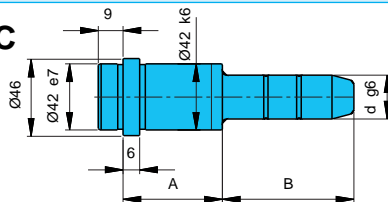
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

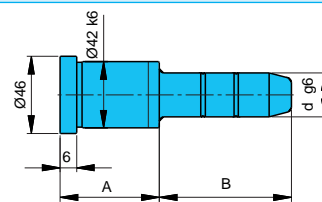


FSC



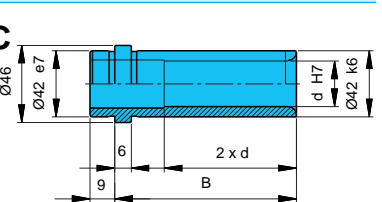
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	-106	FSC 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	-106	FSC 33-106- 76	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSC 34-126- 86	-126	FSC 33-126- 86	-126
-126	-126	-126	-126
-146	-146	-146	-146
FSC 34-146- 86	-106	FSC 33-146- 86	-106
-106	-106	-106	-106
-166	-166	-166	-166
FSC 34-166-166	-166	FSC 33-166-166	-166
FSC 34-186-186	-186	FSC 33-186-186	-186
FSC 34-206-206	-206	FSC 33-206-206	-206

FSN



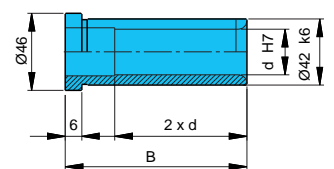
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	-106	FSN 33- 76- 66	-106
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
-146	-146	-146	-146
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



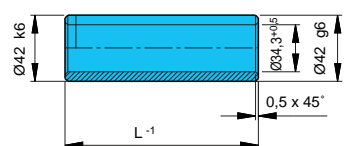
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



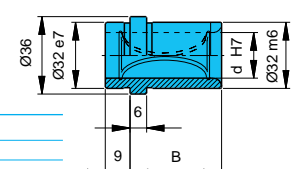
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



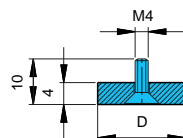
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



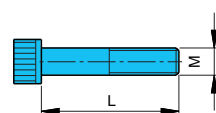
REF. B	REF. B
GEB 24-26	GEB 24-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 10 x 25	M 16 x 35
	x150
	x180
	x210
	x240

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 5560

(546 x 596 mm)

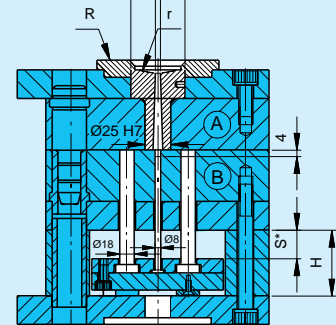
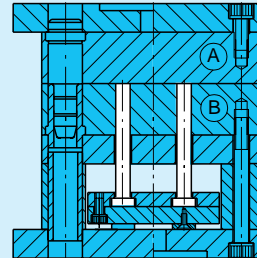
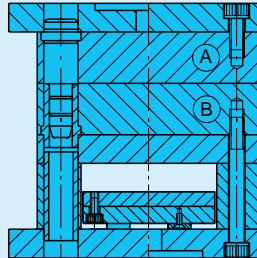
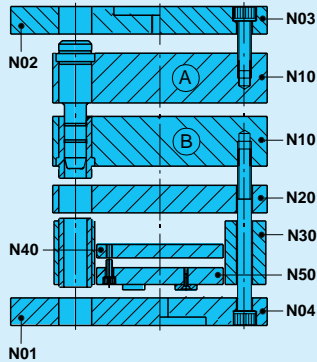
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 5560 N T^A T^B H
N01 N10 - N10 / Mat. 126

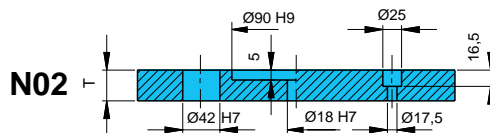
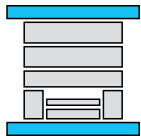
B
N 5560 B T^A T^B H
N01 N10 - N10 / Mat. 126

R
N 5560 R T^A T^B H
N01 N10 - N10 / Mat. 126

SF
N 5560 SF T^A T^B H
N02 N10 - N10 / Mat. 126
R151
AG r=0 d=5

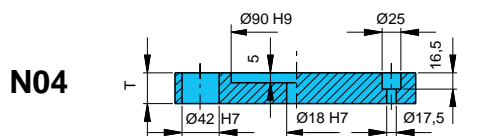


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



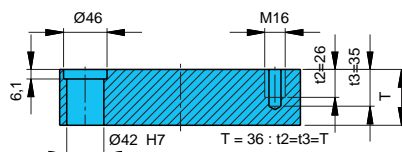
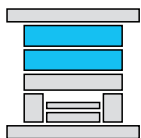
N01

REF.	T	Mat.	REF.	T	Mat.
N02-5560-36/1		1730	N01-5560-36/1		1730



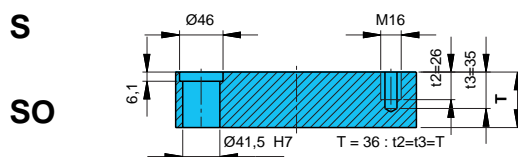
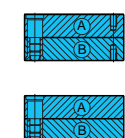
N03

REF.	T	Mat.	REF.	T	Mat.
N04-5560-36/1		1730	N03-5560-36/1		1730



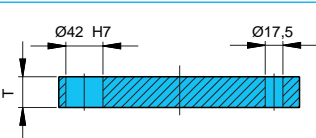
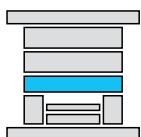
N10

REF.	Mat.	T ^A T ^B									
N10-5560-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-5560-T/3	2312										
N10-5560-T/5	2344										
N10-5560-T/7	2311										
N10-5560-T/9	Impax										



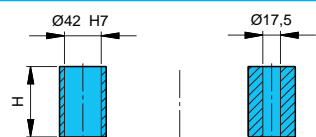
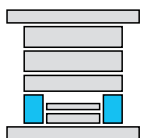
N15

REF.	Mat.	T ^A T ^B									
N15-5560-T/5	2344	36	56	76	96	106	126	146	166	186	206



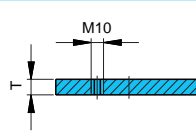
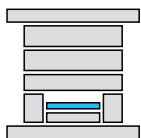
N20

REF.	T	Mat.
N20-5560-56/1		1730



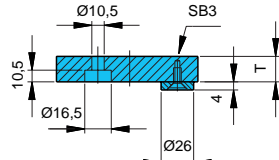
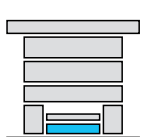
N30

REF.	Mat.	H
N30-H-5560/1	1730	106 126
		56 76



N40

REF.	T	Mat.
N40-20-5560/1		1730



N50

REF.	T	Mat.
N50-26-5560/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

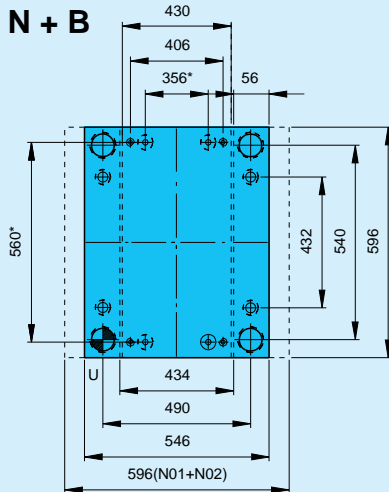
Spuitgietmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

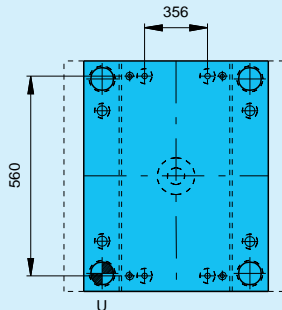
N 5560

(546 x 596 mm)

N + B

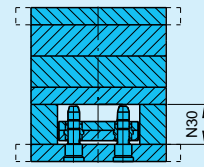


R + SF

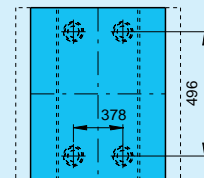


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

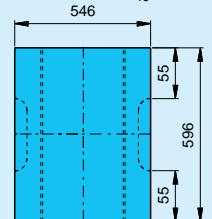
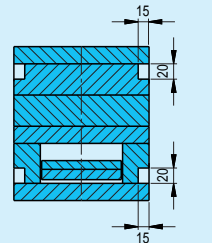
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



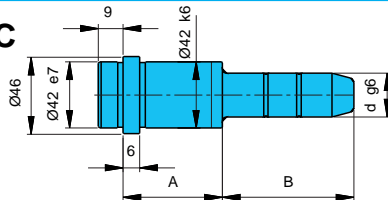
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

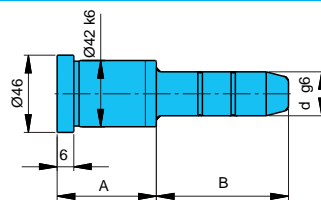


FSC



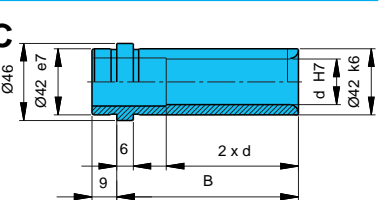
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	- 106	FSC 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	- 106	FSC 33-106- 76	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34-126- 86	- 126	FSC 33-126- 86	- 126
-126	-126	-126	-126
-146	-146	-146	-146
FSC 34-146- 86	- 106	FSC 33-146- 86	- 106
- 106	- 106	- 106	- 106
-166	-166	-166	-166
FSC 34-166-166	- 186	FSC 33-166-166	- 186
FSC 34-186-186	- 206	FSC 33-186-186	- 206
FSC 34-206-206		FSC 33-206-206	

FSN



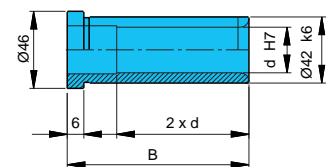
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	- 106	FSN 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



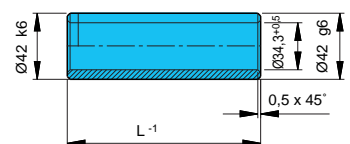
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



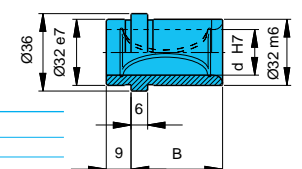
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

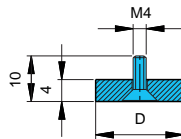
GEB



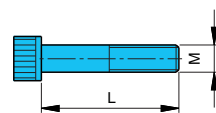
REF. B	REF. B
GEB 24-26	

SB

REF. D	REF. D
SB3 26	



M



REF. L	REF. L
M 10 x 25	M 16 x 35
	x150
	x180
	x210
	x240

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 5570

(546 x 696 mm)

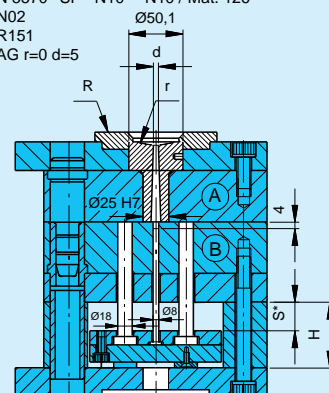
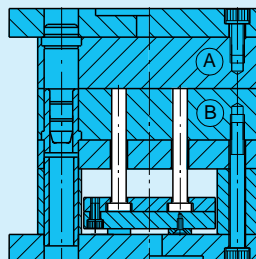
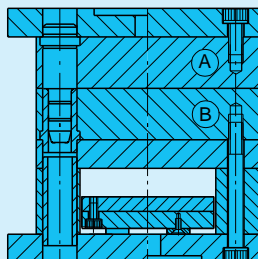
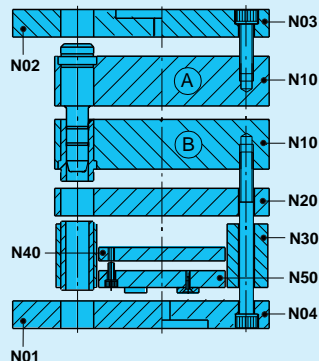
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 5570 N T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 126

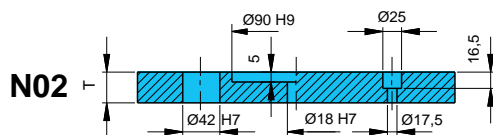
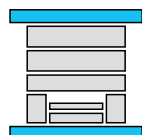
B
N 5570 B T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 126

R
N 5570 R T[Ⓐ] T[Ⓑ] H
N01 N10 - N10 / Mat. 126

SF
N 5570 SF T[Ⓐ] T[Ⓑ] H
N02 N10 - N10 / Mat. 126
R151
AG r=0 d=5



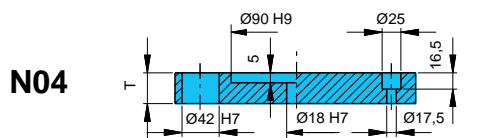
♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N01

REF.	T	Mat.
N02-5570-36/1		1730

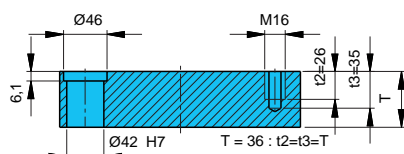
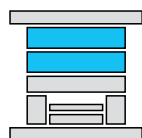
REF.	T	Mat.
N01-5570-36/1		1730



N03

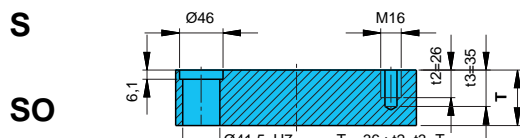
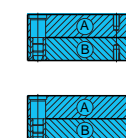
REF.	T	Mat.
N04-5570-36/1		1730

REF.	T	Mat.
N03-5570-36/1		1730



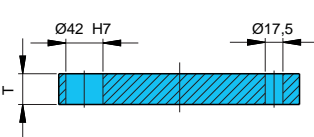
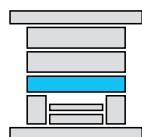
N10

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N10-5570-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-5570-T/3	2312										
N10-5570-T/5	2344										
N10-5570-T/7	2311										
N10-5570-T/9	Impax										



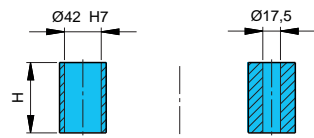
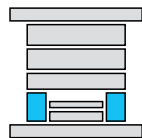
N15

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N15-5570-T/5	2344	36	56	76	96	106	126	146	166	186	206



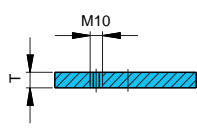
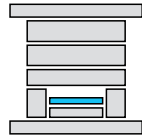
N20

REF.	T	Mat.
N20-5570-56/1		1730



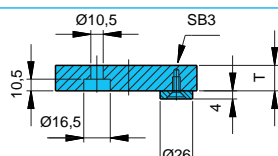
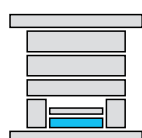
N30

REF.	Mat.	H	
N30-H-5570/1	1730	106	126
		56	76



N40

REF.	T	Mat.
N40-20-5570/1		1730



N50

REF.	T	Mat.
N50-26-5570/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

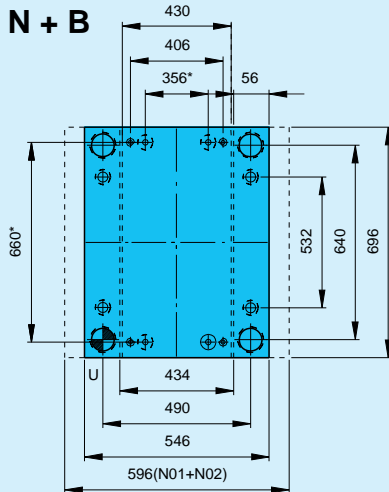
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

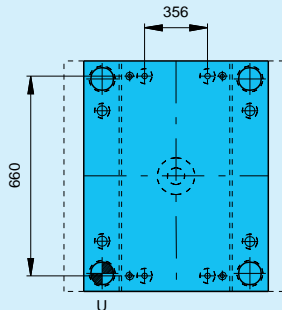
N 5570

(546 x 696 mm)

N + B

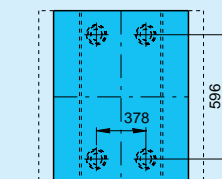
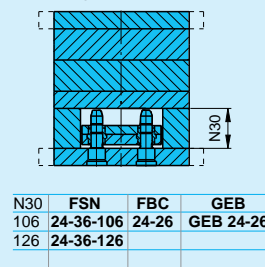


R + SF

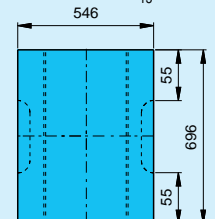
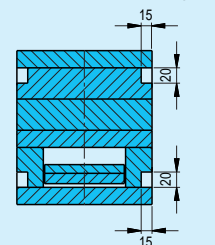


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

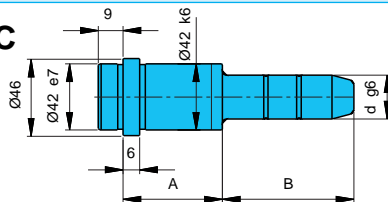
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

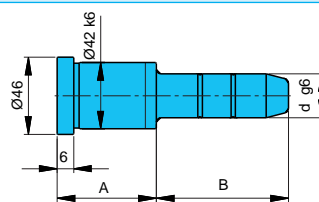


FSC



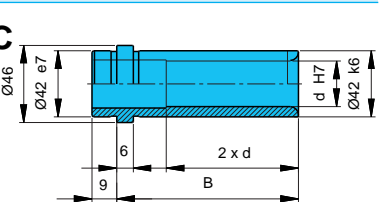
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46		FSC 33- 36- 46	
- 66		- 66	
- 86		- 86	
-126		-126	
-186		-186	
-246		-246	
FSC 34- 56- 66		FSC 33- 56- 66	
- 96		- 96	
-126		-126	
-166		-166	
-206		-206	
-246		-246	
FSC 34- 76- 66		FSC 33- 76- 66	
-106		-106	
-146		-146	
FSC 34- 96- 66		FSC 33- 96- 66	
- 96		- 96	
-146		-146	
FSC 34-106- 76		FSC 33-106- 76	
-106		-106	
-146		-146	
FSC 34-126- 86		FSC 33-126- 86	
-126		-126	
-146		-146	
FSC 34-146- 86		FSC 33-146- 86	
-106		-106	
-166		-166	
FSC 34-166-166		FSC 33-166-166	
FSC 34-186-186		FSC 33-186-186	
FSC 34-206-206		FSC 33-206-206	

FSN



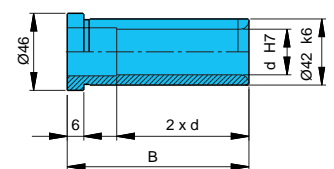
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46		FSN 33- 36- 46	
- 66		- 66	
- 86		- 86	
-126		-126	
FSN 34- 56- 56		FSN 33- 56- 56	
- 96		- 96	
-126		-126	
FSN 34- 76- 66		FSN 33- 76- 66	
-106		-106	
-146		-146	
FSN 34- 96- 66		FSN 33- 96- 66	
- 96		- 96	
-146		-146	
FSN 34-106- 56		FSN 33-106- 56	
- 76		- 76	
-106		-106	
-146		-146	
FSN 34-126- 56		FSN 33-126- 56	
- 86		- 86	
-126		-126	
-146		-146	
FSN 34-146- 56		FSN 33-146- 56	
- 86		- 86	
-106		-106	

FBC



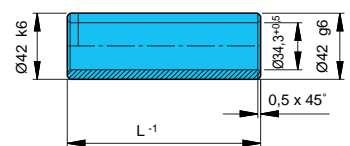
REF. d	B	REF. d	B
FBC 34- 36		FBC 33- 36	
- 56		- 56	
- 76		- 76	
- 96		- 96	
-106		-106	
-126		-126	
-146		-146	
-166		-166	
-186		-186	
-206		-206	

FBN



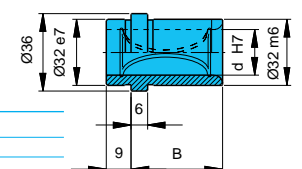
REF. d	B	REF. d	B
FBN 34- 36		FBN 33- 36	
- 56		- 56	
- 76		- 76	
- 96		- 96	
-106		-106	
-126		-126	
-146		-146	

TD



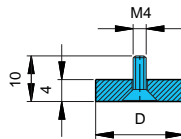
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



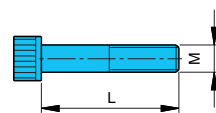
REF. B	REF. B
GEB 24-26	

SB



REF. D	REF. D
SB3 26	

M



REF. L	REF. L
M 10 x 25	M 16 x 35
	x150
	x180
	x210
	x240

♥ Mold bases plastics - N-plates

♣ S spuitgietmatrijzen - N-platen

♦ Spritzgieß-Normalien - N-Platten

♠ Porte-moules pour matières plastiques - plaques N

N 5580

(546 x 796 mm)

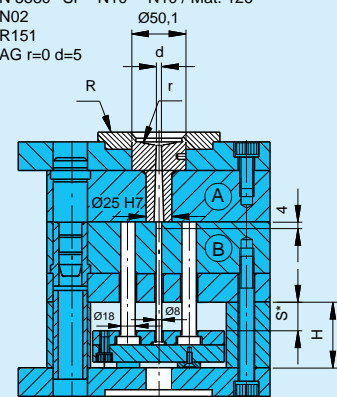
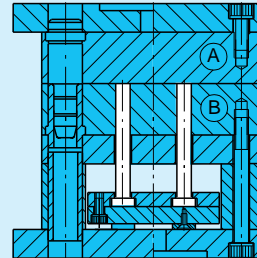
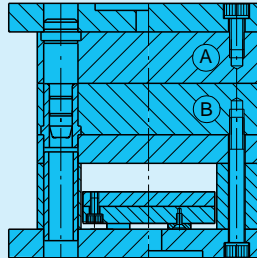
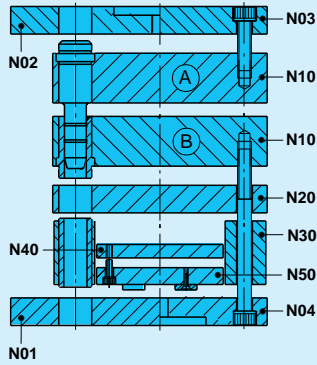
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 5580 N T^A T^B H
N01 N10 - N10 / Mat. 126

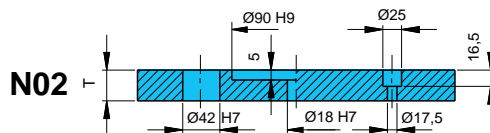
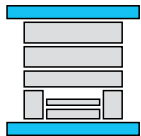
B
N 5580 B T^A T^B H
N01 N10 - N10 / Mat. 126

R
N 5580 R T^A T^B H
N01 N10 - N10 / Mat. 126

SF
N 5580 SF T^A T^B H
N02 N10 - N10 / Mat. 126
R151
AG r=0 d=5

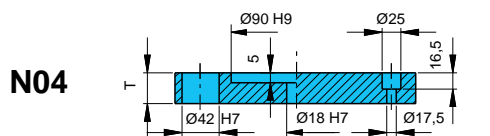


♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



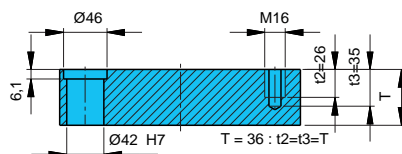
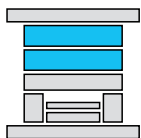
N01

REF.	T	Mat.	REF.	T	Mat.
N02-5580-36/1		1730	N01-5580-36/1		1730



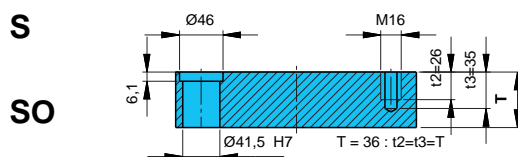
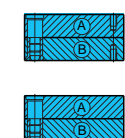
N03

REF.	T	Mat.	REF.	T	Mat.
N04-5580-36/1		1730	N03-5580-36/1		1730



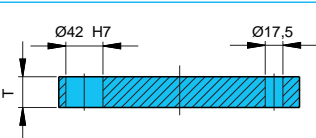
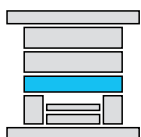
N10

REF.	Mat.	T ^A T ^B									
N10-5580-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-5580-T/3	2312										
N10-5580-T/5	2344										
N10-5580-T/7	2311										
N10-5580-T/9	Impax										



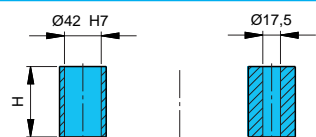
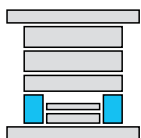
N15

REF.	Mat.	T ^A T ^B									
N15-5580-T/5	2344	36	56	76	96	106	126	146	166	186	206



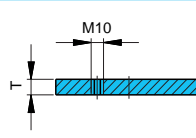
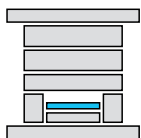
N20

REF.	T	Mat.
N20-5580-56/1		1730



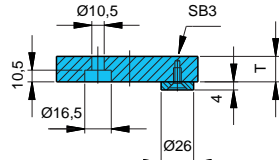
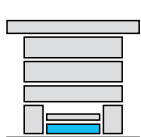
N30

REF.	Mat.	H	
N30-H-5580/1	1730	106	126
		56	76



N40

REF.	T	Mat.
N40-20-5580/1		1730



N50

REF.	T	Mat.
N50-26-5580/1		1730

♥ Mold bases plastics - N-plates

◆ Spritzgieß-Normalien - N-Platten

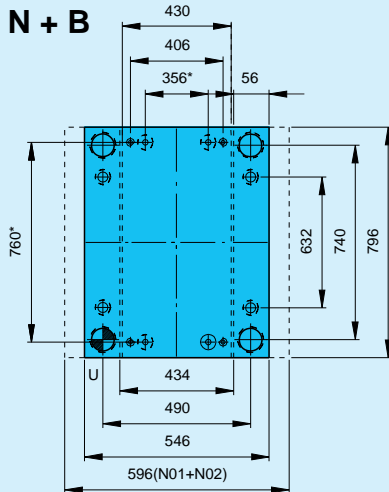
Spuitgietsmatrijzen - N-platen ♣

Porte-moules pour matières plastiques - plaques N ♠

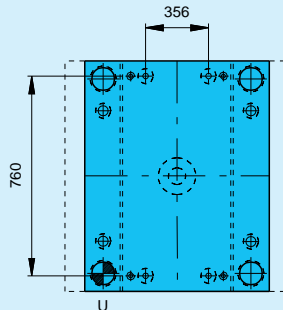
N 5580

(546 x 796 mm)

N + B

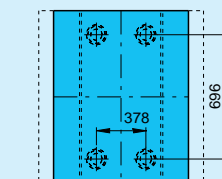
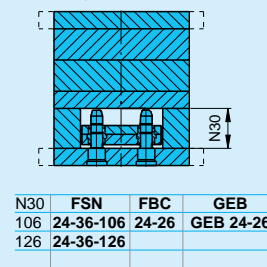


R + SF

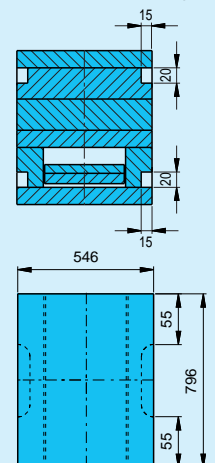


*♥ Stop buttons
◆ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

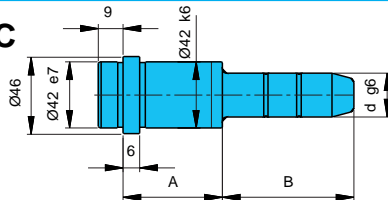
♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



♥ Clamp slots
◆ Spannuten
♣ Spangroeven
♠ Rainures de bridage

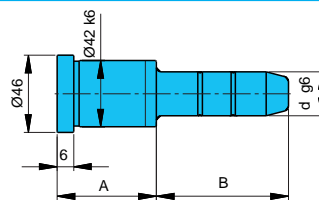


FSC



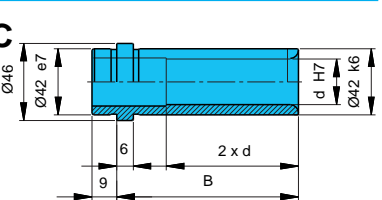
REF. d	A - B	REF. d	A - B
FSC 34- 36- 46	- 66	FSC 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-186	-186	-186	-186
-246	-246	-246	-246
FSC 34- 56- 66	- 96	FSC 33- 56- 66	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
-166	-166	-166	-166
-206	-206	-206	-206
-246	-246	-246	-246
FSC 34- 76- 66	- 106	FSC 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34- 96- 66	- 96	FSC 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSC 34-106- 76	- 106	FSC 33-106- 76	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSC 34-126- 86	- 126	FSC 33-126- 86	- 126
- 126	- 126	- 126	- 126
-146	-146	-146	-146
FSC 34-146- 86	- 106	FSC 33-146- 86	- 106
- 106	- 106	- 106	- 106
-166	-166	-166	-166
FSC 34-166-166	- 166	FSC 33-166-166	- 166
- 166	- 166	- 166	- 166
FSC 34-186-186	- 186	FSC 33-186-186	- 186
- 186	- 186	- 186	- 186
FSC 34-206-206	- 206	FSC 33-206-206	- 206
- 206	- 206	- 206	- 206

FSN



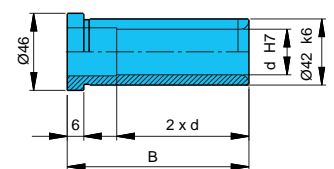
REF. d	A - B	REF. d	A - B
FSN 34- 36- 46	- 66	FSN 33- 36- 46	- 66
- 86	- 86	- 86	- 86
-126	-126	-126	-126
FSN 34- 56- 56	- 96	FSN 33- 56- 56	- 96
- 96	- 96	- 96	- 96
-126	-126	-126	-126
FSN 34- 76- 66	- 106	FSN 33- 76- 66	- 106
- 106	- 106	- 106	- 106
-146	-146	-146	-146
FSN 34- 96- 66	- 96	FSN 33- 96- 66	- 96
- 96	- 96	- 96	- 96
-146	-146	-146	-146
FSN 34-106- 56	- 76	FSN 33-106- 56	- 76
- 76	- 76	- 76	- 76
-106	-106	-106	-106
FSN 34-126- 56	- 86	FSN 33-126- 56	- 86
- 86	- 86	- 86	- 86
-126	-126	-126	-126
-146	-146	-146	-146
FSN 34-146- 56	- 86	FSN 33-146- 56	- 86
- 86	- 86	- 86	- 86
-106	-106	-106	-106

FBC



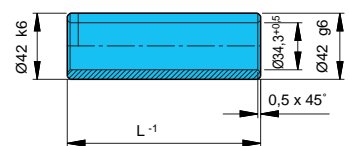
REF. d	B	REF. d	B
FBC 34- 36	- 56	FBC 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



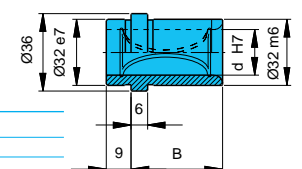
REF. d	B	REF. d	B
FBN 34- 36	- 56	FBN 33- 36	- 56
- 56	- 56	- 56	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



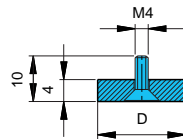
REF. L	REF. L
TD 42- 60	TD 42-160
-130	-180

GEB



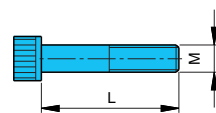
REF. B	REF. B
GEB 24-26	GEB 24-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 10 x 25	M 16 x 35
	x150
	x180
	x210
	x240

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 6060

(596 x 596 mm)

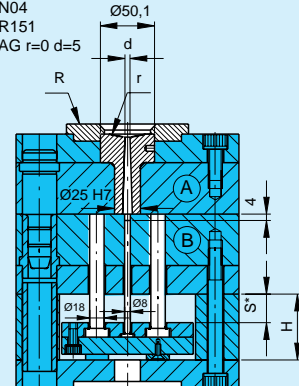
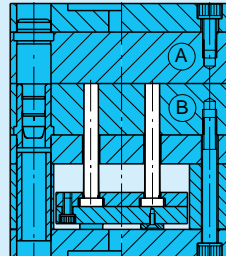
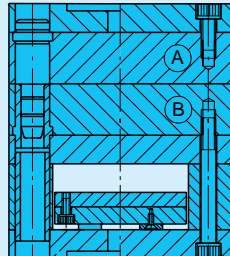
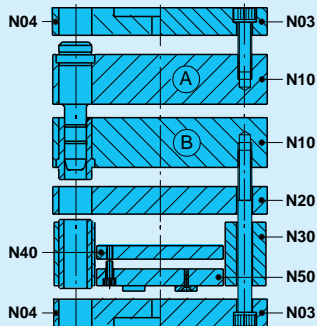
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 6060 N T^A T^B H
N03 N10 - N10 / Mat. 126

B
N 6060 B T^A T^B H
N03 N10 - N10 / Mat. 126

R
N 6060 R T^A T^B H
N03 N10 - N10 / Mat. 126

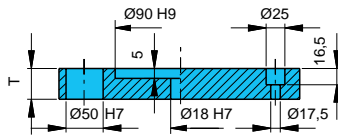
SF
N 6060 SF T^A T^B H
N04 N10 - N10 / Mat. 126
R151
AG r=0 d=5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N04

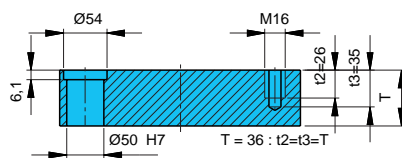


N03

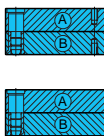
REF.	T	Mat.	REF.	T	Mat.
N04-6060-36/1		1730	N03-6060-36/1		1730



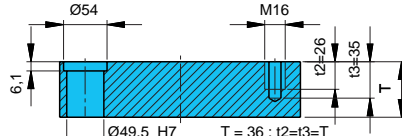
S



N10



SO



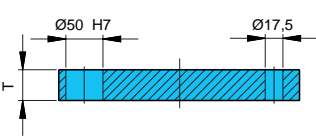
N15

REF.	Mat.	T ^A T ^B									
N10-6060-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-6060-T/3	2312										
N10-6060-T/5	2344										
N10-6060-T/7	2311										
N10-6060-T/9	Impax										

REF.	Mat.	T ^A T ^B									
N15-6060-T/5	2344	36	56	76	96	106	126	146	166	186	206



N20

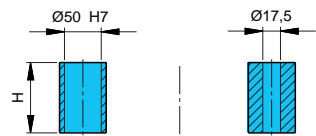


N20

REF.	T	Mat.
N20-6060-56/1		1730



N30

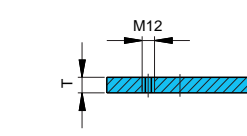


N30

REF.	Mat.	H
N30-H-6060/1	1730	106 126
		56 76



N40

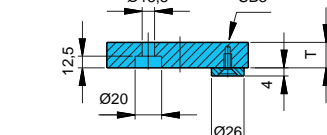


N40

REF.	T	Mat.
N40-20-6060/1		1730



N50



N50

REF.	T	Mat.
N50-26-6060/1		1730

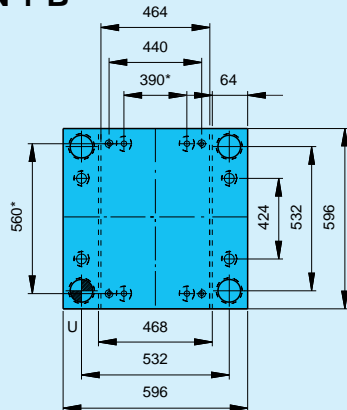
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

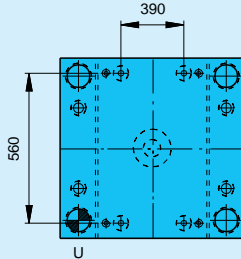
N 6060

(596 x 596 mm)

N + B

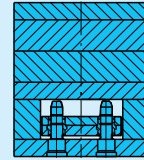


R + SF

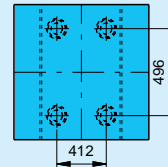


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

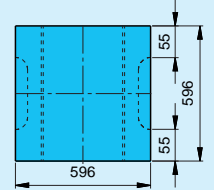
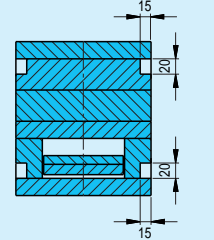
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



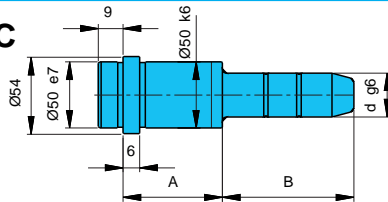
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

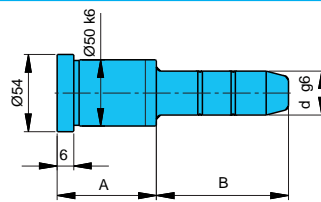


FSC



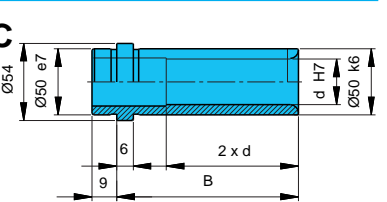
REF. d	A - B	REF. d	A - B
FSC 42- 36- 56	- 96	FSC 41- 36- 56	- 96
-126	-126	-126	-126
FSC 42- 56- 76	-126	FSC 41- 56- 76	-126
-166	-166	-166	-166
FSC 42- 76- 96	-146	FSC 41- 76- 96	-146
-146	-146	-146	-146
FSC 42- 96- 76	- 96	FSC 41- 96- 76	- 96
-146	-146	-146	-146
FSC 42-106- 96	-146	FSC 41-106- 96	-146
-146	-146	-146	-146
FSC 42-126- 86	-146	FSC 41-126- 86	-146
-146	-146	-146	-146
FSC 42-146- 96	-146	FSC 41-146- 96	-146
-146	-146	-146	-146
FSC 42-166-166	-146	FSC 41-166-166	-146
-146	-146	-146	-146
FSC 42-186-186	-146	FSC 41-186-186	-146
-146	-146	-146	-146
FSC 42-206-206	-146	FSC 41-206-206	-146

FSN



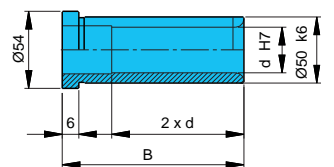
REF. d	A - B	REF. d	A - B
FSN 42- 36- 56	- 96	FSN 41- 36- 56	- 96
-126	-126	-126	-126
FSN 42- 56- 76	-126	FSN 41- 56- 76	-126
-126	-126	-126	-126
FSN 42- 76- 96	- 96	FSN 41- 76- 96	- 96
-146	-146	-146	-146
FSN 42- 96- 76	- 96	FSN 41- 96- 76	- 96
-146	-146	-146	-146
FSN 42-106- 76	- 96	FSN 41-106- 76	- 96
-146	-146	-146	-146
FSN 42-126- 86	-146	FSN 41-126- 86	-146
-146	-146	-146	-146
FSN 42-146- 76	- 96	FSN 41-146- 76	- 96
-146	-146	-146	-146

FBC



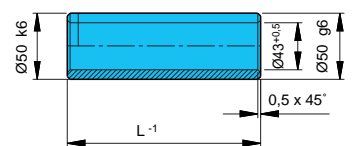
REF. d	B	REF. d	B
FBC 42- 36	- 56	FBC 41- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146
-166	-166	-166	-166
-186	-186	-186	-186
-206	-206	-206	-206

FBN



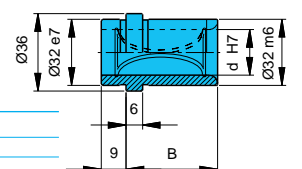
REF. d	B	REF. d	B
FBN 42- 36	- 56	FBN 41- 36	- 56
- 76	- 76	- 76	- 76
- 96	- 96	- 96	- 96
-106	-106	-106	-106
-126	-126	-126	-126
-146	-146	-146	-146

TD



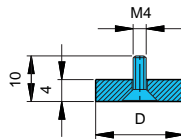
REF. L	REF. L
TD 50- 60	TD 50-160
-130	-180

GEB



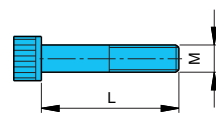
REF. B	REF. B
GEB 24-26	GEB 24-26

SB



REF. D	REF. D
SB3 26	SB3 26

M



REF. L	REF. L
M 12 x 25	M 16 x 35
	x150
	x180
	x210
	x240

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 6070

(596 x 696 mm)

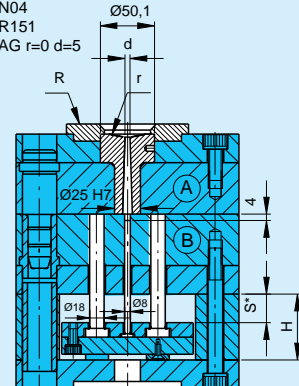
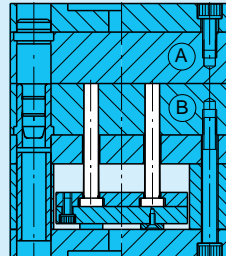
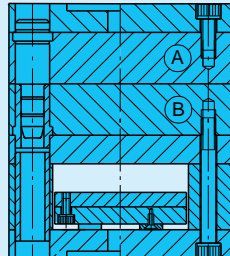
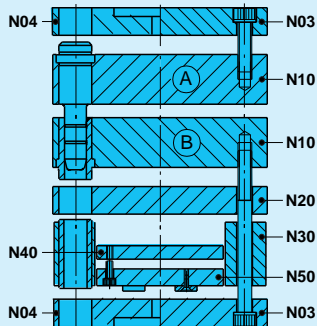
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 6070 N T[Ⓐ] T[Ⓑ] H
N03 N10 - N10 / Mat. 126

B
N 6070 B T[Ⓐ] T[Ⓑ] H
N03 N10 - N10 / Mat. 126

R
N 6070 R T[Ⓐ] T[Ⓑ] H
N03 N10 - N10 / Mat. 126

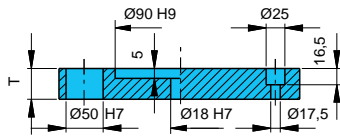
SF
N 6070 SF T[Ⓐ] T[Ⓑ] H
N04 N10 - N10 / Mat. 126
R151
AG r=0 d=5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N04

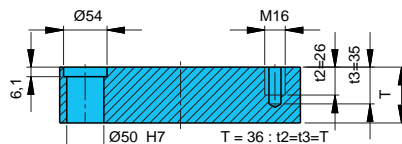


N03

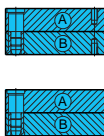
REF.	T	Mat.	REF.	T	Mat.
N04-6070-36/1		1730	N03-6070-36/1		1730



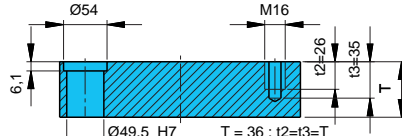
S



N10



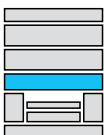
SO



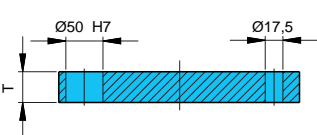
N15

REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N10-6070-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-6070-T/3	2312										
N10-6070-T/5	2344										
N10-6070-T/7	2311										
N10-6070-T/9	Impax										

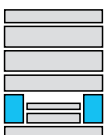
REF.	Mat.	T [Ⓐ] T [Ⓑ]									
N15-6070-T/5	2344	36	56	76	96	106	126	146	166	186	206



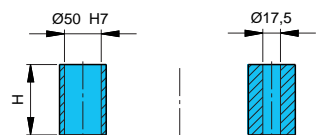
N20



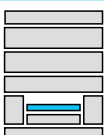
REF.	T	Mat.
N20-6070-56/1		1730



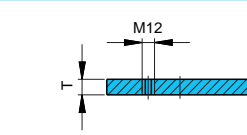
N30



REF.	Mat.	H
N30-H-6070/1	1730	106 126
		56 76



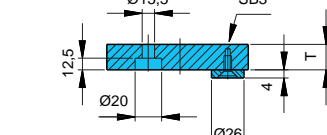
N40



REF.	T	Mat.
N40-20-6070/1		1730



N50



REF.	T	Mat.
N50-26-6070/1		1730

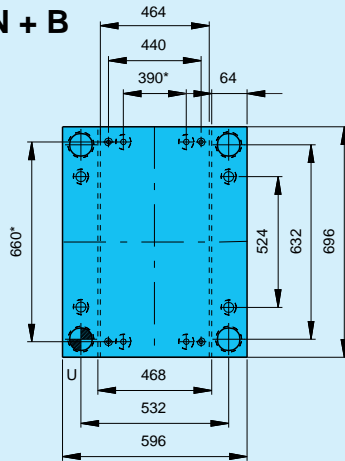
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

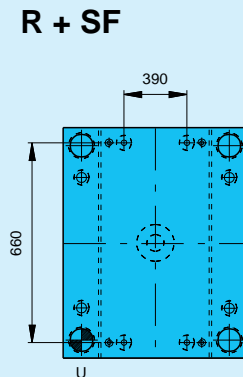
N 6070

(596 x 696 mm)

N + B

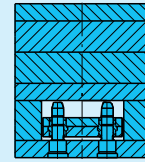


R + SF

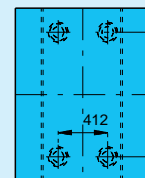


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

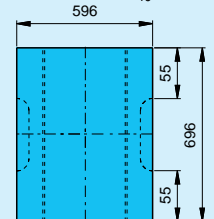
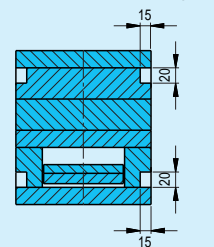
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



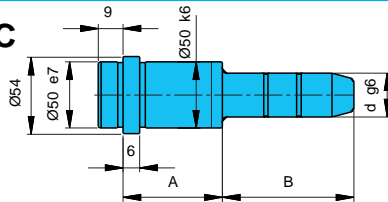
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

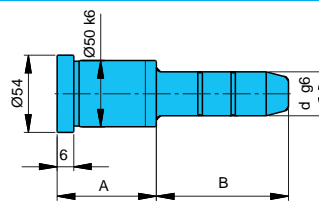


FSC



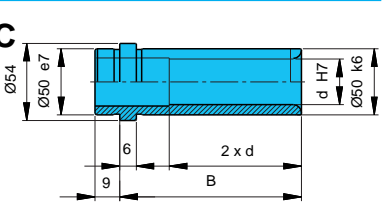
REF. d	A - B	REF. d	A - B
FSC 42- 36- 56		FSC 41- 36- 56	
- 96		- 96	
-126		-126	
FSC 42- 56- 76		FSC 41- 56- 76	
-126		-126	
-166		-166	
FSC 42- 76- 96		FSC 41- 76- 96	
-146		-146	
FSC 42- 96- 76		FSC 41- 96- 76	
- 96		- 96	
-146		-146	
FSC 42-106- 96		FSC 41-106- 96	
-146		-146	
FSC 42-126- 86		FSC 41-126- 86	
-146		-146	
FSC 42-146- 96		FSC 41-146- 96	
-146		-146	
FSC 42-166-166		FSC 41-166-166	
FSC 42-186-186		FSC 41-186-186	
FSC 42-206-206		FSC 41-206-206	

FSN



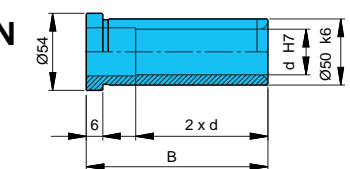
REF. d	A - B	REF. d	A - B
FSN 42- 36- 56		FSN 41- 36- 56	
- 96		- 96	
-126		-126	
FSN 42- 56- 76		FSN 41- 56- 76	
-126		-126	
FSN 42- 76- 96		FSN 41- 76- 96	
- 96		- 96	
-146		-146	
FSN 42- 96- 76		FSN 41- 96- 76	
- 96		- 96	
-146		-146	
FSN 42-106- 76		FSN 41-106- 76	
- 96		- 96	
-146		-146	
FSN 42-126- 86		FSN 41-126- 86	
-146		-146	
FSN 42-146- 76		FSN 41-146- 76	
- 96		- 96	
-146		-146	

FBC



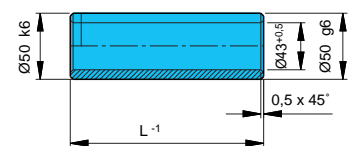
REF. d	B	REF. d	B
FBC 42- 36		FBC 41- 36	
- 56		- 56	
- 76		- 76	
- 96		- 96	
-106		-106	
-126		-126	
-146		-146	
-166		-166	
-186		-186	
-206		-206	

FBN



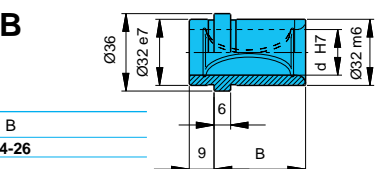
REF. d	B	REF. d	B
FBN 42- 36		FBN 41- 36	
- 56		- 56	
- 76		- 76	
- 96		- 96	
-106		-106	
-126		-126	
-146		-146	

TD



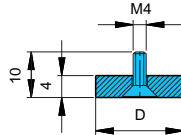
REF. L	REF. L
TD 50- 60	TD 50-160
-130	-180

GEB



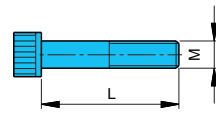
REF. B	REF. B
GEB 24-26	

SB



REF. D	REF. D
SB3 26	

M



REF. L	REF. L
M 12 x 25	M 16 x 35
	x150
	x180
	x210
	x240

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 6080

(596 x 796 mm)

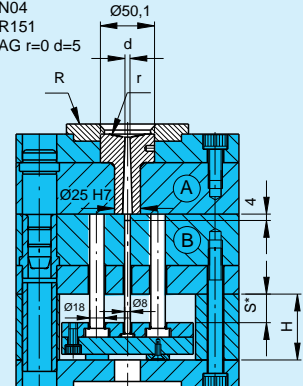
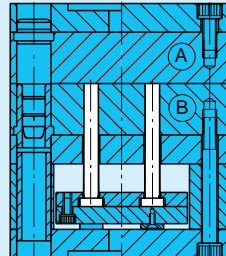
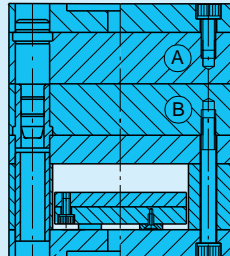
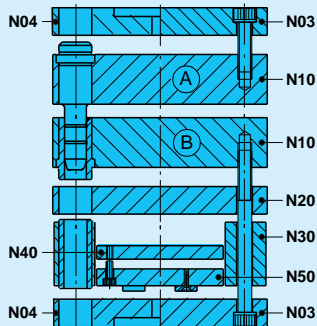
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 6080 N T^A T^B H
N03 N10 - N10 / Mat. 126

B
N 6080 B T^A T^B H
N03 N10 - N10 / Mat. 126

R
N 6080 R T^A T^B H
N03 N10 - N10 / Mat. 126

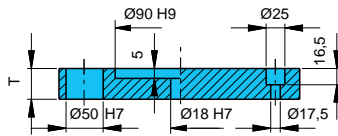
SF
N 6080 SF T^A T^B H
N04 N10 - N10 / Mat. 126
R151
AG r=0 d=5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N04

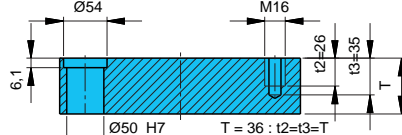


N03

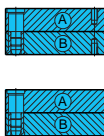
REF.	T	Mat.	REF.	T	Mat.
N04-6080-36/1		1730	N03-6080-36/1		1730



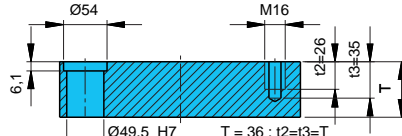
S



N10



SO



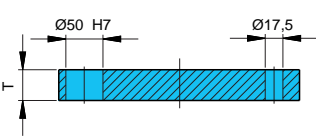
N15

REF.	Mat.	T ^A T ^B									
N10-6080-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-6080-T/3	2312										
N10-6080-T/5	2344										
N10-6080-T/7	2311										
N10-6080-T/9	Impax										

REF.	Mat.	T ^A T ^B									
N15-6080-T/5	2344	36	56	76	96	106	126	146	166	186	206



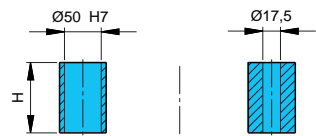
N20



REF.	T	Mat.
N20-6080-56/1		1730



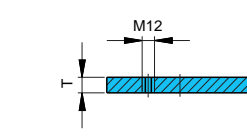
N30



REF.	Mat.	H
N30-H-6080/1	1730	106 126
		56 76



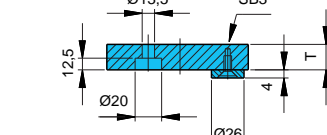
N40



REF.	T	Mat.
N40-20-6080/1		1730



N50



REF.	T	Mat.
N50-26-6080/1		1730

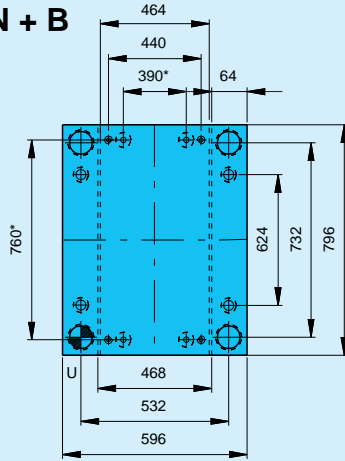
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietsmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

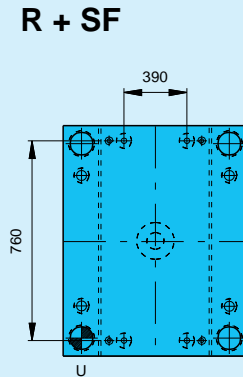
N 6080

(596 x 796 mm)

N + B

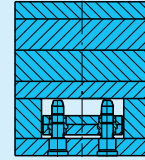


R + SF

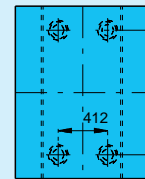


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

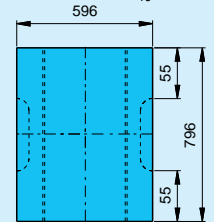
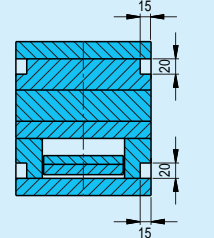
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



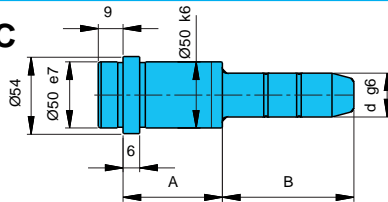
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

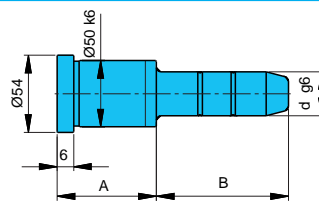


FSC



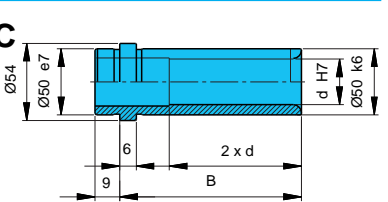
REF. d	A - B	REF. d	A - B
FSC 42- 36- 56		FSC 41- 36- 56	
- 96		- 96	
-126		-126	
FSC 42- 56- 76		FSC 41- 56- 76	
-126		-126	
-166		-166	
FSC 42- 76- 96		FSC 41- 76- 96	
-146		-146	
FSC 42- 96- 76		FSC 41- 96- 76	
- 96		- 96	
-146		-146	
FSC 42-106- 96		FSC 41-106- 96	
-146		-146	
FSC 42-126- 86		FSC 41-126- 86	
-146		-146	
FSC 42-146- 96		FSC 41-146- 96	
-146		-146	
FSC 42-166-166		FSC 41-166-166	
FSC 42-186-186		FSC 41-186-186	
FSC 42-206-206		FSC 41-206-206	

FSN



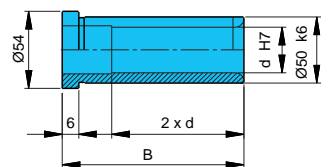
REF. d	A - B	REF. d	A - B
FSN 42- 36- 56		FSN 41- 36- 56	
- 96		- 96	
-126		-126	
FSN 42- 56- 76		FSN 41- 56- 76	
-126		-126	
FSN 42- 76- 76		FSN 41- 76- 76	
- 96		- 96	
146		146	
FSN 42- 96- 76		FSN 41- 96- 76	
- 96		- 96	
-146		-146	
FSN 42-106- 76		FSN 41-106- 76	
- 96		- 96	
146		146	
FSN 42-126- 86		FSN 41-126- 86	
-146		-146	
FSN 42-146- 76		FSN 41-146- 76	
- 96		- 96	
146		146	

FBC



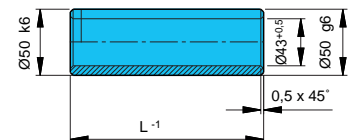
REF. d	B	REF. d	B
FBC 42- 36		FBC 41- 36	
- 56		- 56	
- 76		- 76	
- 96		- 96	
-106		-106	
-126		-126	
-146		-146	
-166		-166	
-186		-186	
206		206	

FBN



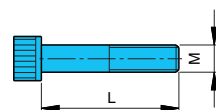
REF. d	B	REF. d	B
FBN 42- 36		FBN 41- 36	
- 56		- 56	
- 76		- 76	
- 96		- 96	
-106		-106	
-126		-126	
-146		-146	

TD



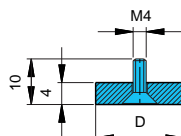
REF. L	REF. L
TD 50- 60	TD 50-160
-130	-180

M



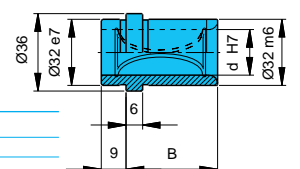
REF. L	REF. L
M 12 x 25	M 16 x 35
	x150
	x180
	x210
	x240

SB



REF. D
SB3 26

GEB



REF. B
GEB 24-26

♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

N 6090

(596 x 896 mm)

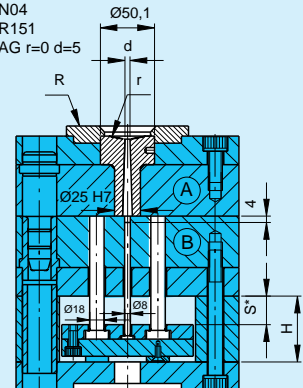
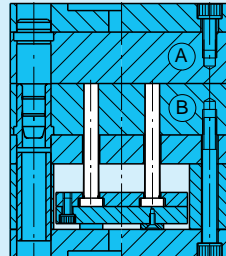
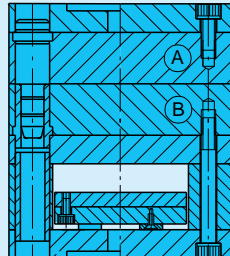
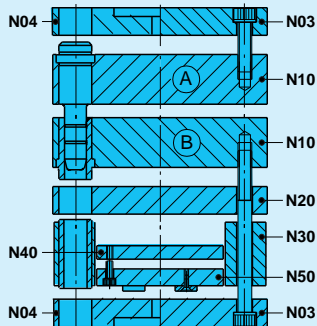
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base

N
N 6090 N T^A T^B H
N03 N10 - N10 / Mat. 126

B
N 6090 B T^A T^B H
N03 N10 - N10 / Mat. 126

R
N 6090 R T^A T^B H
N03 N10 - N10 / Mat. 126

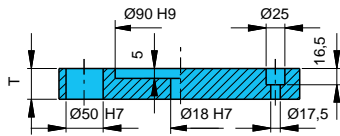
SF
N 6090 SF T^A T^B H
N04 N10 - N10 / Mat. 126
R151
AG r=0 d=5



♥ Interchangeable drilled N-plates - ♦ Austauschbar gebohrte N-Platten - ♣ Uitwisselbaar geboorde N-platen - ♠ Plaques alésées interchangeables type N



N04

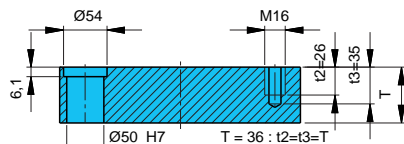


N03

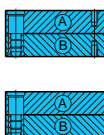
REF.	T	Mat.	REF.	T	Mat.
N04-6090-36/1		1730	N03-6090-36/1		1730



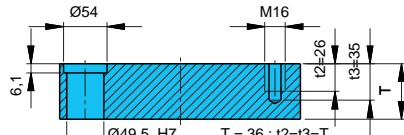
S



N10



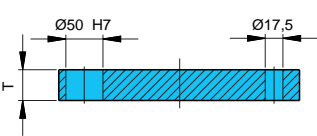
SO



N15

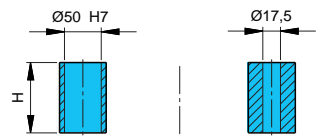
REF.	Mat.	T ^A T ^B									
N10-6090-T/1	1730	36	56	76	96	106	126	146	166	186	206
N10-6090-T/3	2312										
N10-6090-T/5	2344										
N10-6090-T/7	2311										
N10-6090-T/9	Impax										

REF.	Mat.	T ^A T ^B									
N15-6090-T/5	2344	36	56	76	96	106	126	146	166	186	206



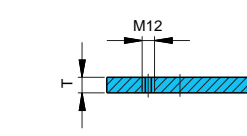
N20

REF.	T	Mat.
N20-6090-56/1		1730



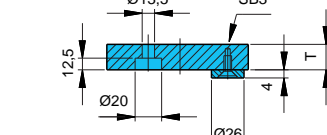
N30

REF.	Mat.	H	
N30-H-6090/1	1730	106	126
		56	76



N40

REF.	T	Mat.
N40-20-6090/1		1730



N50

REF.	T	Mat.
N50-26-6090/1		1730

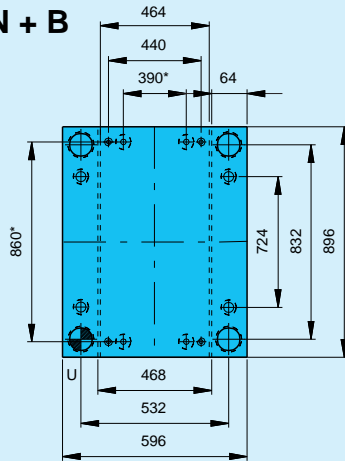
♥ Mold bases plastics - N-plates
♦ Spritzgieß-Normalien - N-Platten

Spuitgietmatrijzen - N-platen ♣
Porte-moules pour matières plastiques - plaques N ♠

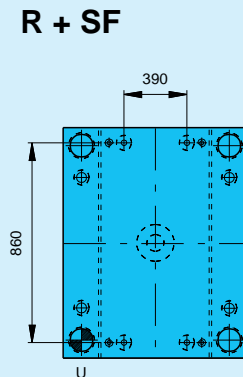
N 6090

(596 x 896 mm)

N + B

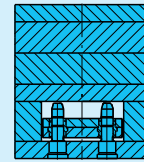


R + SF

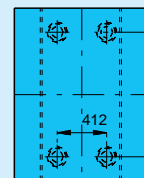


*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

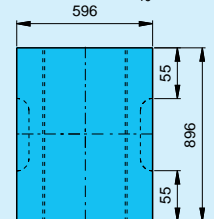
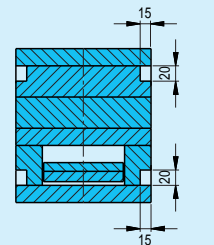
♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



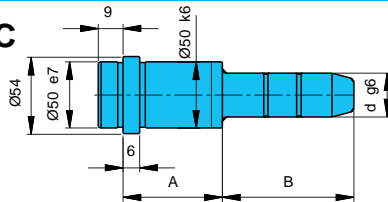
N30	FSN	FBC	GEB
106	24-36-106	24-26	GEB 24-26
126	24-36-126		



♥ Clamp slots
♦ Spannuten
♣ Spangroeven
♠ Rainures de bridage

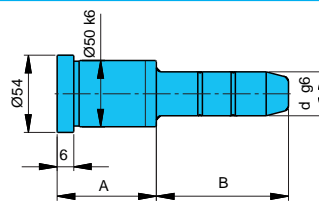


FSC



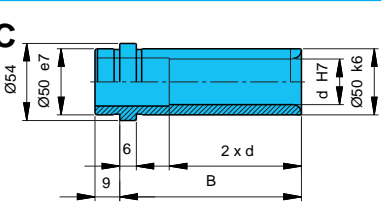
REF. d	A - B	REF. d	A - B
FSC 42- 36- 56		FSC 41- 36- 56	
- 96		- 96	
-126		-126	
FSC 42- 56- 76		FSC 41- 56- 76	
-126		-126	
-166		-166	
FSC 42- 76- 96		FSC 41- 76- 96	
-146		-146	
FSC 42- 96- 76		FSC 41- 96- 76	
- 96		- 96	
-146		-146	
FSC 42-106- 96		FSC 41-106- 96	
-146		-146	
FSC 42-126- 86		FSC 41-126- 86	
-146		-146	
FSC 42-146- 96		FSC 41-146- 96	
-146		-146	
FSC 42-166-166		FSC 41-166-166	
FSC 42-186-186		FSC 41-186-186	
FSC 42-206-206		FSC 41-206-206	

FSN



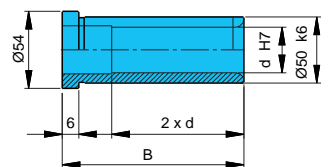
REF. d	A - B	REF. d	A - B
FSN 42- 36- 56		FSN 41- 36- 56	
- 96		- 96	
-126		-126	
FSN 42- 56- 76		FSN 41- 56- 76	
-126		-126	
FSN 42- 76- 76		FSN 41- 76- 76	
- 96		- 96	
146		146	
FSN 42- 96- 76		FSN 41- 96- 76	
- 96		- 96	
-146		-146	
FSN 42-106- 76		FSN 41-106- 76	
- 96		- 96	
146		146	
FSN 42-126- 86		FSN 41-126- 86	
-146		-146	
FSN 42-146- 76		FSN 41-146- 76	
- 96		- 96	
146		146	

FBC



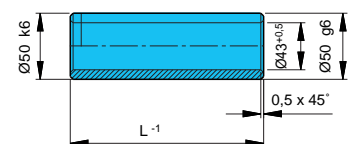
REF. d	B	REF. d	B
FBC 42- 36		FBC 41- 36	
- 56		- 56	
- 76		- 76	
- 96		- 96	
-106		-106	
-126		-126	
-146		-146	
-166		-166	
-186		-186	
206		206	

FBN



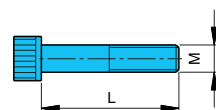
REF. d	B	REF. d	B
FBN 42- 36		FBN 41- 36	
- 56		- 56	
- 76		- 76	
- 96		- 96	
-106		-106	
-126		-126	
-146		-146	

TD



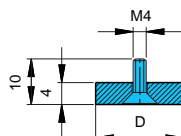
REF. L	REF. L
TD 50- 60	TD 50-160
-130	-180

M



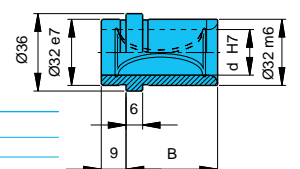
REF. L	REF. L
M 12 x 25	M 16 x 35
	x150
	x180
	x210
	x240

SB



REF. D
SB3 26

GEB



REF. B
GEB 24-26

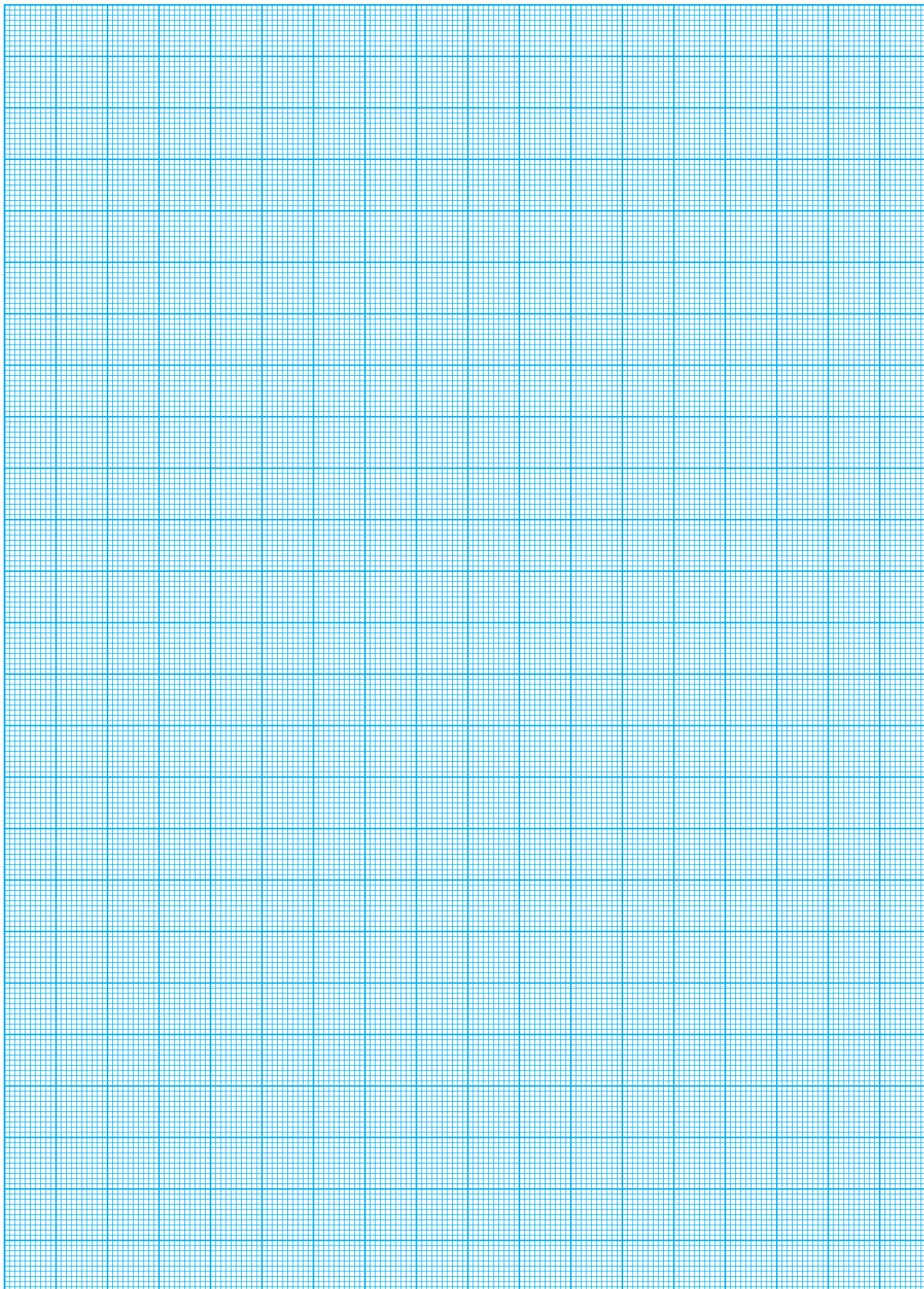
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Spuitgietmatrijzen - N-platen ♣

♦ Spritzgieß-Normalien - N-Platten

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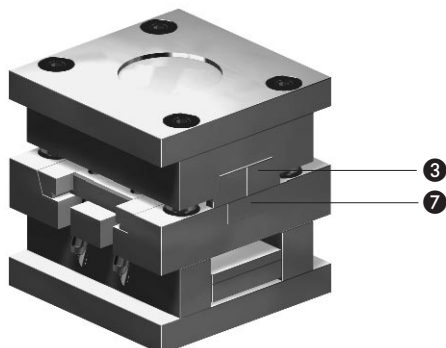
- ♥ Sliding core molds
- ♦ Backenformen

- Schuifmatrijzen ♣
- Moules à tiroirs ♠

Info

Standard

BK 41



♥ Ejector plate type

This sliding core system uses a conventional ejector design. This means a normal ejector and ejector retainer plate are built into the mold base and are actuated in the normal way. Euro-type fixing of pillars and bushes is used, with pillars fitted in the fixed half.

♦ Auswerfer-Ausführung

Die Auswerfer-Backenform wird dort eingesetzt, wo das Spritzteil durch Auswerferstifte, betätigt über Auswerferplatten, entformt wird.

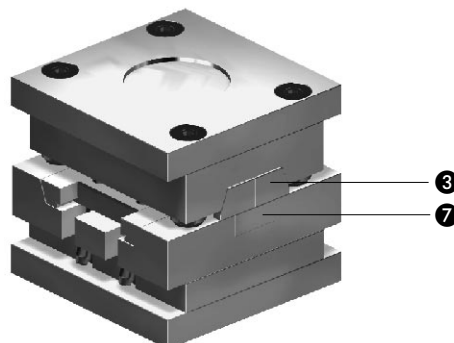
♣ Uitwerptype

Dit concept van schuifmatrijzen maakt gebruik van een conventioneel uitwerpsysteem. Dit betekent dat een normale uitwerp- en uitwerpdekplaat in de matrijs worden ingebouwd op de normale manier. Er wordt gebruik gemaakt van een Euro-type geleidingssysteem, met de geleide pennen in de vaste matrijshelft.

♠ Type à plaque éjectrice

Ce système à tiroirs utilise un système d'éjection classique. Ceci signifie qu'une plaque et contre-plaque éjectrice sont montées dans la base de la façon normale. La fixation Euro-type des colonnes et bagues de guidage est utilisée.

BK 42



♥ Stripper plate type

This sliding core system uses a conventional stripper plate design. This allows the option of either sliding cores opening first, then conventional core stripping (mostly for thicker wall section moldings) or the core withdrawing first, then sliding cores opening (mostly for thin wall section moldings). Euro-type fixing is used but this design has the pillars fitted in the moving half.

♦ Abstreifer-Ausführung

Die Abstreifer-Backenform wird dort eingesetzt, wo das Spritzteil mit der Abstreiferplatte entformt wird. Zwei Abstreifarten sind möglich. Für dickwandige Teile öffnen zuerst die Backen, dann werden die Teile von dem Kern abgestreift. Für dünnwandige Teile wird bei geschlossenen Backen zuerst abgestreift und dann erst werden die Backen geöffnet.

♣ Afstrooptype

Dit concept van schuifmatrijzen maakt gebruik van een conventioneel afstroopsysteem. Dit schept de mogelijkheid om ofwel eerst de schuiven te openen, gevolgd door het conventioneel afstropen van de kernplaat (meestal voor dikwandige producten), ofwel de kernplaat eerst terug te trekken, gevolgd door het openen van de schuiven (meestal voor dunwandige producten). Er wordt gebruik gemaakt van een Euro-type geleidingssysteem met de geleide pennen in de bewegende matrijshelft.

♠ Type à plaque dévêtisseuse

Ce système à tiroirs utilise un système d'éjection par plaque dévêtisseuse. On peut opter soit pour l'ouverture des tiroirs en premier (recommandé pour les moulages à parois épaisses), soit pour le dévêtissage en premier, suivi de l'ouverture des tiroirs (recommandé pour les parois minces). La fixation Euro-type des colonnes et bagues de guidage est utilisée.

Info

♥ Stainless steel (upon request)

♦ Rostfreies Stahl (auf Anfrage)

♣ Roestvrij staal (op aanvraag)

♠ Acier inoxydable (sur demande)

BKS 41

♥ Ejector plate type BK 41 but all plates are in stainless steel. The split cavity blocks 3 and core bar 7 are available in DME 10 (Ramax® S) and in DME 11 (Stavax® ESR).

♦ Auswerfer-Ausführung BK 41 aber alle Platten sind aus korrosionsfreiem Stahl. Die Formbacken 3 und die Kernleiste 7 sind verfügbar in DME 10 (Ramax® S) und DME 11 (Stavax® ESR).

♣ Uitwerptype BK 41 maar alle platen zijn uit roestvrij staal vervaardigd. De schuiven 3 en de kernplaat 7 zijn leverbaar in DME 10 (Ramax® S) en DME 11 (Stavax® ESR).

♠ Type à plaque éjectrice BK 41, mais avec toutes les plaques en acier inoxydable. Les blocs tiroirs 3 et la base tiroirs 7 sont disponibles en acier DME 10 (Ramax® S) et DME 11 (Stavax® ESR).

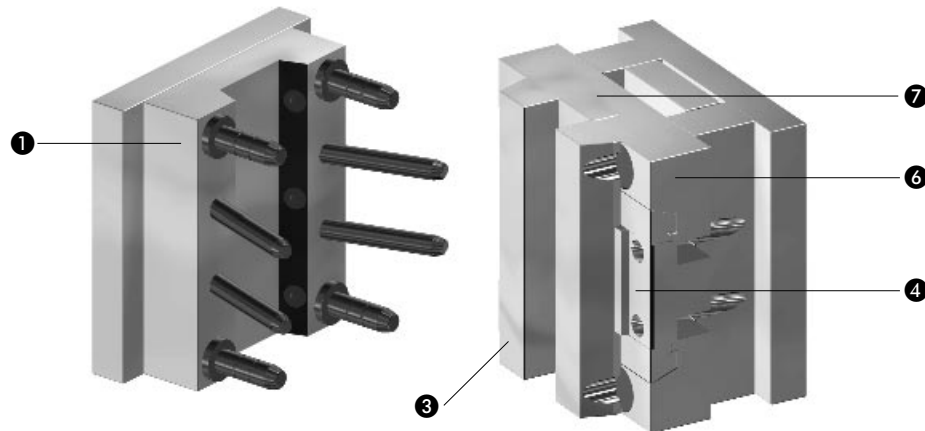
BKS 42

♥ Stripper plate type BK 42 but all plates are in stainless steel. The split cavity blocks 3 and core bar 7 are available in DME 10 (Ramax® S) and in DME 11 (Stavax® ESR).

♦ Abstreifer-Ausführung BK 42 aber alle Platten sind aus korrosionsfreiem Stahl. Die Formbacken 3 und die Kernleiste 7 sind verfügbar in DME 10 (Ramax® S) und DME 11 (Stavax® ESR).

♣ Afstrooptype BK 42 maar alle platen zijn uit roestvrij staal vervaardigd. De schuiven 3 en de kernplaat 7 zijn leverbaar in DME 10 (Ramax® S) en DME 11 (Stavax® ESR).

♠ Type à plaque dévêtisseuse BK 42 mais avec toutes les plaques en acier inoxydable. Les blocs tiroirs 3 et la base tiroirs 7 sont disponibles en acier DME 10 (Ramax® S) et DME 11 (Stavax® ESR).

Info**♥ Features**

1. Split cavity blocks **3** (BK 4013) and core bar **7** (BK 4016) can be used over the total length of the mold.
2. Split cavity blocks **3** (BK 4013 A & B) and core bar **7** (BK 4016) are available in DME 3 (1.2312), DME 5 (1.2344), DME 6 (1.2767), DME 7 (1.2311), DME 9 (Impax® Supreme), DME 10 (Ramax® S), DME 11 (Stavax® ESR). Other steel qualities upon request.
3. Machining and/or heat treatment of the split cavity blocks **3** (BK 4013 A & B) will not distort the guiding system as they are screwed and doweled separately to the guide blocks **4** (BK 4014/ BKS 4014).
4. The location of the locking system does not interfere with the parts to be ejected.
5. The holes for the angle pins are bored through the guide blocks **4** (BK 4014/ BKS 4014) and not through the split cavity blocks **3** (BK 4013 A & B). This gives maximum space for machining and cooling of cavities.
6. Larger bottom plate **6** (BK 4017/ BKS 4017) allows larger opening of the split cavity blocks **3** (BK 4013 A & B).
7. Top bolster plate **1** (BK 4011/ BKS 4011) in one piece - in steel DME 3 (1.2312) or DME 10 (Ramax® S) - allow greater closing pressure of the split cavity blocks **3** (BK 4013 A & B).
8. The pocket for the core bar **7** (BK 4016) is precisely central and made to a H8 tolerance.
9. Mold can be adapted in assembled condition.
10. Other dimensions and split heights upon request.
11. A new sliding core mold concept completely in stainless steel is available as from now. The steel quality for the split cavity blocks **3** (BK 4013 A & B) and core bar **7** (BK 4016) is optional - DME 10 (Ramax® S) or DME 11 (Stavax® ESR).

◆ Konstruktionsmerkmale

1. Formbacken **3** (BK 4013 A & B) und Kernleiste **7** (BK 4016) erstrecken sich über die ganze Länge der Form.
2. Formbacken **3** (BK 4013 A & B) und Kernleiste **7** (BK 4016) in den Stahlsorten DME 3 (1.2312), DME 5 (1.2344), DME 6 (1.2767), DME 7 (1.2311), DME 9 (Impax® Supreme), DME 10 (Ramax® S), DME 11 (Stavax® ESR). Andere Stahlqualitäten auf Anfrage.
3. Bearbeitung und/oder Wärmebehandlung der Formbacken **3** (BK 4013 A & B) beeinflusst das Führungssystem nicht, weil dieses unabhängig davon mit den Führungsplatten **4** (BK 4014/ BKS 4014) verschraubt und verstiftet ist.
4. Die hinter den Formbacken liegenden Führungen können die Spritzlinge beim Herausfallen nicht behindern.
5. Die Schrägsäulen durchdringen die Führungsplatten **4** (BK 4014/ BKS 4014) und nicht die Formbacken **3** (BK 4013 A & B). Dadurch geht kein Platz für Gravur und Kühlung in den Formbacken verloren.
6. Breitere Bodenplatte **6** (BK 4017/ BKS 4017) ermöglicht größere Backenöffnungswege.
7. Zuhalteplatte **1** (BK 4011/ BKS 4011) aus einem Stück gearbeitet, DME 3 (1.2312) oder DME 10 (Ramax® S). Daher besonders große Formbacken-Schließkräfte möglich.
8. Die Tasche für die Kernleiste **7** (BK 4016) ist präzise, zentral und in H8 Toleranz gefertigt.
9. Die Form kann in zusammengebautem Zustand angepasst werden.
10. Andere Abmessungen und Backenhöhen auf Anfrage.
11. Ein neues Backenformkonzept in korrosionsfreiem Stahl ist ab sofort verfügbar. Die Stahlqualität für die Formbacken **3** (BK 4013 A & B) und die Kernleiste **7** (BK 4016) ist wahlweise -DME 10 (Ramax® S) oder DME 11 (Stavax® ESR).

♣ Kenmerken

1. Schuiven **3** (BK 4013 A & B) en kernplaat **7** (BK 4016) kunnen over de ganse lengte van de matrijs gebruikt worden.
2. Schuiven **3** (BK 4013 A & B) en kernplaat **7** (BK 4016) zijn beschikbaar in staal DME 3 (1.2312), DME 5 (1.2344), DME 6 (1.2767), DME 7 (1.2311), DME 9 (Impax® Supreme), DME 10 (Ramax® S), DME 11 (Stavax® ESR).
3. Bewerken en/of harden van de schuiven **3** (BK 4013 A & B) veroorzaakt geen vervorming aan het geleidingssysteem aangezien de schuiven onafhankelijk van het systeem aan de leiblokken **4** (BK 4014/ BKS 4014) vastgeschroefd en verpend zijn.
4. Het geleidingssysteem, dat zich achter de schuiven bevindt, hindert het uitwerpen van de spuitgietprodukten niet.
5. De schuifpennen steken enkel door de leiblokken **4** (BK 4014/ BKS 4014) en niet door de schuiven **3** (BK 4013 A & B). Hierdoor ontstaat er meer ruimte voor de bewerking en koeling van de vormholtes.
6. Een bredere grondplaat **6** (BK 4017/ BKS 4017) zorgt voor een grotere openingsweg van de schuiven **3** (BK 4013 A & B).
7. De sluitplaat **1** (BK 4011/ BKS 4011) is uit één stuk - in staal DME 3 (1.2312) of DME 10 (Ramax® S) - waardoor een grotere sluitkracht van de schuiven **3** (BK 4013 A & B) mogelijk is.
8. De uitkamering voor de kernplaat **7** (BK 4016) ligt precies centraal en heeft een tolerantie H8.
9. De matrijs kan aangepast worden in samengebouwde toestand.
10. Andere afmetingen en hoogtes van de schuiven op aanvraag.
11. Vanaf heden is een nieuw schuifmatrijsconcept uit roestvrij staal beschikbaar. De staalkwaliteit voor de schuiven **3** (BK 4013 A & B) en de kernplaat **7** (BK 4016) is optioneel -DME 10 (Ramax® S) of DME 11 (Stavax® ESR).

♠ Caractéristiques

1. Les blocs tiroirs **3** (BK 4013 A & B) et la base tiroirs **7** (BK 4016) peuvent être employés sur la longueur totale du moule.
2. Les blocs tiroirs **3** (BK 4013 A & B) et la base tiroirs **7** (BK 4016) sont disponibles en acier DME 3 (1.2312), DME 5 (1.2344), DME 6 (1.2767), DME 7 (1.2311), DME 9 (Impax® Supreme), DME 10 (Ramax® S), DME 11 (Stavax® ESR). Autres qualités d'acier sur demande.
3. L'usinage et/ou le traitement thermique des blocs tiroirs **3** (BK 4013 A & B) ne déforme(nt) pas le système de guidage parce que les tiroirs sont vissés et centrés subséquentement.
4. Le guidage arrière des tiroirs ne gêne en rien l'éjection des pièces moulées.
5. Les trous pour les doigts de démoulage sont alésés à travers les coulisseries **4** (BK 4014/ BKS 4014) en évitant les blocs tiroirs **3** (BK 4013 A & B). Ceci garantit un espace maximum pour l'usinage et le refroidissement.
6. La plaque support de coulisseries **6** (BK 4017/ BKS 4017) plus large permet une plus grande ouverture des blocs tiroirs **3** (BK 4013 A & B).
7. La plaque de rappel **1** (BK 4011/ BKS 4011) en une pièce et en acier DME 3 (1.2312) ou DME 10 (Ramax® S) autorise une pression de fermeture plus élevée des blocs tiroirs **3** (BK 4013 A & B).
8. La poche pour la base tiroirs **7** (BK 4016) est très exactement au centre et exécutée avec une précision H8.
9. Le moule peut être ajusté après assemblage.
10. D'autres dimensions et hauteurs de tiroirs sur demande.
11. Un nouveau type de moule à tiroirs entièrement en acier inoxydable est disponible dès à présent. La nuance d'acier pour les blocs tiroirs **3** (BK 4013 A & B) et la base tiroirs **7** (BK 4016) est alors fournie au choix en DME 10 (Ramax® S) ou en DME 11 (Stavax® ESR).

♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

Info BK(S) 41

♥ Ordering example ♦ Bestellbeispiel ♣ Bestelvoorbeeld ♠ Exemple de commande

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♥ Molds for plastics
♦ Spritzgießformen
♣ Kunststoffmatrijzen
♠ Moules pour matières plastiques

♥ SERIE(S) (width x length)
♦ (Breite x Länge)
♣ (breedte x lengte)
♠ (largeur x longueur)

♥ Sliding core molds
♦ Backenformen
♣ Schuifmatrijzen
♠ Moules à tiroirs

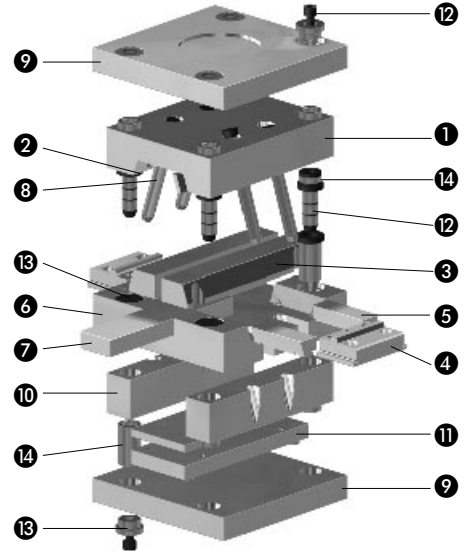
♥ Stainless steel
♦ Rostfreies Stahl
♣ Roestvrij staal
♠ Acier inoxydable

♥ Riser height 10
♦ Höhe Distanzleisten 10
♣ Hoogte steunlijsten 10
♠ Hauteur tasseaux 10

♥ Steel quality 3 & 7
♦ Stahlqualität 3 & 7
♣ Staalkwaliteit 3 & 7
♠ Qualité d'acier 3 & 7

♥ Height split cavity blocks 3
♦ Höhe der Formbacken 3
♣ Hoogte schuiven 3
♠ Hauteur des tiroirs 3

♥ Type of mold
♦ Typ der Form
♣ Matrijstype
♠ Type du moule



Standard

BK 41

♥ Consists of ♦ Besteht aus ♣ Bestaat uit ♠ Constitution:

REF.	Mat.	♥Description ♣Beschrijving ♠Description	♦Beschreibung ♠Description
1 1 x BK 4011	DME 3 – 1.2312	♥Top bolster plate ♣Sluitplaat	♦Zuhalteplatte ♠Plaque de rappel de fermeture
2 2 x BK 4012	1.7131	♥Wear strips ♣Slijtstrippen	♦Druckleisten ♠Plaquettes d'usure
3 2 x BK 4013 A	DME 3 – 1.2312 DME 5 – 1.2344 DME 6 – 1.2767 DME 7 – 1.2311 DME 9 – Impax DME 10 – Ramax DME 11 – Stavax	♥Split cavity blocks ♣Schuiven	♦Formbacken ♠Blocs tiroirs
4 2 x BK 4014	1.7131	♥Guide blocks ♣Leibblokken	♦Führungsplatten ♠Coulisseaux
5 4 x BK 4018	1.7131 Ampco 21*	♥Slides ♣Leiplates	♦Führungsleisten ♠Glissières
6 1 x BK 4017	DME 3 – 1.2312	♥Bottom plate ♣Grondplaat	♦Bodenplatte ♠Plaque support de coulisseaux
7 1 x BK 4016	DME 3 – 1.2312 DME 5 – 1.2344 DME 6 – 1.2767 DME 7 – 1.2311 DME 9 – Impax DME 10 – Ramax DME 11 – Stavax	♥Core bar ♣Kernplaat	♦Kernleiste ♠Base tiroirs
8 4 x APD	1.7131	♥Angle pins ♣Schuifpennen	♦Schrägstifte ♠Doigts de démoulage
9 2 x K 1300/K 1400	DME 1 – 1.1730	♥Clamping plates ♣Opspanplaten	♦Aufspannplatten ♠Semelles
10 2 x K 4200	DME 1 – 1.1730	♥Risers ♣Steunlijsten	♦Distanzleisten ♠Tasseaux
11 1 x K 6100/K 6200	DME 1 – 1.1730	♥Ejector plates ♣Uitwerplaten	♦Auswerferplatten ♠Plaques éjectrices
12 4 x K 7711 + K 7616	1.7131	♥Leader pins ♣Geleide pennen	♦Führungsstifte ♠Colonnes de guidage
13 4 x K 7721 + K 7616	1.7131	♥Leader pin bushings ♣Geleide bussen	♦Führungsbuchsen ♠Bagues de guidage
14 8 x K 7731	1.7131	♥Tubular dowels ♣Centreerhulzen	♦Passhülsen ♠Douilles de centrage

♥ Stainless steel
♦ Rostfreies Stahl

Roestvrij staal ♣
Acier inoxydable ♠

BKS 41

♥ Consists of ♦ Besteht aus ♣ Bestaat uit ♠ Constitution:

REF.	Mat.	♥Description ♣Beschrijving ♠Description	♦Beschreibung ♠Description
1 1 x BKS 4011	DME 10 – Ramax	♥Top bolster plate ♣Sluitplaat	♦Zuhalteplatte ♠Plaque de rappel de fermeture
2 2 x BKS 4012	DME 11 – Stavax	♥Wear strips ♣Slijtstrippen	♦Druckleisten ♠Plaquettes d'usure
3 2 x BK 4013 A	DME 10 – Ramax DME 11 – Stavax	♥Split cavity blocks ♣Schuiven	♦Formbacken ♠Blocs tiroirs
4 2 x BKS 4014	1.4112	♥Guide blocks ♣Leibblokken	♦Führungsplatten ♠Coulisseaux
5 4 x BK 4018	Ampco 21	♥Slides ♣Leiplates	♦Führungsleisten ♠Glissières
6 1 x BKS 4017	DME 10 – Ramax	♥Bottom plate ♣Grondplaat	♦Bodenplatte ♠Plaque support de coulisseaux
7 1 x BK 4016	DME 10 – Ramax DME 11 – Stavax	♥Core bar ♣Kernplaat	♦Kernleiste ♠Base tiroirs
8 4 x APD	1.7131	♥Angle pins ♣Schuifpennen	♦Schrägstifte ♠Doigts de démoulage
9 2 x KS 1300/KS 1400	DME 10 – Ramax	♥Clamping plates ♣Opspanplaten	♦Aufspannplatten ♠Semelles
10 2 x KS 4200	DME 10 – Ramax	♥Risers ♣Steunlijsten	♦Distanzleisten ♠Tasseaux
11 1 x KS 6100/KS 6200	DME 10 – Ramax	♥Ejector plates ♣Uitwerplaten	♦Auswerferplatten ♠Plaques éjectrices
12 4 x K 7711 + K 7616	1.7131	♥Leader pins ♣Geleide pennen	♦Führungsstifte ♠Colonnes de guidage
13 4 x K 7721 + K 7616	1.7131	♥Leader pin bushings ♣Geleide bussen	♦Führungsbuchsen ♠Bagues de guidage
14 8 x K 7731	1.7131	♥Tubular dowels ♣Centreerhulzen	♦Passhülsen ♠Douilles de centrage

* ♥ Upon request ♦ Auf Anfrage ♣ Op aanvraag ♠ Sur demande

♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

Info BK(S) 42

♥ Ordering example ♦ Bestellbeispiel ♣ Bestelvoorbeeld ♠ Exemple de commande

N 2025 BK(S) 42 - 27/Mat.

♥ Molds for plastics
♦ Spritzgießformen
♣ Kunststoffmatrijzen
♠ Moules pour matières plastiques

♥ SERIE(S) (width x length)
♦ (Breite x Länge)
♣ (breedte x lengte)
♠ (largeur x longueur)

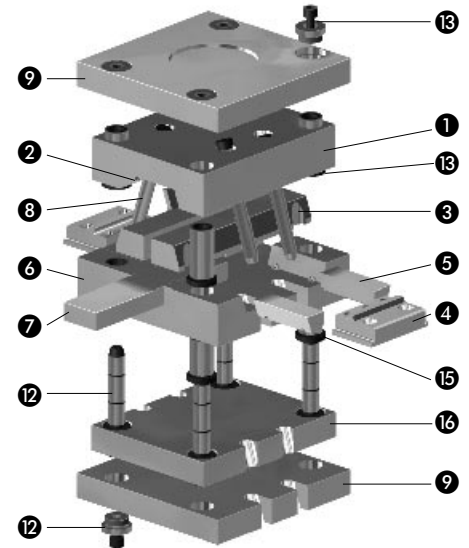
♥ Sliding core molds
♦ Backenformen
♣ Schuifmatrijzen
♠ Moules à tiroirs

♥ Stainless steel
♦ Rostfreies Stahl
♣ Roestvrij staal
♠ Acier inoxydable

♥ Steel quality ③ & ⑦
♦ Stahlqualität ③ & ⑦
♣ Staalkwaliteit ③ & ⑦
♠ Qualité d'acier ③ & ⑦

♥ Height split cavity blocks ③
♦ Höhe der Formbacken ③
♣ Hoogte schuiven ③
♠ Hauteur des tiroirs ③

♥ Type of mold
♦ Typ der Form
♣ Matrijstype
♠ Type du moule



Standard

BK 42

♥ Consists of ♦ Besteht aus ♣ Bestaat uit ♠ Constitution:

REF.	Mat.	♥Description ♣Beschrijving ♠Description	♦Beschreibung ♠Description
① 1 x BK 4011	DME 3 – 1.2312	♥Top bolster plate ♣Sluitplaat	♦Zuhalteplatte ♠Plaque de rappel de fermeture
② 2 x BK 4012	1.7131	♥Wear strips ♣Slijtstrippen	♦Druckleisten ♠Plaquettes d'usure
③ 2 x BK 4013 B	DME 3 – 1.2312 DME 5 – 1.2344 DME 6 – 1.2767 DME 7 – 1.2311 DME 9 – Impax DME 10 – Ramax DME 11 – Stavax	♥Split cavity blocks ♣Schuiven	♦Formbacken ♠Blocs tiroirs
④ 2 x BK 4014	1.7131	♥Guide blocks ♣Leiblokken	♦Führungsplatten ♠Coulisseaux
⑤ 4 x BK 4018	1.7131 Ampco 21*	♥Slides ♣Leiplates	♦Führungsleisten ♠Glissières
⑥ 1 x BK 4017	DME 3 – 1.2312	♥Bottom plate ♣Grondplaat	♦Bodenplatte ♠Plaque support de coulisseaux
⑦ 1 x BK 4016	DME 3 – 1.2312 DME 5 – 1.2344 DME 6 – 1.2767 DME 7 – 1.2311 DME 9 – Impax DME 10 – Ramax DME 11 – Stavax	♥Core bar ♣Kernplaat	♦Kernleiste ♠Base tiroirs
⑧ 4 x APD	1.7131	♥Angle pins ♣Schuifpennen	♦Schrägstifte ♠Doigts de démoulage
⑨ 2 x K 1300/K 1400	DME 1 – 1.1730	♥Clamping plates ♣Opspanplaten	♦Aufspannplatten ♠Semelles
⑩ 4 x K 7711 + K 7616	1.7131	♥Leader pins ♣Geleide pennen	♦Führungsstifte ♠Colonnes de guidage
⑪ 4 x K 7721 + K 7616	1.7131	♥Leader pin bushings ♣Geleide bussen	♦Führungsbuchsen ♠Bagues de guidage
⑫ 4 x K 7661	1.7131	♥Leader pin bushings ♣Geleide bussen	♦Führungsbuchsen ♠Bagues de guidage
⑬ 1 x K 2200	DME 1 – 1.1730	♥Support plate ♣Steunplaat	♦Kernhalteplatte ♠Plaque support

♥ Stainless steel
♦ Rostfreies Stahl

Roestvrij staal ♣
Acier inoxydable ♠

BKS 42

♥ Consists of ♦ Besteht aus ♣ Bestaat uit ♠ Constitution:

REF.	Mat.	♥Description ♣Beschrijving ♠Description	♦Beschreibung ♠Description
① 1 x BKS 4011	DME 10 – Ramax	♥Top bolster plate ♣Sluitplaat	♦Zuhalteplatte ♠Plaque de rappel de fermeture
② 2 x BKS 4012	DME 11 – Stavax	♥Wear strips ♣Slijtstrippen	♦Druckleisten ♠Plaquettes d'usure
③ 2 x BK 4013 B	DME 10 – Ramax DME 11 – Stavax	♥Split cavity blocks ♣Schuiven	♦Formbacken ♠Blocs tiroirs
④ 2 x BKS 4014	1.4112	♥Guide blocks ♣Leiblokken	♦Führungsplatten ♠Coulisseaux
⑤ 4 x BK 4018	Ampco 21	♥Slides ♣Leiplates	♦Führungsleisten ♠Glissières
⑥ 1 x BKS 4017	DME 10 – Ramax	♥Bottom plate ♣Grondplaat	♦Bodenplatte ♠Plaque support de coulisseaux
⑦ 1 x BK 4016	DME 10 – Ramax DME 11 – Stavax	♥Core bar ♣Kernplaat	♦Kernleiste ♠Base tiroirs
⑧ 4 x APD	1.7131	♥Angle pins ♣Schuifpennen	♦Schrägstifte ♠Doigts de démoulage
⑨ 2 x KS 1300/KS 1400	DME 10 – Ramax	♥Clamping plates ♣Opspanplaten	♦Aufspannplatten ♠Semelles
⑩ 4 x K 7711 + K 7616	1.7131	♥Leader pins ♣Geleide pennen	♦Führungsstifte ♠Colonnes de guidage
⑪ 4 x K 7721 + K 7616	1.7131	♥Leader pin bushings ♣Geleide bussen	♦Führungsbuchsen ♠Bagues de guidage
⑫ 4 x K 7661	1.7131	♥Leader pin bushings ♣Geleide bussen	♦Führungsbuchsen ♠Bagues de guidage
⑬ 1 x KS 2200	DME 10 – Ramax	♥Support plate ♣Steunplaat	♦Kernhalteplatte ♠Plaque support

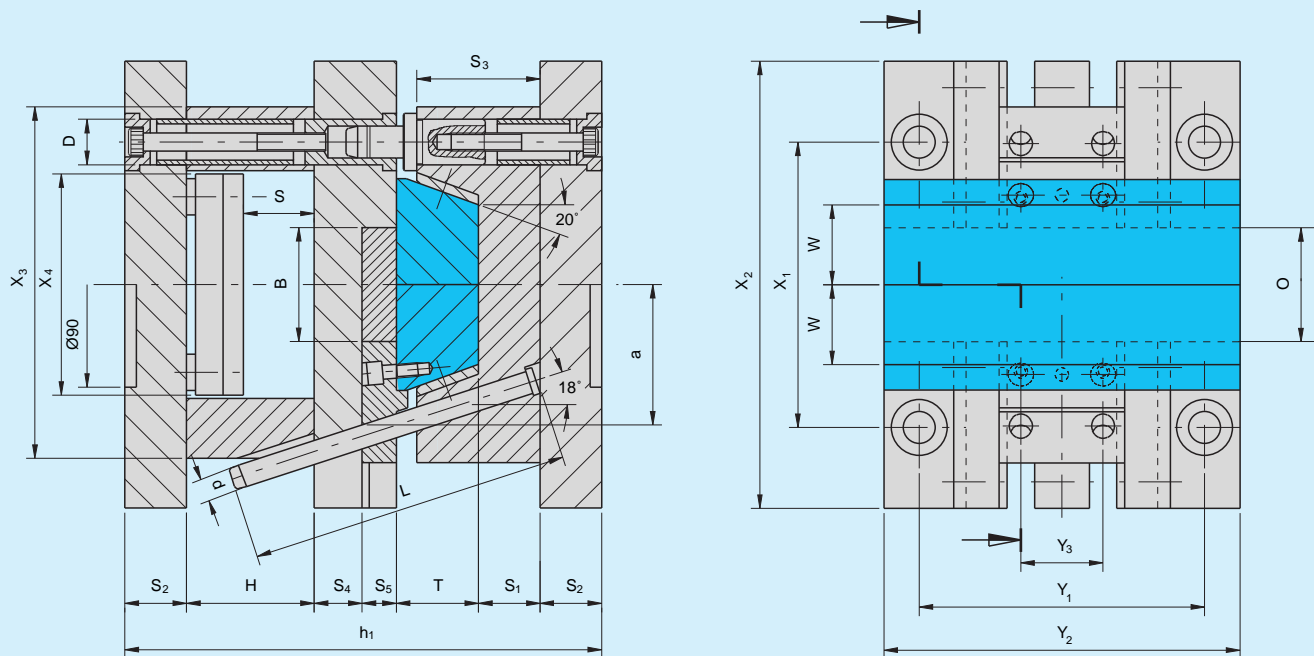
* ♥ Upon request ♦ Auf Anfrage ♣ Op aanvraag ♠ Sur demande

Info

♥ Dimensions chart - ♦ Übersichtstabelle

♣ Referentietabel - ♠ Tableau des dimensions

BK(S) 41



REF.	T	X1	X2	X3	X4	Y1	Y2	Y3	W	S1	S2	S3	S4	S5	H	h1	B	S	d	L	D	a	O
N 1216 BK(S) 41-27		95	156	125	67	125	156	36	24	27	27	46	21	15	46	190	36	21	10	120	20	47	34
N 1216 BK(S) 41-36		95	156	125	67	125	156	36	20	27	27	55	21	15	56	209	36	31	10	140	20	47	40
N 1616 BK(S) 41-27		125	196	156	97	125	156	36	39	27	27	46	21	15	46	190	50	21	10	120	20	59	34
N 1616 BK(S) 41-36		125	196	156	97	125	156	36	35	27	27	55	21	15	56	209	50	31	10	140	20	59	40
N 1620 BK(S) 41-27		118	196	156	80	160	196	54	32	27	27	46	26	20	46	200	45	21	14	120	25	57	34
N 1620 BK(S) 41-36		118	196	156	80	160	196	54	28	27	27	55	26	20	56	219	45	31	14	140	25	57	40
N 1620 BK(S) 41-46		118	196	156	80	160	196	54	25	36	27	74	26	20	76	258	45	51	14	160	25	57	40
N 2020 BK(S) 41-27		160	246	196	120	160	196	54	52	27	27	46	26	20	46	200	63	13	14	120	25	77	34
N 2020 BK(S) 41-36		160	246	196	120	160	196	54	48	27	27	55	26	20	56	219	63	23	14	140	25	77	40
N 2020 BK(S) 41-46		160	246	196	120	160	196	54	45	36	27	74	26	20	76	258	63	43	14	160	25	77	40
N 2025 BK(S) 41-27		160	246	196	120	210	246	100	52	27	27	46	26	20	56	210	63	23	14	140	25	77	46
N 2025 BK(S) 41-36		160	246	196	120	210	246	100	48	27	27	55	26	20	76	239	63	43	14	160	25	77	52
N 2025 BK(S) 41-46		160	246	196	120	210	246	100	45	36	27	74	26	20	76	258	63	43	14	180	25	77	52
N 2025 BK(S) 41-56		160	246	196	120	210	246	100	41	36	27	84	26	20	96	288	63	63	14	200	25	77	58
N 2525 BK(S) 41-27		210	296	246	170	210	246	100	77	27	27	46	26	20	56	210	100	23	14	140	25	102	46
N 2525 BK(S) 41-36		210	296	246	170	210	246	100	73	27	27	55	26	20	76	239	100	43	14	160	25	102	52
N 2525 BK(S) 41-46		210	296	246	170	210	246	100	70	36	27	74	26	20	76	258	100	43	14	180	25	102	52
N 2525 BK(S) 41-56		210	296	246	170	210	246	100	66	36	27	84	26	20	96	288	100	63	14	200	25	102	58
N 2530 BK(S) 41-46		200	296	246	160	244	296	110	60	36	36	74	31	25	76	286	80	43	18	180	25	97	50
N 2530 BK(S) 41-56		200	296	246	160	244	296	110	57	36	36	84	31	25	96	316	80	63	18	200	25	97	56
N 2530 BK(S) 41-76		200	296	246	160	244	296	110	50	46	36	114	31	25	96	346	80	63	18	230	25	97	56
N 2530 BK(S) 41-96		200	296	246	160	244	296	110	42	46	36	134	31	25	96	366	80	63	18	250	25	97	56

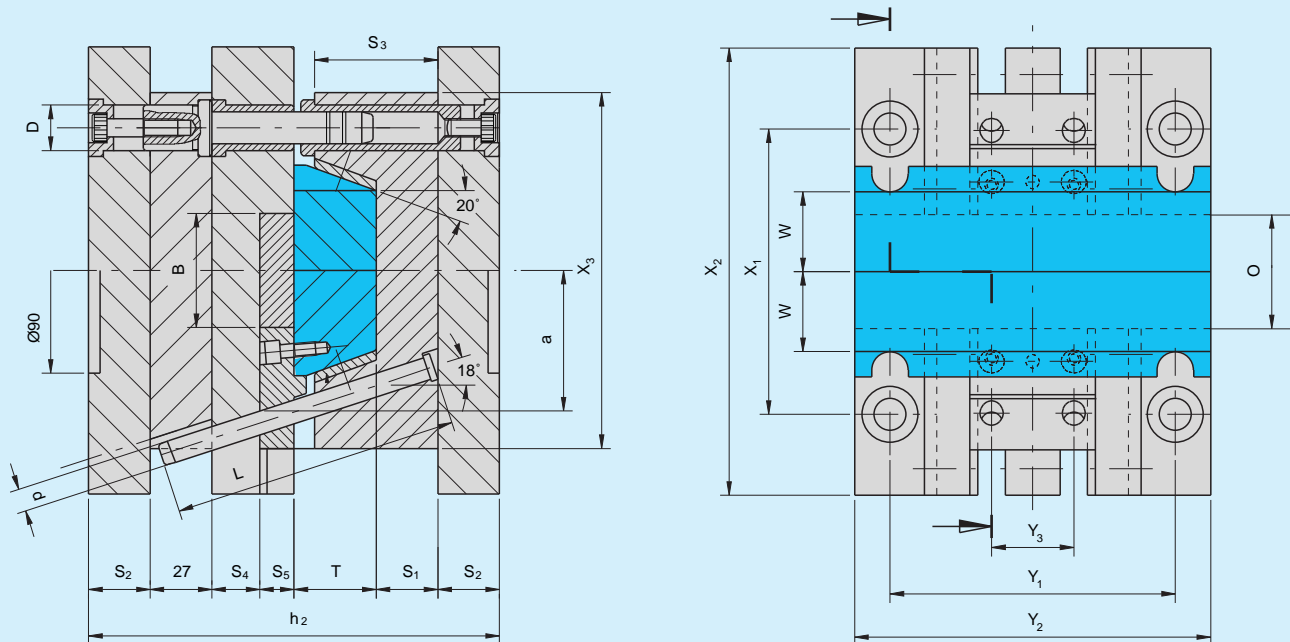
♥ Steel quality see page 2b-8 - 2b-9
♦ Stahlqualität siehe Seite 2b-8 - 2b-9
♣ Staalkwaliteit zie blz 2b-8 - 2b-9
♠ Qualités d'acier voir page 2b-8 - 2b-9

Info

♥ Dimensions chart - ♦ Übersichtstabelle

♣ Referentietabel - ♠ Tableau des dimensions

BK(S) 42



REF.	T	X ₁	X ₂	X ₃	Y ₁	Y ₂	Y ₃	W	S ₁	S ₂	S ₃	S ₄	S ₅	h ₂	B	d	L	D	a	O
N 1216 BK(S) 42-27		95	156	125	125	156	36	24	27	27	46	21	15	171	36	10	120	20	47	34
N 1216 BK(S) 42-36		95	156	125	125	156	36	20	27	27	55	21	15	180	36	10	140	20	47	40
N 1616 BK(S) 42-27		125	196	156	125	156	36	39	27	27	46	21	15	171	50	10	120	20	59	34
N 1616 BK(S) 42-36		125	196	156	125	156	36	35	27	27	55	21	15	180	50	10	140	20	59	40
N 1620 BK(S) 42-27		118	196	156	160	196	54	32	27	27	46	26	20	181	45	14	120	25	57	34
N 1620 BK(S) 42-36		118	196	156	160	196	54	28	27	27	55	26	20	190	45	14	140	25	57	40
N 1620 BK(S) 42-46		118	196	156	160	196	54	25	36	27	74	26	20	209	45	14	160	25	57	40
N 2020 BK(S) 42-27		160	246	196	160	196	54	52	27	27	46	26	20	181	63	14	120	25	77	34
N 2020 BK(S) 42-36		160	246	196	160	196	54	48	27	27	55	26	20	190	63	14	140	25	77	40
N 2020 BK(S) 42-46		160	246	196	160	196	54	45	36	27	74	26	20	209	63	14	160	25	77	40
N 2025 BK(S) 42-27		160	246	196	210	246	100	52	27	27	46	26	20	181	63	14	140	25	77	46
N 2025 BK(S) 42-36		160	246	196	210	246	100	48	27	27	55	26	20	190	63	14	160	25	77	52
N 2025 BK(S) 42-46		160	246	196	210	246	100	45	36	27	74	26	20	209	63	14	180	25	77	52
N 2025 BK(S) 42-56		160	246	196	210	246	100	41	36	27	84	26	20	219	63	14	200	25	77	58
N 2525 BK(S) 42-27		210	296	246	210	246	100	77	27	27	46	26	20	181	100	14	140	25	102	46
N 2525 BK(S) 42-36		210	296	246	210	246	100	73	27	27	55	26	20	190	100	14	160	25	102	52
N 2525 BK(S) 42-46		210	296	246	210	246	100	70	36	27	74	26	20	209	100	14	180	25	102	52
N 2525 BK(S) 42-56		210	296	246	210	246	100	66	36	27	84	26	20	219	100	14	200	25	102	58
N 2530 BK(S) 42-46		200	296	246	244	296	110	60	36	36	74	31	25	237	80	18	180	25	97	50
N 2530 BK(S) 42-56		200	296	246	244	296	110	57	36	36	84	31	25	247	80	18	200	25	97	56
N 2530 BK(S) 42-76		200	296	246	244	296	110	50	46	36	114	31	25	277	80	18	230	25	97	56
N 2530 BK(S) 42-96		200	296	246	244	296	110	42	46	36	134	31	25	297	80	18	250	25	97	56

♥ Steel quality see page 2b-8 - 2b-9
♦ Stahlqualität siehe Seite 2b-8 - 2b-9
♣ Staalkwaliteit zie blz 2b-8 - 2b-9
♠ Qualités d'acier voir page 2b-8 - 2b-9

Info

♥ Steel specification - ♦ Stahl Spezifizierung

♥ Split cavity blocks ③ (BK 4013 A or B) + core bar ⑦ (BK 4016)
♦ Formbacken ③ (BK 4013 A oder B) + Kernleiste ⑦ (BK 4016)

♣ Staalspecificaties - ♠ Qualités d'acier

♣ Schuiven ③ (BK 4013 A of B) + kernplaat ⑦ (BK 4016)
♠ Bloc tiroirs ③ (BK 4013 A ou B) + Base tiroirs ⑦ (BK 4016)

♥ Steel specification ♦ Stahlspezifizierung ♣ Staalspecificaties ♠ Choix des aciers	♥ Analysis & tensile strength ♦ Analyse & Festigkeit ♣ Analyse & trekvastheid ♠ Analyse & résistance	♥ Description ♦ Beschreibung ♣ Beschrijving ♠ Description
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D-M-E 3 40 Cr Mn Mo S 8 6 1.2312	ca. 1050 MPa (N/mm ²) C = 0,40 Mn = 1,50 Mo = 0,20 Si = 0,40 Cr = 1,90 S = 0,07	♥ Low alloy pre-heat treated tool steel. Excellent machinability. No further hardening required. Can be nitrided. ♦ Vorvergüteter, legierter Werkzeugstahl. Gute Bearbeitbarkeit durch Schwefelzusatz. Nitrierbar. Anwendung: Formplatten für Druck- und Spritzgießformen. Form- und Werkzeugteile. ♣ Veredeld laaggelegeerd gereedschapsstaal. Uitstekend bewerkbaar. Nitreerbaar. Geschikt voor vormplaten voor pers- en spuitgietmatrijzen en voor matrijs- en gereedschapsonderdelen. ♠ Acier allié prétrempé, ne nécessite pas de trempe après usinage, donc aucune déformation avec tenue de dureté à température élevée. Usinage exceptionnel. Peut être chromé et nituré. Pour plaques empreintes pour moules matières plastiques, inserts pour injection, compression et outils de haute pression.
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D-M-E 5 X 40 Cr Mo V 5 1 1.2344	ca. 750 MPa (N/mm ²) C = 0,40 Mn = 0,40 Mo = 1,30 Si = 1,00 Cr = 5,20 V = 1,00	♥ Medium alloy hot work tool steel. Resistant to thermal shock and thermal fatigue. Can be heat-treated. For molds for injection molding and casting. ♦ Legierter Warmarbeitsstahl. Hohe Warmfestigkeit, Zähigkeit, Druck- und Verschleißfestigkeit. Temperaturwechselbeständigkeit. Wärmeleitfähigkeit. Anwendung: Formplatten und Einsätze für Druckgieß- und Kunststoffverarbeitung. ♣ Gelegeerd warmmatrijzenstaal. Hoge warmtebestendigheid, taaiheid, druk- en slijtvastheid. Geleverd in ontlaten toestand. Nitreerbaar. Geschikt voor vormplaten en inzetstukken voor spuitgiet- en drukgietmatrijzen. ♠ Acier allié à chaud. Résistance excellente à températures élevées, haute ténacité. Livré à l'état non trempé. Peut être trempé et nituré. Pour plaques empreintes et inserts pour l'injection et la coulée sous pression.
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D-M-E 6 X 45 Ni Cr Mo 4 1.2767	ca. 830 MPa (N/mm ²) C = 0,45 Cr = 1,40 Ni = 4,00 Mo = 0,30 Si = 0,20 Mn = 0,30	♥ Through hardening tool steel. High polishability. Good toughness and shock resistant. The standard quality for molds for injection molding. ♦ Legierter Durchhärtestahl. Sehr gute Polierfähigkeit für hohe Oberflächenanforderungen. Anwendung: Formplatten und Einsätze für die Kunststoffverarbeitung. ♣ Gelegeerd doorhardstaal. Hoge maatbestendigheid en gelijkmatige hardheid. Zeer goed polijstbaar en hoge drukvastheid. Goed vonkverspaanbaar. Voor vormplaten en inzetstukken voor kunststofverwerking, speciaal geschikt voor hoogglanspolijsten. ♠ Acier allié trempant à cœur. Stabilité dimensionnelle et trempe uniforme. Excellent usinage par électro-érosion. Résistance élevée à la compression. Pour empreintes et inserts pour l'injection. Excellentes aptitudes au polissage.
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D-M-E 7 40 Cr Mn Mo 7 1.2311	ca. 1050 MPa (N/mm ²) C = 0,40 Si = 0,40 Mn = 1,50 Cr = 1,90 Mo = 0,20	♥ Low alloy pre-heat treated tool and cavity steel. Suitable for molds without a hardening treatment. Can be hard chromed and nitrided. Supreme surface appearance. ♦ Vorvergüteter, legierter Werkzeugstahl. Gute Bearbeitbarkeit. Polierbar. Nitrierbar. Ätzbar und Strukturierodierbar. Anwendung: Formplatten und Einsätze für Spritzgießformen. ♣ Voorveredeld gelegeerd gereedschapsstaal. Warmtebehandeling en bewerking niet nodig. Behoud van hardheid bij hoge temperaturen. Hoge taaiheid. Zeer goed polijstbaar. Hard verchroom- en nitreerbaar. Geschikt voor vormplaten en inzetstukken voor spuitgietmatrijzen. ♠ Acier allié et prétrempé. Ne nécessite pas de trempe après usinage, donc aucune déformation avec tenue de dureté à température élevée. Usinage exceptionnel. Haute ténacité. Polissage à haut degré, peut être chromé, nituré et grainé. Pour plaques empreintes de moules pour matières plastiques, inserts pour injection, compression et outils de haute pression.
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D-M-E 9 ≈ 45 Ni Cr 6 ≈ 1.2738 Impax® Supreme	ca. 1050 MPa (N/mm ²) 290-330 HB C = 0,37 Si = 0,30 Mn = 1,40 Cr = 2,00 Ni = 1,00 Mo = 0,20 S = 0,008	♥ Vacuum degassed Cr Ni Mo steel. Suitable for molds without a hardening treatment. Excellent polishing and photo-etching properties. Good machinability. High purity and good homogeneity. Uniform hardness in all dimensions. Supreme surface appearance. Tool and cavity steel for injection molding. ♦ Ein vakuumtgestaht Cr Ni Mo Stahl. Hervorragendes Verhalten beim Polieren und Foto-ätzen. Gute Zerspanbarkeit. Hohe Reinheit und gute Homogenität. Gleichmäßige Härte bei allen Querschnitten. Anwendung: Formplatten und Einsätze für die Kunststoffverarbeitung. ♣ Vacuum ontgast Cr Ni Mo staal. Uitstekend polijstbaar en geschikt voor foto-etsen. Goede bewerkbaarheid. Hoge zuiverheid. Gelijkmatige hardheid in alle afmetingen. Geschikt voor vormplaten en inzetstukken voor spuitgietmatrijzen. ♠ Acier Cr Ni Mo dégazé sous vide. Propriétés excellentes de polissage et photo-gravure. Facile à usiner. Grandes pureté, homogénéité et isotropie. Pour plaques empreintes et inserts dans des moules pour matières plastiques.
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♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

Info

♥ Steel specification - ♦ Stahl Spezifizierung

♥ Split cavity blocks ③ (BK 4013 A or B) + core bar ⑦ (BK 4016)
♦ Formbacken ③ (BK 4013 A oder B) + Kernleiste ⑦ (BK 4016)

♣ Staalspecificaties - ♠ Qualités d'acier

♣ Schuiven ③ (BK 4013 A of B) + kernplaat ⑦ (BK 4016)
♠ Bloc tiroirs ③ (BK 4013 A ou B) + Base tiroirs ⑦ (BK 4016)

♥ Steel specification ♦ Stahlspezifizierung ♣ Staalspecificaties ♠ Choix des aciers	♥ Analysis & tensile strength ♦ Analyse & Festigkeit ♣ Analyse & trekvastheid ♠ Analyse & résistance	♥ Description ♦ Beschreibung ♣ Beschrijving ♠ Description
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D-M-E 10

≈ X 36 Cr Mo 17

≈ 1.2316

Ramax® S

ca. 1150 MPa (N/mm²)

≈ 340 HB

C = 0,33
Si = 0,35
Mn = 1,35
Cr = 16,70
V = 0,12

♥ Chromium alloy stainless bolster steel with excellent machinability. Good corrosion resistance. Uniform hardness in all dimensions. Good indentation resistance. Ramax® S is not recommended for inserts.
♦ Ein chromlegierter, korrosionsbeständiger Formenaufbaustahl. Ausgezeichnete Zerspanbarkeit. Gleichmäßige Härte. Gute Druckfestigkeit. Ramax® S ist nicht geeignet für Einsätze.
♣ Roestvrij Cr matrijshouderstaal. Goede corrosieweerstand. Uitstekende bewerkbaarheid. Gelijmatige hardheid in alle afmetingen. Bestand tegen samendrukken. Ramax® S is niet geschikt voor inzetstukken.
♠ Acier allié au chrome pour porte moules. Résistant à la corrosion. Facile à usiner. Dureté uniforme dans toutes les directions. Résistance à la compression. Ramax® S n'est pas recommandé pour blocs inserts.

D-M-E 11

≈ X 42 Cr 13

≈ 1.2083

Stavax® ESR

ca. 720 MPa (N/mm²)

≈ 200 HB

C = 0,38
Si = 0,9
Mn = 0,5
Cr = 13,6
V = 0,3

♥ Chromium alloy stainless tool steel. Good corrosion and wear resistance. Good polishability. Good machinability and stability in hardening. Excellent cavity steel.
♦ Ein chromlegierter, korrosionsbeständiger Werkzeugstahl. Ausgezeichnete Polierbarkeit, verschleißfest. Gute Zerspanbarkeit und Maßbeständigkeit beim Härten. Ein hervorragender Einsatzstahl.
♣ Roestvrij Cr gereedschapsstaal. Goede corrosieweerstand. Uitstekend polijstbaar. Hoge slijtvastheid. Goed bewerkbaar en stabiel bij het harden. Uitstekend voor vormplaten en inzetstukken.
♠ Acier à outil allié au Cr. Résistant à la corrosion. Facile à polir. Résistant à l'usure. Bonne stabilité au traitement thermique. Acier excellent pour inserts.

♥ Other steel qualities - ♦ Andere Stahlqualitäten

♣ Andere staalkwaliteiten - ♠ Autres nuances d'acier

D-M-E 1

C 45 W

1.1730

ca. 640 MPa (N/mm²)

C = 0,45
Si = 0,30
Mn = 0,70

♥ Non alloy tool steel. Not to be hardened and easy to machine. For molds and simple structural components.
♦ Unlegierter Werkzeugstahl. Anwendung: nicht gehärtete Teile für den Formen-, Werkzeug- und Vorrichtungsbau.
♣ Ongelegeerd gereedschapsstaal. Spanningsvrij gegloeid. Goed bewerkbaar. Hoge taaheid. Voor niet geharde onderdelen voor matrijs-, gereedschaps- en kaliberbouw.
♠ Acier non allié pour outillage. Facile à usiner. Bonne résistance. Pour éléments non-trempés pour moules et fixations d'outillages.

1.7131

EC 80 16 Mn Cr 5

1.7131

ca. 1050 MPa (N/mm²)

C = 0,14-0,19
Si = 0,25
Mn = 1,15
P = 0,035
S = 0,035
Cr = 0,8-1,10

♥ Cementation steel.
♦ Einsatzstahl.
♣ Cementeerstaal.
♠ Acier de cémentation.

1.4112

X 90 Cr Mo V 18

1.4112

ca. 900 MPa (N/mm²)

C = 0,90
Cr = 18,0
Mo = 1,11
V = 0,9

♥ Chromium-alloyed stainless tool steel. Good polishability, good corrosion resistance.
♦ Ein chromlegierter korrosionsbeständiger Werkzeugstahl. Ausgezeichnete Polierbarkeit.
♣ Roestbestendig Cr-staal, goed polijstbaar en corrosiebestendig.
♠ Acier allié au chrome. Excellentes aptitudes au polissage. Résistant à la corrosion.

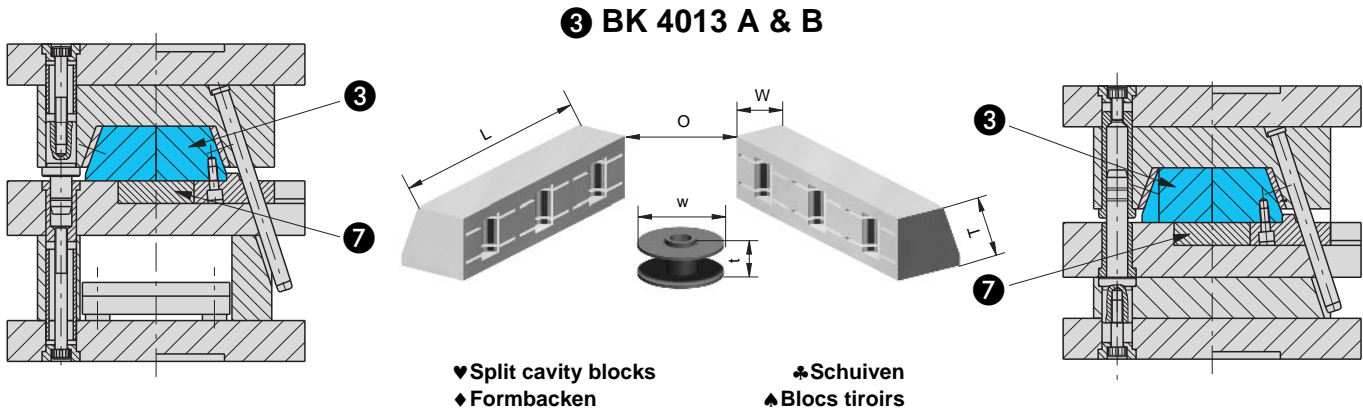
Info

♥ Quick selection chart - ♦ Schnellauswahltabelle

♣ Overzichtstabel - ♠ Tableau de sélection rapide

BK 41
BKS 41

BK 42
BKS 42



- ♥ Select type of mold BK(S) 41 or BK(S) 42
♦ Wähle Ausführungstyp der Form BK(S) 41 oder BK(S) 42
♣ Selecteer matrijstyp BK(S) 41 of BK(S) 42
♠ Choisir entre les types BK(S) 41 et BK(S) 42

- ♥ Select height 'T' of 3 BK 4013 A or B in function of the product height 't'
♦ Wähle Höhe 'T' aus 3 BK 4013 A oder B in Funktion der Produkthöhe 't'
♣ Selecteer hoogte 'T' van 3 BK 4013 A of B in functie van de produkthoogte 't'
♠ Choisir la hauteur 'T' des 3 BK 4013 A ou B en fonction de la hauteur 't' de moulage

- ♥ Select the opening 'O' of 3 BK 4013 A or B
♦ Wähle die Öffnungsweite 'O' von 3 BK 4013 A oder B
♣ Selecteer openingsweg 'O' van 3 BK 4013 A of B
♠ Choisir l'ouverture 'O' des 3 BK 4013 A ou B

- ♥ Select width 'W' of 3 BK 4013 A or B in relation to the product width 'w'
♦ Wähle die Breite 'W' von 3 BK 4013 A oder B in Funktion der Produktbreite 'w'
♣ Selecteer breedte 'W' van 3 BK 4013 A of B in verhouding tot breedte 'w' van het produkt
♠ Choisir la largeur 'W' des tiroirs 3 BK 4013 A ou B selon la largeur de la pièce moulée 'w'

- ♥ Select length 'L' of 3 BK 4013 A or B in function of the number of products
♦ Wähle die Länge 'L' von 3 BK 4013 A oder B in Funktion der Anzahl der Produkte
♣ Selecteer de lengte 'L' van 3 BK 4013 A of B in functie van het aantal produkten
♠ Choisir la longueur 'L' des 3 BK 4013 A ou B en fonction du nombre d'empreintes

- ♥ Select steel for 3 BK 4013 A or B and 7 BK 4016
♦ Wähle den Stahl für 3 BK 4013 A oder B und 7 BK 4016
♣ Selecteer staal voor 3 BK 4013 A of B en 7 BK 4016
♠ Choisir l'acier pour les tiroirs 3 BK 4013 A ou B et la base tiroirs 7 BK 4016

♥ Sliding core mold sizes (W x L) ♦ Größen der Backenformen (B x L)
♣ Afmetingen schuifmatrijzen (B x L) ♠ Dimensions des moules à tiroirs (La x Lo)

T	O	W	1216 (125x156 mm)	1616 (156x156 mm)	1620 (156x196 mm)	2020 (196x196 mm)	2025 (196x246 mm)	2525 (246x246 mm)	2530 (246x296 mm)	
27	34	24	156							DME 3 (1.2312)
27	34	39		156						
27	34	32			196					
27	34	52				196				DME 5 (1.2344)
27	46	52					246			
27	46	77						246		
36	40	20	156							DME 6 (1.2767)
36	40	35		156						
36	40	28			196					
36	40	48				196				DME 7 (1.2311)
36	52	48					246			
36	52	73						246		
46	40	25			196					DME 9 (Impax® Supreme)
46	40	45				196				
46	52	45					246			
46	52	70						246		
46	50	60							296	DME 10 (Ramax® S)
56	58	41					246			
56	58	66						246		
56	56	57							296	DME 11 (Stavax® ESR)
76	56	50							296	
96	56	42							296	

♥ L= length 3 BK 4013 ♦ L= Länge 3 BK 4013 ♣ L= lengte 3 BK 4013 ♠ L= longueur 3 BK 4013

♥ Specials upon request ♦ Sonderausführung auf Anfrage ♣ Speciale uitvoeringen op aanvraag ♠ Exécutions spéciales sur demande

♥ Sliding core molds

♦ Backenformen

Schuifmatrijzen ♣

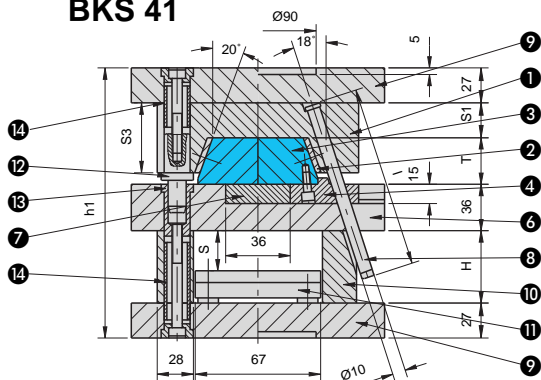
Moules à tiroirs ♠

N 1216 BK(S)

(125 x 156 mm)

BK 41

BKS 41

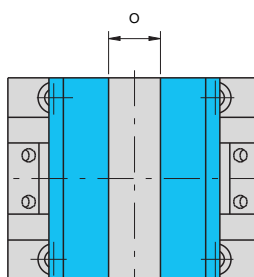


BK 41

REF.	Mat	T	
		27	36
N 1216 BK41-T/3-H	1.2312		
N 1216 BK41-T/5-H	1.2344		
N 1216 BK41-T/6-H	1.2767		
N 1216 BK41-T/7-H	1.2311		
N 1216 BK41-T/9-H	Impax		
N 1216 BK41-T/10-H	Ramax		
N 1216 BK41-T/11-H	Stavax		

BKS 41

REF.	Mat	T	
		27	36
N 1216 BKS41-T/10-H	Ramax		
N 1216 BKS41-T/11-H	Stavax		



T	H	W	S	S1	S3	I	h1	O
27	46	24	21	27	46	120	190	34
36	56	20	31	27	55	140	209	40

1 x BK 4011 (BKS 4011)

- ♥ Top bolster plate
- ♦ Zuhalteplatte
- ♣ Sluitplaat
- ♠ Plaque de rappel de fermeture

2 x BK 4012 (BKS 4012)

- ♥ Wear strips
- ♦ Druckleisten
- ♣ Slijtstrippen
- ♠ Plaquettes d'usure

2 x BK 4013 (Typ(e) A - BK 41)

- ♥ Split cavity blocks
- ♦ Formbacken
- ♣ Schuiven
- ♠ Blocs tiroirs

2 x BK 4014 (BKS 4014)

- ♥ Guide blocks
- ♦ Führungsleisten
- ♣ Leiblokken
- ♠ Coulisseaux

4 x BK 4018

- ♥ Slides
- ♦ Führungsleiste
- ♣ Leiplates
- ♠ Glissières

1 x BK 4017 (BKS 4017)

- ♥ Bottom plate
- ♦ Bodenplatte
- ♣ Grondplaat
- ♠ Plaque support de coulisseaux

1 x BK 4016

- ♥ Core bar
- ♦ Kernleiste
- ♣ Kernplaat
- ♠ Base tiroirs

4 x APD

- ♥ Angle pins
- ♦ Schrägstifte
- ♣ Schuifpennen
- ♠ Doigts de coulisseaux

2 x K 1300/K 1400 (KS 1300/KS 1400)

- ♥ Clamping plates
- ♦ Aufspannplatten
- ♣ Opspanplaten
- ♠ Semelles

2 x K 4200 (KS 4200)

- ♥ Risers
- ♦ Distanzleisten
- ♣ Steunlijsten
- ♠ Tasseaux

1 x K 6100/ K 6200 (KS 6100/KS 6200)

- ♥ Ejector plates
- ♦ Auswerferplatten
- ♣ Uitwerplaten
- ♠ Plaques éjectrices

4 x K 7711 + K 7616

- ♥ Leader pins
- ♦ Führungssäulen
- ♣ Geleide pennen
- ♠ Colonnes de guidage

4 x K 7721 + K 7616

- ♥ Leader pin bushings
- ♦ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Bagues de guidage

8 x K 7731

- ♥ Tubular dowels
- ♦ Passhülsen
- ♣ Centreerhulzen
- ♠ Douilles de centrage

4 x 7661

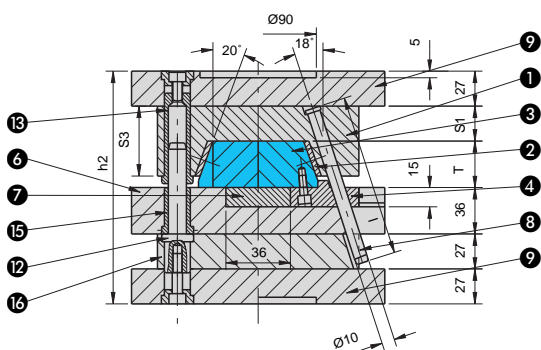
- ♥ Leader pin bushings
- ♦ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Bagues de guidage

1 x K 2200 (KS 2200)

- ♥ Support plate
- ♦ Kernhalteplatte
- ♣ Steunplaat
- ♠ Plaque support

BK 42

BKS 42

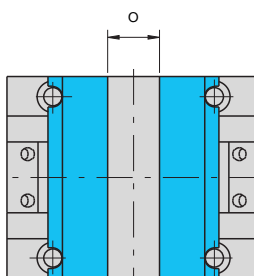


BK 42

REF.	Mat	T	
		27	36
N 1216 BK42-T/3	1.2312		
N 1216 BK42-T/5H	1.2344		
N 1216 BK42-T/6	1.2767		
N 1216 BK42-T/7H	1.2311		
N 1216 BK42-T/9	Impax		
N 1216 BK42-T/10	Ramax		
N 1216 BK42-T/11	Stavax		

BKS 42

REF.	Mat	T	
		27	36
N 1216 BKS42-T/10	Ramax		
N 1216 BKS42-T/11	Stavax		



T	W	S1	S3	I	h2	O
27	24	27	46	120	171	34
36	20	27	55	140	180	40

* ♥ For safety reasons we recommend to install FD/FDV (2b-24) or MRT/PSM (2b-25) ♦ Aus Sicherheitsgründen empfehlen wir FD/FDV (2b-24) oder MRT/PSM (2b-25) zu installieren
♣ Om veiligheidsredenen bevelen wij het plaatsen van FD/FDV (2b-24), of MRT/PSM (2b-25) aan ♠ Pour des raisons de sécurité nous conseillons d'installer des FD/FDV (2b-24) ou MRT/PSM (2b-25)

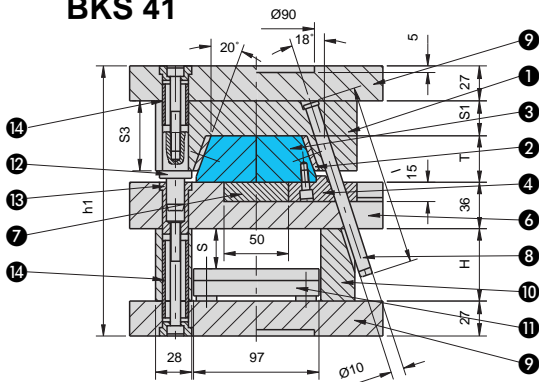
♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

N 1616 BK(S)

(156 x 156 mm)

BK 41 BKS 41

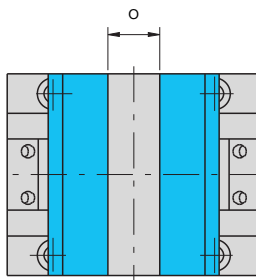


BK 41

REF.	Mat	T	
		27	36
N 1616 BK41-T/3-H	1.2312		
N 1616 BK41-T/5-H	1.2344		
N 1616 BK41-T/6-H	1.2767		
N 1616 BK41-T/7-H	1.2311		
N 1616 BK41-T/9-H	Impax		
N 1616 BK41-T/10-H	Ramax		
N 1616 BK41-T/11-H	Stavax		

BKS 41

REF.	Mat	T	
		27	36
N 1616 BKS41-T/10-H	Ramax		
N 1616 BKS41-T/11-H	Stavax		



T	H	W	S	S1	S3	I	h1	O
27	46	39	21	27	46	120	190	34
36	56	35	31	27	55	140	209	40

- 1 x BK 4011 (BKS 4011) 2b-18
♥ Top bolster plate
♦ Zuhalteplatte
♣ Sluitplaat
♠ Plaque de rappel de fermeture

- 2 x BK 4012 (BKS 4012) 2b-18
♥ Wear strips
♦ Druckleisten
♣ Slijtstrippen
♠ Plaquettes d'usure

- 2 x BK 4013 (Typ(e) A - BK 41) (Typ(e) B - BK 42) 2b-19
♥ Split cavity blocks
♦ Formbacken
♣ Schuiven
♠ Blocs tiroirs

- 2 x BK 4014 (BKS 4014) 2b-19
♥ Guide blocks
♦ Führungsleisten
♣ Leiblokken
♠ Coulisseaux

- 4 x BK 4018 2b-20
♥ Slides
♦ Führungsleiste
♣ Leiplates
♠ Glissières

- 1 x BK 4017 (BKS 4017) 2b-20
♥ Bottom plate
♦ Bodenplatte
♣ Grondplaat
♠ Plaque support de coulisseaux

- 1 x BK 4016 2b-21
♥ Core bar
♦ Kernleiste
♣ Kernplaat
♠ Base tiroirs

- 4 x APD 2b-23
♥ Angle pins
♦ Schrägstifte
♣ Schuifpennen
♠ Doigts de coulisseaux

- 2 x K 1300/K 1400 (KS 1300/KS 1400) 2b-21
♥ Clamping plates
♦ Aufspannplatten
♣ Opspanplaten
♠ Semelles

- 2 x K 4200 (KS 4200) 2b-22
♥ Risers
♦ Distanzleisten
♣ Steunlijsten
♠ Tasseaux

- 1 x K 6100/ K 6200 (KS 6100/KS 6200) 2b-22
♥ Ejector plates
♦ Auswerferplatten
♣ Uitwerplaten
♠ Plaques éjectrices

- 4 x K 7711 + K 7616 2b-23
♥ Leader pins
♦ Führungssäulen
♣ Geleide pennen
♠ Colonnes de guidage

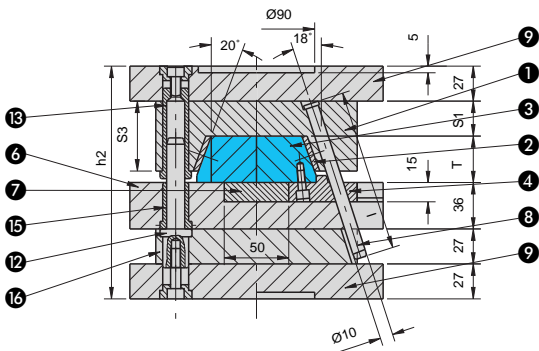
- 4 x K 7721 + K 7616 2b-23
♥ Leader pin bushings
♦ Führungsbuchsen
♣ Geleide bussen
♠ Bagues de guidage

- 8 x K 7731 2b-24
♥ Tubular dowels
♦ Passhülsen
♣ Centreerhulzen
♠ Douilles de centrage

- 4 x 7661 2b-23
♥ Leader pin bushings
♦ Führungsbuchsen
♣ Geleide bussen
♠ Bagues de guidage

- 1 x K 2200 (KS 2200) 2b-22
♥ Support plate
♦ Kernhalteplatte
♣ Steunplaat
♠ Plaque support

BK 42 BKS 42

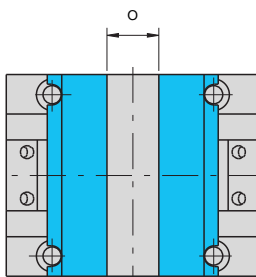


BK 42

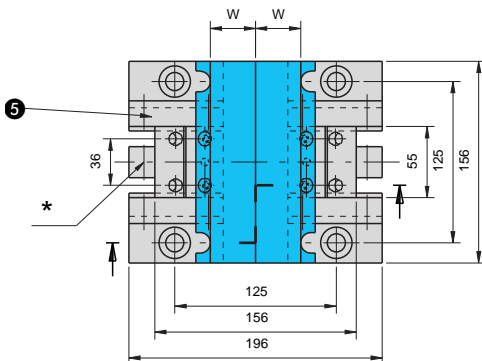
REF.	Mat	T	
		27	36
N 1616 BK42-T/3	1.2312		
N 1616 BK42-T/5	1.2344		
N 1616 BK42-T/6	1.2767		
N 1616 BK42-T/7	1.2311		
N 1616 BK42-T/9	Impax		
N 1616 BK42-T/10	Ramax		
N 1616 BK42-T/11	Stavax		

BKS 42

REF.	Mat	T	
		27	36
N 1616 BKS42-T/10	Ramax		
N 1616 BKS42-T/11	Stavax		



T	W	S1	S3	I	h2	O
27	39	27	46	120	171	34
36	35	27	55	140	180	40



* ♥ For safety reasons we recommend to install FD/FDV (2b-24) or MRT/PSM (2b-25) ♦ Aus Sicherheitsgründen empfehlen wir FD/FDV (2b-24) oder MRT/PSM (2b-25) zu installieren

♣ Om veiligheidsredenen bevelen wij het plaatsen van FD/FDV (2b-24), of MRT/PSM (2b-25) aan ♠ Pour des raisons de sécurité nous conseillons d'installer des FD/FDV (2b-24) ou MRT/PSM (2b-25)

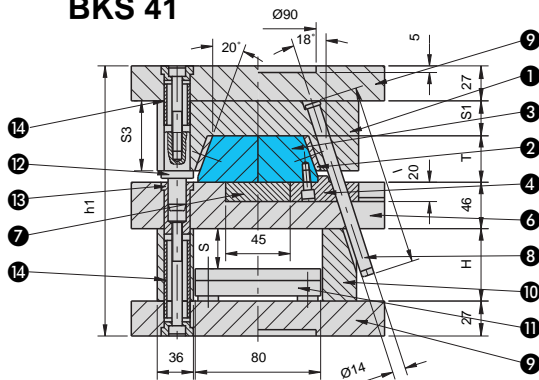
♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

N 1620 BK(S)

(156 x 196 mm)

BK 41 BKS 41

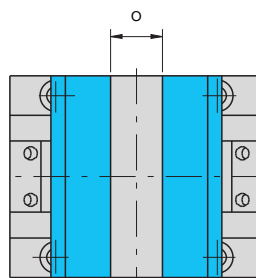
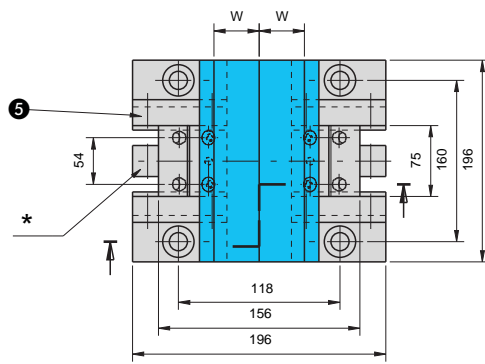


BK 41

REF.	Mat	T		
		27	36	46
N 1620 BK41-T/3-H	1.2312			
N 1620 BK41-T/5-H	1.2344			
N 1620 BK41-T/6-H	1.2767			
N 1620 BK41-T/7-H	1.2311			
N 1620 BK41-T/9-H	Impax			
N 1620 BK41-T/10-H	Ramax			
N 1620 BK41-T/11-H	Stavax			

BKS 41

REF.	Mat	T		
		27	36	46
N 1620 BKS41-T/10-H	Ramax			
N 1620 BKS41-T/11-H	Stavax			



T	H	W	S	S1	S3	I	h1	O
27	46	32	21	27	46	120	200	34
36	56	28	31	27	55	140	219	40
46	76	25	51	36	74	160	258	40

1 x BK 4011 (BKS 4011)

2b-18

- ♥ Top bolster plate
- ♦ Zuhalteplatte
- ♣ Sluitplaat
- ♠ Plaque de rappel de fermeture

2 x BK 4012 (BKS 4012)

2b-18

- ♥ Wear strips
- ♦ Druckleisten
- ♣ Slijtstrippen
- ♠ Plaquettes d'usure

2 x BK 4013 (Typ(e) A - BK 41) (Typ(e) B - BK 42)

2b-19

- ♥ Split cavity blocks
- ♦ Formbacken
- ♣ Schuiven
- ♠ Blocs tiroirs

2 x BK 4014 (BKS 4014)

2b-19

- ♥ Guide blocks
- ♦ Führungsleisten
- ♣ Leiblokken
- ♠ Coulisseaux

4 x BK 4018

2b-20

- ♥ Slides
- ♦ Führungsleiste
- ♣ Leiplaten
- ♠ Glissières

1 x BK 4017 (BKS 4017)

2b-20

- ♥ Bottom plate
- ♦ Bodenplatte
- ♣ Grondplaat
- ♠ Plaque support de coulisseaux

1 x BK 4016

2b-21

- ♥ Core bar
- ♦ Kernleiste
- ♣ Kernplaat
- ♠ Base tiroirs

4 x APD

2b-23

- ♥ Angle pins
- ♦ Schrägstifte
- ♣ Schuifpennen
- ♠ Doigts de coulisseaux

2 x K 1300/K 1400 (KS 1300/KS 1400)

2b-21

- ♥ Clamping plates
- ♦ Aufspannplatten
- ♣ Opspanplaten
- ♠ Semelles

2 x K 4200 (KS 4200)

2b-22

- ♥ Risers
- ♦ Distanzleisten
- ♣ Steunlijsten
- ♠ Tasseaux

1 x K 6100/ K 6200 (KS 6100/KS 6200)

2b-22

- ♥ Ejector plates
- ♦ Auswerferplatten
- ♣ Uitwerplaten
- ♠ Plaques éjectrices

4 x K 7711 + K 7616

2b-23

- ♥ Leader pins
- ♦ Führungssäulen
- ♣ Geleide pennen
- ♠ Colonnes de guidage

4 x K 7721 + K 7616

2b-23

- ♥ Leader pin bushings
- ♦ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Bagues de guidage

8 x K 7731

2b-24

- ♥ Tubular dowels
- ♦ Passhülsen
- ♣ Centreerhulzen
- ♠ Douilles de centrage

4 x 7661

2b-23

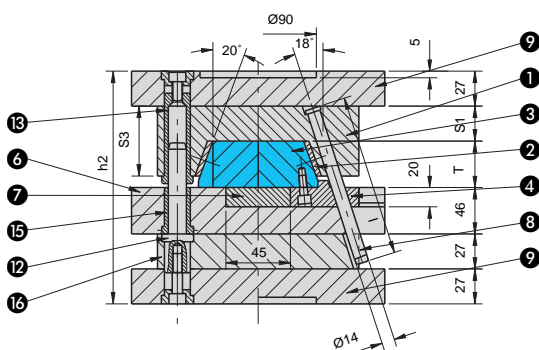
- ♥ Leader pin bushings
- ♦ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Bagues de guidage

1 x K 2200 (KS 2200)

2b-22

- ♥ Support plate
- ♦ Kernhalteplatte
- ♣ Steunplaat
- ♠ Plaque support

BK 42 BKS 42

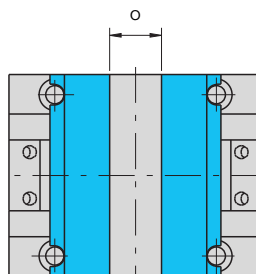
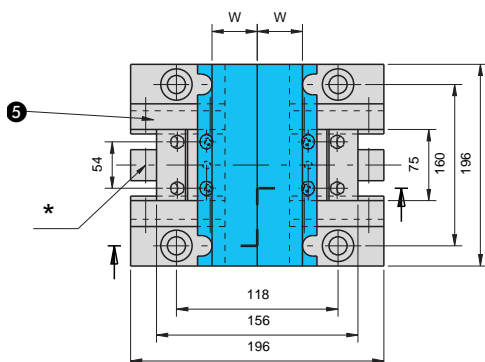


BK 42

REF.	Mat	T		
		27	36	46
N 1620 BK42-T/3	1.2312			
N 1620 BK42-T/5	1.2344			
N 1620 BK42-T/6	1.2767			
N 1620 BK42-T/7	1.2311			
N 1620 BK42-T/9	Impax			
N 1620 BK42-T/10	Ramax			
N 1620 BK42-T/11	Stavax			

BKS 42

REF.	Mat	T		
		27	36	46
N 1620 BKS42-T/10	Ramax			
N 1620 BKS42-T/11	Stavax			



T	W	S1	S3	I	h2	O
27	32	27	46	120	181	34
36	28	27	55	140	190	40
46	25	36	74	160	209	40

* ♥ For safety reasons we recommend to install FD/FDV (2b-24) or MRT/PSM (2b-25) ♦ Aus Sicherheitsgründen empfehlen wir FD/FDV (2b-24) oder MRT/PSM (2b-25) zu installieren
♣ Om veiligheidsredenen bevelen wij het plaatsen van FD/FDV (2b-24), of MRT/PSM (2b-25) aan ♠ Pour des raisons de sécurité nous conseillons d'installer des FD/FDV (2b-24) ou MRT/PSM (2b-25)

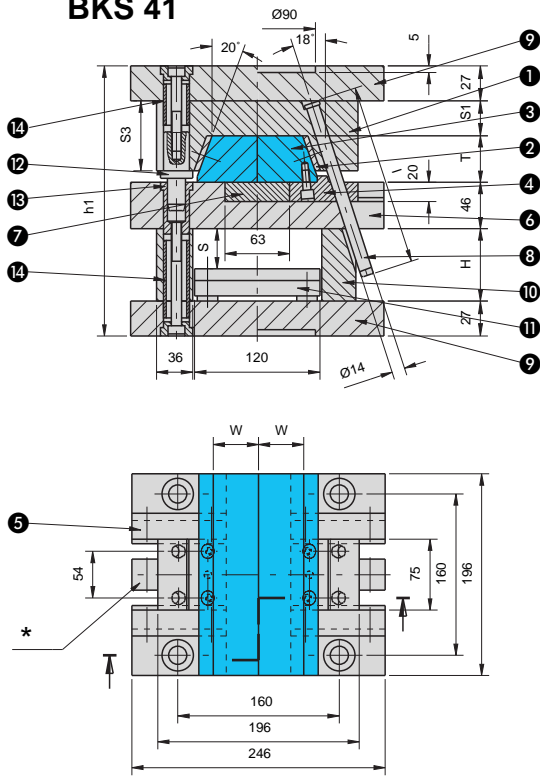
♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

N 2020 BK(S)

(196 x 196 mm)

BK 41 BKS 41

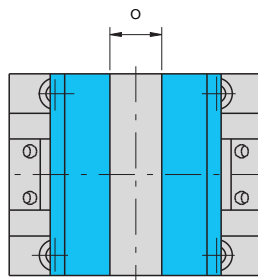


BK 41

REF.	Mat	T		
		27	36	46
N 2020 BK41-T/3-H	1.2312			
N 2020 BK41-T/5-H	1.2344			
N 2020 BK41-T/6-H	1.2767			
N 2020 BK41-T/7-H	1.2311			
N 2020 BK41-T/9-H	Impax			
N 2020 BK41-T/10-H	Ramax			
N 2020 BK41-T/11-H	Stavax			

BKS 41

REF.	Mat	T		
		27	36	46
N 2020 BKS41-T/10-H	Ramax			
N 2020 BKS41-T/11-H	Stavax			



T	H	W	S	S1	S3	I	h1	O
27	46	52	13	27	46	120	200	34
36	56	48	23	27	55	140	219	40
46	76	45	43	36	74	160	258	40

1 x BK 4011 (BKS 4011) 2b-18

- ♥ Top bolster plate
- ♦ Zuhalteplatte
- ♣ Sluitplaat
- ♠ Plaque de rappel de fermeture

2 x BK 4012 (BKS 4012) 2b-18

- ♥ Wear strips
- ♦ Druckleisten
- ♣ Slijtstrippen
- ♠ Plaquettes d'usure

3 x BK 4013 (Typ(e) A - BK 41) (Typ(e) B - BK 42) 2b-19

- ♥ Split cavity blocks
- ♦ Formbacken
- ♣ Schuiven
- ♠ Blocs tiroirs

2 x BK 4014 (BKS 4014) 2b-19

- ♥ Guide blocks
- ♦ Führungsleisten
- ♣ Leiblokken
- ♠ Coulisseaux

5 x BK 4018 2b-20

- ♥ Slides
- ♦ Führungsleiste
- ♣ Leiplates
- ♠ Glissières

1 x BK 4017 (BKS 4017) 2b-20

- ♥ Bottom plate
- ♦ Bodenplatte
- ♣ Grondplaat
- ♠ Plaque support de coulisseaux

1 x BK 4016 2b-21

- ♥ Core bar
- ♦ Kernleiste
- ♣ Kernplaat
- ♠ Base tiroirs

4 x APD 2b-23

- ♥ Angle pins
- ♦ Schrägstifte
- ♣ Schuifpennen
- ♠ Doigts de coulisseaux

2 x K 1300/K 1400 (KS 1300/KS 1400) 2b-21

- ♥ Clamping plates
- ♦ Aufspannplatten
- ♣ Opspanplaten
- ♠ Semelles

2 x K 4200 (KS 4200) 2b-22

- ♥ Risers
- ♦ Distanzleisten
- ♣ Steunlijsten
- ♠ Tasseaux

11 x K 6100/ K 6200 (KS 6100/KS 6200) 2b-22

- ♥ Ejector plates
- ♦ Auswerferplatten
- ♣ Uitwerplaten
- ♠ Plaques éjectrices

4 x K 7711 + K 7616 2b-23

- ♥ Leader pins
- ♦ Führungssäulen
- ♣ Geleide pennen
- ♠ Colonnes de guidage

13 x K 7721 + K 7616 2b-23

- ♥ Leader pin bushings
- ♦ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Bagues de guidage

8 x K 7731 2b-24

- ♥ Tubular dowels
- ♦ Passhülsen
- ♣ Centreerhulzen
- ♠ Douilles de centrage

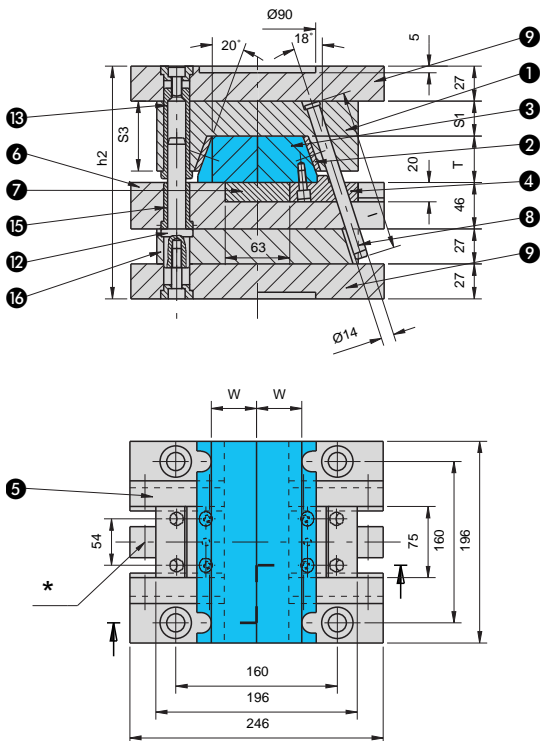
4 x K 7661 2b-23

- ♥ Leader pin bushings
- ♦ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Bagues de guidage

1 x K 2200 (KS 2200) 2b-22

- ♥ Support plate
- ♦ Kernhalteplatte
- ♣ Steunplaat
- ♠ Plaque support

BK 42 BKS 42

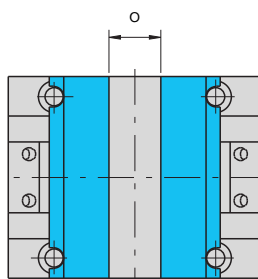


BK 42

REF.	Mat	T		
		27	36	46
N 2020 BK42-T/3	1.2312			
N 2020 BK42-T/5	1.2344			
N 2020 BK42-T/6	1.2767			
N 2020 BK42-T/7	1.2311			
N 2020 BK42-T/9	Impax			
N 2020 BK42-T/10	Ramax			
N 2020 BK42-T/11	Stavax			

BKS 42

REF.	Mat	T		
		27	36	46
N 2020 BKS42-T/10	Ramax			
N 2020 BKS42-T/11	Stavax			



T	W	S1	S3	I	h2	O
27	52	27	46	120	181	34
36	48	27	55	140	190	40
46	45	36	74	160	209	40

* ♥ For safety reasons we recommend to install FD/FDV (2b-24) or MRT/PSM (2b-25) ♦ Aus Sicherheitsgründen empfehlen wir FD/FDV (2b-24) oder MRT/PSM (2b-25) zu installieren

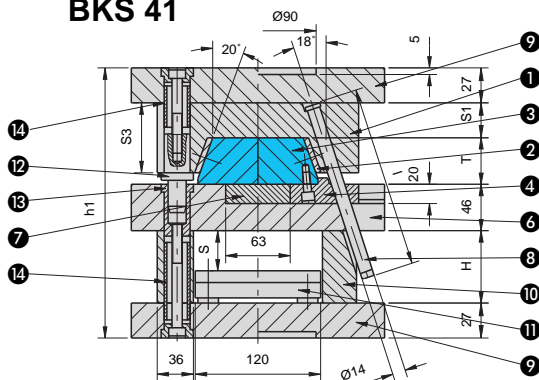
♣ Om veiligheidsredenen bevelen wij het plaatsen van FD/FDV (2b-24), of MRT/PSM (2b-25) aan ♠ Pour des raisons de sécurité nous conseillons d'installer des FD/FDV (2b-24) ou MRT/PSM (2b-25)

N 2025 BK(S)

(196 x 246 mm)

BK 41

BKS 41

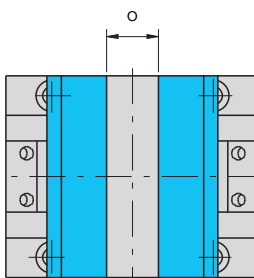


BK 41

REF.	Mat	T			
		27	36	46	56
N 2025 BK41-T/3-H	1.2312				
N 2025 BK41-T/5-H	1.2344				
N 2025 BK41-T/6-H	1.2767				
N 2025 BK41-T/7-H	1.2311				
N 2025 BK41-T/9-H	Impax				
N 2025 BK41-T/10-H	Ramax				
N 2025 BK41-T/11-H	Stavax				

BKS 41

REF.	Mat	T			
		27	36	46	56
N 2025 BKS41-T/10-H	Ramax				
N 2025 BKS41-T/11-H	Stavax				



T	H	W	S	S1	S3	I	h1	O
27	56	52	23	27	46	140	210	46
36	76	48	43	27	55	160	239	52
46	76	45	43	36	74	180	258	52
56	96	41	63	36	84	200	288	58

1 x BK 4011 (BKS 4011) 2b-18

- ♥ Top bolster plate
- ◆ Zuhalteplatte
- ♣ Sluitplaat
- ♠ Plaque de rappel de fermeture

2 x BK 4012 (BKS 4012) 2b-18

- ♥ Wear strips
- ◆ Druckleisten
- ♣ Slijtstrippen
- ♠ Plaquettes d'usure

2 x BK 4013 (Typ(e) A - BK 41) (Typ(e) B - BK 42) 2b-19

- ♥ Split cavity blocks
- ◆ Formbacken
- ♣ Schuiven
- ♠ Blocs tiroirs

2 x BK 4014 (BKS 4014) 2b-19

- ♥ Guide blocks
- ◆ Führungsleisten
- ♣ Leibblokken
- ♠ Coulisseaux

4 x BK 4018 2b-20

- ♥ Slides
- ◆ Führungsleiste
- ♣ Leiplatten
- ♠ Glissières

1 x BK 4017 (BKS 4017) 2b-20

- ♥ Bottom plate
- ◆ Bodenplatte
- ♣ Grondplaat
- ♠ Plaque support de coulisseaux

1 x BK 4016 2b-21

- ♥ Core bar
- ◆ Kernleiste
- ♣ Kernplaat
- ♠ Base tiroirs

4 x APD 2b-23

- ♥ Angle pins
- ◆ Schrägstifte
- ♣ Schuifpennen
- ♠ Doigts de coulisseaux

2 x K 1300/K 1400 (KS 1300/KS 1400) 2b-21

- ♥ Clamping plates
- ◆ Aufspannplatten
- ♣ Opspanplaten
- ♠ Semelles

2 x K 4200 (KS 4200) 2b-22

- ♥ Risers
- ◆ Distanzleisten
- ♣ Steunlijsten
- ♠ Tasseaux

1 x K 6100/ K 6200 (KS 6100/KS 6200) 2b-22

- ♥ Ejector plates
- ◆ Auswerferplatten
- ♣ Uitwerplaten
- ♠ Plaques éjectrices

4 x K 7711 + K 7616 2b-23

- ♥ Leader pins
- ◆ Führungssäulen
- ♣ Geleide pennen
- ♠ Colonnes de guidage

4 x K 7721 + K 7616 2b-23

- ♥ Leader pin bushings
- ◆ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Bagues de guidage

8 x K 7731 2b-24

- ♥ Tubular dowels
- ◆ Passhülsen
- ♣ Centreerhulzen
- ♠ Douilles de centrage

4 x 7661 2b-23

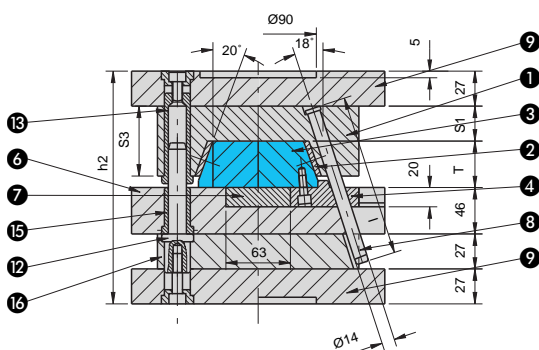
- ♥ Leader pin bushings
- ◆ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Bagues de guidage

1 x K 2200 (KS 2000) 2b-22

- ♥ Support plate
- ◆ Kernhalteplatte
- ♣ Steunplaat
- ♠ Plaque support

BK 42

BKS 42

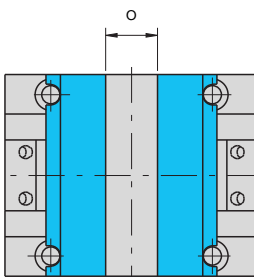


BK 42

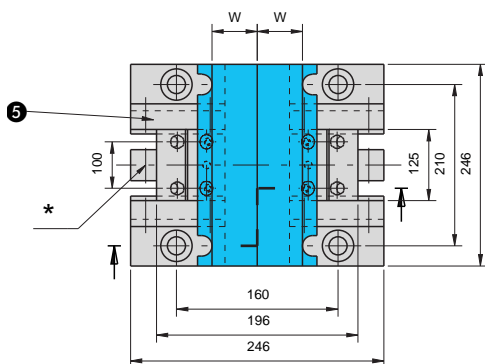
REF.	Mat	T			
		27	36	46	56
N 2025 BK42-T/3	1.2312				
N 2025 BK42-T/5	1.2344				
N 2025 BK42-T/6	1.2767				
N 2025 BK42-T/7	1.2311				
N 2025 BK42-T/9	Impax				
N 2025 BK42-T/10	Ramax				
N 2025 BK42-T/11	Stavax				

BKS 42

REF.	Mat	T			
		27	36	46	56
N 2025 BKS42-T/10	Ramax				
N 2025 BKS42-T/11	Stavax				



T	W	S1	S3	I	h2	O
27	52	27	46	140	181	46
36	48	27	55	160	190	52
46	45	36	74	180	209	52
56	41	36	84	200	219	58



* ♥ For safety reasons we recommend to install FD/FDV (2b-24) or MRT/PSM (2b-25) ◆ Aus Sicherheitsgründen empfehlen wir FD/FDV (2b-24) oder MRT/PSM (2b-25) zu installieren
♣ Om veiligheidsredenen bevelen wij het plaatsen van FD/FDV (2b-24), of MRT/PSM (2b-25) aan ♠ Pour des raisons de sécurité nous conseillons d'installer des FD/FDV (2b-24) ou MRT/PSM (2b-25)

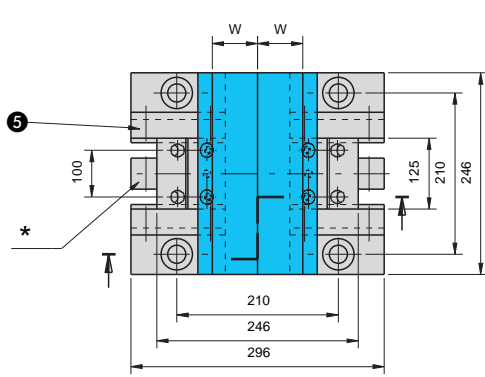
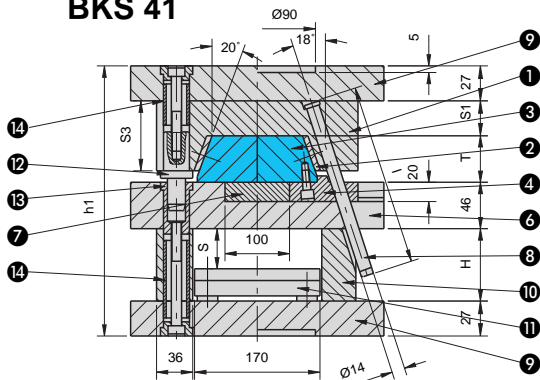
♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

N 2525 BK(S)

(246 x 246 mm)

BK 41 BKS 41

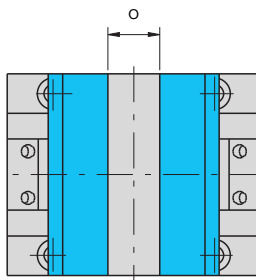


BK 41

REF.	Mat	T			
		27	36	46	56
N 2525 BK41-T/3-H	1.2312				
N 2525 BK41-T/5-H	1.2344				
N 2525 BK41-T/6-H	1.2767				
N 2525 BK41-T/7-H	1.2311				
N 2525 BK41-T/9-H	Impax				
N 2525 BK41-T/10-H	Ramax				
N 2525 BK41-T/11-H	Stavax				

BKS 41

REF.	Mat	T			
		27	36	46	56
N 2525 BKS41-T/10-H	Ramax				
N 2525 BKS41-T/11-H	Stavax				



T	H	W	S	S1	S3	I	h1	O
27	56	77	23	27	46	140	210	46
36	76	73	43	27	55	160	239	52
46	76	70	43	36	74	180	258	52
56	96	66	63	36	84	200	288	58

1 x BK 4011 (BKS 4011) 2b-18

♥ Top bolster plate
♦ Zuhalteplatte
♣ Sluitplaat
♠ Plaque de rappel de fermeture

2 x BK 4012 (BKS 4012) 2b-18

♥ Wear strips
♦ Druckleisten
♣ Slijstrippen
♠ Plaquettes d'usure

3 x BK 4013 (Typ(e) A - BK 41) (Typ(e) B - BK 42) 2b-19

♥ Split cavity blocks
♦ Formbacken
♣ Schuiven
♠ Blocs tiroirs

2 x BK 4014 (BKS 4014) 2b-19

♥ Guide blocks
♦ Führungsleisten
♣ Leiblokken
♠ Coulisseaux

4 x BK 4018 2b-20

♥ Slides
♦ Führungsleiste
♣ Leiplates
♠ Glissières

1 x BK 4017 (BKS 4017) 2b-20

♥ Bottom plate
♦ Bodenplatte
♣ Grondplaat
♠ Plaque support de coulisseaux

1 x BK 4016 2b-21

♥ Core bar
♦ Kernleiste
♣ Kernplaat
♠ Base tiroirs

4 x APD 2b-23

♥ Angle pins
♦ Schrägstifte
♣ Schuifpennen
♠ Doigts de coulisseaux

2 x K 1300/K 1400 (KS 1300/KS 1400) 2b-21

♥ Clamping plates
♦ Aufspannplatten
♣ Opspanplaten
♠ Semelles

2 x K 4200 (KS 4200) 2b-22

♥ Risers
♦ Distanzleisten
♣ Steunlijsten
♠ Tasseaux

1 x K 6100/ K 6200 (KS 6100/KS 6200) 2b-22

♥ Ejector plates
♦ Auswerferplatten
♣ Uitwerplaten
♠ Plaques éjectrices

4 x K 7711 + K 7616 2b-23

♥ Leader pins
♦ Führungssäulen
♣ Geleide pennen
♠ Colonnes de guidage

4 x K 7721 + K 7616 2b-23

♥ Leader pin bushings
♦ Führungsbuchsen
♣ Geleide bussen
♠ Bagues de guidage

8 x K 7731 2b-24

♥ Tubular dowels
♦ Passhülsen
♣ Centreerhulzen
♠ Douilles de centrage

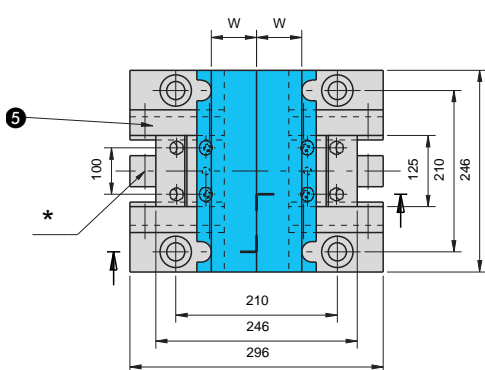
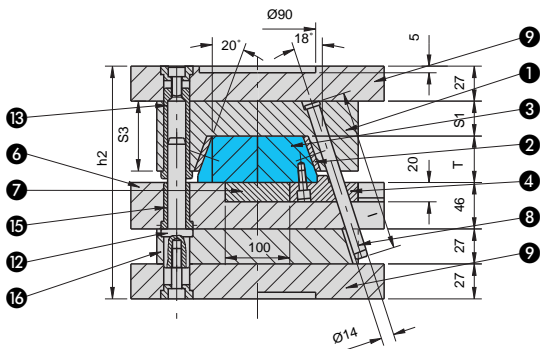
4 x 7661 2b-23

♥ Leader pin bushings
♦ Führungsbuchsen
♣ Geleide bussen
♠ Bagues de guidage

1 x K 2200 (KS 2000) 2b-22

♥ Support plate
♦ Kernhalteplatte
♣ Steunplaat
♠ Plaque support

BK 42 BKS 42

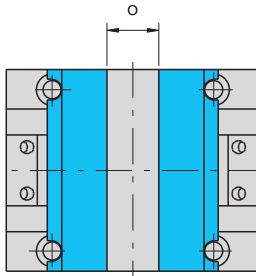


BK 42

REF.	Mat	T			
		27	36	46	56
N 2525 BK42-T/3	1.2312				
N 2525 BK42-T/5	1.2344				
N 2525 BK42-T/6	1.2767				
N 2525 BK42-T/7	1.2311				
N 2525 BK42-T/9	Impax				
N 2525 BK42-T/10	Ramax				
N 2525 BK42-T/11	Stavax				

BKS 42

REF.	Mat	T			
		27	36	46	56
N 2525 BKS42-T/10	Ramax				
N 2525 BKS42-T/11	Stavax				



T	W	S1	S3	I	h2	O
27	77	27	46	140	181	46
36	73	27	55	160	190	52
46	70	36	74	180	209	52
56	66	36	84	200	219	58

* ♥ For safety reasons we recommend to install FD/FDV (2b-24) or MRT/PSM (2b-25) ♦ Aus Sicherheitsgründen empfehlen wir FD/FDV (2b-24) oder MRT/PSM (2b-25) zu installieren

♣ Om veiligheidsredenen bevelen wij het plaatsen van FD/FDV (2b-24), of MRT/PSM (2b-25) aan ♠ Pour des raisons de sécurité nous conseillons d'installer des FD/FDV (2b-24) ou MRT/PSM (2b-25)

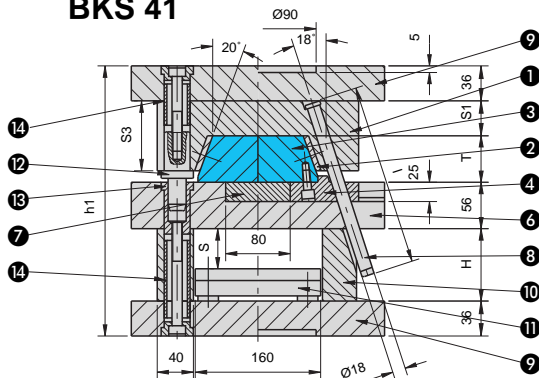
♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

N 2530 BK(S)

(246 x 296 mm)

BK 41 BKS 41

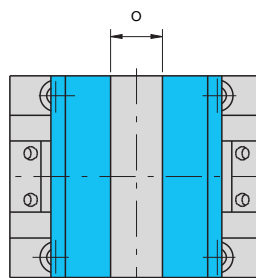


BK 41

REF.	Mat	T			
		46	56	76	96
N 2530 BK41-T/3-H	1.2312				
N 2530 BK41-T/5-H	1.2344				
N 2530 BK41-T/6-H	1.2767				
N 2530 BK41-T/7-H	1.2311				
N 2530 BK41-T/9-H	Impax				
N 2530 BK41-T/10-H	Ramax				
N 2530 BK41-T/11-H	Stavax				

BKS 41

REF.	Mat	T			
		46	56	76	96
N 2530 BKS41-T/10-H	Ramax				
N 2530 BKS41-T/11-H	Stavax				



T	H	W	S	S1	S3	I	h1	O
46	76	60	43	36	74	180	286	50
56	96	57	63	36	84	200	316	56
76	96	50	63	46	114	230	346	56
96	96	42	63	46	134	250	366	56

1 x BK 4011 (BKS 4011) 2b-18

- ♥ Top bolster plate
- ♦ Zuhalteplatte
- ♣ Sluitplaat
- ♠ Plaque de rappel de fermeture

2 x BK 4012 (BKS 4012) 2b-18

- ♥ Wear strips
- ♦ Druckleisten
- ♣ Slijtstrippen
- ♠ Plaquettes d'usure

2 x BK 4013 (Typ(e) A - BK 41) (Typ(e) B - BK 42) 2b-19

- ♥ Split cavity blocks
- ♦ Formbacken
- ♣ Schuiven
- ♠ Blocs tiroirs

2 x BK 4014 (BKS 4014) 2b-19

- ♥ Guide blocks
- ♦ Führungsleisten
- ♣ Leibblokken
- ♠ Coulisseaux

4 x BK 4018 2b-20

- ♥ Slides
- ♦ Führungsleiste
- ♣ Leiplatten
- ♠ Glissières

1 x BK 4017 (BKS 4017) 2b-20

- ♥ Bottom plate
- ♦ Bodenplatte
- ♣ Grondplaat
- ♠ Plaque support de coulisseaux

1 x BK 4016 2b-21

- ♥ Core bar
- ♦ Kernleiste
- ♣ Kernplaat
- ♠ Base tiroirs

8 x APD 2b-23

- ♥ Angle pins
- ♦ Schrägstifte
- ♣ Schuifpennen
- ♠ Doigts de coulisseaux

2 x K 1300/K 1400 (KS 1300/KS 1400) 2b-21

- ♥ Clamping plates
- ♦ Aufspannplatten
- ♣ Opspanplaten
- ♠ Semelles

2 x K 4200 (KS 4200) 2b-22

- ♥ Risers
- ♦ Distanzleisten
- ♣ Steunlijsten
- ♠ Tasseaux

1 x K 6100/ K 6200 (KS 6100/KS 6200) 2b-22

- ♥ Ejector plates
- ♦ Auswerferplatten
- ♣ Uitwerplaten
- ♠ Plaques éjectrices

4 x K 7711 + K 7616 2b-23

- ♥ Leader pins
- ♦ Führungssäulen
- ♣ Geleide pennen
- ♠ Colonnes de guidage

4 x K 7721 + K 7616 2b-23

- ♥ Leader pin bushings
- ♦ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Bagues de guidage

8 x K 7731 2b-24

- ♥ Tubular dowels
- ♦ Passhülsen
- ♣ Centreerhulzen
- ♠ Douilles de centrage

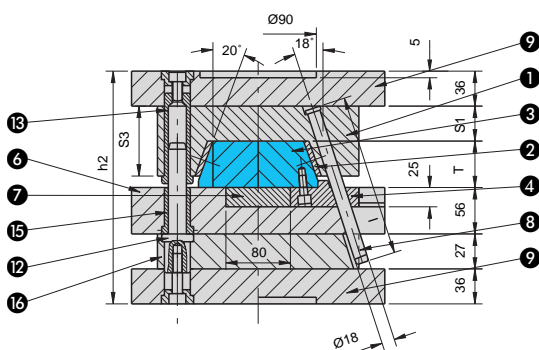
4 x 7661 2b-23

- ♥ Leader pin bushings
- ♦ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Bagues de guidage

1 x K 2200 (KS 2000) 2b-22

- ♥ Support plate
- ♦ Kernhalteplatte
- ♣ Steunplaat
- ♠ Plaque support

BK 42 BKS 42

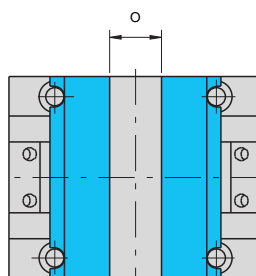


BK 42

REF.	Mat	T			
		46	56	76	96
N 2530 BK42-T/3	1.2312				
N 2530 BK42-T/5	1.2344				
N 2530 BK42-T/6	1.2767				
N 2530 BK42-T/7	1.2311				
N 2530 BK42-T/9	Impax				
N 2530 BK42-T/10	Ramax				
N 2530 BK42-T/11	Stavax				

BKS 42

REF.	Mat	T			
		46	56	76	96
N 2530 BKS42-T/10	Ramax				
N 2530 BKS42-T/11	Stavax				



T	W	S1	S3	I	h2	O
46	60	36	74	180	237	50
56	57	36	84	200	247	56
76	50	46	114	230	277	56
96	42	46	134	250	297	56

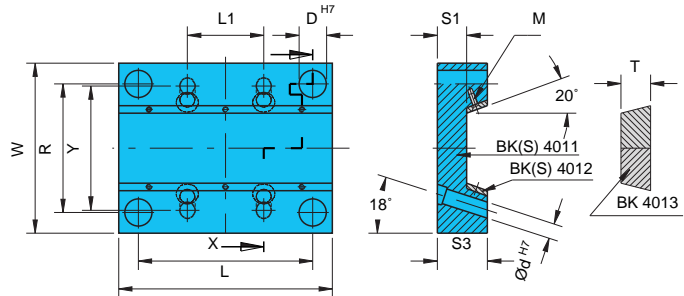
* ♥ For safety reasons we recommend to install FD/FDV (2b-24) or MRT/PSM (2b-25) ♦ Aus Sicherheitsgründen empfehlen wir FD/FDV (2b-24) oder MRT/PSM (2b-25) zu installieren
♣ Om veiligheidsredenen bevelen wij het plaatsen van FD/FDV (2b-24), of MRT/PSM (2b-25) aan ♠ Pour des raisons de sécurité nous conseillons d'installer des FD/FDV (2b-24) ou MRT/PSM (2b-25)

♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

BK 4011 (BKS 4011)

♥ Top bolster plates - ♦ Zuhalteplatten - ♣ Sluitplaten - ♠ Plaques de rappel de fermeture



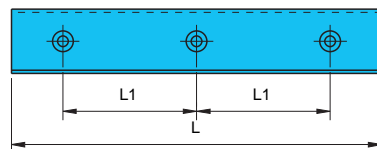
REF. Mat. DME 3	T	REF. Mat. DME 10	T	L	W	X	R	Y	L1	D	S1	S3	d	M
BK 4011-1216 E-27		BKS 4011-1216 E-27		156	125	125	95	93,9	36	20	27	46	10	M4
	36		36								27	55		
BK 4011-1616 E-27		BKS 4011-1616 E-27		156	156	125	125	117,9	36	20	27	46	10	M4
	36		36								27	55		
BK 4011-1620 E-27		BKS 4011-1620 E-27		196	156	160	118	113,9	54	25	27	46	14	M6
	36		36								27	55		
	46		46								36	74		
BK 4011-2020 E-27		BKS 4011-2020 E-27		196	196	160	160	153,9	54	25	27	46	14	M6
	36		36								27	55		
	46		46								36	74		
BK 4011-2025 E-27		BKS 4011-2025 E-27		246	196	210	160	153,9	100	25	27	46	14	M6
	36		36								27	55		
	46		46								36	74		
	56		56								36	84		
BK 4011-2525 E-27		BKS 4011-2525 E-27		246	246	210	210	203,9	100	25	27	46	14	M6
	36		36								27	55		
	46		46								36	74		
	56		56								36	84		
BK 4011-2530 E-46		BKS 4011-2530 E-46		296	246	244	200	194	110	25	36	74	18	M6
	56		56								36	84		
	76		76								46	114		
	96		96								46	134		

BK 4012 (BKS 4012)

♥ Wear strips - ♦ Druckleisten - ♣ Slijtstrippen - ♠ Plaques d'usure



♥ Set : 2 pcs.
♦ Satz : 2 St.
♣ Set : 2 st.
♠ Jeu : 2 pcs.



* 0,4 mm
♥ oversize
♦ Aufmaß
♣ overmaats
♠ surépaisseur

T = ♥ Height split cavity blocks
♦ Backenhöhe
♣ Hoogte van de schuiven
♠ Hauteur des blocs tiroirs

REF. Mat. 1.7131	T	REF. Mat. DME 11 HRC 52 ±2	T	W	L	L1	P*	REF. Mat. 1.7131	T	REF. Mat. DME 11 HRC 52 ±2	T	W	L	L1	P*
BK 4012-1216-27		BKS 4012-1216-27		19	154	50	3,8	BK 4012-2025-36		BKS 4012-2025-36		28	244	85	4,8
	36		36	28					46		46	38			
									56		56	48			
BK 4012-1616-27		BKS 4012-1616-27		19	154	50	3,8	BK 4012-2525-27		BKS 4012-2525-27		19	244	85	4,8
	36		36	28					36		36	28			
	46		46	38					46		46	38			
BK 4012-1620-27		BKS 4012-1620-27		19	194	70	4,8		56		56	48			
	36		36	28				BK 4012-2530-46		BKS 4012-2530-46		38	294	115	5,6
	46		46	38					56		56	48			
BK 4012-2020-27		BKS 4012-2020-27		19	194	70	4,8		76		76	68			
	36		36	28					96		96	88			
	46		46	38											
BK 4012-2025-27		BKS 4012-2025-27		19	244	85	4,8								

BK 4003 (BKS 4003)

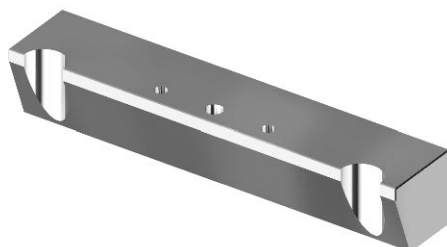
♥ Locking units - ♦ Zuhalteinheit - ♣ Vergrendeleenheden - ♠ Unités de blocage

1 BK (BKS) 4011 + 2 BK (BKS) 4012

REF.	REF.	REF.	REF.	REF.
BK (BKS) 4003-1216-27	BK (BKS) 4003-1620-36	BK (BKS) 4003-2025-27	BK (BKS) 4003-2525-27	BK (BKS) 4003-2530-46
36	46	36	36	56
1616-27	2020-27	46	46	76
36	36	56	56	96
1620-27	46			

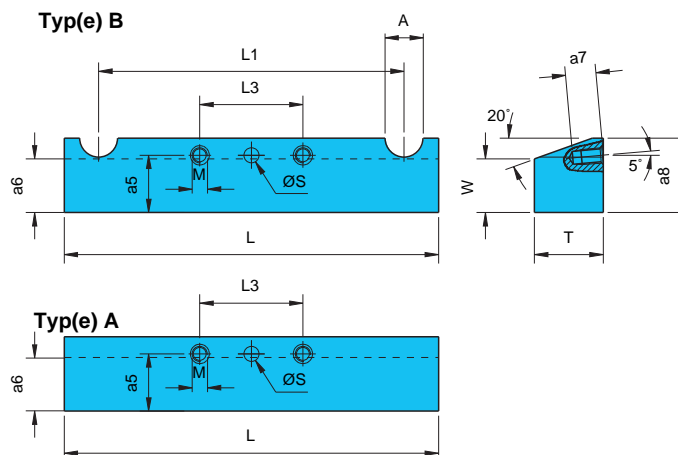
BK 4013

- ♥ Split cavity blocks
♦ Formbacken
♣ Schuiven
♠ Blocs tiroirs



- ♥ Set : 2 pcs.
♦ Satz : 2 St.
♣ Set : 2 st.
♠ Jeu : 2 pcs.

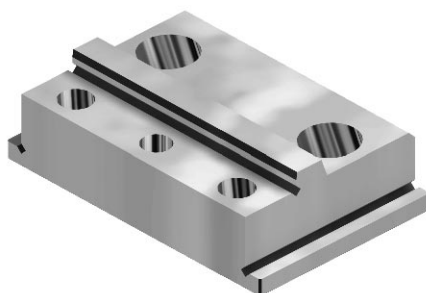
Typ(e) A for/für/voor/pour BK(S) 41
Typ(e) B for/für/voor/pour BK(S) 42



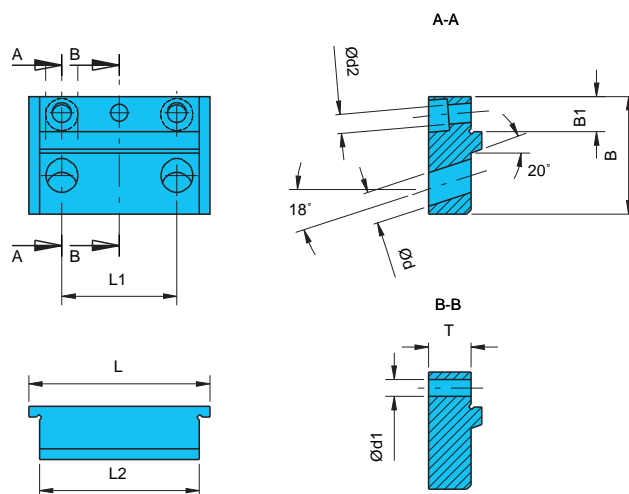
REF.	T	REF.	T	Mat.	a6	W	a8	L	L3	L1	a5	a7	A	M	S
BK 4013-A-Mat. 1216-27		BK 4013-B-Mat. 1216-27		DME 3	23	24	31,5	156	36	125	25	14	16	M6	6
36		36			20	20	31,5								
BK 4013-A-Mat. 1616-27		BK 4013-B-Mat. 1616-27		DME 5	38	39	46,5	156	36	125	38	15	16	M6	8
36		36			35	35	46,5								
BK 4013-A-Mat. 1620-27		BK 4013-B-Mat. 1620-27		DME 6	32	32	39	196	54	160	30	16	20	M8	8
36		36			29	28	39								
46		46		DME 7	29	25	39								
BK 4013-A-Mat. 2020-27		BK 4013-B-Mat. 2020-27			53	52	59	196	54	160	48	20	20	M8	8
36		36		DME 9	50	48	59				19				
46		46			50	45	59				19				
BK 4013-A-Mat. 2025-27		BK 4013-B-Mat. 2025-27		DME 10	47	52	59	246	100	210	48	20	20	M8	8
36		36			44	48	59								
46		46		DME 11	44	45	59								
56		56			41	41	59								
BK 4013-A-Mat. 2525-27		BK 4013-B-Mat. 2525-27		DME 10	72	77	84	246	100	210	70	20	20	M8	10
36		36			69	73	84								
46		46		DME 11	69	70	84								
56		56			66	66	84								
BK 4013-A-Mat. 2530-46		BK 4013-B-Mat. 2530-46		DME 11	63	60	74,5	296	110	244	58	25	26	M10	10
56		56			60	57	74,5								
76		76			60	50	74,5								
96		96			60	42	74,5								

BK 4014 (BKS 4014)

- ♥ Guide blocks
♦ Führungsplatten
♣ Leibblokken
♠ Coulisseaux



- ♥ Set : 2 pcs.
♦ Satz : 2 St.
♣ Set : 2 st.
♠ Jeu : 2 pcs.



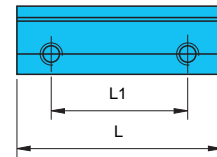
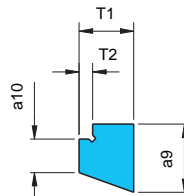
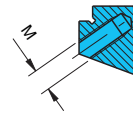
REF. Mat. 1.7131 HRC 62 ±2	REF. Mat. 1.4112	B	L	L1	L2	d	d1	d2	B1
BK 4014-1216-15	BKS 4014-1216-15	44,6	63	36	55	11	6	7	13,5
1616-15	1616-15	52,6	63	36	55	11	6	7	21,5
1620-20	1620-20	55,1	85	54	75	15	8	9	16,5
2020-20	2020-20	66,1	85	54	75	15	8	9	27,5
2025-20	2025-20	66,1	135	100	125	15	8	9	27,5
2525-20	2525-20	72,6	135	100	125	19	10	9	34,0
2530-25	2530-25	82,6	152	110	136	19	10	11	34,5

♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

BK 4018

♥ Slides
♦ Führungsleisten
♣ Leiplatten
♠ Glissières

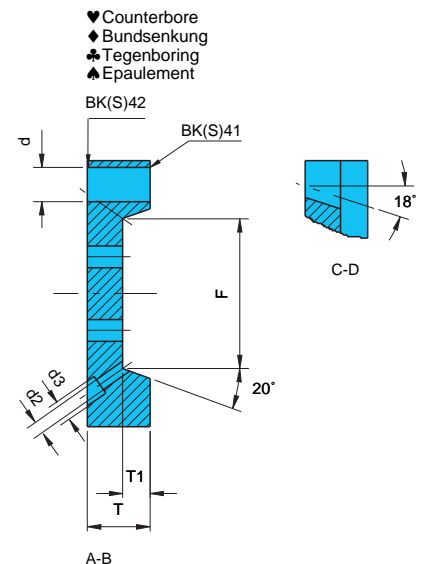
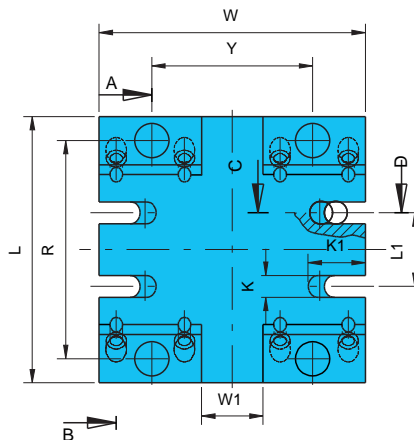
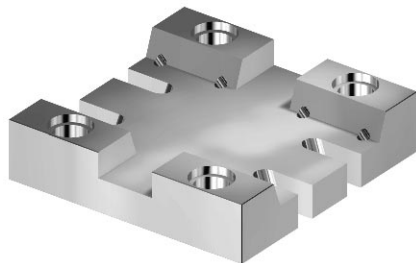


♥ Set : 4 pcs.
♦ Satz : 4 St.
♣ Set : 4 st.
♠ Jeu : 4 pcs.

REF.	Mat.	L	T1	a9	a10	L1	T2	M	REF.	Mat.	L	T1	a9	a10	L1	T2	M
BK 4018-Mat -1216	1.7131	59,6	15	20	10	40	4	6	BK 4018-Mat -2025	1.7131	91,1	20	25	12	55	6	8
1616	(HRC 62 ±2)	72,6	15	20	10	50	4	6	2525	(HRC 62 ±2)	97,6	20	25	12	60	6	8
1620	Ampco 21	75,1	20	25	12	50	5	8	2530	Ampco 21	107,6	25	31	13,5	68	7	10
2020		91,1	20	25	12	55	5	8									

BK 4017 (BKS 4017)

♥ Bottom plates
♦ Bodenplatten
♣ Grondplatten
♠ Plaques supports de coulisseaux



REF. Mat. DME 3	T	REF. Mat. DME 10	T	T1	W	L	L1	Y	R	W1	d	d3	d2	K	F	K1
BK 4017-1216-36		BKS 4017-1216-36		15	156	156	36	95	125	36	20	11	7	12	84	33
1616-36		1616-36		15	196	156	36	125	125	50	20	11	7	12	84	40
1620-46		1620-46		20	196	196	54	118	160	45	25	15	9	16	110	42
2020-46		2020-46		20	246	196	54	160	160	63	25	15	9	16	110	45
2025-46		2025-46		20	246	246	100	160	210	63	25	15	9	16	160	45
2525-46		2525-46		20	296	246	100	210	210	100	25	15	9	16	160	45
2530-56		2530-56		25	296	296	110	200	244	80	25	18	11	20	180	51

BK 4001 (BKS 4001)

♥ Slide units
♦ Schiebereinheit
♣ Schuifeenheden
♠ Unités de glissière

BK 4001 = 2 BK 4014 + 1 BK 4017 + 4 BK 4018
BKS 4001 = 2 BKS 4014 + 1 BKS 4017 + 4 BKS 4018

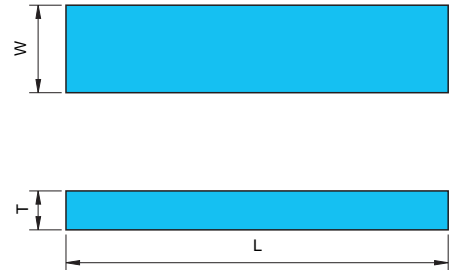
REF.	REF.	REF.
BK(S) 4001-1216	BK(S) 4001-2020	BK(S) 4001-2525
BK(S) 4001-1616	BK(S) 4001-2025	BK(S) 4001-2530
BK(S) 4001-1620		

♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

BK 4016

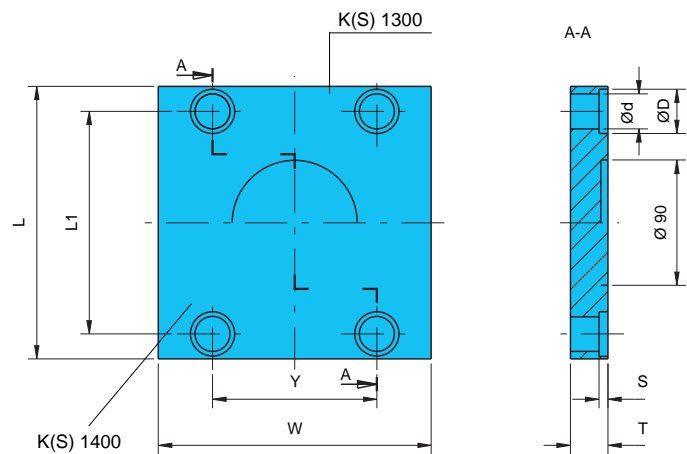
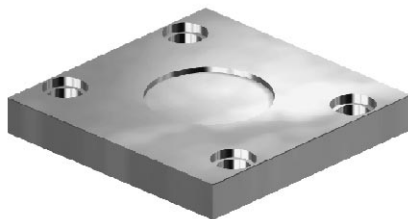
♥ Core bars
♦ Kernleisten
♣ Kernplatten
♠ Bases tiroirs



REF.	Mat.	L	W	T	REF.	Mat.	L	W	T
BK 4016-Mat -1216	DME 3 - DME 5	156	36	15	BK 4016-Mat -2025	DME 3 - DME 5	246	63	20
1616	DME 6 - DME 7	156	50	15	2525	DME 6 - DME 7	246	100	20
1620	DME 9 - DME 10	196	45	20	2530	DME 9 - DME 10	296	80	25
2020	DME 11	196	63	20		DME 11			

K 1300 - K 1400 (KS 1300 - KS 1400)

♥ Clamping plates
♦ Aufspannplatten
♣ Opspanplaten
♠ Semelles



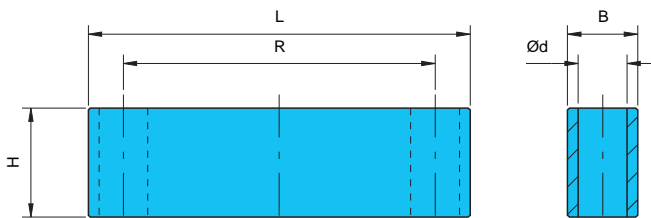
REF. Mat. DME 1	T	REF. Mat. DME 10	T	W	L	Y	L1	D	d	S
K 1300-1-1216 E-27		KS 1300-10-1216 E-27		156	156	95	125	26	20	6,5
K 1300-1-1616 E-27		KS 1300-10-1616 E-27		196	156	125	125	26	20	6,5
K 1300-1-1620 E-27		KS 1300-10-1620 E-27		196	196	118	160	32	25	6,5
K 1300-1-2020 E-27		KS 1300-10-2020 E-27		246	196	160	160	32	25	6,5
K 1300-1-2025 E-27		KS 1300-10-2025 E-27		246	246	160	210	32	25	6,5
K 1300-1-2525 E-27		KS 1300-10-2525 E-27		296	246	210	210	32	25	6,5
K 1300-1-2530 E-36		KS 1300-10-2530 E-36		296	296	200	244	32	25	6,5
K 1400-1-1216 E-27		KS 1400-10-1216 E-27		156	156	95	125	26	20	6,5
K 1400-1-1616 E-27		KS 1400-10-1616 E-27		196	156	125	125	26	20	6,5
K 1400-1-1620 E-27		KS 1400-10-1620 E-27		196	196	118	160	32	25	6,5
K 1400-1-2020 E-27		KS 1400-10-2020 E-27		246	196	160	160	32	25	6,5
K 1400-1-2025 E-27		KS 1400-10-2025 E-27		246	246	160	210	32	25	6,5
K 1400-1-2525 E-27		KS 1400-10-2525 E-27		296	246	210	210	32	25	6,5
K 1400-1-2530 E-36		KS 1400-10-2530 E-36		296	296	200	244	32	25	6,5

♥ Sliding core molds
♦ Backenformen

Schuifmatrijzen ♣
Moules à tiroirs ♠

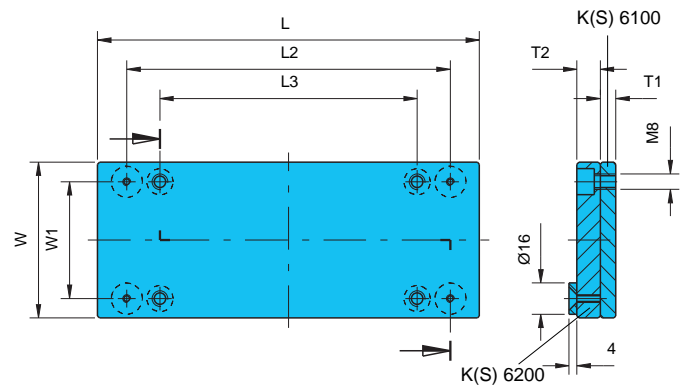
K 4200 (KS 4200)

♥ Risers
♦ Distanzleisten
♣ Steunlijsten
♠ Tasseaux



K(S) 6100 - K(S) 6200

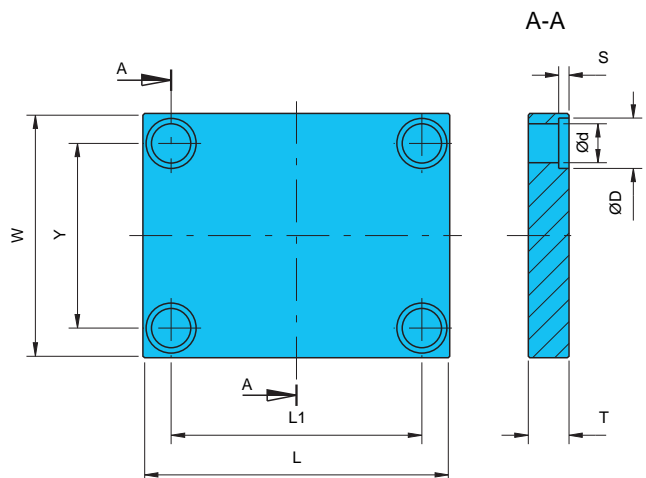
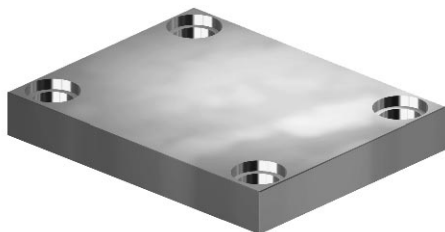
♥ Ejector plates
♦ Auswerferplatten
♣ Uitwerpplaten
♠ Plaques éjectrices



REF.	Mat. DME 1 ød L H	REF.	Mat. DME 10 ød L H	B	R	SERIE(S)	REF.	Mat. DME 1 W L T1/T2	REF.	Mat. DME 10 W L T1/T2	W1	L2	L3	SERIE(S)
K 4200-20-156-46		KS 4200-20-156-46		28	125	1216	K 6100- 67-156- 9		KS 6100- 67-156- 9		48	126	92	1216
56		56		28	125	1616	K 6100- 97-156- 9		KS 6100- 97-156- 9		77	126	92	1616
K 4200-25-196-46		KS 4200-25-196-46		36	160	1620	K 6100- 80-196- 9		KS 6100- 80-196- 9		60	166	132	1620
56		56		36	160	2020	K 6100-120-196-12		KS 6100-120-196-12		100	166	132	2020
76		76		36	160	2020	K 6100-120-246-12		KS 6100-120-246-12		100	216	182	2025
K 4200-25-246-56		KS 4200-25-246-56		36	210	2025	K 6100-170-246-12		KS 6100-170-246-12		146	216	182	2525
76		76		36	210	2525	K 6100-160-296-12		KS 6100-160-296-12		136	266	232	2530
96		96		36	210	2525	K 6200- 67-156-12		KS 6200- 67-156-12		48	126	92	1216
K 4200-25-296-76		KS 4200-25-296-76		40	244	2530	K 6200- 97-156-12		KS 6200- 97-156-12		77	126	92	1616
96		96		40	244	2530	K 6200- 80-196-12		KS 6200- 80-196-12		60	166	132	1620
							K 6200-120-196-17		KS 6200-120-196-17		100	166	132	2020
							K 6200-120-246-17		KS 6200-120-246-17		100	216	182	2025
							K 6200-170-246-17		KS 6200-170-246-17		146	216	182	2525
							K 6200-160-296-17		KS 6200-160-296-17		136	266	232	2530

K 2200 (KS 2200)

♥ Support plates
♦ Kernhalteplatten
♣ Steunplaten
♠ Plaques supports



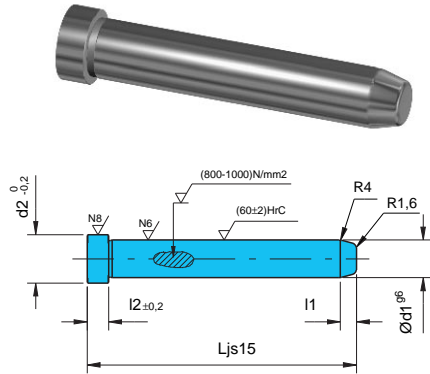
REF.	Mat. DME 1 T	REF.	Mat. DME 10 T	W	L	Y	L1	d	D	S	REF.	Mat. DME 1 T	REF.	Mat. DME 10 T	W	L	Y	L1	d	D	S
K 2200-1-1216 E-27		KS 2200-10-1216 E-27		125	156	95	125	20	26	6,5	K 2200-1-2025 E-27		KS 2200-10-2025 E-27		196	246	160	210	25	32	6,5
K 2200-1-1616 E-27		KS 2200-10-1616 E-27		156	156	125	125	20	26	6,5	K 2200-1-2525 E-27		KS 2200-10-2525 E-27		246	246	210	210	25	32	6,5
K 2200-1-1620 E-27		KS 2200-10-1620 E-27		156	196	118	160	25	32	6,5	K 2200-1-2530 E-27		KS 2200-10-2530 E-27		246	296	200	244	25	32	6,5
K 2200-1-2020 E-27		KS 2200-10-2020 E-27		196	196	160	160	25	32	6,5											

- ♥ Sliding core molds
- ♦ Backenformen

- Schuifmatrijzen ♣
- Moules à tiroirs ♠

APD

- ♥ Angle pins
- ♦ Schrägstifte
- ♣ Schuifpennen
- ♠ Doigts de démoulage

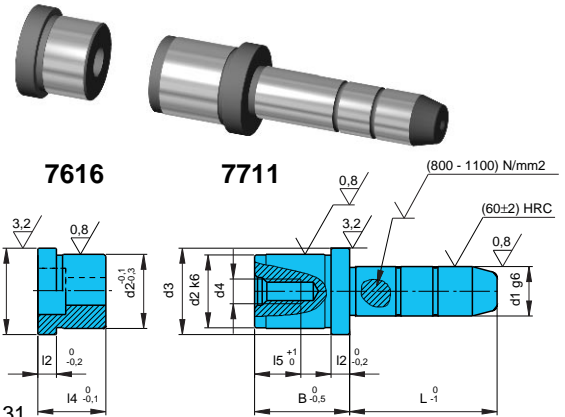


Mat. 1.7131

REF.	d1	L	d2	l1	l2
APD 10-120			12	5	3
140					
APD 14-120			18	6	8
140					
160					
180					
200					
210					
220					
230					
APD 18-140			22	8	8
160					
180					
200					
210					
220					
230					
250					

K 7711 + K 7616 (Euro)

- ♥ Leader pins + shoulder plates
- ♦ Führungsstifte + Schraubenführungsbuchsen
- ♣ Geleide pennen + inbouwplaatjes
- ♠ Colonnes de guidage + rondelles épaulées

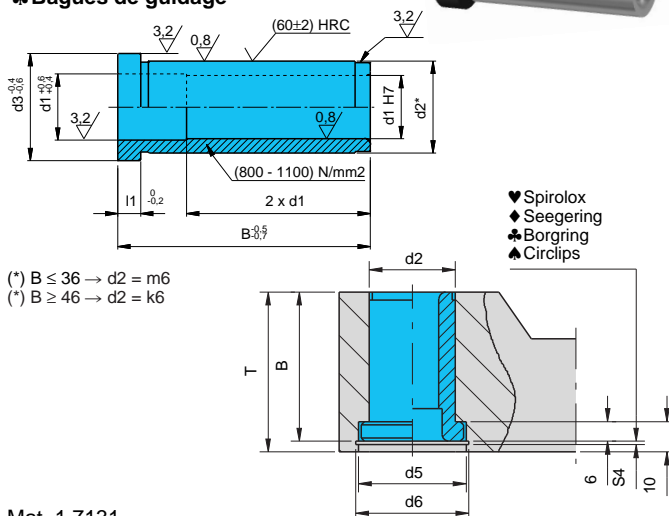


Mat. 1.7131

REF.	d1-B-	L	REF.	l2	l4	l5	d1	d2	d3	d4
K 7711-20-15/14-26-	50		K 7616-20	6	11	16	15/14	20	25	M8
70										
K 7711-20-15/14-30-	30									
50										
60										
100										
120										
K 7711-20-15/14-40-	40		K 7616-25	6	15	20	19/18	25	31	M10
K 7711-25-19/18-20-	30									
50										
K 7711-25-19/18-24-	30									
60										
K 7711-25-19/18-26-	30									
60										
K 7711-25-19/18-30-	30									
50										
60										
80										
K 7711-25-19/18-40-	40									
120										

K 7661 (Euro)

- ♥ Leader pin bushings
- ♦ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Bagues de guidage

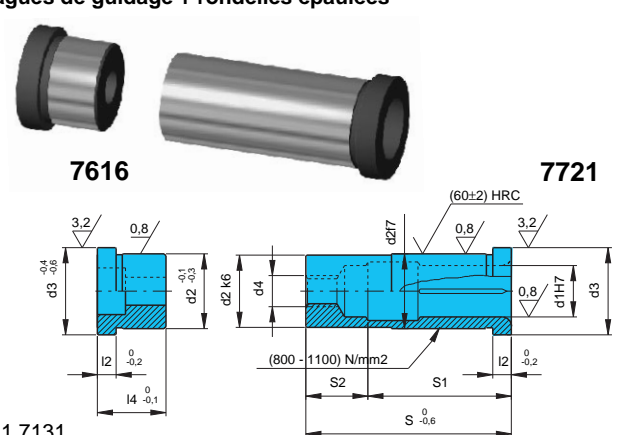


Mat. 1.7131

REF.	d1	B	d3	B	d2	l1	S4	d5	d6	T
K 7661-20-15/14-32	25	32	20	6	1,3	26	27,2	36		
25-19/18-42	31	42	25	6	1,3	32	33,7	46		
25-19/18-52	31	52	25	6	1,3	32	33,7	56		
32-24/23-52	38	52	32	6	1,5	39	41,0	56		

K 7721 + K 7616 (Euro)

- ♥ Leader pin bushings + shoulder plates
- ♦ Führungsbuchsen + Schraubenführungsbuchsen
- ♣ Geleide bussen + inbouwplaatjes
- ♠ Bagues de guidage + rondelles épaulées



Mat. 1.7131

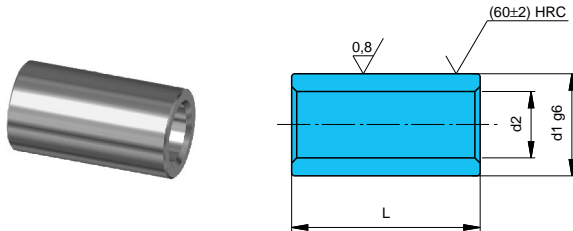
REF.	d2 - d1 -	S	REF.	S1	S2	d3	l2	l4	d4
K 7721-20-15/14-20-	50		K 7616-20	40	10	25	6	11	M8
60				50					
70				60					
K 7721-25-19/18-30-	50		K 7616-25	36	14	31	6	15	M10
60				46					
70				56					
80				66					
100				86					

- ♥ Sliding core molds
- ♦ Backenformen

- Schuifmatrijzen ♣
- Moules à tiroirs ♠

K 7731 (Euro)

- ♥ Tubular dowels
- ♦ Paßhülsen
- ♣ Centreerhulzen
- ♠ Douilles de centrage



Mat. 1.7131

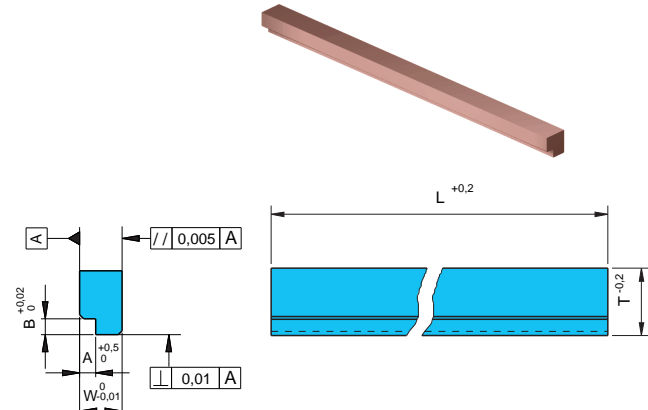
REF.	d1	L	d2	REF.	d1	L	d2	REF.	d1	L	d2	REF.	d1	L	d2
K 7731-20-15	16,5			K 7731-20-60	16,5			K 7731-25-15	21			K 7731-25-60	21		
20				70				20				70			
25				80				25				80			
30				90				30				90			
35				100				35				100			
40				120				40				120			
45								45							
50								50							

ALG-ATG-AWP

- ♥ Wear plates and gibs
- ♦ Gleitplatten und Führungsleisten
- ♣ Slijtstrippen en spieën
- ♠ Plaquettes d'usure et glissières

Mat. AMPCO 21

ALG



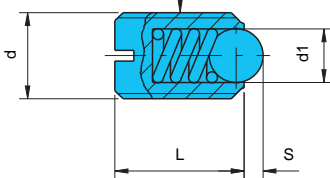
REF.	W	T	A	B	L	REF.	W	T	A	B	L
ALG 1616	16	16	6	6	250	ALG 2020	20	20	6	6	250
1625	16	25	6	6	250	2032	20	32	8	8	250
2516	25	16	6	6	250	2445	24	45	8	6	250

FD/FDV

- ♥ Spring loaded set screws
- ♦ Federnde Druckstücke
- ♣ Verende drukstiften
- ♠ Butées à ressort



FD = 100° C
FDV = 350° C



- *N1= ♥ Starting force
- ♦ Anfangskraft
- ♣ Beginkracht
- ♠ Force initiale

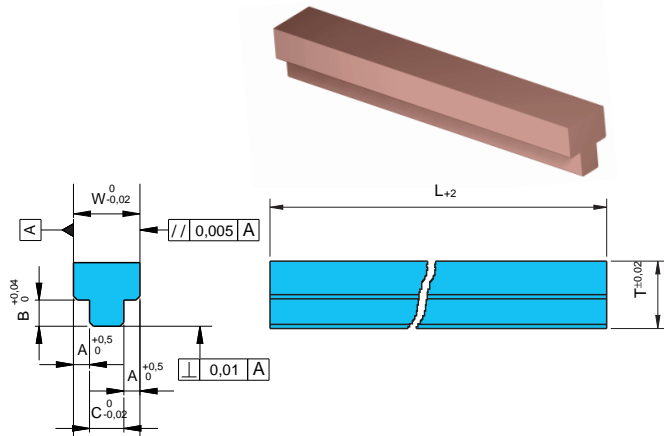
- *N2= ♥ Final force
- ♦ Endkraft
- ♣ Eindkracht
- ♠ Force finale

Mat. 1.0716

Mat. 1.4305

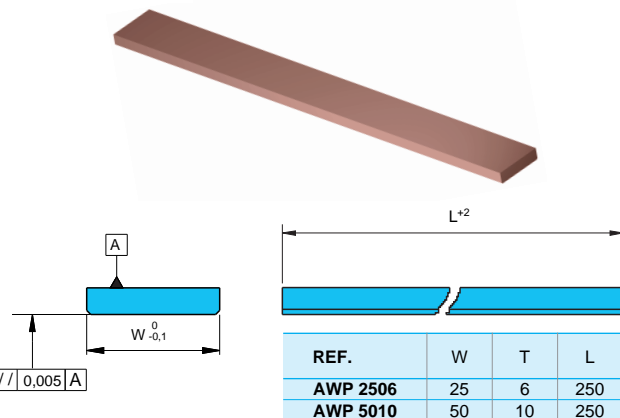
REF.	L	d1	S	N1	N2	d	REF.	L	d1	S	*N1	*N2	d
FD 6 x 14	3,5	1	9	15	M6		FDV 6 x 14	3,5	1	9	15	M6	
FD 8 x 16	5	1,5	18	30	M8		FDV 8 x 16	5	1,5	18	30	M8	
FD 10 x 19	6	2	20	40	M10		FDV 10 x 19	6	2	20	40	M10	
FD 12 x 22	8	2,5	30	55	M12		FDV 12 x 22	8	2,5	30	55	M12	
FD 16 x 24	10	3,5	65	120	M16		FDV 16 x 24	10	3,5	65	120	M16	

ATG



REF.	W	T	A	B	C	L	REF.	W	T	A	B	C	L
ATG 1566	22	25	6	11	9	156	ATG 2468	32	31	8	13	15	248
1966	26	25	6	11	13	196	2968	32	37	8	13	15	298
1968	30	31	8	13	13	198	3468	32	37	8	13	15	348
2148	30	31	8	13	13	218							

AWP



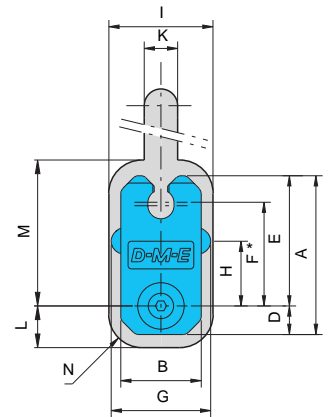
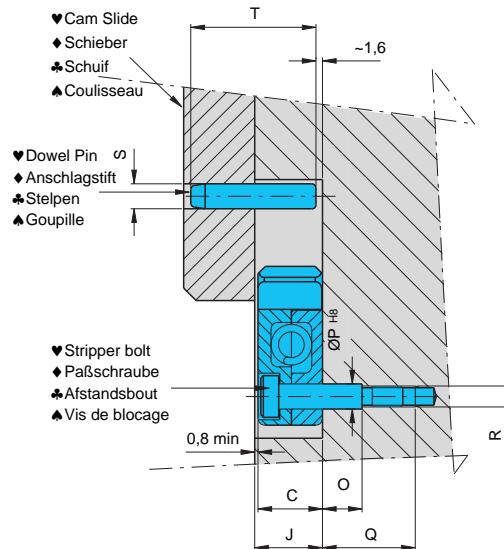
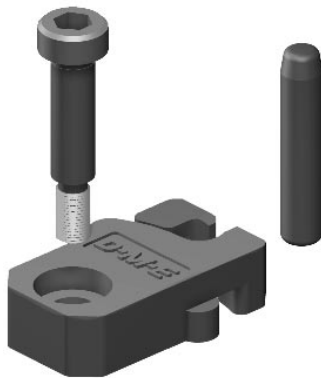
REF.	W	T	L
AWP 2506	25	6	250
AWP 5010	50	10	250

- ♥ Sliding core molds
- ♦ Backenformen

- Schuifmatrijzen ♣
- Moules à tiroirs ♠

PSM

- ♥ Slide retainers
- ♦ Schieberklammer
- ♣ Schuifsloten
- ♠ Retenues de coulisseau



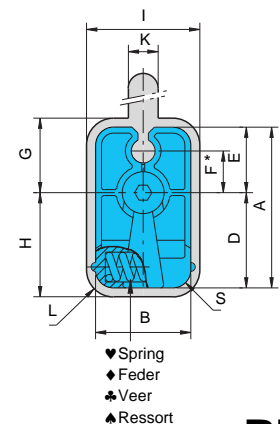
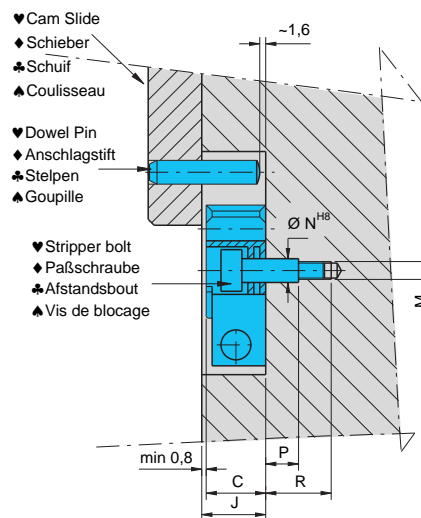
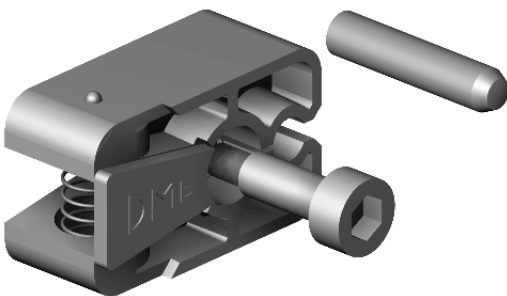
PM

REF.	♥ Cam slide ♦ Schieber ♣ Schuifslot ♠ Retenue de coulisseau	♥ Retainer pockets in mold ♦ Klammerausfräsung in der Form ♣ Uitsparingen in de matrijs ♠ Logement dans le moule	♥ Dowel pin ♦ Anschlagstift ♣ Cylindrische pen ♠ Goupille	♥ Max. slide weight ♦ Max. Schiebergewicht ♣ Max. gewicht van de schuif ♠ Poids maxi du coulisseau	♥ Tightening torque Stripper bolt ♦ Anzugsmoment Passschraube ♣ Torsiemoment Afstandsbout ♠ Couple de serrage Vis de blocage
	A B C D E F G H I J K L M N O P Q R S T			Newton	REF. max Nm
PSM-0001	38 19 16 7 31,5 24,89 24,0 15,5 25,5 17,5 8 10,0 34,5 8 8,5 6 20 M5 6 32			100	PM 5x20 10
PSM-0002	54 32 20 11 43,0 34,93 36,5 22,5 38,0 21,5 10 14,5 46,0 10 10,5 8 25 M6 8 40			200	6x25 15
PSM-0003	86 45 30 19 67,0 53,98 49,5 40,0 51,0 31,5 12 22,5 70,0 12 17,0 10 35 M8 10 60			400	8x40 20

- * ♥ The distance from the centre of the dowel pin to the centre of the stripper bolt is critical.
 ♦ Der Abstand zwischen Mittelpunkt Anschlagpunkt und Paßschraube muß genau eingehalten werden.
 ♣ De afstand tussen het midden van de stelpen en het midden van de afstandsbout moet nauwkeurig aangehouden worden.
 ♠ La distance du centre de la goupille au centre de la vis de blocage est à respecter rigoureusement.

MRT

- ♥ Slide retainers
- ♦ Schieberklammer
- ♣ Schuifsloten
- ♠ Retenues de coulisseau



PM

REF.	♥ Cam slide ♦ Schieber ♣ Schuifslot ♠ Retenue de coulisseau	♥ Retainer pockets in mold ♦ Klammerausfräsung in der Form ♣ Uitsparingen in de matrijs ♠ Logement dans le moule	♥ Dowel pin ♦ Anschlagstift ♣ Cylindrische pen ♠ Goupille	♥ Max. slide weight ♦ Max. Schiebergewicht ♣ Max. gewicht van de schuif ♠ Poids maxi du coulisseau	♥ Tightening torque Stripper bolt ♦ Anzugsmoment Passschraube ♣ Torsiemoment Afstandsbout ♠ Couple de serrage Vis de blocage
	A B C D E *F S G H I J K L M N P R		ø L	Newton	REF. max Nm
MRT-10M	38 19 16 22 16 9,15 5 19 26 25 17 8 8 M5 6 6 15,5 6 30			100	PM 5x20 10
MRT-20M	54 32 20 33 21 12,7 6 24 36 38 21 10 10 M6 8 8,5 20,5 8 40			200	6x25 15
MRT-40M	86 45 30 53 20,3 10 36 56 51 31 12 13 M8 10 10 25,0 10 60			400	8x40 20

- * ♥ The distance from the centre of the dowel pin to the centre of the stripper bolt is critical.
 ♦ Der Abstand zwischen Mittelpunkt Anschlagpunkt und Paßschraube muß genau eingehalten werden.
 ♣ De afstand tussen het midden van de stelpen en het midden van de afstandsbout moet nauwkeurig aangehouden worden.
 ♠ La distance du centre de la goupille au centre de la vis de blocage est à respecter rigoureusement.

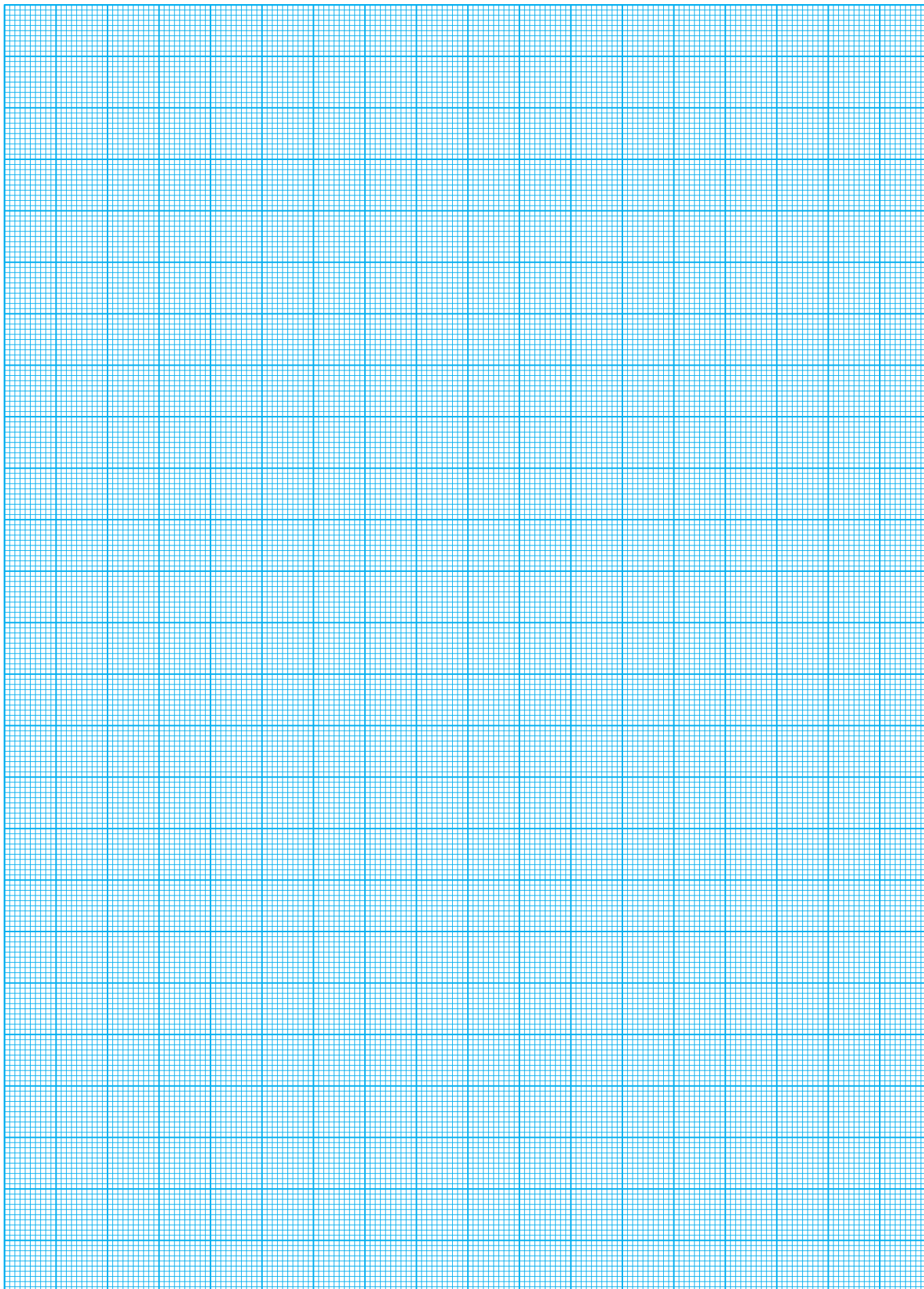
♥ Sliding core molds

♦ Backenformen

Schuifmatrijzen ♣

Moules à tiroirs ♠

NOTES - NOTIZEN - NOTA'S - NOTES



Index

	p./S.		p./S.
Info: ♥ Assemblies ♦ Aufbauten ♣ Samenbouw ♠ Assemblages	2c-2	4060 (396 x 596 mm)	2c-14/2c-15
		4545 (446 x 446 mm)	2c-16/2c-17
		4550 (446 x 496 mm)	2c-16/2c-17
		4560 (446 x 596 mm)	2c-16/2c-17
Info: ♥ Ordering example assemblies ♦ Bestellbeispiel Aufbauten ♣ Bestelvoorbeeld samenbouw ♠ Exemple de commande assemblages	2c-2	5050 (496 x 496 mm)	2c-18/2c-19
		5060 (496 x 596 mm)	2c-18/2c-19
Info: ♥ Dimensions chart ♦ Übersichtstabelle ♣ Referentietabel ♠ Tableau des dimensions	2c-3	5080 (496 x 796 mm)	2c-18/2c-19
		5555 (546 x 546 mm)	2c-20/2c-21
		5560 (546 x 596 mm)	2c-20/2c-21
Info: ♥ Interchangeable drilled D-plates ♦ Austauschbar gebohrte D-Platten ♣ Uitwisselbaar geboorde D-platen ♠ Plaques alésées interchangeables type D	2c-4	5580 (546 x 796 mm)	2c-20/2c-21
		6060 (596 x 596 mm)	2c-22/2c-23
		6080 (596 x 796 mm)	2c-22/2c-23
Info: ♥ Ordering example D-plates ♦ Bestellbeispiel D-Platten ♣ Bestelvoorbeeld D-platen ♠ Exemple de commande plaques D	2c-4	6090 (596 x 896 mm)	2c-22/2c-23
		DMCA	2c-29
		DR	2c-26
Info: ♥ Tolerances ♦ Toleranzen ♣ Toleranties ♠ Tolérances	2c-5/2c-6	ER	2c-26
		JST	2c-28
		MCV/FCV	2c-28
Info: ♥ Steel ♦ Stahl ♣ Staal ♠ Acier	2c-7	WF	2c-27
Info: ♥ Ordering instructions for unit die holders ♦ Bestellinstruktion für Wechselrahmen ♣ Bestelvoorbeeld voor moedermatrijzen ♠ Instructions de commande pour moules-mères	2c-24		
Info: ♥ Pre-engineered design features for unit die holders ♦ Konstruktionsmerkmale für Wechselrahmen ♣ Specifieke constructie-eigenschappen voor moedermatrijzen ♠ Caractéristiques techniques	2c-25		

D-DB-DS	
SERIE(S)	p./S.
2525 (246 x 246 mm)	2c- 8/2c- 9
2530 (246 x 296 mm)	2c- 8/2c- 9
2535 (246 x 346 mm)	2c- 8/2c- 9
2540 (246 x 396 mm)	2c- 8/2c- 9
3030 (296 x 296 mm)	2c-10/2c-11
3040 (296 x 396 mm)	2c-10/2c-11
3050 (296 x 496 mm)	2c-10/2c-11
3535 (346 x 346 mm)	2c-12/2c-13
3540 (346 x 396 mm)	2c-12/2c-13
3550 (346 x 496 mm)	2c-12/2c-13
4040 (396 x 396 mm)	2c-14/2c-15
4050 (396 x 496 mm)	2c-14/2c-15

♥ Mold bases diecasting - D-plates

♦ Druckgieß-Normalien - D-Platten

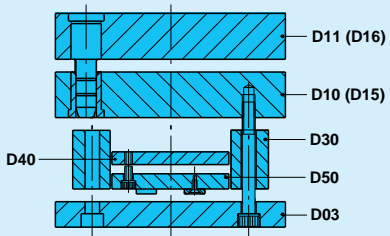
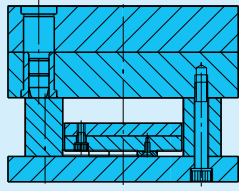
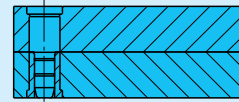
♣ Drukgietsmatrijzen - D-platen ♣

Porte-moules pour coulée sous pression - plaques D ♠

Info

♥ Assemblies - ♦ Aufbauten

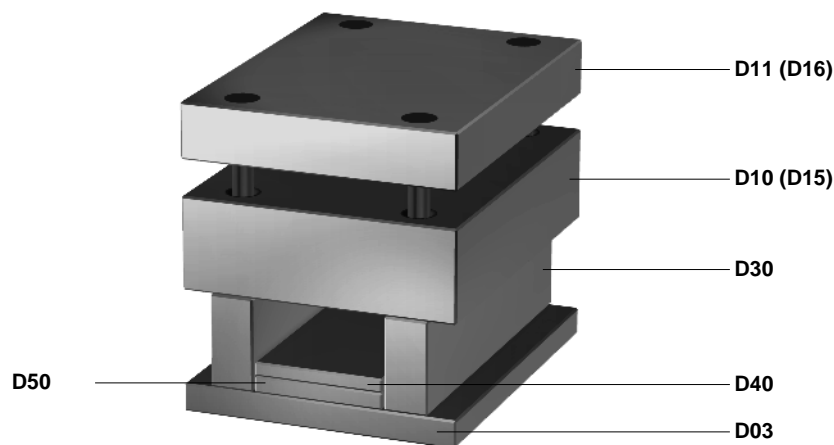
♣ Samenbouw - ♠ Assemblages

D	DB	DS
		
<p>♥ Mold kit consisting of interchangeable plates, complete with components but not assembled.</p> <p>♦ Bausatz bestehend aus austauschbaren Platten, komplett mit Formenbauteilen, aber nicht montiert.</p> <p>♣ Matrijspakket van uitwisselbaar geboorde platen, niet samengebouwd, maar met alle onderdelen separaat geleverd..</p> <p>♠ Ensemble de plaques interchangeable alésées et accessoires, moule complet mais non-assemblé.</p>	<p>♥ D-type mold base, assembled and square ground.</p> <p>♦ D-Form montiert und mit Winkelschliff.</p> <p>♣ D-type matrijshuis, samengebouwd en omtrek-geslepen.</p> <p>♠ Type D assemblé et rectifié d'équerre.</p>	<p>♥ Interchangeable plates (D 11 and D 10) with components installed and square ground.</p> <p>♦ Austauschbare Platten (D 11 und D 10) mit Formenbauteilen montiert und mit Winkelschliff.</p> <p>♣ Matrijspakket bestaande uit uitwisselbare D 11 en D 10 platen, met 4 geleide pennen en bussen, omtrek-geslepen.</p> <p>♠ Ensemble comprenant 1 plaque D 11, D 10, colonnes et douilles de guidage.</p>

Info

♥ Ordering example ♦ Bestellbeispiel

♣ Bestelvoorbeeld ♠ Exemple de commande



D 3040 DB - 96 - 106/3 126

♥ Mold bases diecasting
♦ Druckgießformen
♣ Drukgietsmatrijzen
♠ Porte-moules pour la coulée sous pression

SERIE(S)

Typ(e)

D 11 (D 16)
♥ Thickness
♦ Dicke
♣ Dikte
♠ Epaisseur

♥ Height risers D 30
♦ Höhe der Stützleisten D 30
♣ Hoogte steunlijsten D 30
♠ Hauteur blocs supports D 30

D 11 (D 16) & D 10 (D 15)
♥ Steel
♦ Stahl
♣ Staal
♠ Acier

D 10 (D 15)
♥ Thickness
♦ Dicke
♣ Dikte
♠ Epaisseur

◆ Druckgieß-Normalien - D-Platten

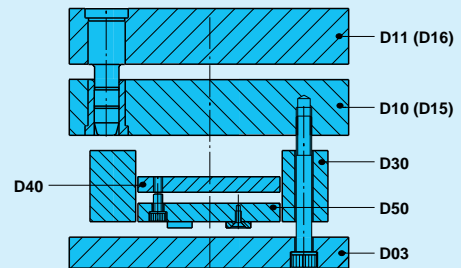
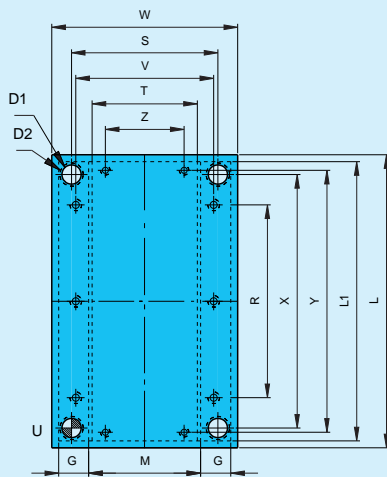
Drukgietsmatrijzen - D-platen ♣

Porte-moules pour coulée sous pression - plaques D ♠

Info

♥ Dimensions chart - ♦ Übersichtstabelle

♣Referentietabel - ♠Tableau des dimensions



SERIE(S)	W	L	X	S	R	Y	L1	M	V	Z	T	G	D 03	D11/D10 (D16/D15)	D30	D40	D50	D 1	D 2	♥Screws ♦Schrauben ▲Bouten ▲Vis	
																				♥Mold ♦Form ▲Matrijs ▲Moule	D40 D50
2525	246	246	186	186	94	168	196	124	170	100	120	46	26	46-56-66-76 88-96-106	86-106-126	16	26	24	32	M 12	M 8
2530	246	296	236	186	144	218	246	124	170	100	120	46	26			16	26	24	32	M 12	M 8
2535	246	346	286	186	194	268	296	124	170	100	120	46	26			16	26	24	32	M 12	M 8
2540	246	396	336	186	244	318	346	124	170	100	120	46	26			16	26	24	32	M 12	M 8
3030	296	296	216	216	114	218	246	154	210	130	150	56	36	56-76-96 106-126-146	86-106-126	16	26	34	42	M 12	M 8
3040	296	396	316	216	214	318	346	154	210	130	150	56	36			16	26	34	42	M 12	M 8
3050	296	496	416	216	314	418	446	154	210	130	150	56	36			16	26	34	42	M 12	M 8
3535	346	346	266	266	160	260	296	184	250	156	180	66	36	56-76-96-106 126-146-166-186	106-146-166	16	26	34	42	M 16	M 10
3540	346	396	316	266	210	310	346	184	250	156	180	66	36			16	26	34	42	M 16	M 10
3550	346	496	416	266	310	410	446	184	250	156	180	66	36			16	26	34	42	M 16	M 10
4040	396	396	296	296	186	310	346	234	296	206	230	66	36	76-96-106 126-146-166-186	106-146-166	26	36	42	50	M 16	M 10
4050	396	496	396	296	286	410	446	234	296	206	230	66	36			26	36	42	50	M 16	M 10
4060	396	596	496	296	386	510	546	234	296	206	230	66	36			26	36	42	50	M 16	M 10
4545	446	446	346	346	236	360	396	264	346	236	260	76	36	76-96-106-126 146-166-186-206	106-146-186	26	36	42	50	M 16	M 10
4550	446	496	396	346	286	410	446	264	346	236	260	76	36			26	36	42	50	M 16	M 10
4560	446	596	496	346	386	510	546	264	346	236	260	76	36			26	36	42	50	M 16	M 10
5050	496	496	376	376	256	410	446	314	396	286	310	76	46	96-106-126 146-166-186-206	106-146-186	26	36	50	60	M 20	M 12
5060	496	596	476	376	356	510	546	314	396	286	310	76	46			26	36	50	60	M 20	M 12
5080	496	796	676	376	556	710	746	314	396	286	310	76	46			26	36	50	60	M 20	M 12
5555	546	546	426	426	306	460	496	344	446	316	340	86	46	96-106-126 146-166-186-206	106-146-186	26	36	50	60	M 20	M 12
5560	546	596	476	426	356	510	546	344	446	316	340	86	46			26	36	50	60	M 20	M 12
5580	546	796	676	426	556	710	746	344	446	316	340	86	46			26	36	50	60	M 20	M 12
6060	596	596	476	476	356	510	546	374	496	346	370	96	46	96-106-126 146-166-186-206	126-146-186	26	46	50	60	M 20	M 12
6080	596	796	676	476	556	710	746	374	496	346	370	96	46			26	46	50	60	M 20	M 12
6090	596	896	776	476	226/656	810	846	374	496	346	370	96	46			26	46	50	60	M 20	M 12

♥ Mold bases diecasting - D-plates

♦ Druckgieß-Normalien - D-Platten

Drukgietsmatrijzen - D-platen ♣

Porte-moules pour coulée sous pression - plaques D ♠

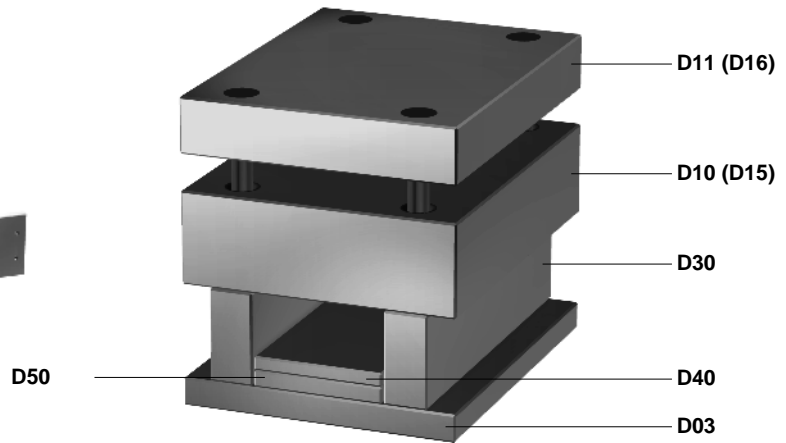
Info

♥ Interchangeable drilled D-plates

♦ Austauschbare gebohrte D-Platten

Uitwisselbaar geboorde D-platen ♣

Plaques alésées interchangeables type D ♠



♥ Interchangeable drilled plates for diecasting

♦ Austauschbar gebohrte Platten für Druckguß

♣ Uitwisselbaar geboorde platen voor drukgietsen

♠ Plaques alésées interchangeables pour la coulée sous pression

D11 3030 - 96/3

♥ Steel

♦ Stahl

♣ Staal

♠ Acier

♥ Thickness

♦ Dicke

♣ Dikte

♠ Epaisseur

Typ(e)

SERIE(S)

D11



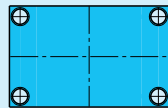
♥ Mold plate without screw holes

♦ Formplatte ohne Gewindebohrungen

♣ Matrijsplaat zonder boutgaten

♠ Plaque porte empreintes sans trous de vis

D16



(DME 5)

♥ D 11 plate with undersize bore holes and oversize thickness

♦ D 11 Platte, Bohrungen Untermaß und Dicke mit Schleifübermaß

♣ D 11 plaat, boringen ondermaat, dikte overmaat

♠ D 11 mais avec trous de guidage sous-dimensionnés et surépaisseur

D10



♥ Mold plate

♦ Formplatte

♣ Matrijsplaat

♠ Plaque porte empreintes

D15



(DME 5)

♥ D 10 with undersize bore holes and oversize thickness

♦ D 10 Platte, Bohrungen Untermaß und Dicke mit Schleifübermaß

♣ D 10 plaat, boringen ondermaat, dikte overmaat

♠ D 10 mais avec trous de guidage sous-dimensionnés et surépaisseur

D30



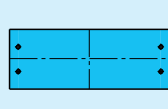
♥ Risers

♦ Stützleisten

♣ Steunlijsten

♠ Blocs supports

D40



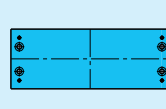
♥ Ejector retainer plate

♦ Auswerferdeckplatte

♣ Uitwerperdekplaat

♠ Contre plaque éjectrice

D50



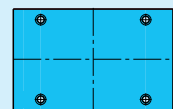
♥ Ejector plate

♦ Auswerfergrundplatte

♣ Uitwerperplaat

♠ Plaque éjectrice

D03



♥ Clamping plate

♦ Aufspannplatte

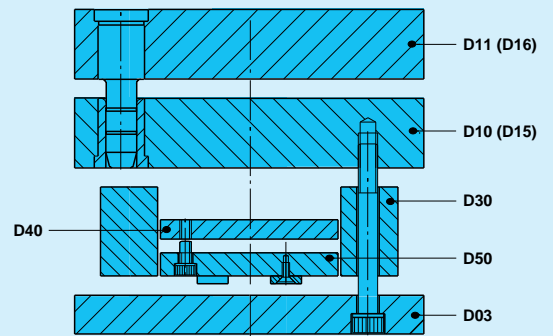
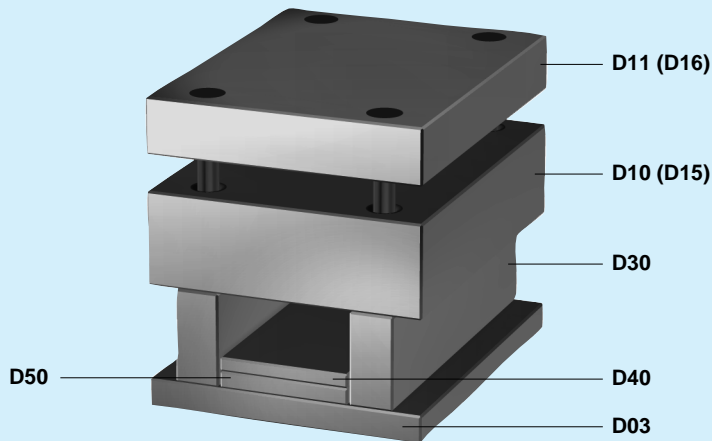
♣ Opspanplaat

♠ Semelle

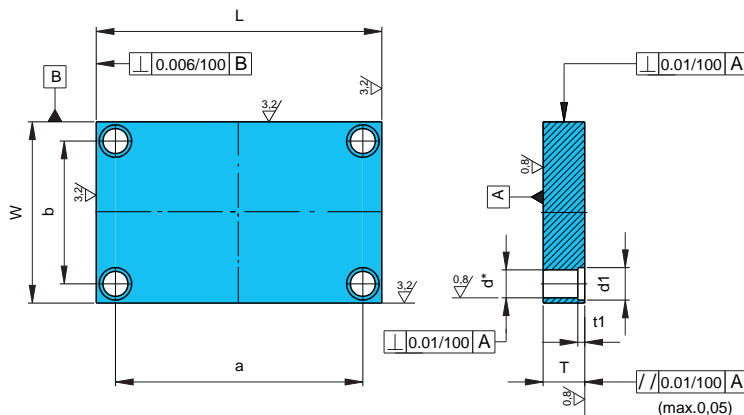
Info

♥Tolerances - ♦Toleranzen

♣Toleranties - ♠Tolérances



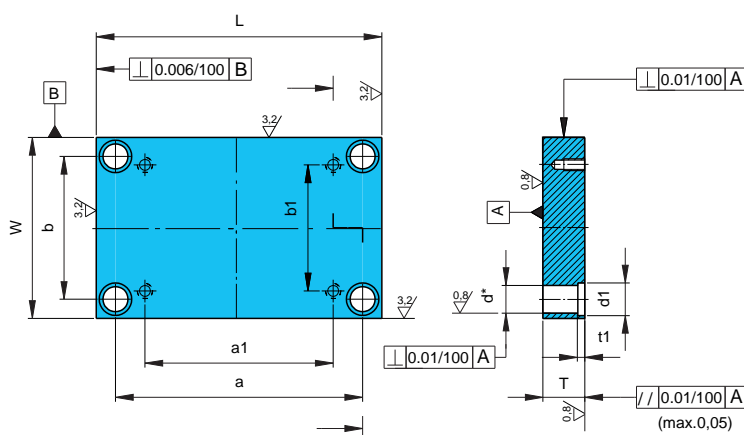
D11/D16*



*d= -0,5^{H7}

	SERIE(S)	Tol. - μm	
		D11	D16
L W	2525 - 3040	±15	±15
	3035 - 5050	±20	±20
	5060 - 6090	±25	±25
T	2525 - 6090	+50 0	+200 +400
a,b	2525 - 3040	±10	±10
	3045 - 5050	±12	±12
	5060 - 6090	±14	±14
d ^{H7}	2525 - 4560	+25 0	+25 0
	5050 - 6090	+30 0	+30 0
d1	2525 - 6090	+400 0	+400 0
t1	2525 - 6090	+300 0	+300 0

D10/D15*



*d= -0,5^{H7}

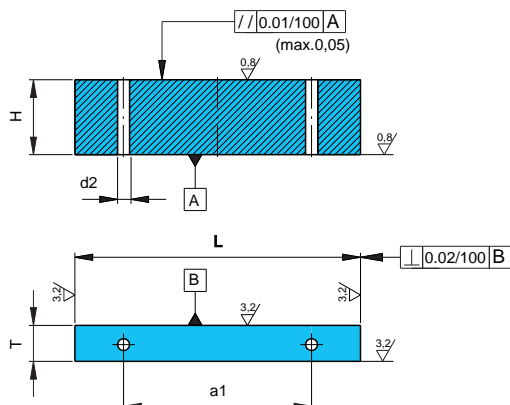
	SERIE(S)	Tol. - μm	
		D10	D15
L W	2525 - 3040	±15	±15
	3035 - 5050	±20	±20
	5060 - 6090	±25	±25
T	2525 - 6090	+50 0	+200 +400
a,b	2525 - 3040	±10	±10
	3045 - 5050	±12	±12
	5060 - 6090	±14	±14
a1, b1	2525 - 3040	±200	±200
	3035 - 6090	±300	±300
d ^{H7}	2525 - 4560	+25 0	+25 0
	5050 - 6090	+30 0	+30 0
d1	2525 - 6090	+400 0	+400 0
t1	2525 - 6090	+300 0	+300 0

Info

♥ Tolerances - ♦ Toleranzen

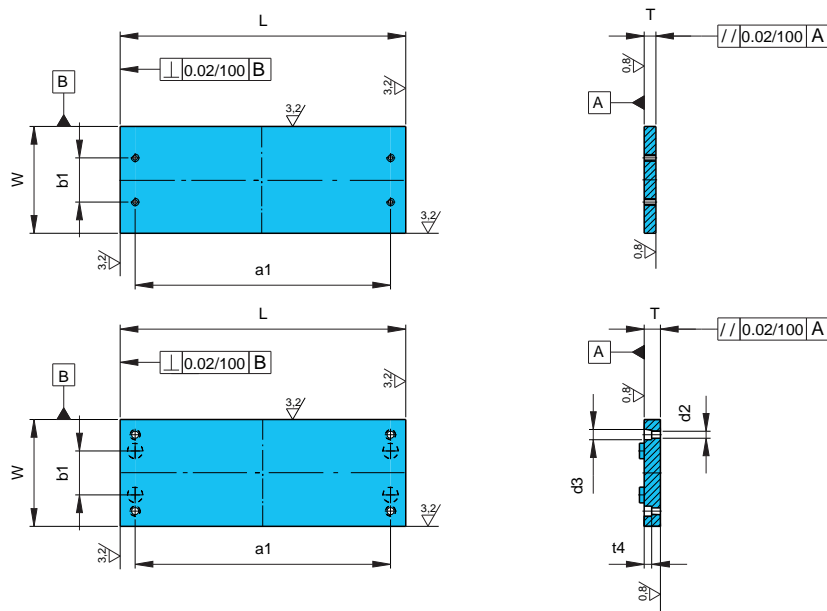
♣ Toleranties - ♠ Tolérances

D30



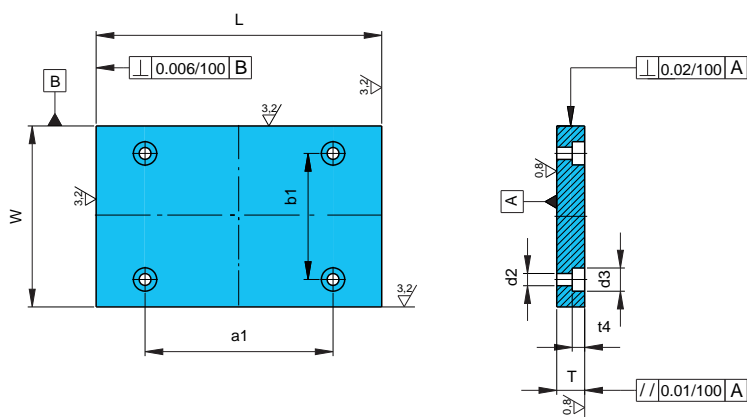
	SERIE(S)	Tol. - μm
L	2525 - 6090	-400 -800
T	2525 - 6090	-200 -800
H	2525 - 6090	+50 0
a1	2525 - 3040 3035 - 6090	± 200 ± 300
d2 ^{H13}	2525 - 3050 3535 - 4560 5050 - 6090	+220 0 +270 0 +330 0

D40/D50



	SERIE(S)	Tol. - μm
L	2525 - 6090	0 -100
W	2525 - 6090	0 -100
T	2525 - 6090	+400 0
a1/b1	2525 - 3040 3045 - 6090	± 200 ± 300
t4	2525 - 4560 5050 - 6090	+300 0 +400 0
d2 ^{H13}	2525 - 3060 3535 - 6090	+220 0 +270 0
d3 ^{H13}	2525 - 3060 5060 - 6090	+270 0 +330 0

D03



	SERIE(S)	Tol. - μm
L	2525 - 3040 3045 - 5050	+50 0 +100 0
W	5060 - 6090	+100 0
T	2525 - 6090	+50 0
a1,b1	2525 - 3040 3045 - 6090	± 200 ± 300
t4	2525 - 6090	+400 0
d2 ^{H13}	2525 - 3060 3535 - 6090	+220 0 +270 0
d3 ^{H13}	2525 - 3060 5060 - 6090	+270 0 +330 0

Info

♥ Steel - ♦ Stahl

♣ Staal - ♠ Acier

♥ Steel specification
♦ Stahlspezifizierung
♣ Staalspecificaties
♠ Choix des aciers

♥ Analysis & tensile strength
♦ Analyse & Festigkeit
♣ Analyse & trekvastheid
♠ Analyse & résistance

♥ Description
♦ Beschreibung
♣ Beschrijving
♠ Description

D-M-E 1

C 45 W

1.1730

ca. 640 MPa (N/mm²)

C = 0,45
Si = 0,30
Mn = 0,70

♥ Non alloy tool steel. Not to be hardened and easy to machine. For molds and simple structural components.
♦ Unlegierter Werkzeugstahl. Anwendung: nicht gehärtete Teile für den Formen-, Werkzeug- und Vorrichtungsbau.
♣ Ongelegeerd gereedschapsstaal. Spanningsvrij gegloeid. Goed bewerkbaar. Hoge taaiheid. Voor niet geharde onderdelen voor matrijs-, gereedschaps- en kaliberbouw.
♠ Acier non allié pour outillage. Facile à usiner. Bonne résistance. Pour éléments non-trempés pour moules et fixations d'outillages.

D-M-E 3

40 Cr Mn Mo S 8 6

1.2312

ca. 1050 MPa (N/mm²)

C = 0,40
Mn = 1,50
Mo = 0,20
Si = 0,40
Cr = 1,90
S = 0,07

♥ Low alloy pre-heat treated tool steel. Excellent machinability. No further hardening required. Can be nitrided.
♦ Vorvergüteter, legierter Werkzeugstahl. Gute Bearbeitbarkeit durch Schwefelzusatz. Nitrierbar. Anwendung: Formplatten für Druck- und Spritzgießformen. Form- und Werkzeugteile.
♣ Veredeld laaggelegeerd gereedschapsstaal. Uitstekend bewerkbaar. Nitreerbaar. Geschikt voor vormplaten voor pers- en spuitgietmatrijzen en voor matrijs- en gereedschapsonderdelen.
♠ Acier allié prétrempé, ne nécessite pas de trempe après usinage, donc aucune déformation avec tenue de dureté à température élevée. Usinage exceptionnel. Peut être chromé et nitruré. Pour plaques empreintes pour moules matières plastiques, inserts pour injection, compression et outils de haute pression.

D-M-E 5

X 40 Cr Mo V 5 1

1.2344

ca. 750 MPa (N/mm²)

C = 0,40
Mn = 0,40
Mo = 1,30
Si = 1,00
Cr = 5,20
V = 1,00

♥ Medium alloy hot work tool steel. Resistant to thermal shock and thermal fatigue. Can be heat-treated. For molds for injection molding and diecasting.
♦ Legierter Warmarbeitsstahl. Hohe Warmfestigkeit, Zähigkeit, Druck- und Verschleißfestigkeit. Temperaturwechselbeständigkeit. Wärmeleitfähigkeit. Anwendung: Formplatten und Einsätze für Druckgieß- und Kunststoffverarbeitung.
♣ Gelegeerd warmmatrijzenstaal. Hoge warmtebestendigheid, taaiheid, druk- en slijtvastheid. Geleverd in ontlaten toestand. Nitreerbaar. Geschikt voor vormplaten en inzetstukken voor spuitgiet- en drukgietmatrijzen.
♠ Acier allié à chaud. Résistance excellente à températures élevées, haute ténacité. Livré à l'état non trempé. Peut être trempé et nitruré. Pour plaques empreintes et inserts pour l'injection et la coulée sous pression.

D 25

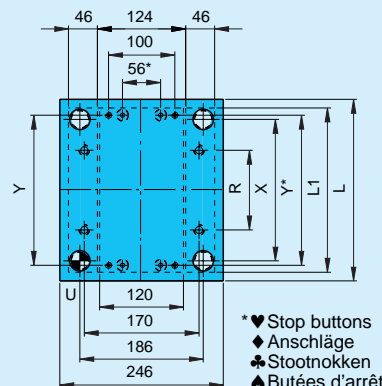
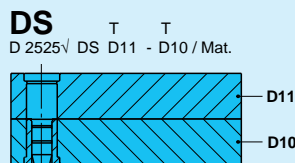
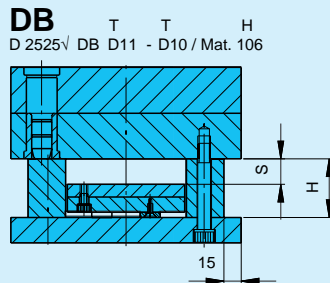
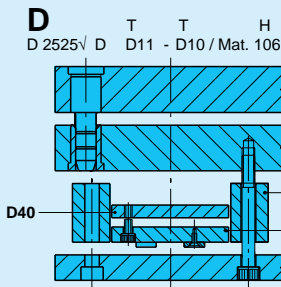
D 2525√ (246 x 246 mm)

D 2530√ (246 x 296 mm)

D 2535√ (246 x 346 mm)

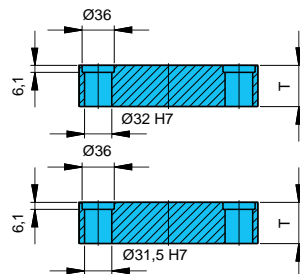
D 2540√ (246 x 396 mm)

♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base



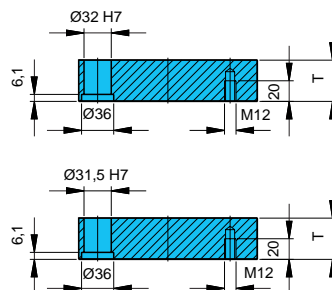
D25	L	L1	Y/Y*	X	R	
2525	246	196	168	186	94	4 x M12
2530	296	246	218	236	144	4 x M12
2535	346	296	268	286	194	4 x M12
2540	396	346	318	336	244	4 x M12

♥ Interchangeable drilled D-plates - ♦ Austauschbar gebohrte D-Platten - ♣ Uitwisselbaar geboorde D-platen - ♠ Plaques alésées interchangeables type D



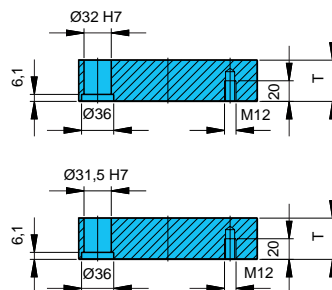
D11

REF.	Mat.	T						
		46	56	66	76	86	96	106
D11-2525-T/Mat.	1=1730							
D11-2530-T/Mat.	3=2312							
D11-2535-T/Mat.	5=2344							
D11-2540-T/Mat.								



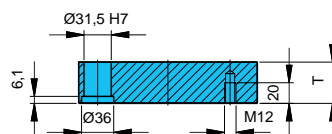
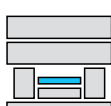
D16

REF.	Mat.	T						
		46	56	66	76	86	96	106
D16-2525-T/Mat.	5=2344							
D16-2530-T/Mat.								
D16-2535-T/Mat.								
D16-2540-T/Mat.								



D10

REF.	Mat.	T						
		46	56	66	76	86	96	106
D10-2525-T/Mat.	1=1730							
D10-2530-T/Mat.	3=2312							
D10-2535-T/Mat.	5=2344							
D10-2540-T/Mat.								



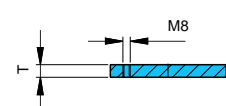
D15

REF.	Mat.	T						
		46	56	66	76	86	96	106
D15-2525-T/Mat.	5=2344							
D15-2530-T/Mat.								
D15-2535-T/Mat.								
D15-2540-T/Mat.								



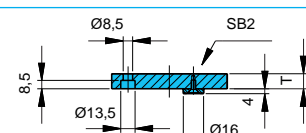
D30

REF.	Mat.	H			S		
		86	106	126	40	60	80
D30-H-2525/1	1730						
D30-H-2530/1							
D30-H-2535/1							
D30-H-2540/1							



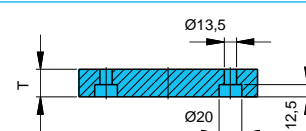
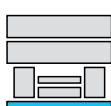
D40

REF.	Mat.	T						
D40-16-2525/1	1730							
D40-16-2530/1								
D40-16-2535/1								
D40-16-2540/1								



D50

REF.	Mat.	T						
D50-26-2525/1	1730							
D50-26-2530/1								
D50-26-2535/1								
D50-26-2540/1								



D03

REF.	Mat.	T						
D03-2525-26/1	1730							
D03-2530-26/1								
D03-2535-26/1								
D03-2540-26/1								

♥ Mold bases diecasting - D-plates

♦ Druckgieß-Normalien - D-Platten

Drukgietsmatrijzen - D-platen ♣

Porte-moules pour coulée sous pression - plaques D ♠

D 25

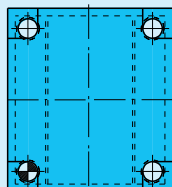
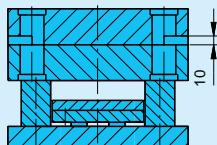
D 2525√ (246 x 246 mm)

D 2530√ (246 x 296 mm)

D 2535√ (246 x 346 mm)

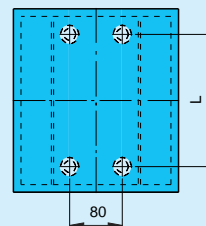
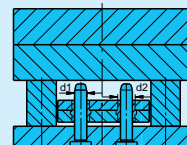
D 2540√ (246 x 396 mm)

♥ Lever slots
♦ Knippecken
♣ Koevoetuitsparingen
♠ Encoches de bridage



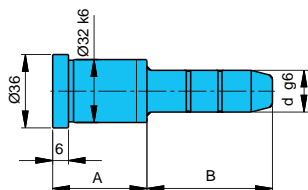
D25	L	d1	d2
2525	116	20	28
2530	166	20	28
2535	216	20	28
2540	266	20	28

♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerfplaten
♠ Guidage de la batterie d'éjection



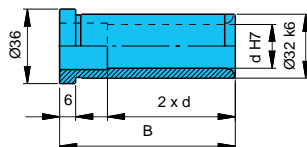
√ ♥ Select a series
♦ Wählen Sie eine Serie aus
♣ Selecteer een serie
♠ Sélectionner une série

FSN



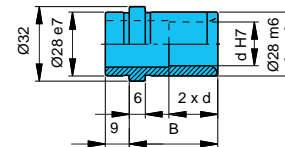
REF. d	A - B	REF. d	A - B
FSN 24- 46-	46	FSN 23- 46-	46
- 66		- 66	
- 86		- 86	
-106		-106	
FSN 24- 56-	46	FSN 23- 56-	46
- 56		- 56	
- 76		- 76	
- 96		- 96	
FSN 24- 66-	66	FSN 23- 66-	66
- 86		- 86	
-106		-106	
FSN 24- 76-	56	FSN 23- 76-	56
- 76		- 76	
- 96		- 96	
FSN 24- 86-	66	FSN 23- 86-	66
- 86		- 86	
-106		-106	
FSN 24- 96-	56	FSN 23- 96-	56
- 76		- 76	
- 96		- 96	
FSN 24-106-	56	FSN 23-106-	56
- 76		- 76	
- 86		- 86	

FBN



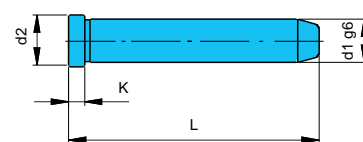
REF. d	B	REF. d	B
FBN 24- 46		FBN 23- 46	
- 56		- 56	
- 66		- 66	
- 76		- 76	
- 86		- 86	
- 96		- 96	
-106		-106	

FBC



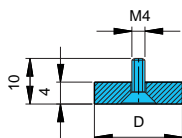
REF. d	B
FBC 20- 26	

APD



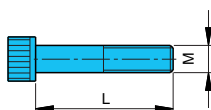
REF. d1 L	d2	K
APD 20-100	24	8
-120		
-140		
-160		

SB



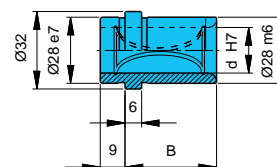
REF.	D
SB2	16

M



REF.	L
M	8 x 30
M	12 x 120
	x 140
	x 160

GEB



REF.	B
GEB	20-26

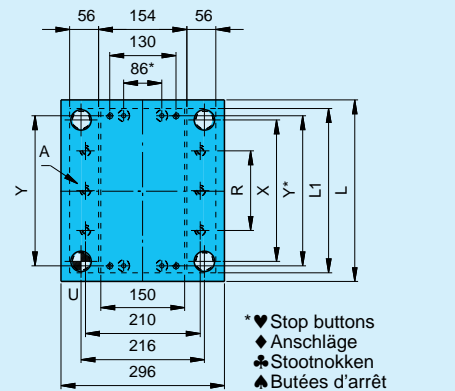
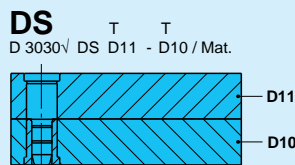
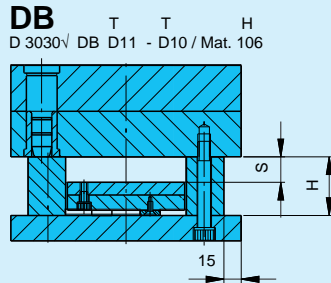
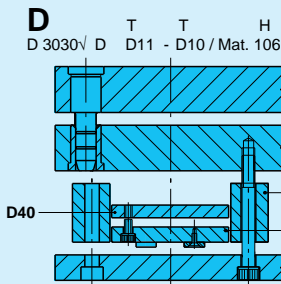
D 30

D 3030√ (296 x 296 mm)

D 3040√ (296 x 396 mm)

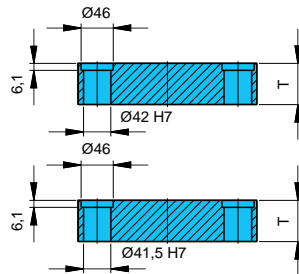
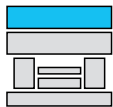
D 3050√ (296 x 496 mm)

♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base



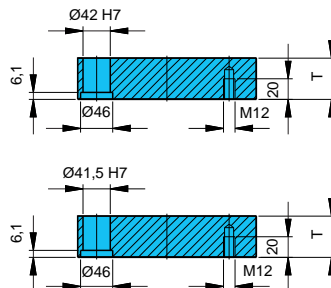
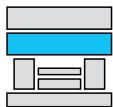
D30	L	L1	Y/Y*	X	R		A
3030	296	246	218	216	114	4 x M12	
3040	396	346	318	316	214	4 x M12	
3050	496	446	418	416	314	6 x M12	L ≥ 496

♥ Interchangeable drilled D-plates - ♦ Austauschbar gebohrte D-Platten - ♣ Uitwisselbaar geboorde D-platen - ♠ Plaques alésées interchangeables type D



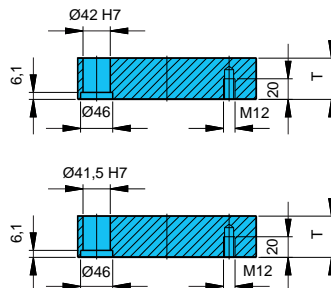
D11

REF.	Mat.	T					
		56	76	96	106	126	146
D11-3030-T/Mat.	1=1730						
D11-3040-T/Mat.	3=2312						
D11-3050-T/Mat.	5=2344						



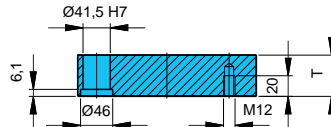
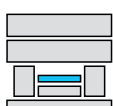
D16

REF.	Mat.	T					
		56	76	96	106	126	146
D16-3030-T/Mat.	5=2344						
D16-3040-T/Mat.							
D16-3050-T/Mat.							



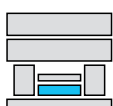
D10

REF.	Mat.	T					
		56	76	96	106	126	146
D10-3030-T/Mat.	1=1730						
D10-3040-T/Mat.	3=2312						
D10-3050-T/Mat.	5=2344						



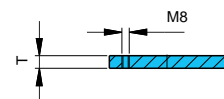
D15

REF.	Mat.	T					
		56	76	96	106	126	146
D15-3030-T/Mat.	5=2344						
D15-3040-T/Mat.							
D15-3050-T/Mat.							



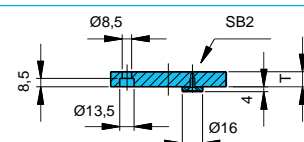
D30

REF.	Mat.	H		
		86	106	126
D30-H-3030/1	1730			
D30-H-3040/1				
D30-H-3050/1				
		S		
		40	60	80



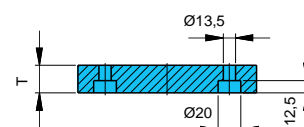
D40

REF.	Mat.	T
D40-16-3030/1	1730	
D40-16-3040/1		
D40-16-3050/1		



D50

REF.	Mat.	T
D50-26-3030/1	1730	
D50-26-3040/1		
D50-26-3050/1		



D03

REF.	Mat.	T
D03-3030-36/1	1730	
D03-3040-36/1		
D03-3050-36/1		

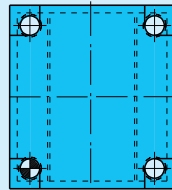
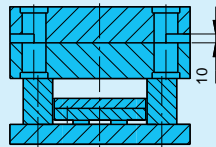
◆ Druckgieß-Normalien - D-Platten

ée sous pression - plaques D ♠

D 30

D 3040✓ (296 x 396 mm)

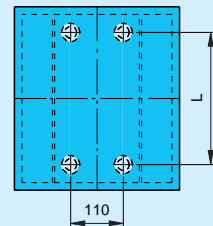
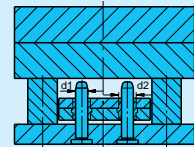
- ♥ Lever slots
- ♦ Knippecken
- ♣ Koevoetuitsparingen
- ♠ Encoches de bridge



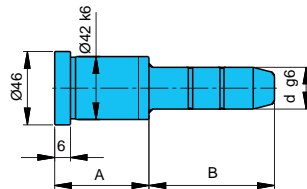
D25	L	d1	d2
3030	166	20	28
3040	266	20	28
3050	360	20	28

- ♥ Select a series
- ♦ Wählen Sie eine Serie aus
- ♣ Selecteer een serie
- ♠ Sélectionner une série

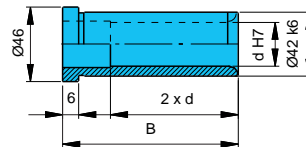
- ♥ Guided ejector plates
- ♦ Auswerferplattenführung
- ♣ Geleiding van uitwerpplatten
- ♠ Guidage de la batterie d'éjection



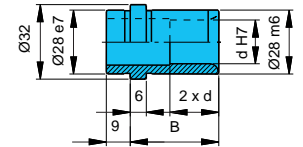
FSN



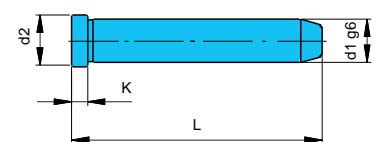
REF. d	A - B	REF. d	A - B	
FSN 34- 56- 56		FSN 33- 56- 56		
- 66		- 66		
- 96		- 96		
-126		-126		
FSN 34- 76- 66		FSN 33- 76- 66		
-106		-106		
-146		-146		
FSN 34- 96- 66		FSN 33- 96- 66		
- 96		- 96		
-146		-146		
FSN 34-106- 56		FSN 33-106- 56		
- 76		- 76		
-106		-106		
-146		-146		
FSN 34-126- 56		FSN 33-126- 56		
- 86		- 86		
-126		-126		
-146		-146		
FSN 34-146- 56		FSN 33-146- 56		
- 86		- 86		
-106		-106		

FBN

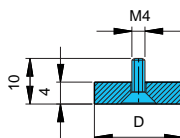
REF. d B	REF. d B
FBN 34- 56	FBN 33- 56
- 76	- 76
- 96	- 96
-106	-106
-126	-126
-146	-146

FBC[illegible]

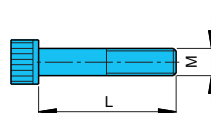
APD



REF. d1 L	d2	K
APD 20-110	24	8
-120		
-140		
-160		
-180		

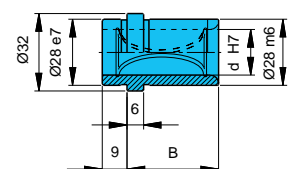
SB[illegible]

M



REF.	L
M 8 x 30	
M 12 x 130	
x150	
x170	

GEB

[illegible]

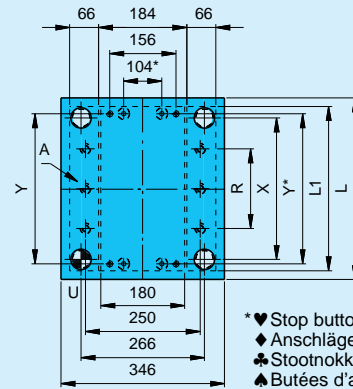
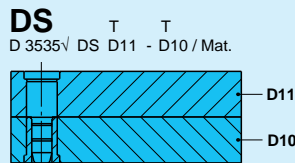
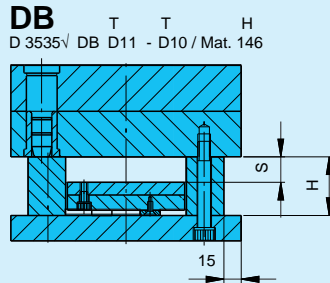
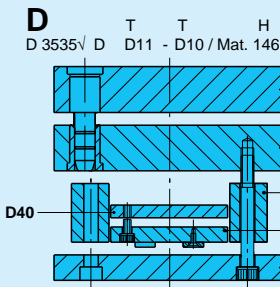
D 35

D 3535√ (346 x 346 mm)

D 3540√ (346 x 396 mm)

D 3550√ (346 x 496 mm)

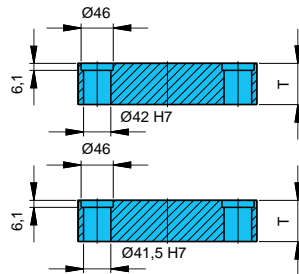
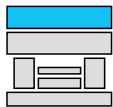
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base



*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

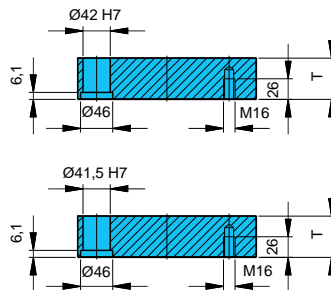
D35	L	L1	Y/Y*	X	R		A
3535	346	296	260	266	160	4 x M16	
3540	396	346	310	316	210	4 x M16	
3550	496	446	410	416	310	6 x M16	L ≥ 496

♥ Interchangeable drilled D-plates - ♦ Austauschbar gebohrte D-Platten - ♣ Uitwisselbaar geboorde D-platen - ♠ Plaques alésées interchangeables type D



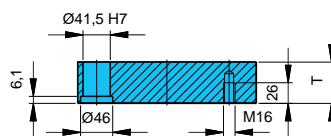
D11

REF.	Mat.	T							
		56	76	96	106	126	146	166	186
D11-3535-T/Mat.	1=1730								
D11-3540-T/Mat.	3=2312								
D11-3550-T/Mat.	5=2344								



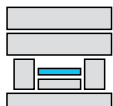
D16

REF.	Mat.	T							
		56	76	96	106	126	146	166	186
D16-3535-T/Mat.	5=2344								
D16-3540-T/Mat.									
D16-3550-T/Mat.									



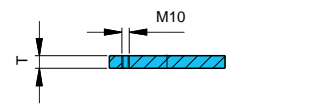
D10

REF.	Mat.	T							
		56	76	96	106	126	146	166	186
D10-3535-T/Mat.	1=1730								
D10-3540-T/Mat.	3=2312								
D10-3550-T/Mat.	5=2344								



D15

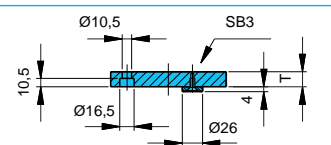
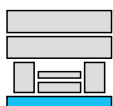
REF.	Mat.	T							
		56	76	96	106	126	146	166	186
D15-3535-T/Mat.	5=2344								
D15-3540-T/Mat.									
D15-3550-T/Mat.									



D30

REF.	Mat.	H		
		106	146	166
D30-H-3535/1	1730			
D30-H-3540/1				
D30-H-3550/1				

	S		
	60	100	120



D40

REF.	Mat.	T
D40-16-3535/1	1730	
D40-16-3540/1		
D40-16-3550/1		

◆ Druckgieß-Normalien - D-Platten

ée sous pression - plaques D ♠

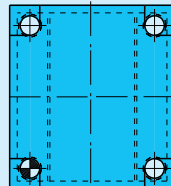
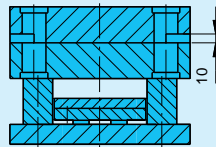
D 35

D 3535√ (346 x 346 mm)

D 3540✓ (346 x 396 mm)

D 3550✓ (346 x 496 mm)

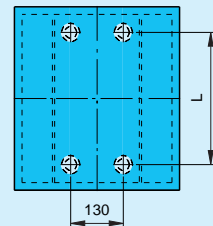
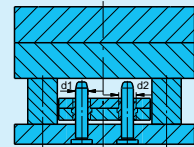
- ♥ Lever slots
- ♦ Knippecken
- ♣ Koevoetuitsparingen
- ♠ Encoches de bridge



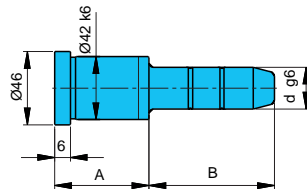
D35	L	d1	d2
3535	206	24	32
3540	256	24	32
3550	356	24	32

- ♥ Select a series
- ♦ Wählen Sie eine Serie aus
- ♣ Selecteer een serie
- ♠ Sélectionner une série

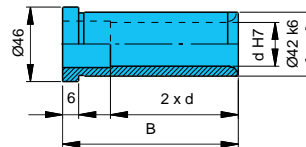
- ♥ Guided ejector plates
- ♦ Auswerferplattenführung
- ♣ Geleiding van uitwerpplatten
- ♠ Guidage de la batterie d'éjection



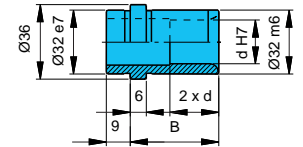
FSN



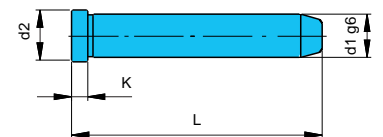
REF. d	A - B	REF. d	A - B	
FSN 34-	56- 56	FSN 33-	56- 56	
	- 66		- 66	
	- 96		- 96	
	-126		-126	
FSN 34-	76- 66	FSN 33-	76- 66	
	-106		-106	
	-146		-146	
FSN 34-	96- 66	FSN 33-	96- 66	
	- 96		- 96	
	-146		-146	
FSN 34-106-	56	FSN 33-106-	56	
	- 76		- 76	
	-106		-106	
	-146		-146	
FSN 34-126-	56	FSN 33-126-	56	
	- 86		- 86	
	-126		-126	
	-146		-146	
FSN 34-146-	56	FSN 33-146-	56	
	- 86		- 86	
	-106		-106	
FSN 34-166-166		FSN 33-166-166		
FSN 34-186-186		FSN 33-186-186		

FBN

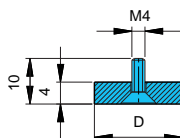
REF. d	B	REF. d	B
FBN 34-	56	FBN 33-	56
-	76	-	76
-	96	-	96
-	106	-	106
-	126	-	126
-	146	-	146
-	166	-	166
-	186	-	186

FBC[illegible]

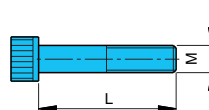
APD



REF. d1 L	d2	K
APD 24-110	28	15
-120		
-140		
-160		
-200		
-220		

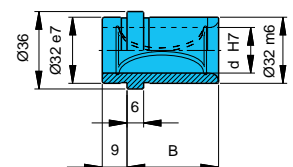
SB[illegible]

M



REF.	L
M 10 x 30	
M 16 x 150	
x 190	
x 210	

GEB

[illegible]

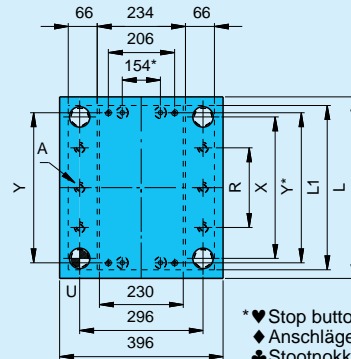
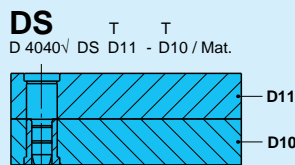
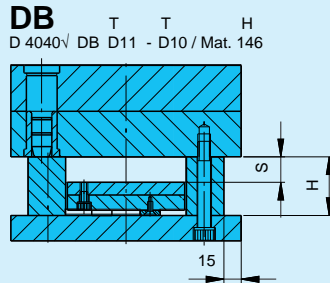
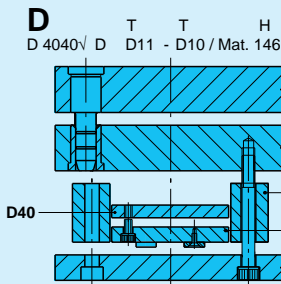
D 40

D 4040√ (396 x 396 mm)

D 4050√ (396 x 496 mm)

D 4060√ (396 x 596 mm)

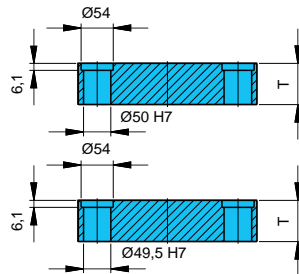
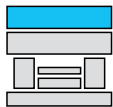
♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base



*♥ Stop buttons
♦ Anschläge
♣ Stootnokken
♠ Butées d'arrêt

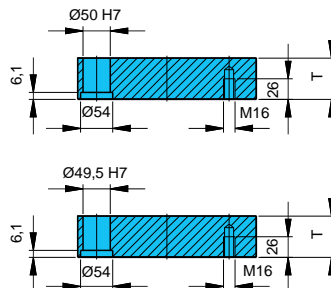
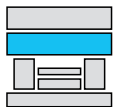
D40	L	L1	Y/Y*	X	R		A
4040	396	346	310	296	186	4 x M16	
4050	496	446	410	396	286	6 x M16	L ≥ 496
4060	596	546	510	496	386	6 x M16	L ≥ 496

♥ Interchangeable drilled D-plates - ♦ Austauschbar gebohrte D-Platten - ♣ Uitwisselbaar geboorde D-platen - ♠ Plaques alésées interchangeables type D



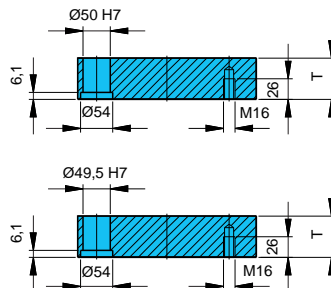
D11

REF.	Mat.	T						
		76	96	106	126	146	166	186
D11-4040-T/Mat.	1=1730							
D11-4050-T/Mat.	3=2312							
D11-4060-T/Mat.	5=2344							



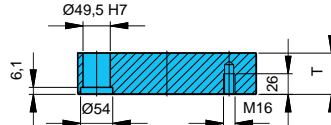
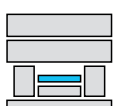
D16

REF.	Mat.	T						
		76	96	106	126	146	166	186
D16-4040-T/Mat.	5=2344							
D16-4050-T/Mat.								
D16-4060-T/Mat.								



D10

REF.	Mat.	T						
		76	96	106	126	146	166	186
D10-4040-T/Mat.	1=1730							
D10-4050-T/Mat.	3=2312							
D10-4060-T/Mat.	5=2344							



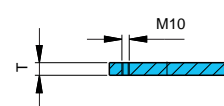
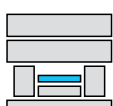
D15

REF.	Mat.	T						
		76	96	106	126	146	166	186
D15-4040-T/Mat.	5=2344							
D15-4050-T/Mat.								
D15-4060-T/Mat.								



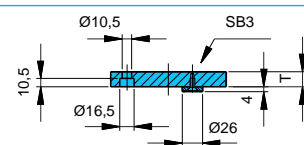
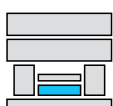
D30

REF.	Mat.	H		
		106	146	166
D30-H-4040/1	1730			
D30-H-4050/1				
D30-H-4060/1				
		S		
		40	80	100



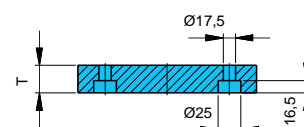
D40

REF.	Mat.	T
D40-26-4040/1	1730	
D40-26-4050/1		
D40-26-4060/1		



D50

REF.	Mat.	T
D50-36-4040/1	1730	
D50-36-4050/1		
D50-36-4060/1		



D03

REF.	Mat.	T
D03-4040-36/1	1730	
D03-4050-36/1		
D03-4060-36/1		

♥ Mold bases diecasting - D-plates

♦ Druckgieß-Normalien - D-Platten

Drukgietsmatrijzen - D-platen ♣

Porte-moules pour coulée sous pression - plaques D ♠

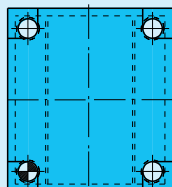
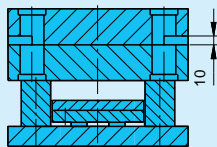
D 40

D 4040√ (396 x 396 mm)

D 4050√ (396 x 496 mm)

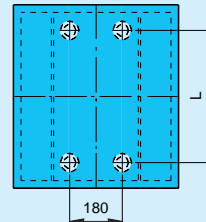
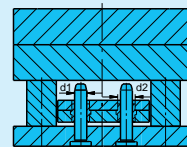
D 4060√ (396 x 596 mm)

♥ Lever slots
♦ Knippeken
♣ Koevoetuitsparingen
♠ Encoches de bridage



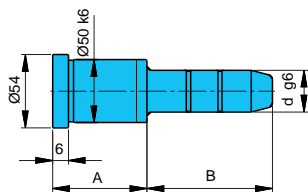
D40	L	d1	d2
4040	251	24	32
4050	351	24	32
4060	451	24	32

♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerplaten
♠ Guidage de la batterie d'éjection



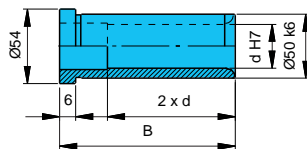
√ ♥ Select a series
♦ Wählen Sie eine Serie aus
♣ Selecteer een serie
♠ Sélectionner une série

FSN



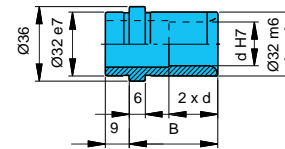
REF. d	A - B	REF. d	A - B
FSN 42- 76- 76		FSN 41- 76- 76	
- 96		- 96	
-146		-146	
FSN 42- 96- 76		FSN 41- 96- 76	
- 96		- 96	
-146		-146	
FSN 42-106- 76		FSN 41-106- 76	
- 96		- 96	
-146		-146	
FSN 42-126- 86		FSN 41-126- 86	
-146		-146	
FSN 42-146- 76		FSN 41-146- 76	
- 96		- 96	
-146		-146	
FSN 42-166-166		FSN 41-166-166	
FSN 42-186-186		FSN 41-186-186	

FBN



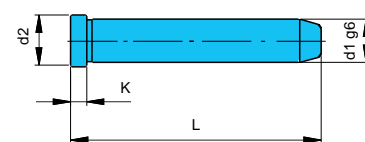
REF. d	B	REF. d	B
FBN 42- 76		FBN 41- 76	
- 96		- 96	
-106		-106	
-126		-126	
-146		-146	
-166		-166	
-186		-186	

FBC



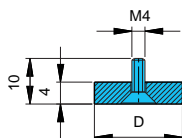
REF. d	B
FBC 24- 36	

APD



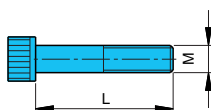
REF. d1	L	d2	K
APD 24-140		28	15
-160			
-180			
-200			
-220			

SB



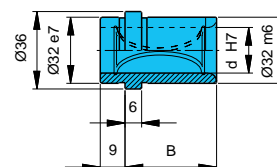
REF.	D
SB3	26

M



REF.	L
M 10 x 50	
M 16 x 150	
x 190	
x 210	

GEB



REF.	B
GEB 24-36	

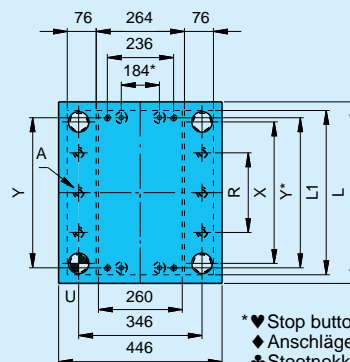
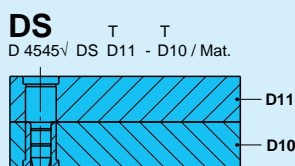
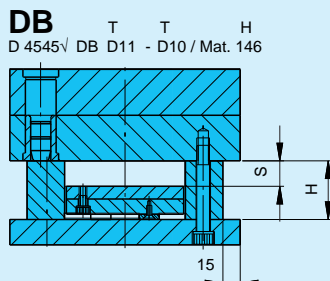
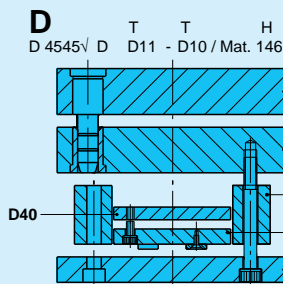
D 45

D 4545√ (446 x 446 mm)

D 4550√ (446 x 496 mm)

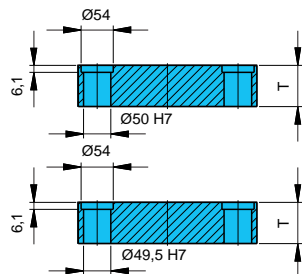
D 4560✓ (446 x 596 mm)

♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base



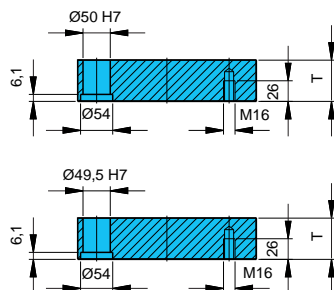
D45	L	L1	Y/Y*	X	R		A
4545	446	396	360	346	236	4 x M16	
4550	496	446	410	396	286	6 x M16	L ≥ 496
4560	596	546	510	496	386	6 x M16	L ≥ 496

♥ Interchangeable drilled D-plates - ♦ Austauschbar gebohrte D-Platten - ♣ Uitwisselbaar geboorde D-platen - ♠ Plaques alésées interchangeables type D



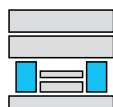
D11

REF.	Mat.	T							
		76	96	106	126	146	166	186	206
D11-4545-T/Mat.	1=1730								
D11-4550-T/Mat.	3=2312								
D11-4560-T/Mat.	5=2344								



D16

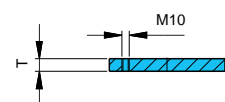
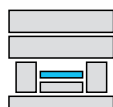
REF.	Mat.	T							
		76	96	106	126	146	166	186	206
D16-4545-T/Mat.	5=2344								
D16-4550-T/Mat.									
D16-4560-T/Mat.									



D30

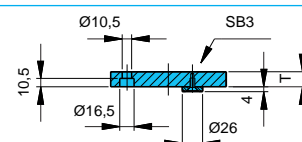
REF.	Mat.	T							
D15-4545-T/Mat.	5=2344	76	96	106	126	146	166	186	206
D15-4550-T/Mat.									
D15-4560-T/Mat.									

REF.	Mat.	H		
D30-H-4545/1	1730	106	146	186
D30-H-4550/1				
D30-H-4560/1				
		S		
		40	80	120



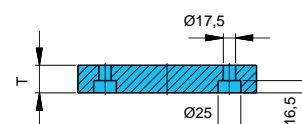
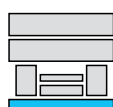
D40

REF.		
T	Mat.	
D40-26-4545/1	1730	
D40-26-4550/1		
D40-26-4560/1		



D50

REF.		
T	Mat.	
D50-36-4545/1	1730	
D50-36-4550/1		
D50-36-4560/1		



D03

REF.			
	T	Mat.	
D03-4545-36/1			
D03-4550-36/1		1730	
D03-4560-36/1			

◆ Druckgieß-Normalien - D-Platten

ée sous pression - plaques D ♠

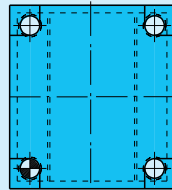
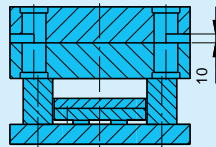
D 45

D 4545√ (446 x 446 mm)

D 4550✓ (446 x 496 mm)

D 4560✓ (446 x 596 mm)

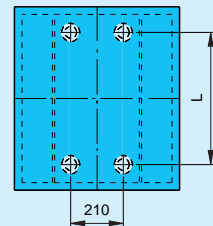
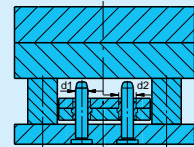
- ♥ Lever slots
- ♦ Knippecken
- ♣ Koevoetuitsparingen
- ♠ Encoches de bridge



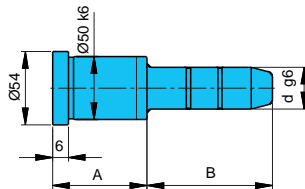
D45	L	d1	d2
4545	296	24	32
4550	346	24	32
4560	446	24	32

- ♥ Select a series
- ♦ Wählen Sie eine Serie aus
- ♣ Selecteer een serie
- ♠ Sélectionner une série

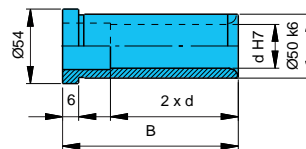
- ♥ Guided ejector plates
- ♦ Auswerferplattenführung
- ♣ Geleiding van uitwerpplatten
- ♠ Guidage de la batterie d'éjection



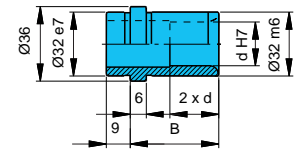
FSN



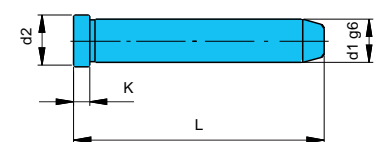
REF. d	A - B	REF. d	A - B
FSN 42- 76- 76		FSN 41- 76- 76	
- 96		- 96	
-146		-146	
FSN 42- 96- 76		FSN 41- 96- 76	
- 96		- 96	
-146		-146	
FSN 42-106- 76		FSN 41-106- 76	
- 96		- 96	
-146		-146	
FSN 42-126- 86		FSN 41-126- 86	
-146		-146	
FSN 42-146- 76		FSN 41-146- 76	
- 96		- 96	
-146		-146	
FSN 42-166-166		FSN 41-166-166	
FSN 42-186-186		FSN 41-186-186	

FBN

REF. d	B	REF. d	B
FBN 42-	76	FBN 41-	76
-	96	-	96
-	106	-	106
-	126	-	126
-	146	-	146
-	166	-	166
-	186	-	186

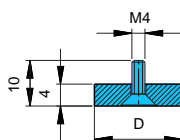
FBC[illegible]

APD

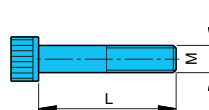


REF. d1 L	d2	K
APD 24-140	28	15
-160		
-200		
-210		
-220		

SB

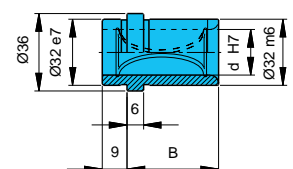
[illegible]

M



REF.	L
M 10 x 50	
M 16 x 160	
x 200	
x 240	

GEB

[illegible]

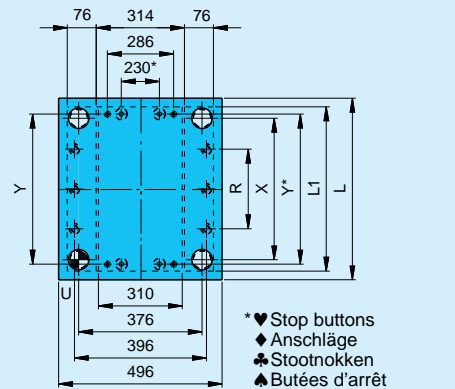
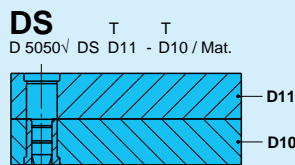
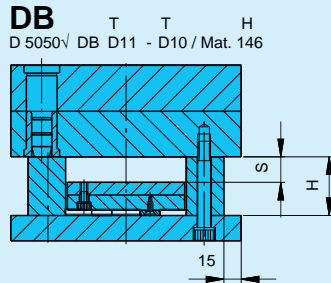
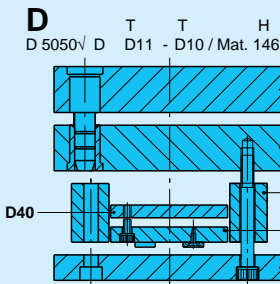
D 50

D 5050√ (496 x 496 mm)

D 5060√ (496 x 596 mm)

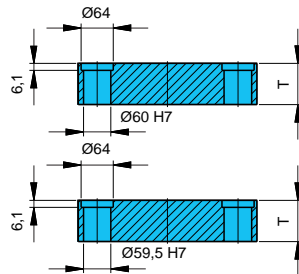
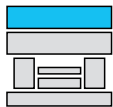
D 5080√ (496 x 796 mm)

♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base



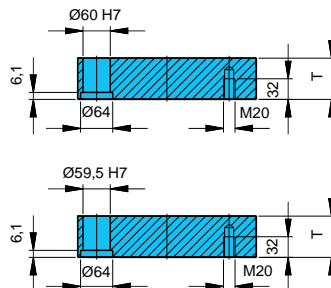
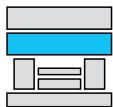
D50	L	L1	Y/Y*	X	R	
5050	496	446	410	376	256	6 x M20
5060	596	546	510	476	356	6 x M20
5080	796	746	710	676	556	6 x M20

♥ Interchangeable drilled D-plates - ♦ Austauschbar gebohrte D-Platten - ♣ Uitwisselbaar geboorde D-platen - ♠ Plaques alésées interchangeables type D



D11

REF.	Mat.	T						
		96	106	126	146	166	186	206
D11-5050-T/Mat.	1=1730							
D11-5060-T/Mat.	3=2312							
D11-5080-T/Mat.	5=2344							



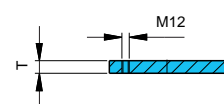
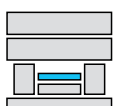
D10

REF.	Mat.	T						
		96	106	126	146	166	186	206
D10-5050-T/Mat.	1=1730							
D10-5060-T/Mat.	3=2312							
D10-5080-T/Mat.	5=2344							



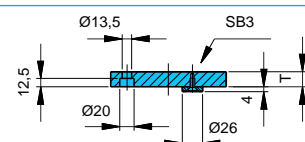
D15

REF.	Mat.	T						
		96	106	126	146	166	186	206
D15-5050-T/Mat.	1=1730							
D15-5060-T/Mat.	3=2312							
D15-5080-T/Mat.	5=2344							



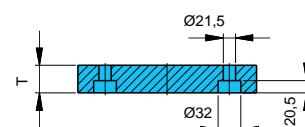
D30

REF.	Mat.	H		
		106	146	186
D30-H-5050/1	1730			
D30-H-5060/1				
D30-H-5080/1				
		S		
		40	80	120



D40

REF.	Mat.	T
D40-26-5050/1	1730	
D40-26-5060/1		
D40-26-5080/1		



D50

REF.	Mat.	T
D50-36-5050/1	1730	
D50-36-5060/1		
D50-36-5080/1		

D03

REF.	Mat.	T
D03-5050-46/1	1730	
D03-5060-46/1		
D03-5080-46/1		

D 50

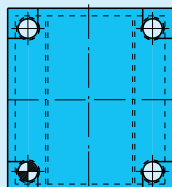
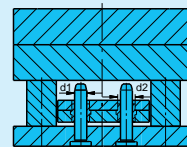
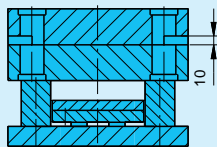
D 5050√ (496 x 496 mm)

D 5060√ (496 x 596 mm)

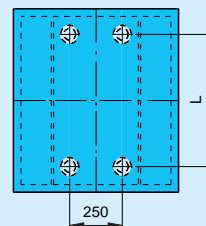
D 5080√ (496 x 796 mm)

♥ Lever slots
◆ Knippecken
♣ Koevoetuitsparingen
♠ Encoches de bridage

♥ Guided ejector plates
◆ Auswerferplattenführung
♣ Geleiding van uitwerpplatten
♠ Guidage de la batterie d'éjection

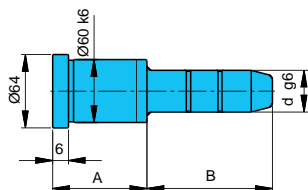


D50	L	d1	d2
5050	336	34	42
5060	436	34	42
5080	636	34	42



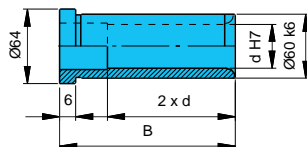
√ ♥ Select a series
◆ Wählen Sie eine Serie aus
♣ Selecteer een serie
♠ Sélectionner une série

FSN



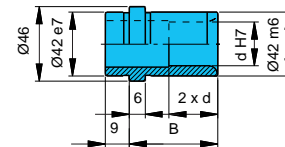
REF. d	A - B	REF. d	A - B
FSN 50- 96- 96		FSN 49- 96- 96	
-126		-126	
-186		-186	
FSN 50-106- 96		FSN 49-106- 96	
-126		-126	
-186		-186	
FSN 50-126- 96		FSN 49-126- 96	
-146		-146	
FSN 50-146-106		FSN 49-146-106	
-146		-146	
FSN 50-166-166		FSN 49-166-166	
FSN 50-186-186		FSN 49-186-186	
FSN 50-206-206		FSN 49-206-206	

FBN



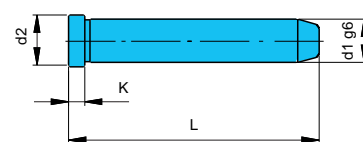
REF. d	B	REF. d	B
FBN 50- 96		FBN 49- 96	
-106		-106	
-126		-126	
-146		-146	
-166		-166	
-186		-186	
-206		-206	

FBC



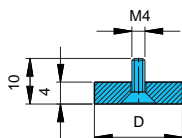
REF. d	B
FBC 34- 36	

APD



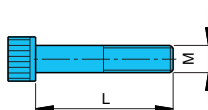
REF. d1 L	d2	K
APD 34-120	38	15
-170		
-210		
-250		

SB



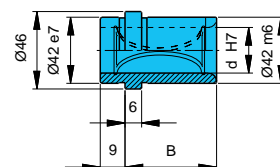
REF.	D
SB3	26

M



REF.	L
M 12 x 50	
M 20 x 160	
x 200	
x 240	

GEB



REF.	B
GEB 34-36	

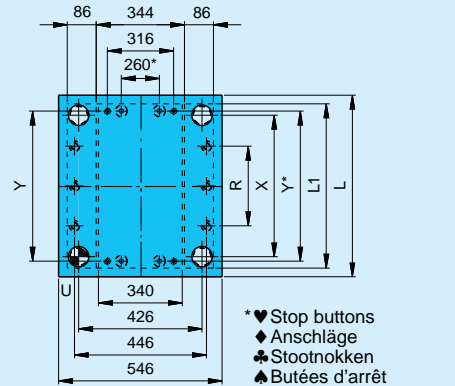
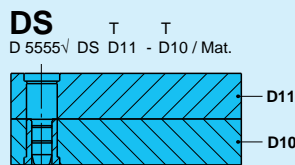
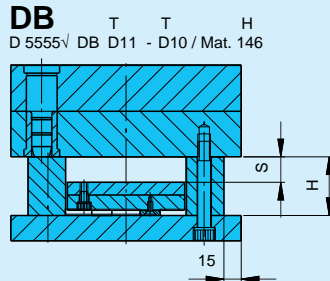
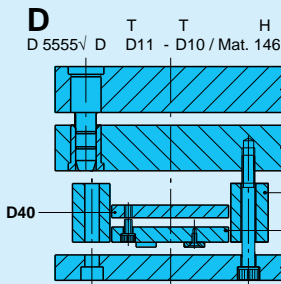
D 55

D 5555√ (546 x 546 mm)

D 5560√ (546 x 596 mm)

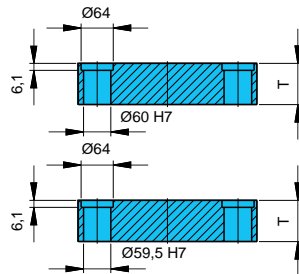
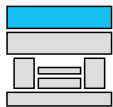
D 5580√ (546 x 796 mm)

♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base



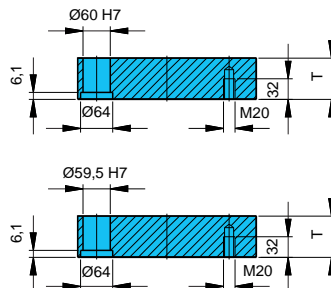
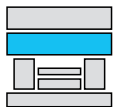
D55	L	L1	Y/Y*	X	R	
5555	546	496	460	426	306	6 x M20
5560	596	546	510	476	356	6 x M20
5580	796	746	710	676	556	6 x M20

♥ Interchangeable drilled D-plates - ♦ Austauschbar gebohrte D-Platten - ♣ Uitwisselbaar geboorde D-platen - ♠ Plaques alésées interchangeables type D



D11

REF.	Mat.	T						
		96	106	126	146	166	186	206
D11-5555-T/Mat.	1=1730							
D11-5560-T/Mat.	3=2312							
D11-5580-T/Mat.	5=2344							



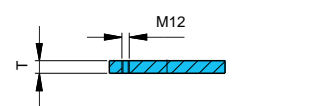
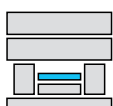
D16

REF.	Mat.	T						
		96	106	126	146	166	186	206
D16-5555-T/Mat.	1=1730							
D16-5560-T/Mat.	3=2312							
D16-5580-T/Mat.	5=2344							



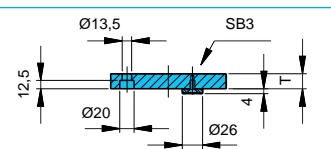
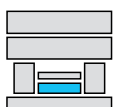
D10

REF.	Mat.	T						
		96	106	126	146	166	186	206
D10-5555-T/Mat.	1=1730							
D10-5560-T/Mat.	3=2312							
D10-5580-T/Mat.	5=2344							



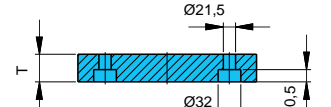
D15

REF.	Mat.	T						
		96	106	126	146	166	186	206
D15-5555-T/Mat.	1=1730							
D15-5560-T/Mat.	3=2312							
D15-5580-T/Mat.	5=2344							



D30

REF.	Mat.	H		
		106	146	186
D30-H-5555/1	1730			
D30-H-5560/1				
D30-H-5580/1				



D40

REF.	Mat.	T
D40-26-5555/1	1730	
D40-26-5560/1		
D40-26-5580/1		

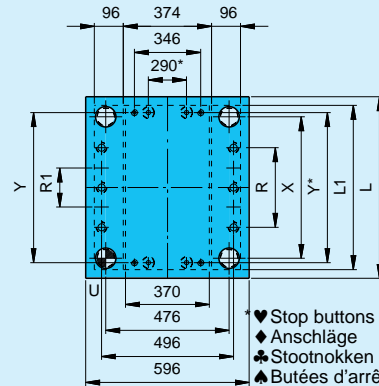
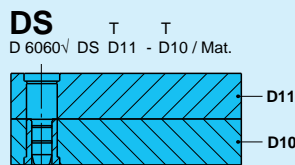
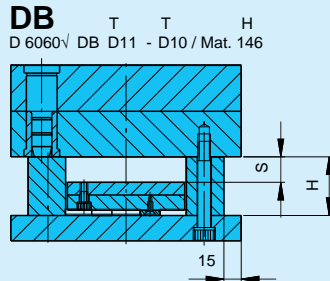
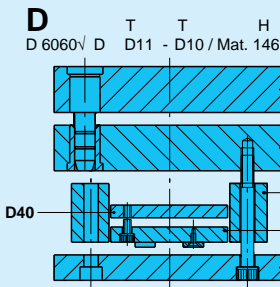
D 60

D 6060√ (596 x 596 mm)

D 6080√ (596 x 796 mm)

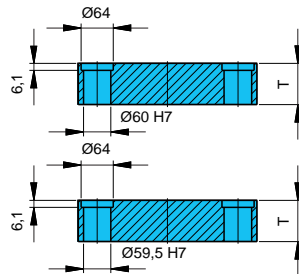
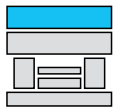
D 6090√ (596 x 896 mm)

♥ Basic assemblies - ♦ Grundaufbauten - ♣ Basis-samenbouw - ♠ Assemblages de base



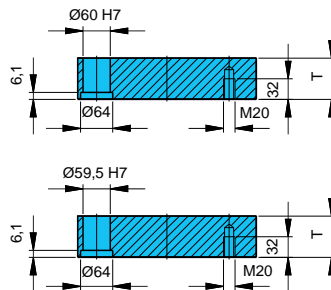
D60	L	L1	Y/Y*	X	R/R1	
6060	596	546	510	476	356	6 x M20
6080	796	746	710	676	556	6 x M20
6090	896	846	810	776	656/226	8 x M20

♥ Interchangeable drilled D-plates - ♦ Austauschbar gebohrte D-Platten - ♣ Uitwisselbaar geboorde D-platen - ♠ Plaques alésées interchangeables type D



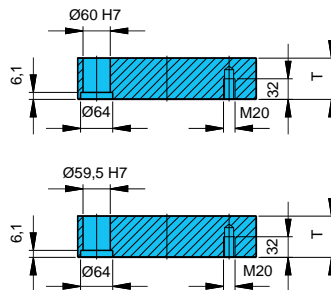
D11

REF.	Mat.	T						
		96	106	126	146	166	186	206
D11-6060-T/Mat.	1=1730							
D11-6080-T/Mat.	3=2312							
D11-6090-T/Mat.	5=2344							



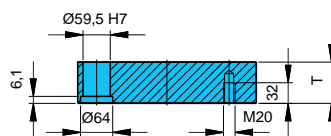
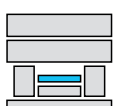
D16

REF.	Mat.	T						
		96	106	126	146	166	186	206
D16-6060-T/Mat.	5=2344							
D16-6080-T/Mat.								
D16-6090-T/Mat.								



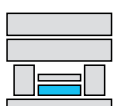
D10

REF.	Mat.	T						
		96	106	126	146	166	186	206
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D10-6080-T/Mat.	3=2312							
D10-6090-T/Mat.	5=2344							



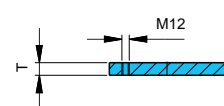
D15

REF.	Mat.	T						
		96	106	126	146	166	186	206
D15-6060-T/Mat.	5=2344							
D15-6080-T/Mat.								
D15-6090-T/Mat.								



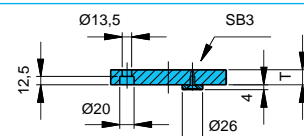
D30

REF.	Mat.	H		
		126	146	186
D30-H-6060/1	1730			
D30-H-6080/1				
D30-H-6090/1				
		S		
		50	70	110



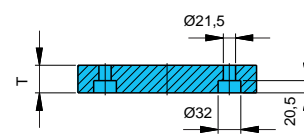
D40

REF.	Mat.	
D40-26-6060/1	1730	
D40-26-6080/1		
D40-26-6090/1		



D50

REF.	Mat.	
D50-46-6060/1	1730	
D50-46-6080/1		
D50-46-6090/1		



D03

REF.	Mat.	
D03-6060-46/1	1730	
D03-6080-46/1		
D03-6090-46/1		

♥ Mold bases diecasting - D-plates

♦ Druckgieß-Normalien - D-Platten

Drukgietsmatrijzen - D-platen ♣

Porte-moules pour coulée sous pression - plaques D ♠

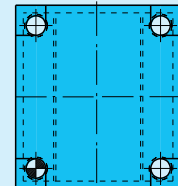
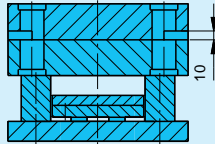
D 60

D 6060√ (596 x 596 mm)

D 6080√ (596 x 796 mm)

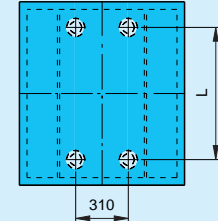
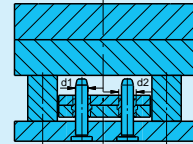
D 6090√ (596 x 896 mm)

♥ Lever slots
♦ Knippecken
♣ Koevoetuitsparingen
♠ Encoches de bridage



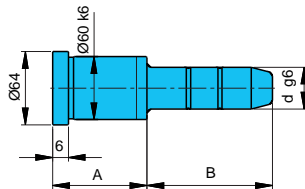
D60	L	d1	d2
6060	436	34	42
6080	636	34	42
6090	736	34	42

♥ Guided ejector plates
♦ Auswerferplattenführung
♣ Geleiding van uitwerfplaten
♠ Guidage de la batterie d'éjection



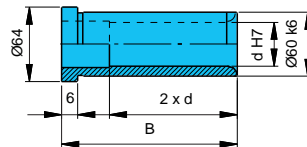
√ ♥ Select a series
♦ Wählen Sie eine Serie aus
♣ Selecteer een serie
♠ Sélectionner une série

FSN



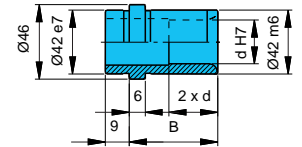
REF. d	A - B	REF. d	A - B
FSN 50- 96- 96		FSN 49- 96- 96	
-126		-126	
-186		-186	
FSN 50-106- 96		FSN 49-106- 96	
-126		-126	
-186		-186	
FSN 50-126- 96		FSN 49-126- 96	
-146		-146	
FSN 50-146-106		FSN 49-146-106	
-146		-146	
FSN 50-166-166		FSN 49-166-166	
FSN 50-186-186		FSN 49-186-186	
FSN 50-206-206		FSN 49-206-206	

FBN



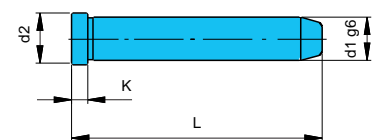
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FBN 50- 96		FBN 49- 96	
-106		-106	
-126		-126	
-146		-146	
-166		-166	
-186		-186	
-206		-206	

FBC



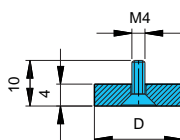
REF. d	B
FBC 34- 46	

APD



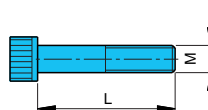
REF. d1	L	d2	K
APD 34-170		38	15
-190			
-210			
-250			

SB



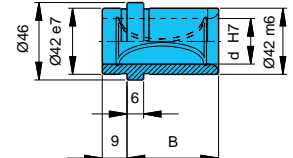
REF.	D
SB3	26

M



REF.	L
M 12 x 60	
M 20 x 180	
x 200	
x 240	

GEB



REF.	B
GEB 34-46	

♥ Mold bases diecasting - D-plates

♦ Druckgieß-Normalien - D-Platten

♣ Drukgietsmatrijzen - D-platen ♣

Porte-moules pour coulée sous pression - plaques D ♠

Info

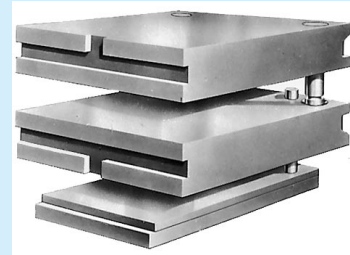
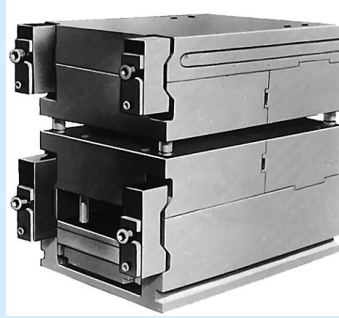
♥ Unit die holders - ♦ Wechselrahmen

♣ Moedermatrijzen - ♠ Moules-mères

DR

ER

WF



♥ Double unit die holder with replacement units for zinc and aluminium diecasting.

♦ Zweifach-Wechselrahmen mit Wechselformen für Zink und Aluminium.

♣ Dubbele moedermatrijs voorzien van wisselmatrijzen voor zink en aluminium.

♠ Moule-mère double avec unités interchangeables pour la coulée du zinc et de l'aluminium.

♥ Single unit die holder with replacement units for zinc and aluminium diecasting.

♦ Einfach-Wechselrahm mit Wechselformen für Zink und Aluminium.

♣ Enkelvoudige moedermatrijs voorzien van wisselmatrijzen voor zink en aluminium.

♠ Moule-mère simple avec unités interchangeables pour la coulée du zinc et de l'aluminium.

♥ Replacement units for zinc and aluminium diecasting.

♦ Wechselformen für Zink und Aluminium.

♣ Wisselmatrijzen voor zink en aluminium.

♠ Unités interchangeables pour la coulée du zinc et de l'aluminium.

♥ When ordering specify:

- Ref. number
- Steel quality of replacement unit
- Drawing with all dimensions for special machining to be made by D-M-E
- Nominal dimensions
- Position
- Tolerances

♦ Bei Bestellung angeben:

- Ref. Nummer
- Stahlqualität der Wechselform
- Zeichnungen mit eindeutigen Maßangaben für alle Sonderarbeiten, die von D-M-E ausgeführt werden sollen
- Nennmaße
- Lagebestimmung
- Toleranzen

♣ Specificeren bij bestelling:

- Ref. nummer
- Staalkwaliteit van de wisselmatrijs
- Gedetailleerde tekening voor alle 'special machining' door D-M-E uit te voeren
- Nominale afmetingen
- Positie
- Toleranties

♠ En cas de commande spécifier:

- N° référence
- Qualité d'acier des unités interchangeables
- Dessin avec toutes les cotes pour usinage spécial à effectuer par D-M-E
- Dimensions nominales
- Positions
- Tolérances

Info

♥ Unit die holders - ♦ Wechselrahmen

♣ Moedermatrijzen - ♠ Moules-mères

♥ Pre-engineered design features

- **Maximum cavity area for greater range of jobs.**
Three sides of replacement units are open for placement of core slides or water lines.
- **Rigid center section for longer die life.**
Center section is made of steel DME 5 heat treated to 42-46 RC.
- **Accurate alignment for minimum wear.**
Six leader pins diameter 24 mm and six return pins diameter 18 mm (four of each in single unit holders) provide better alignment and permit uniform control of ejector plates.
- **Steel qualities.**
The steel quality of the top and bottom clamping plates is DME 3 with a hardness of ca. 1050 MPa. The risers are also in steel DME 3 and the main ejector plate is in DME 1 with a hardness of ca. 640 MPa.
- **Positive locking of interchangeable units.**
Precision made center section has solid horizontal and vertical keys for positive locking of replacement units. Lever slots facilitate removal of units.
- **Wedge clamps and solid steel wedge locks for safety and quick die changeover.**
D-M-E single and double unit die holders are equipped with wedge clamps with heavy-duty socket screws.
- **Designed for zinc or aluminium applications.**

♦ Konstruktionsmerkmale

- **Maximale Formgebung für größeren Anwendungsbereich.**
3 Seiten der Wechselform sind offen für Schieberführungen oder Temperierbohrungen.
- **Stabiles Mittelstück für längere Haltbarkeit.**
Das Mittelstück ist aus DME Stahl 5 (H-13) vergütet auf 42-46 RC.
- **Weniger Verschleiß durch exakte Führungen.**
Sechs Führungsstifte (24 mm) und sechs Rückstoßstifte (18 mm) je 4 Stck. für Einfach-Wechselrahmen sorgen für bessere Führung und gestatten einheitliche Kontrolle der Auswerfergrundplatte.
- **Stahlqualität.**
Die Stahlqualität der oberen und unteren Aufspannplatten ist DME 3 mit einer Härte von ca. 1050 MPa. Die Stützleisten DME 3 und die Hauptauswerferplatte in DME 1 mit einer Härte von ca. 640 MPa.
- **Formschlüssige Sicherung der austauschbaren Einheiten.**
Das präzisionsgefertigte Mittelstück hat massive horizontale und vertikale Riegel für formschlüssige Sicherung der Wechselformen. Schlitz für Hebezeug vereinfachen das Entfernen der Form. Keilklammern und massive Keilriegel zur Sicherheit und schnellen Formwechsel. D-M-E Einfach- und Zweifach-Wechselrahmen sind mit Keilklammern und dauerhaften Innen-sechskantschrauben ausgestattet.
- **Konstruiert für Zink- oder Aluminium Anwendung.**

♣ Spezifieke konstruktie-eigenschappen

- **Bijzonder ruim vormholteoppervlak laat een veelvoudigheid van toepassingen toe.**
Drie zijden van de wisselmatrijzen zijn direkt toegankelijk voor eventuele koelkanalen of kernschuiven.
- **Robuuste uitvoering van het centrale gedeelte garandeert een lange levensduur.**
Het centrale gedeelte is uit staal DME 5, gehard tot 42-46 RC.
- **Perfekte geleiding verzekert een minimum aan slijtage.**
Zes geleide pennen diameter 24 mm en zes terugdrukpenen diameter 18 mm (vier van elk per enkelvoudige moedermatrijs) zorgen voor een goede geleiding en laten een uniforme controle van de uitwerpplaat toe.
- **Staalqualiteiten.**
Zowel boven- en onderplaat als de steunlijsten zijn uit staal DME 3 met een hardheid van ca. 1050 MPa. De uitwerpplaat is uit staal DME 1 met een hardheid van ca. 640 MPa.
- **Positieve vergrendeling van de wisselmatrijzen.**
Het met hoge precisie uitgevoerde middelgedeelte is voorzien van horizontale en verticale vergrendelingsregels die een positieve vergrendeling van de wisselmatrijzen toelaten. Koevoetsleuven vergemakkelijken het wisselen van de matrijzen.
- **Wigvormige spanplaten en robuust uitgevoerde stalen wigsloten garanderen een veilige en snelle wissel van de matrijzen.**
Zowel de enkelvoudige als de dubbele matrijshouder hebben wigvormige spanplaten voorzien van solide spanschroeven.
- **De uitvoering is zowel voor zink als voor aluminium toepassingen.**

♣ Caractéristiques Techniques

- **Surface disponible maximum pour les cavités.**
Large gamme de possibilités. Trois côtés des unités interchangeables sont ouverts pour le placement de tiroirs ou de lignes d'eau.
- **Section centrale rigide pour une longue durée de vie.**
La section centrale est faite en acier DME 5 traité à 42-46 RC. Les moitiés supérieure et inférieure sont profilées pour augmenter la rigidité.
- **Alignement précis pour réduire l'usure.**
Six colonnes de guidage de 24 mm de diamètre et six poussoirs de diamètre 18 mm (4 de chaque dans le moule-mère simple) confèrent un meilleur alignement et permettent un soutien uniforme de la plaque éjectrice.
- **Qualités d'acier.**
L'acier des plaques supports supérieure et inférieure est du type DME 3 avec une dureté d'environ 1050 MPa. Les blocs supports sont en acier DME 3 et la plaque éjectrice en DME 1, dureté d'environ 640 MPa.
- **Fixation sûre des unités interchangeables.**
La partie centrale, usinée avec précision, est munie d'amarrages solides horizontaux et verticaux pour une fixation sûre des unités interchangeables. Des encoches pour pied-de-biche facilitent l'enlèvement des unités interchangeables.
- **Brides de serrage et loquets en biseau pour verrouillage facilitent les changements rapides.**
Les moules-mères simples et doubles sont équipés d'étriers biseautés munis de boulons à haute résistance.
- **Construit pour les applications zinc et aluminium.**

♥ Mold bases diecasting - D-plates

♦ Druckgieß-Normalien - D-Platten

♣ Drukgietsmatrijzen - D-platen ♣

Porte-moules pour coulée sous pression - plaques D ♠

♥ Unit die holders - ♦ Wechselrahmen

♣ Moedermatrijzen - ♠ Moules-mères

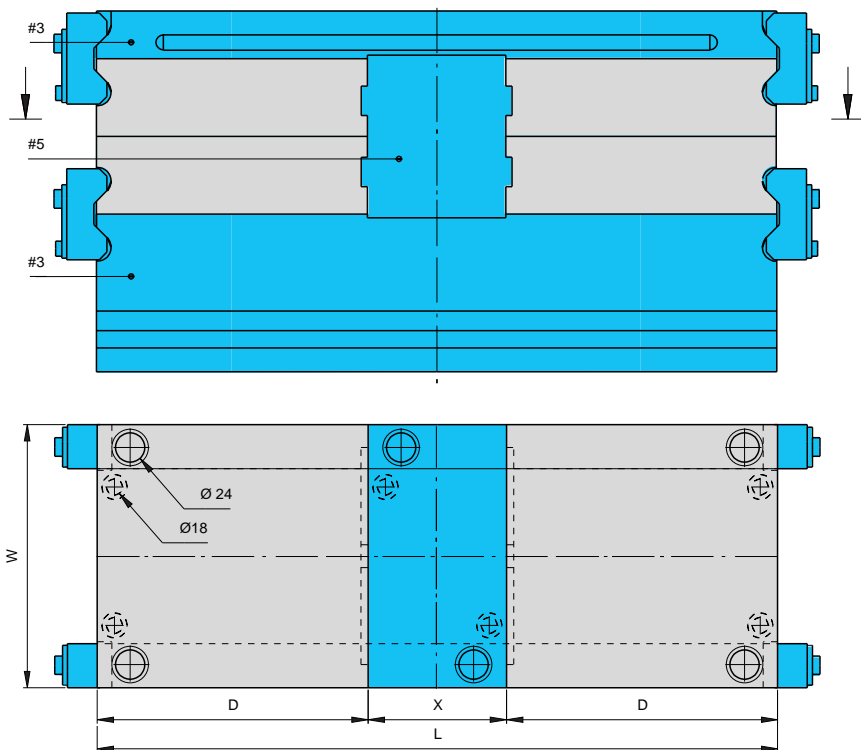
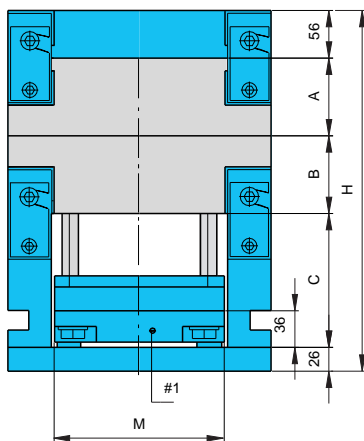
DR

♥ Double unit die holders

♦ Zweifach-Wechselrahmen

♣ Dubbele moedermatrijzen

♠ Moules-mères doubles



REF.	W	D	X	L	C	M	H	A	B
DR-3025	296	246	136	628	146	200	420	96	96
DR-3830	376	296	152	744	146	280	440	106	106

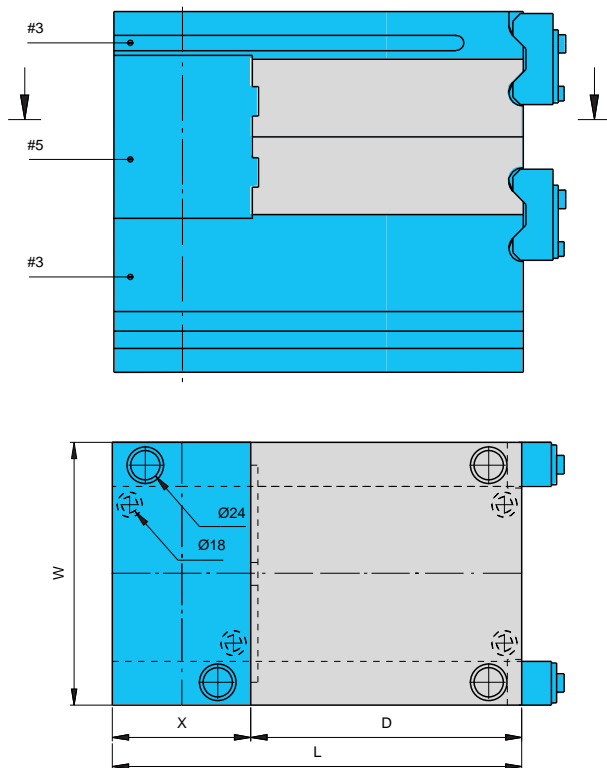
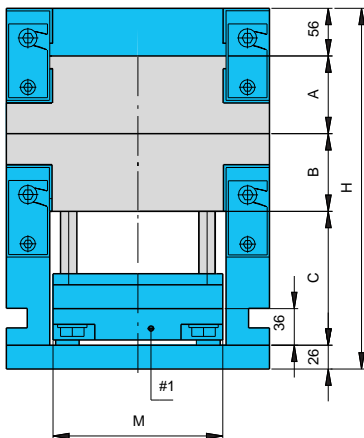
ER

♥ Single unit die holders

♦ Einfach-Wechselrahmen

♣ Enkelvoudige moedermatrijzen

♠ Moules-mères simples



REF.	W	D	X	L	C	M	H	A	B
ER-3025	296	246	200	446	146	200	420	96	96
ER-3830	376	296	232	528	146	280	440	106	106

♥ Mold bases diecasting - D-plates

♦ Druckgieß-Normalien - D-Platten

Drukgietsmatrijzen - D-platen ♣

Porte-moules pour coulée sous pression - plaques D ♠

♥ Unit die holders - ♦ Wechselrahmen

♣ Moedermatrijzen - ♠ Moules-mères

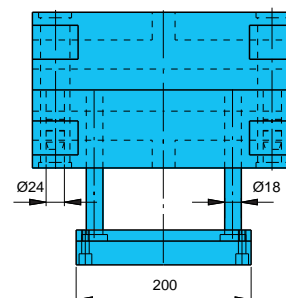
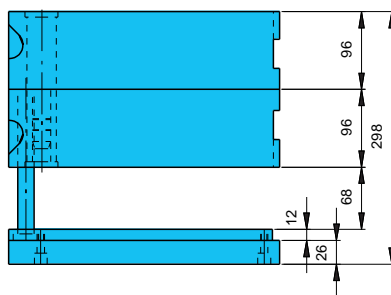
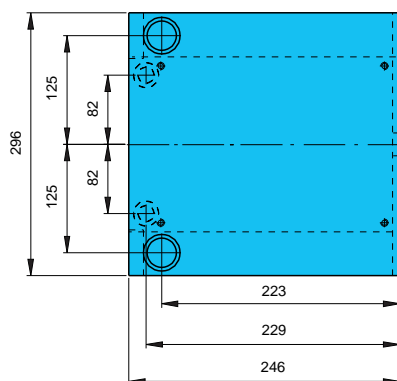
WF

♥ Replacement units

♦ Wechselformen

♣ Wisselmatrijzen

♠ Unités interchangeables



REF.	Mat. 1.2312	Mat. 1.2344
WF-3025	DME 3	DME 5

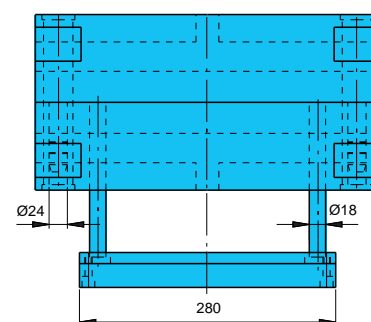
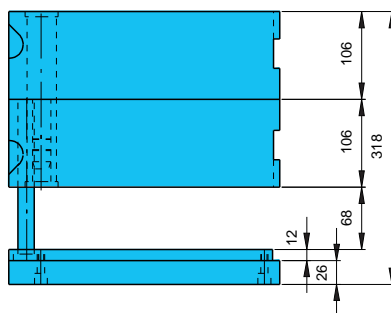
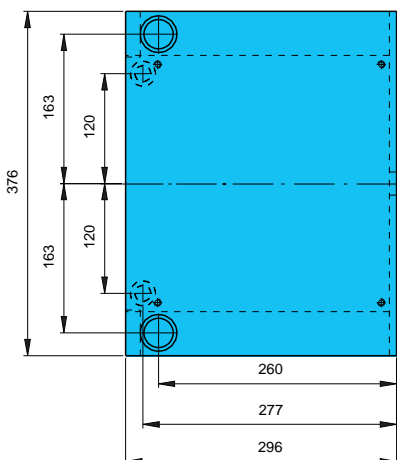
WF

♥ Replacement units

♦ Wechselformen

♣ Wisselmatrijzen

♠ Unités interchangeables



REF.	Mat. 1.2312	Mat. 1.2344
WF-3830	DME 3	DME 5

♥ Mold bases diecasting - D-plates

♦ Druckgieß-Normalien - D-Platten

♥ Drukgietsmatrijzen - D-platen ♣

♣ Porte-moules pour coulée sous pression - plaques D ♠

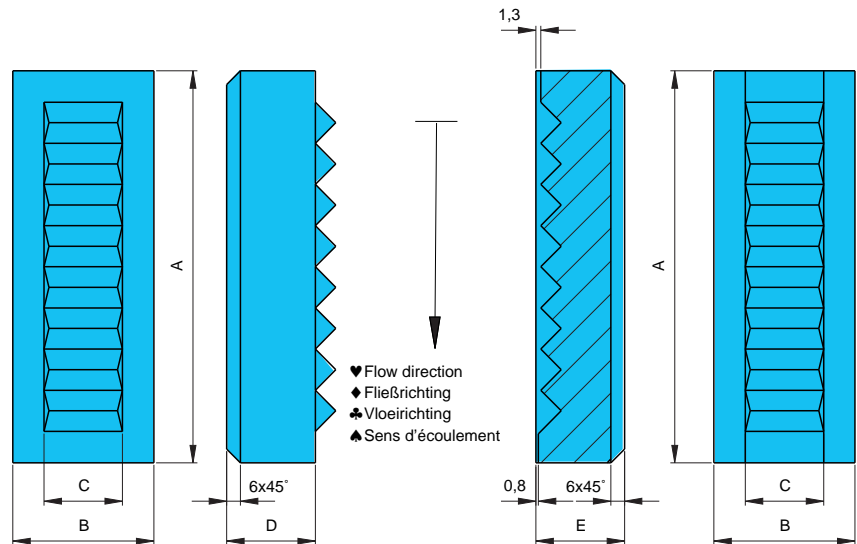
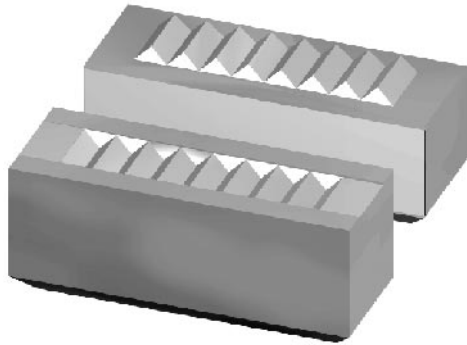
MCV - FCV

♥ Chill vents

♦ Entlüftungseinsätze

♣ Ontluchtingsblokjes

♠ Blocs évents



Mat. 1.2344

REF.	A $\pm 0,03$	B $\pm 0,03$	C	D $\pm 0,02$	E $\pm 0,03$
MCV/FCV-136	100	36	20	35	40,3
MCV/FCV-156	100	56	36	35	40,3
MCV/FCV-196	100	96	70	45	45,3

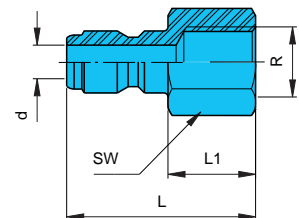
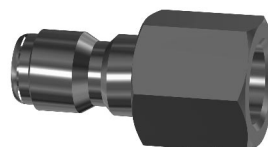
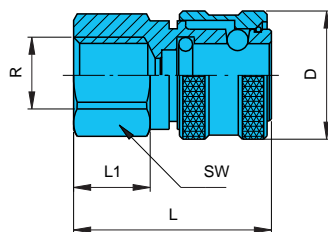
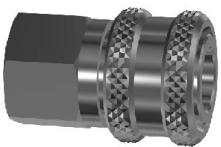
JST

♥ High pressure jiffy tites and connector plugs without valve

♦ Hochdruck Schnellkupplungen und Anschlußnippel ohne Ventiel

♣ Hogedruk jiffy tites en aansluitnippels zonder ventiel

♠ Raccords rapides et embouts à haute pression sans obturateur



Mat. ♥ Brass stainless steel - ♣ Messing-roestbestendig staal

♦ MS-Rostfreier Stahl - ♠ Laiton acier inoxydable

♥ With safety against accidental disconnection

♦ Eingebauter Sicherheitsring gegen versehentliches Endkuppeln

♣ Beveiligd tegen toevallig ontkoppelen

♠ Avec verrouillage de sécurité

REF.	L	L1	d	SW	R	SERIE(S)	Bar*	REF.	L	L1	d	SW	R	SERIE(S)	Bar*
JST-2006	37,2	14,4	ø 24	21	1/4 - 19 BSP	200	379	JST-0252	35,6	16,5	6	18	1/4 - 19 BSP	200	379
-3009	40,6	19,4	ø 29	26	3/8 - 19 BSP	300	241	-0353	41,3	19,1	9	21	3/8 - 19 BSP	300	241

* ♥ Max. service pressure - ♣ Max. bedrijfsdruk

♦ Max. Betriebsdruck - ♠ Pression max. de service

JST

♥ Seals

♦ Dichtungen

♣ Dichtingen

♠ Joints

♥ IMPORTANT:

Never disconnect under pressure. Max. service temperature 205 °C.

♦ WICHTIG:

Leitung drucklos machen vor dem Endkuppeln. Max. Betriebstemperatur 205 °C.

♣ BELANGRIJK:

Nooit ontkoppelen onder druk. Max. bedrijfstemperatuur 205 °C.

♠ IMPORTANT:

Ne jamais déconnecter sous pression. Température max. de service 205 °C.



Mat. Viton

REF.	SERIE(S)	REF.	SERIE(S)
JST-2008	200	JST-3008	300

♥ Mold bases diecasting - D-plates

♦ Druckgieß-Normalien - D-Platten

Drukgietsmatrijzen - D-platen ♣

Porte-moules pour coulée sous pression - plaques D ♠

DMCA

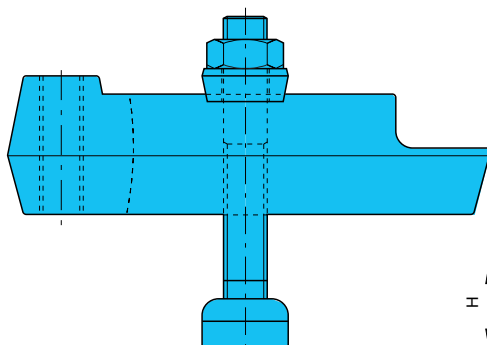
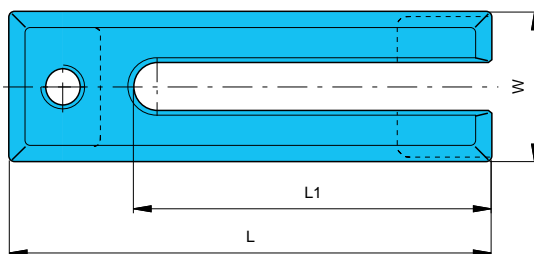
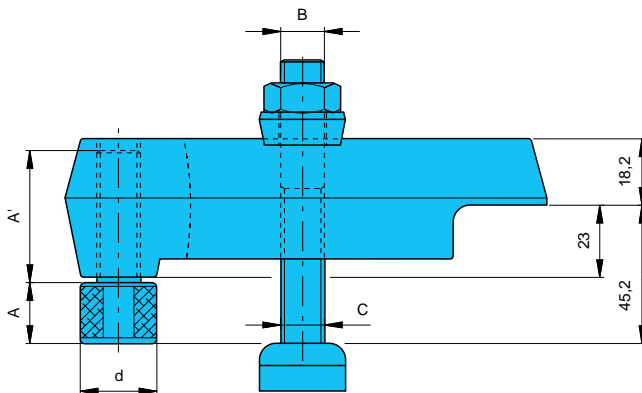
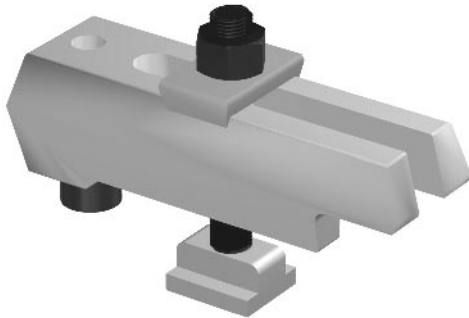
♥ Mold clamps for diecasting

♦ Spanneisen für Druckguß

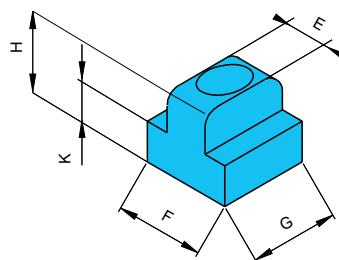
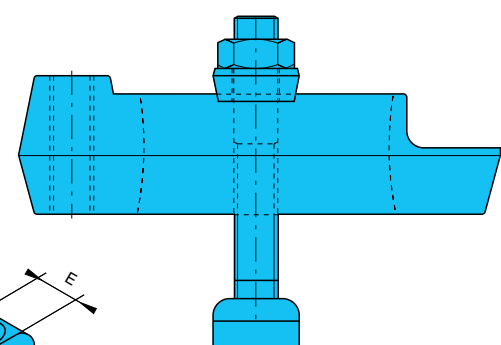
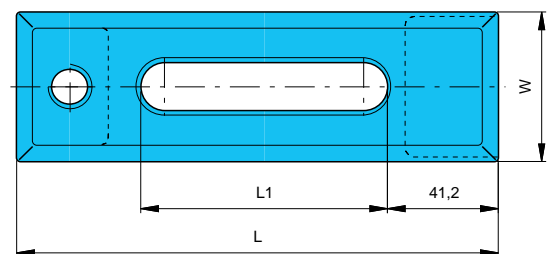
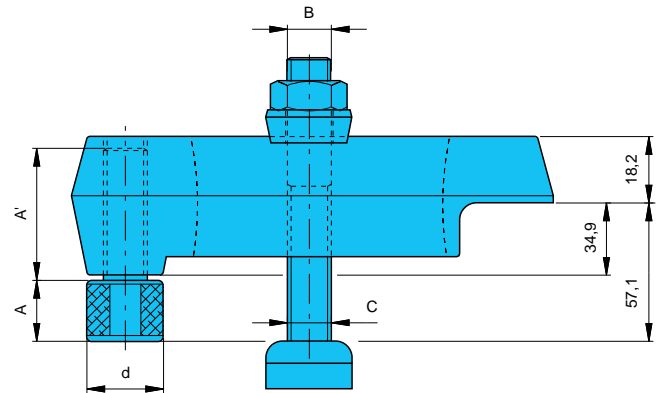
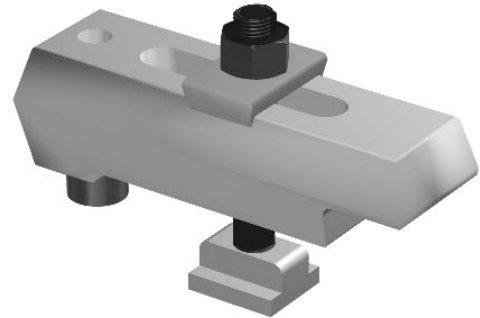
♣ Spanklemmen voor drukgieten

♠ Brides de serrage pour la coulée sous pression

DMCA-5-5 → DMCA-6-7

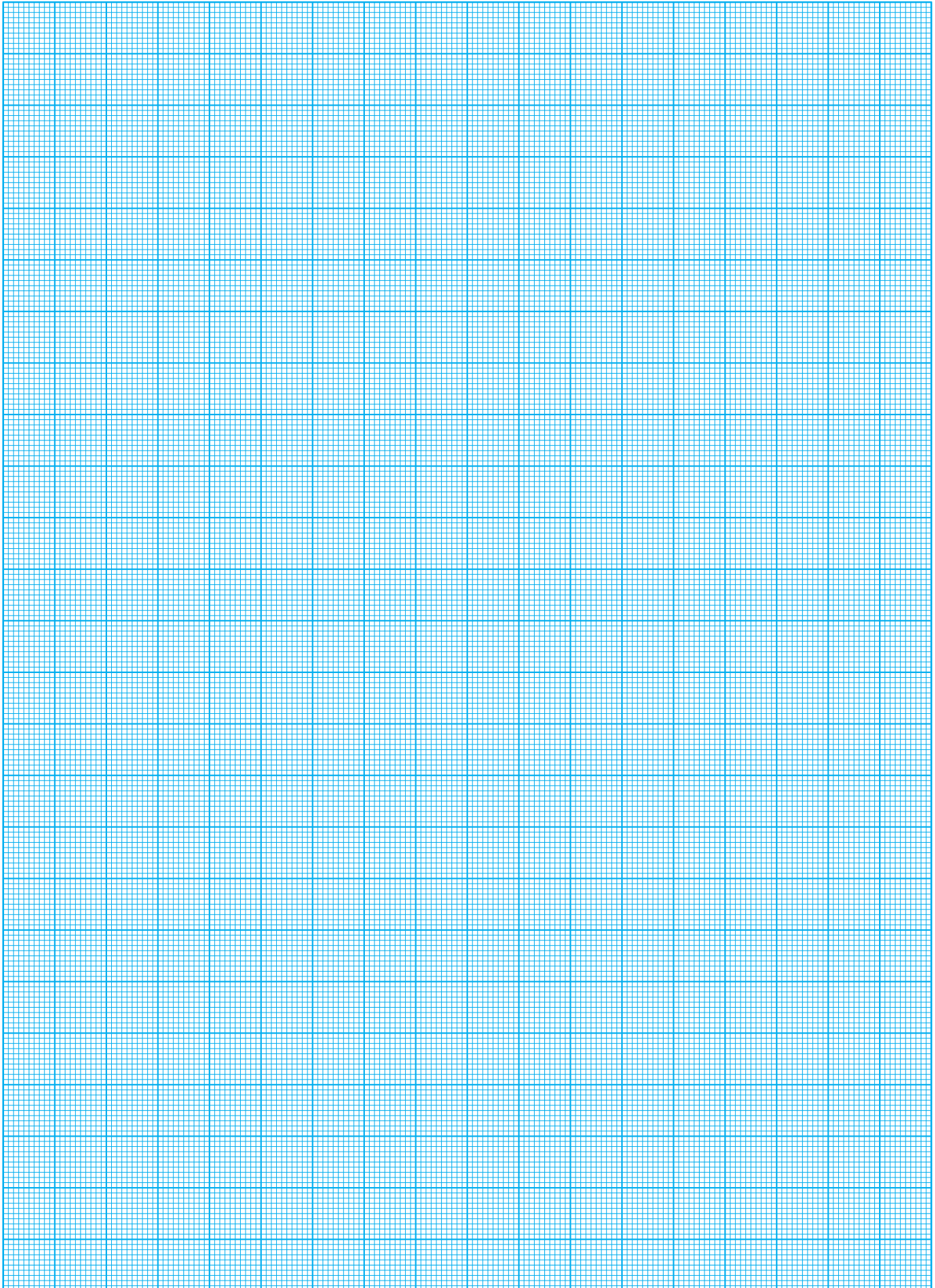


DMCA-8-95



REF.	A	A'	B	C	d	L	L1	W	E	F	G	H	K
DMCA-5-5	15,8	39	5/8-11 x 4 1/2	15,9	35	132	86	48	15,9	28,6	33	16,2	6,4
DMCA-5-7						178	127		15,9	28,6	33	16,2	6,4
DMCA-6-5	19,0		3/4-10 x 4 1/2	19,1	38	132	86	51	19,0	33,3	37,6	20,6	13,5
DMCA-6-7						178	127		19,0	33,3	37,6	20,6	13,5
DMCA-8-95	22,2	50	1" x 6	25,5	51	241	135	67	25,4	42,9	49,8	26,9	17,5

NOTES - NOTIZEN - NOTA'S - NOTES



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RMC 8"	2d-13/2d-15/2d-17/2d-18
RMF 6"	2d- 7
RMF 8"	2d-12
RMI 6"	2d- 9
RMI 8"	2d-14
RMT 6"	2d-18
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♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

♣ Matrijshuizen - Round Mate®
♠ Porte moules - Round Mate®

Info

♥ Round Mate® concept - Inch
♦ Round Mate® Konzept - Zoll

♣ Round Mate® concept - Duim
♠ Concept Round Mate® - Pouces

♥ The Round Mate® system is an innovative way to save time and money in the production of small plastic parts. Its unique design comes from years of listening to the very specific concerns of professionals in the injection molding industry. The Round Mate® System standardizes much of the chase work and machining that typically adds to tooling time and costs.

♦ Das Round Mate®-Wechselsystem ist ein innovativer Weg, um Zeit und Kosten bei der Produktion von kleinen Plastikteilen zu sparen. Diese einzigartige Konstruktion resultiert aus den Erfahrungen, die Spezialisten der Spritzgießtechnik über Jahre an uns weitergegeben haben. Das Round Mate® System standardisiert eine Menge der Arbeiten, die zusätzlich zu den eigentlichen formgebenden Arbeiten anfallen und spart Zeit und Geld.

♥ The Round Mate® System divides the mold into two separate parts: The standard master frame (which never needs to leave the molding machine) and the Round Mate® inserts (which are easily inserted and removed from the face of the master frame while it is in the press).

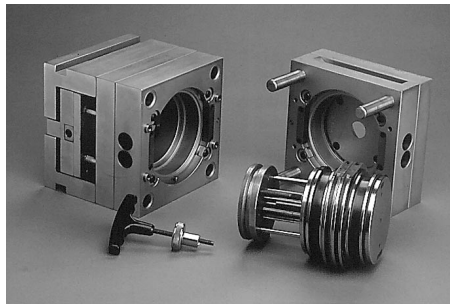
♦ Das Round Mate® System teilt die Spritzgußformen in zwei separate Teile: In den Standard-Haupt-Rahmen (der - einmal montiert - die Spritzmaschine nicht mehr verläßt) und die Round Mate®-Einsätze (welche ganz einfach eingesetzt und aus dem in der Maschine verbleibenden Grundrahmen wieder entfernt werden können).

♥ In order to reduce costs and lead time, the Round Mate® master frame is provided with guided ejection, cavity pockets, center sprue gating and a water cooling jacket. The inserts are interchangeable and are available in a variety of steels to suit your applications. With Round Mate®, only the cavity detail must be machined when tooling up for a new job. The Round Mate® System takes advantage of the inherent technical benefits of a round shape to provide uniform mold clamping pressure, balanced mold cooling, insert self-centering and efficient runner layout.

♦ Um Kosten und Fertigungszeiten zu sparen, wird der Round Mate®-Rahmen mit geführten Auswerferplatten, mit Aufnahmen für die Formplatten, mit einer zentralen Angießplatte und einem vorgefertigten 360° Kühlkreislauf geliefert. Die Einsätze sind austauschbar und stehen in verschiedenen Stahlsorten für die jeweiligen Anwendungen zur Verfügung. Mit der Round Mate® werden nur die Arbeiten für die Kavität notwendig, um ein neues Werkzeug produktionsfertig zu machen. Das Round Mate®-System nutzt die technischen Vorteile für runde Einsätze, um gleichmäßige Zuhaltkräfte, ausbalancierte Formkühlung, Selbstzentrierung und effiziente Angießverteiler zu realisieren.

♣ Het Round Mate® systeem is een vooruitstrevend concept dat vooral gericht is op het besparen van tijd en geld bij het spuitgieten van kleine plastic producten. Dit unieke ontwerp is gegroeid uit de jarenlange, nauwe samenwerking met vakmensen uit de plastics spuitgietindustrie. Met het Round Mate® systeem wordt het tijdrovende en arbeidsintensieve routinewerk grotendeels gestandaardiseerd.

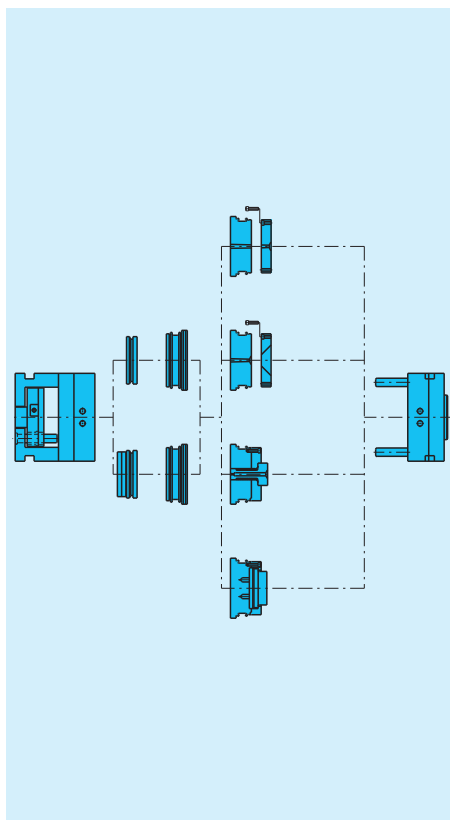
♠ Le système Round Mate® constitue une solution novatrice qui permet de réduire les temps et les coûts de fabrication des petites pièces en matière plastique.



Sa conception unique résulte des exigences spécifiques des professionnels de l'industrie du moulage par injection. Le système Round Mate® normalise une bonne part des usinages du porte-moule et permet d'économiser temps et coûts.

♣ Het Round Mate® systeem bestaat uit twee afzonderlijke matrijshuizen: de standaard moeder-matrijs (die steeds in de spuitgietmachine gemonteerd blijft) en de Round Mate® inzetstukken (die probleemloos in de moedermatrijs kunnen geplaatst worden en er even snel kunnen uit verwijderd worden zonder dat deze van de spuitgietmachine gehaald wordt).

♠ Le système Round Mate® divise le moule en deux parties distinctes: le moule-mère standard, qui reste fixé à la presse, et les inserts ronds Round Mate®, qui sont facilement montés ou démontés du moule-mère fixé à la presse.



♣ Om de kosten te drukken en de doorlooptijden te beperken is de moedermatrijs voorzien van uitwerpergeleiding, vormholtes, een centrale aansluiting en een waterkoelingcircuit. De inzetstukken zijn uitwisselbaar en in verschillende staalsoorten te verkrijgen zodat ze geschikt zijn voor een uitgebreid toepassingsgebied. Het volstaat de vormholtes in de inzetstukken aan te brengen om een nieuwe produktiematrijs te kunnen opstarten. Het Round Mate® systeem maakt handig gebruik van de inherente technische voordelen die zijn ronde vorm biedt: uniforme sluitkracht in de matrijs, uitgebalanceerde matrijskoeling, perfecte auto-centrerings van de inzetstukken en een efficiënte aansluitconfiguratie.

♠ Afin de réduire les coûts et les délais, le moule-mère Round Mate® est fourni avec guidage d'éjection, évidement pour les inserts, anneau d'injection centrale et canal circulaire de refroidissement à eau. Les inserts sont interchangeables et disponibles en diverses qualités d'acier selon les besoins. Avec le Round Mate®, seul l'empreinte proprement dite doit être usinée lors de la préparation de l'outillage pour une nouvelle application. Le système Round Mate® profite des avantages techniques offerts par une forme ronde, et il en résulte une pression de fermeture uniforme, le refroidissement bien réparti du moule, le centrage automatique des inserts, et la disposition judicieuse des canaux d'injection.

- ♥ Mold bases - Round Mate®
- ◆ Standardformen - Round Mate®

- Matrijshuizen - Round Mate® ♣
- Porte moules - Round Mate® ♠

Info

- ♥ Round Mate® concept - Inch
- ◆ Round Mate® Konzept - Zoll

♥ Reduce mold costs up to 40%

The insert set itself is less than half the cost of a blank 'dedicated' mold base. A blank insert set (made up of 'A' and 'B' plate inserts, ejector plate and ejector retainer plate) comes to you already finish ground with a unique 360° water jacket in place.

Allow faster deliveries

With routine work already completed, you are ready to cut cavities from blank inserts, saving days of production time.

Provide quick mold changes

Simple hex-key wrenches are used to change the mold, in the press, in just 10 minutes.

◆ Reduzierte Formkosten bis zu 40%

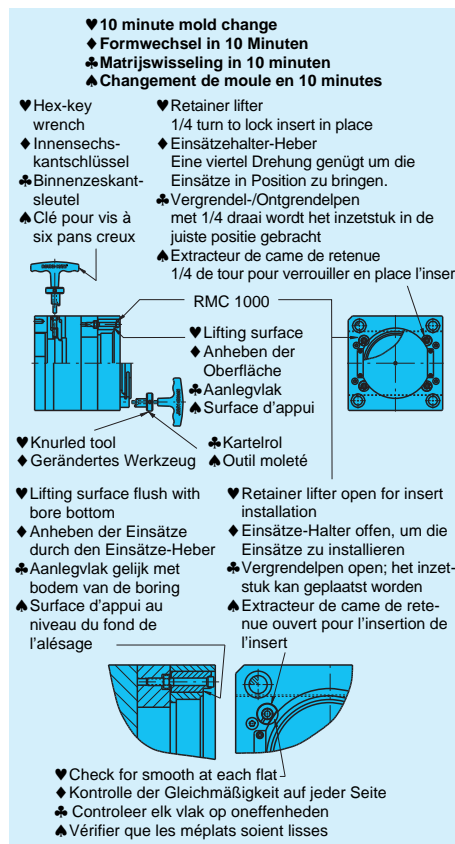
Das Einsatzpaar kostet weniger als die 1/2 Kosten eines normalen Formaufbaus. Ein roher Satz Einsätze (bestehend aus 'A' und 'B'-Platten, Auswerferplatte, Auswerferhalteplatte) wird Ihnen fertig bearbeitet mit einem 360° Kühlkreislauf angeliefert.

Schnellere Formfertigstellung und Lieferung

Mit der bereits fertigen Routinearbeit für die Formrahmen sind sie sofort bereit Ihre Kavitäten in die Einsätze zu bearbeiten, dies spart Tage Produktionszeit ein.

Mögliche schnelle Formwechsel.

Einfache 6-Kant-Schlüssel werden dazu benutzt, die Einsätze in der Round Mate® zu wechseln. Dies geschieht ohne den Formrahmen von der Spritzmaschine zu demontieren. In den meisten Fällen sind dazu 10 Minuten ausreichend.



♣ Verlaging van de matrijskosten tot 40%

De kostprijs van een Round Mate® inzetpakket bedraagt minder dan de helft van die van een normaal matrijshuis. Een voorbereikt inzetpakket (bestaande uit inzetstukken 'A' en 'B', uitwerpplaat en uitwerppdekplaat) wordt fijngeleerd geleverd, voorzien van een uniek 360° waterkoelingscircuit.

Soepele levertijden

Daar het routinewerk reeds voltooid is, kunnen de vormholten onmiddellijk in de voorbereikte inzetstukken aangebracht worden, waardoor de productietijd drastisch verkort wordt.

Snelle matrijswisseling

Met behulp van moersleutels wordt het vormgevend gedeelte, op de machine, gewisseld in slechts 10 minuten.

♣ Réduction du coût des moules allant jusqu'à 40%

Le jeu d'inserts coûte moins que la moitié du prix d'un porte-moule standard. Le jeu d'inserts (compréhendant les inserts 'A' et 'B' et les plaque et contre-plaque éjectrices) qui est livré, est déjà rectifié et doté d'un canal de refroidissement à eau circulaire de conception unique.

Réduction des délais de livraison

Les travaux de routine étant éliminés, on peut immédiatement usiner les empreintes dans les inserts, ce qui permet de réduire les délais de fabrication de plusieurs jours.

Rapidité de changement du moule

Des clés simples pour vis à six pans creux sont employées pour changer le moule, sur presse, en 10 minutes à peine.

♥ Improve part quality

A Round Mate® mold gives you balanced heat transfer and cooling, uniform clamping pressure, self centering inserts, and more efficient runner layout.

Built-in water cooling jacket

Round Mate's® interchangeable insert system, coupled with the self-forming water jacket system, is totally unique to the industry. This direct cooling system puts to work the benefits of even, circular motions.

Because the water jacket is built into the system, the cost of additional machining for waterlines is eliminated. However, if your application requires additional lines, bubblers can be added to fill the core, or the Round Mate® insert can be cross-drilled.

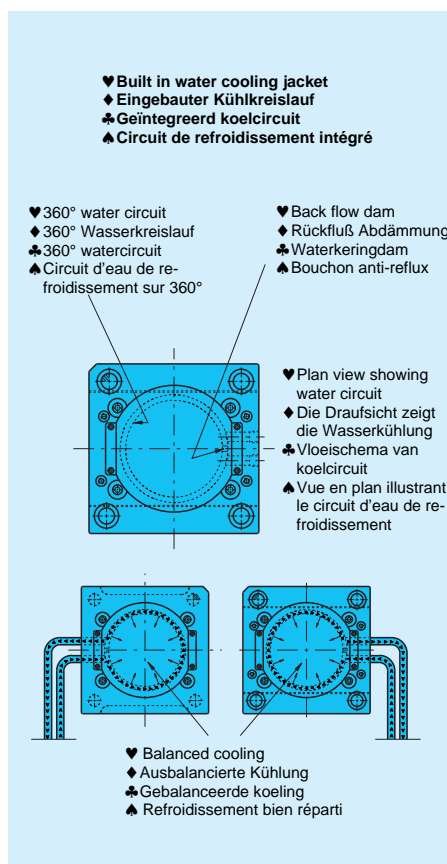
◆ Bessere Teilequalität

Eine Round Mate®-Form bietet Ihnen ausbalancierte Wärmeverteilung und Kühlung, gleichmäßige Zuhaltekräfte, selbstzentrierende Einsätze und besseres Angießlayout.

Integrierte Wasserkühlung.

Das austauschbare Einsatzsystem der Round Mate®, gekoppelt mit dem vorgefertigten Kühlungssystem ist einzigartig. Dieses direkte Kühlungssystem nutzt die Vorteile einer zirkularen Kühlung.

Weil das Kühlungssystem integriert ist, entfallen die Kosten für zusätzliche Wasserkühlung in den Einsätzen. Wenn Sie zusätzliche Formkühlung benötigen, können Umlenkungen eingebaut werden, um Kerne zu kühlen, oder die Round Mate®-Einsätze können quergeböhrt werden.



♣ Verhoogde produktkwaliteit

Het Round Mate® systeem staat borg voor een gebalanceerde koeling en warmtehuishouding, een uniforme sluitkracht in de matrijs, een perfecte auto-centering van de inzetstukken en een uiterst efficiënte aansluitconfiguratie.

Geïntegreerd waterkoelcircuit

Het uitwisselbaar inzetpakket met geïntegreerd waterkoelcircuit is volkomen uniek in de spuitgiettechnologie. Dit rechtstreekse koelcircuit benut de voordelen van een gelijkmatige, circulaire koeling.

Aangezien het waterkoelcircuit in het systeem geïntegreerd is, worden kosten voor het aanbrengen van koelkanalen geëlimineerd. Indien een bepaalde toepassing echter bijkomende koeling vergt, kunnen er waterlifters in de kern, of diagonale boringen in het inzetstuk aangebracht worden.

♣ Meilleure qualité des pièces moulées

Le moule Round Mate® offre un transfert de chaleur et un refroidissement bien répartis, une pression de fermeture uniforme, des inserts à centrage automatique, et une disposition plus efficace des canaux d'injection.

Circuit de refroidissement intégré

Tout le système d'inserts interchangeables du Round Mate® ainsi que le principe du refroidissement sont tout à fait uniques dans l'industrie. Ce système de refroidissement direct présente les avantages d'un mouvement circulaire et uniforme de l'eau.

Puisque le circuit de refroidissement est intégré dans le système, on économise les coûts supplémentaires d'usinage des canalisations d'eau. Cependant, si un cas de figure exige des canaux supplémentaires, on peut forer dans les inserts et rajouter des lignes de refroidissement radiales ou axiales.

♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

♣ Matrijshuizen - Round Mate®
♠ Porte moules - Round Mate®

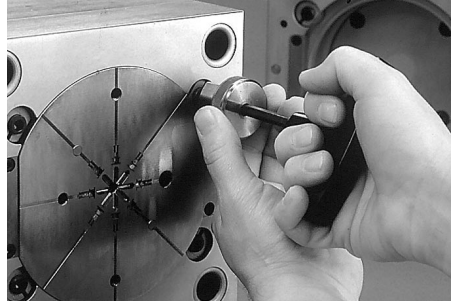
Info

♥ Round Mate® concept - Inch
♦ Round Mate® Konzept - Zoll

♣ Round Mate® concept - Duim
♠ Concept Round Mate® - Pouces

♥ 10 minute mold changes

The Round Mate® insert is easily inserted into the master frame and seats itself perfectly every time! A patented interlock system is engaged with just a turn of a simple T-handle wrench. Removal is just as easy. A reverse turn disengages the insert.



♦ Werkzeugwechsel innerhalb 10 Minuten

Der Round Mate®-Einsatz ist sehr leicht in den Hauptrahmen einzusetzen und hat jederzeit einen perfekten Sitz! Ein patentiertes Befestigungssystem wird über einen einfachen T-Schlüssel bedient. Die Demontage ist genauso leicht. Eine umgekehrte Drehung löst die Einsätze.

♥ Flexible design to fit your applications

Flexibility is a key advantage of the Round Mate® System. Many different shaped parts can be cut directly into the solid insert or traditional cavity segments can be used. Hot sprue bushings, slides and family mold designs can also be incorporated into the Round Mate® System.

♦ Flexible Konstruktion für ihre Anwendungen

Flexibilität ist ein Schlüsselvorteil des Round Mate®-Systems. Sehr viele unterschiedliche Teile können direkt in die Einsätze eingearbeitet werden oder es können traditionelle Formeinsätze eingebracht werden. Beheizte Angußbuchsen, Schieber und Wechseleinsätze können ebenso in das Round Mate®-System integriert werden.

♣ Een flexibel concept voor succesvolle toepassingen

Flexibiliteit is hét sleutelbegrip waarrond het Round Mate® systeem is opgebouwd. Tal van produktvormen kunnen rechtstreeks in de massa van het inzetstuk of in losse segmenten aangebracht worden. Het Round Mate® systeem functioneert uitstekend met verwarmde spuitneuzen en schuivenconstructies en kan uiteraard als seriematrijs ingeschakeld worden.

♠ Souplesse d'une conception bien adaptée

La souplesse de conception est un des principaux avantages du Round Mate®. Il est possible de tailler toutes sortes d'empreintes directement dans l'insert rond, ou plus traditionnellement d'y rapporter d'autres inserts. Le système Round Mate® fonctionne parfaitement avec des buses chaudes, des tiroirs et des empreintes rapportées interchangeables.

♥ Stepped insert pockets

Each insert's O-rings are kept in place by a special 'stepped-bore' design. This design prevents shearing upon insertion.

Sturdy construction

Round Mate's® master frame is made of high quality D-M-E tool steels and is Armoloy® plated throughout for durability and corrosion resistance.

Integral ejector system

With the Round Mate®, the ejector system becomes an integral part of the insert set that is loaded as a cartridge from the face of the mold. The ejector pins are housed in a unique ejector disc. For added flexibility, sleeve ejectors can be installed with additional core retainer plates.

♦ Abgesetztes Bohrungssystem für die Einsätze

Jeder O-Ring der Einsätze wird an seinen Platz durch ein abgesetztes Bohrungssystem gehalten. Diese Konstruktion verhindert eine Scherung der O-Ringe der Einsätze.

Stabiler Aufbau

Der Round Mate®-Rahmen ist aus qualitativ hochwertigem DME-Werkzeugstahl gefertigt und ist mit einer 'Armoloy®' (Chrom-Nickel) Oberflächenveredelung versehen, um ihn äußerst Korrosionsbeständig zu machen.

Integriertes Auswerfersystem

Mit dem Round Mate-System wird das Auswerfersystem ein integrierter Bestandteil des Einsatzpaares, das mit den Einsätzen von der Trennebene heraus in Position gebracht wird. Die Auswerferstifte werden in den runden Auswerferplatten gehalten. Für erhöhte Flexibilität können auch Hülsenauswerfer mit zusätzlichen Kernhalteplatten installiert werden.

♣ Trapvormige boringen voor de inzetstukken

Elk inzetstuk is voorzien van O-ringen die dankzij een speciale 'trapvormige uitsparing' op hun plaats gehouden worden. Deze constructie voorkomt beschadiging aan de O-ringen.

Solide constructie

De Round Mate® moedermatrijs is uit D-M-E kwaliteitsstaal vervaardigd en voorzien van een Armoloy®-laag die borg staat voor een grote duurzaamheid en hoge roestbestendigheid.

Integraal uitwerpsysteem

In het Round Mate® concept vormt het uitwerpsysteem een integraal onderdeel van het inzetpakket dat vanuit het deelvlak in de moedermatrijs geplaatst wordt. De uitwerppennen bevinden zich in een unieke ronde uitwerplaat. Uitwerphulzen en steunberen kunnen het systeem nog flexibeler maken.

♠ Alésages épaulés pour les inserts

Les joints toriques de chaque insert sont tenus en place dans un 'alésage à épaulements' spécialement conçu. Ce type d'alésage empêche le cisaillement des joints toriques pendant l'insertion.

Fabrication robuste

Le moule-mère Round Mate® est fabriqué en aciers à outils D-M-E et revêtu intégralement d'un dépôt d'Armoloy® qui assure la durabilité et la résistance à la corrosion.

Système éjecteur intégré

Avec le Round Mate®, la batterie d'éjection fait partie intégrante d'un insert, et l'ensemble est introduit en une pièce dans l'alésage correspondant. Les éjecteurs sont montés sur un disque éjecteur unique.

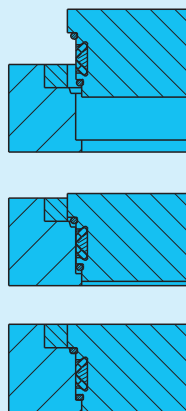
Pour plus de souplesse, il est possible d'installer des tubulaires moyennant le montage de plaques de retenue des broches centrales.

♥ Stepped insert pockets
♦ Abgesetztes Bohrungssystem für die Einsätze
♣ Trapvormige uitsparingen voor de inzetstukken
♠ Alésages épaulés pour les inserts

♥ Insert positioned for loading into master frame
♦ Einsatz positioniert zum Einbau in den Formrahmen
♣ Inzetstuk in positie voor plaatsing in de moedermatrijs
♠ Insert positionné pour introduction dans le moule-mère

♥ Insert is nearly seated and O-rings are pinch free
♦ Der Einsatz ist fast in Endposition und die O-Ringe sind noch nicht gepresst.
♣ Inzetstuk bijna in de uitkaming, O-ringen zitten nog niet geklemd
♠ Insert presque appuyé et joint torique toujours libre

♥ Insert is seated and clamped in pocket and O-rings seal
♦ Der Einsatz sitzt in seiner Tasche und ist festgeklemt, die O-Ringe dichten
♣ Inzetstuk vergrendeld in uitkaming, O-ringen dichten af
♠ Insert appuyé et joint torique comprimé dans son logement



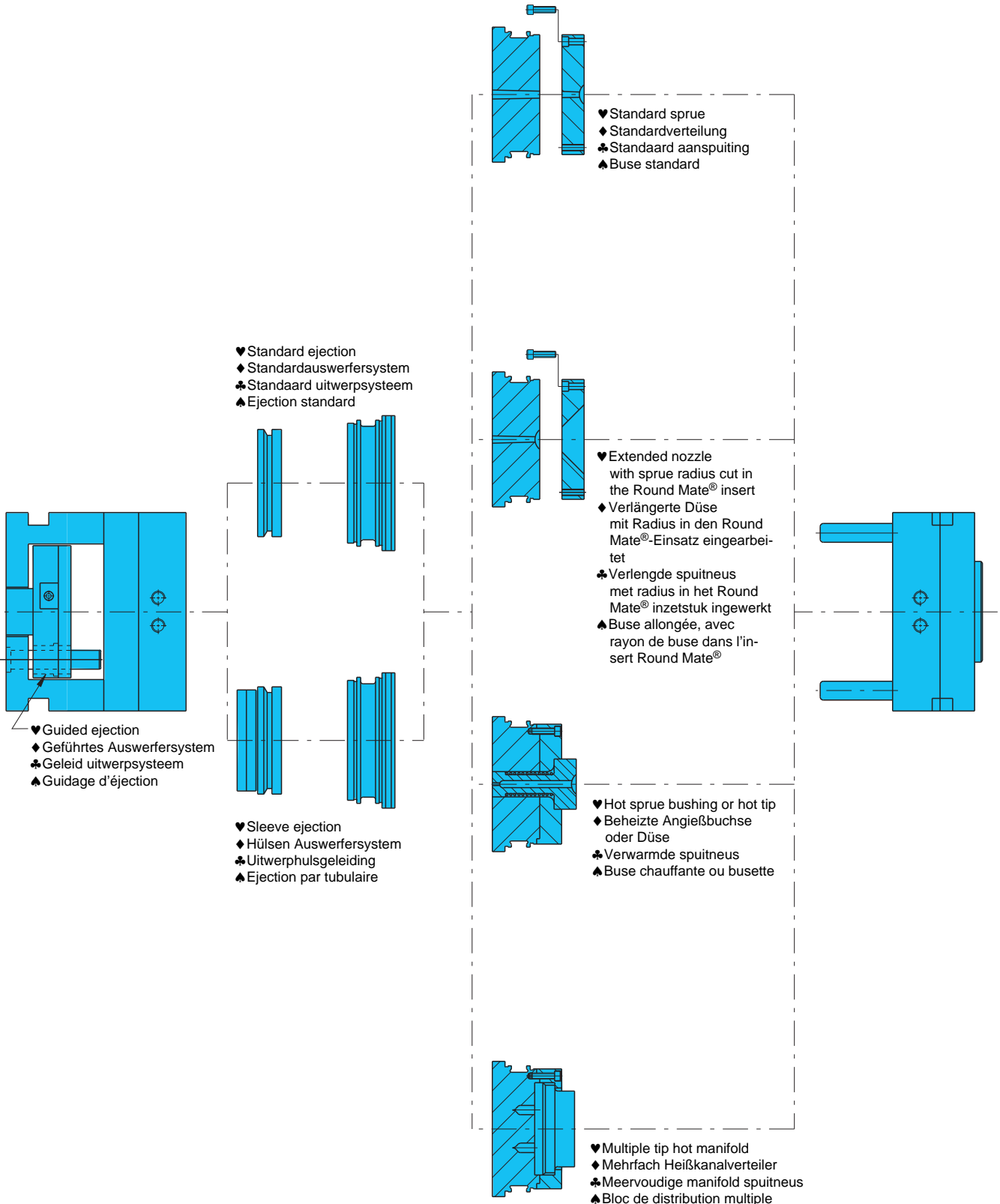
♥ Mold bases - Round Mate®
 ♦ Standardformen - Round Mate®

Matrijshuizen - Round Mate® ♣
 Porte moules - Round Mate® ♠

Info

♥ Standard center sprue system - Inch
 ♦ Gewöhnliches Stangenangußsystem - Zoll

Centrale kegelaanspuiting - Duim ♣
 Injection standard à carotte directe - Pouces ♠



♥ Mold bases - Round Mate®
 ♦ Standardformen - Round Mate®

Matrijshuizen - Round Mate® ♣
 Porte moules - Round Mate® ♠

Info

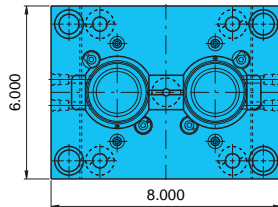
♥ Master frame choices - Inch
 ♦ Rahmenauswahlmöglichkeiten - Zoll

Moedermatrijsopties - Duim ♣
 Choix de moule-mère - Pouces ♠

2½" Round Mate®

- ♥ Two position master frame
- ♦ Zweifach Rahmensystem
- ♣ Tweevoudige moedermatrijs
- ♠ Moule-mère à deux positions

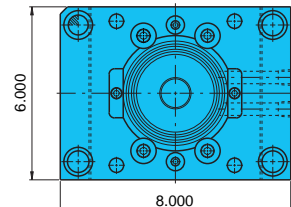
- ♥ Special order
- ♦ Auf Anfrage
- ♣ Op aanvraag
- ♠ Sur commande spéciale



4" Round Mate®

- ♥ Single position master frame
- ♦ Einfach Rahmensystem
- ♣ Enkelvoudige moedermatrijs
- ♠ Moule-mère à une position

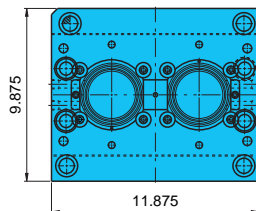
- ♥ Special order
- ♦ Auf Anfrage
- ♣ Op aanvraag
- ♠ Sur commande spéciale



4" Round Mate®

- ♥ Two position master frame
- ♦ Zweifach Rahmensystem
- ♣ Tweevoudige moedermatrijs
- ♠ Moule-mère à deux positions

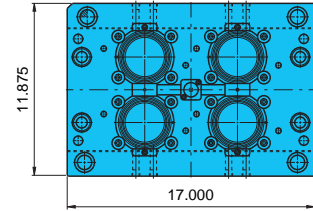
- ♥ Special order
- ♦ Auf Anfrage
- ♣ Op aanvraag
- ♠ Sur commande spéciale



4" Round Mate®

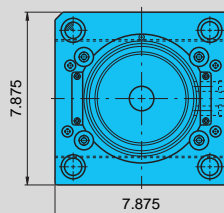
- ♥ Four position master frame
- ♦ Vierfach Rahmensystem
- ♣ Viervoudige moedermatrijs
- ♠ Moule mère à quatre positions

- ♥ Special order
- ♦ Auf Anfrage
- ♣ Op aanvraag
- ♠ Sur commande spéciale



6" Standard Round Mate®

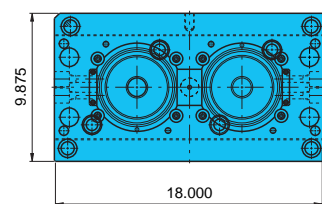
- ♥ Single position master frame
- ♦ Einfach Rahmensystem
- ♣ Enkelvoudige moedermatrijs
- ♠ Moule-mère à une position



6" Round Mate®

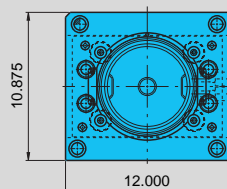
- ♥ Two position master frame
- ♦ Zweifach Rahmensystem
- ♣ Tweevoudige moedermatrijs
- ♠ Moule-mère à deux positions

- ♥ Special order
- ♦ Auf Anfrage
- ♣ Op aanvraag
- ♠ Sur commande spéciale



8" Standard Round Mate®

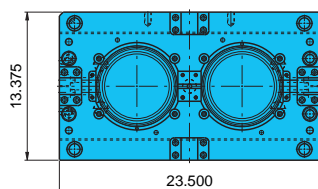
- ♥ Single position master frame
- ♦ Einfach Rahmensystem
- ♣ Enkelvoudige moedermatrijs
- ♠ Moule-mère à une position



8" Round Mate®

- ♥ Two position master frame
- ♦ Zweifach Rahmensystem
- ♣ Tweevoudige moedermatrijs
- ♠ Moule-mère à deux positions

- ♥ Special order
- ♦ Auf Anfrage
- ♣ Op aanvraag
- ♠ Sur commande spéciale



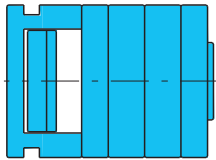
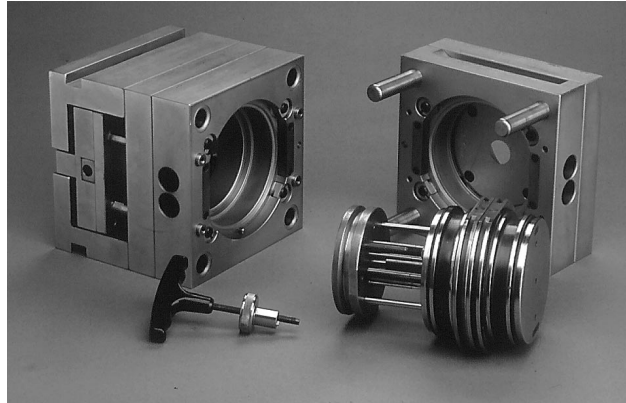
♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

Matrijshuizen - Round Mate® ♣
Porte moules - Round Mate® ♠

RMF 6"

♥ Single position master frame
♦ Einfach Rahmensystem

Enkelvoudige moedermatrijs ♣
Moule-mère à une position ♠



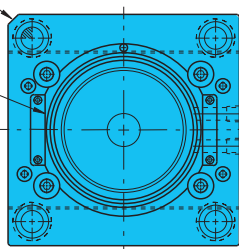
REF.	C	CC	H	S
RMF-0613	3*	4.9375	10.375	1.312
RMF-0614	4**	5.9375	11.375	2.312

♥ 2 RMC-0002 wrenches included
♦ Zwei RMC-0002-Schlüssel inklusive
♣ 2 RMC-0002 T-sleutels bijgeleverd
♠ 2 clés RMC-0002 comprises

♥* 3" C dimension is special order
** 4" C dimension is standard
♦* 3" C-Maß auf gesonderte Anfrage
** 4" C-Maß ist Standard
♣* 3" C afmeting op aanvraag
** 4" C afmeting is standaard
♠* dimension C = 3" sur demande
** dimension C = 4" standard

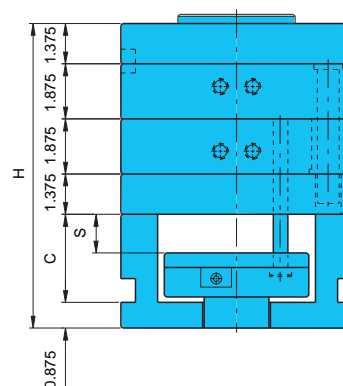
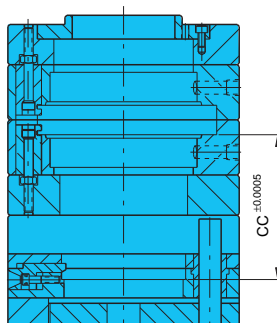
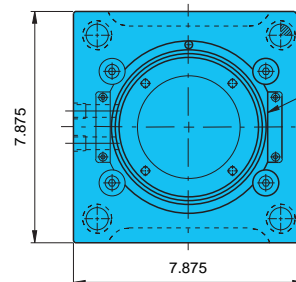
♥ Zero corner of mold
♦ O-Ecke der Form
♣ Referentiehoek van de matrijs
♠ Coin de référence du moule

♥ Zero flat of 'B' insert
♦ Referenzflachseite des 'B'-Einsatzes
♣ Referentievlak van inzetstuk 'B'
♠ Méplat de référence de l'insert 'B'



♥ Zero corner of mold
♦ O-Ecke der Form
♣ Referentiehoek van de matrijs
♠ Coin de référence du moule

♥ Zero flat of 'A' insert
♦ Referenzflachseite des 'A'-Einsatzes
♣ Referentievlak van inzetstuk 'A'
♠ Méplat de référence de l'insert 'A'



♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

Matrijshuizen - Round Mate® ♣
Porte moules - Round Mate® ♠

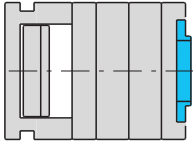
RMC 6"

♥ Single position components
♦ Einfachrahmen-Zubehör

Enkelvoudige moedermatrijs - Toebehoren ♣
Moule-mère à une position - Composants ♠

♥ Locating rings
♦ Stangenangauß-Scheibe

Centreerringen ♣
Anneaux de centrage ♠



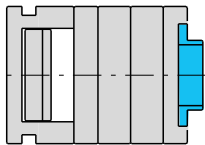
REF.	Mat	REF.	Mat	REF.	Mat
RMC-6020	4140	RMC-6021	4140	RMC-6024	4140

♥ 5/16 mounting screws included
♦ 5/16 Befestigungsschrauben inklusive

5/16 schroefbouten worden bijgeleverd ♣
Vis de montage de 5/16 livrées avec le système ♠

♥ Extended locating rings
♦ Größere Zentrierringe

Verhoogde centreerringen ♣
Anneaux de centrage épais ♠



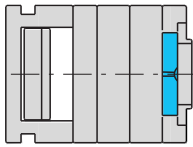
REF.	Mat	REF.	Mat
RMC-6022	4140	RMC-6023	4140

♥ 5/16 mounting screws included
♦ 5/16 Befestigungsschrauben inklusive

5/16 schroefbouten worden bijgeleverd ♣
Vis de montage de 5/16 livrées avec le système ♠

♥ Sprue bushing discs
♦ Stangenangauß-Scheibe

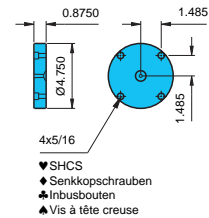
Verloopstuk voor
kegelaanspuiting ♣
Disque d'injection ♠



REF.	Mat	REF.	Mat	REF.	Mat	REF.	Mat
RMC-6030	6150 H.T.	RMC-6031	6150 H.T.	RMC-6032	6150 H.T.	RMC-6033	6150 H.T.

♥ 5/16 mounting screws included
♦ 5/16 Befestigungsschrauben inklusive

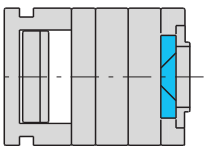
5/16 schroefbouten worden bijgeleverd ♣
Vis de montage de 5/16 livrées avec le système ♠



♥ Sprue bushing disc and extended nozzle disc bolt into master frame with bolt pattern shown
♦ Angieß-Platte und Platte für Tauchdüsen sind mit dem Rahmen verstiftet wie bei dem gezeigten Lochbild
♣ Het verloopstuk voor kegelaanspuiting en het verloopstuk voor verlengde spuitneuzen worden volgens bijgevoegd schema in de moeder-matrijs vastgemaakt
♠ Le disque d'injection et l'anneau pour buse machine allongée se vissent dans le moule-mère de la manière illustrée

♥ Extended nozzle discs
♦ Größere Düsen-scheibe

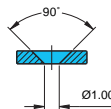
Verloopstuk voor
verlengde spuitneuzen ♣
Anneaux pour buse
de presse allongée ♠



REF.	Mat
RMC-6038	6150 H.T.

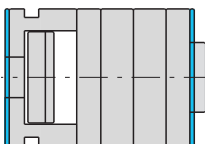
♥ 5/16 mounting screws included
♦ 5/16 Befestigungsschrauben inklusive

5/16 schroefbouten worden bijgeleverd ♣
Vis de montage de 5/16 livrées avec le système ♠

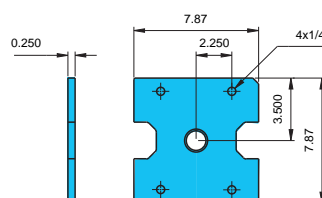


♥ Insulation board - Optional
♦ Isolierplatte - Zusätzlich

Isolatieplaat - Optioneel ♣
Panneau isolant - Optionnel ♠



REF.	REF.
RMC-6051	RMC-6050



♥ Mounting hole locations typical to both 'A' & 'B' platen.
Transfer hole locations to master frame.
Screws are supplied.
♦ Befestigungsschraubenlöcher-Position typisch für beide 'A' 'B'.
Durchgangslöcher zum Rahmen.
Schrauben werden mitgeliefert.
♣ Lokatie van de schroefboutgaten typisch voor 'A' en 'B'.
Brenge de lokatie van de boutgaten over op de moedermatrijs.
Bouten worden bijgeleverd.
♠ Emplacements des trous de montage typiques pour panneaux 'A' et 'B'.
Transférer les emplacements des trous au moule-mère.
Les vis sont livrées avec le système.

♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

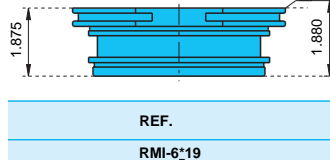
Matrijshuizen - Round Mate® ♣
Porte moules - Round Mate® ♠

RMI 6"

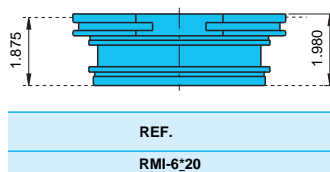
♥ Single position inserts
♦ Einfachpositions-Einsätze

♥ Water dam and safety strap included
♦ Kühlkanalabschottung und Sicherheitsbefestigung inklusive
Waterdam en veiligheidsbevestiging inbegrepen
Bouchon anti-reflux et barrette de sécurité compris

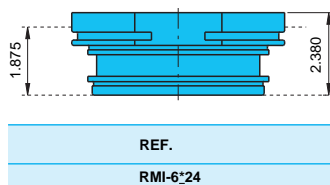
♥ Standard insert ♦ Standard-Einsatz
♣ Standaard inzetstuk ♠ Insert standard



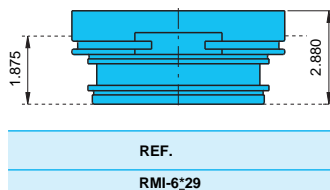
♥ 0.100 stand-up ♦ 0.100 Erweiterung
♣ 0.100 overmaat ♠ Surépaisseur de 0.100



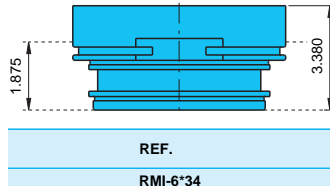
♥ 0.500 stand-up ♦ 0.500 Erweiterung
♣ 0.500 overmaat ♠ Surépaisseur de 0.500



♥ 1.000 stand-up ♦ 1.000 Erweiterung
♣ 1.000 overmaat ♠ Surépaisseur de 1.000

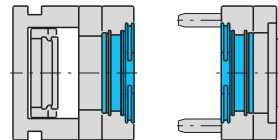


♥ 1.500 stand-up ♦ 1.500 Erweiterung
♣ 1.500 overmaat ♠ Surépaisseur de 1.500



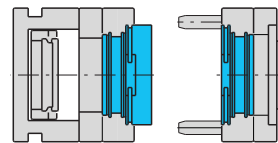
♥* Add steel code to complete REF. no.
♦* Füge die Stahlsorte hinzu um die Referenznummer zu vervollständigen
♣* Voeg de code van de gewenste staalkwaliteit aan het REF.-nummer toe
♠* Ajouter le code acier pour compléter le no. de référence

Enkelvoudige moedermatrijs - Inzetstukken ♣
Inserts pour moule-mère à une position ♠



♥ Standard 'A' & 'B' Standaard 'A' en 'B' ♣

♦ Standard 'A' und 'B'-Platten 'A' et 'B' standard ♠

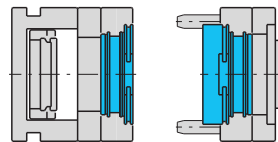


♥ Standard 'A' Standaard 'A' ♣

♦ Standard 'A' Stand-up 'B' Overmaat 'B' ♣

♦ Standard 'A' Erweiterung 'B' 'A' standard ♠

'B' avec épaisseur



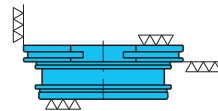
♥ Stand-up 'A' Overmaat 'A' ♣

♦ Standard 'B' Standaard 'B' ♣

♦ Erweiterung 'A' 'A' avec épaisseur ♠

Standard 'B' 'B' standard

♥ Grind stock ♦ Schleifaufmaß
♣ Slijpovermaat ♠ Surépaisseur pour rectification



♥ H-13 ≡ 1.2344, S-7 (Cr Mo) & 420SS ≡ 1.2083 heat treatable inserts have 0.005 grind stock left on surfaces shown for grind after heat treatment

♦ H-13 ≡ 1.2344, S-7 (Cr Mo) und 420SS ≡ 1.2083 wärmebehandlungsfähige Einsätze haben 0.005 Schleifaufmaß an der Stirnseite der Einsätze wie gezeigt, zum Schleifen nach der Wärmebehandlung

♣ H-13 ≡ 1.2344, S-7 (Cr Mo) en 420SS ≡ 1.2083 hardbare inzetstukken hebben 0.005 overmaat op de aangeduide oppervlakken. Afslijpen na de warmtebehandeling.

♠ Les inserts en H-13 ≡ 1.2344, S-7 (Cr Mo) et 420SS ≡ 1.2083 destinés au traitement thermique ont une surépaisseur de 0.005 sur les surfaces indiquées, à enlever par rectification après le traitement.

♥ Available steel ♦ Lieferbare Stahlsorten
♣ Beschikbare staalkwaliteiten ♠ Types d'acier disponibles

♥ * Code ♦ * Schlüssel ♣ * Code ♠ * Code	♥ * Steel ♦ * Stahl ♣ * Staal ♠ * Acier
3	P-20 ≡ 1.2311
4	S-7 ≡ (Cr Mo)
5	H-13 ≡ 1.2344
6	420SS ≡ 1.2083
8	♥ 420SS ≡ 1.2083 pre heat treated ♦ 420SS ≡ 1.2083 vorvergütet ♣ 420SS ≡ 1.2083 voorveredeld ♠ 420SS ≡ 1.2083 avant traitement thermique

♥* Use code number above to complete REF. no. for inserts
♦* Benützen Sie den o.g. Stahlschlüssel um die Referenznummer für die Einsätze zu vervollständigen
♣* Gebruik bovenstaand codenummer om het REF.-nummer voor inzetstukken te vervullen
♠* Utiliser le code indiqué plus haut pour compléter le no. de référence des inserts

♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

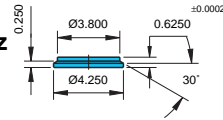
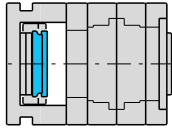
Matrijshuizen - Round Mate® ♣
Porte moules - Round Mate® ♠

RMC 6"

♥ Single position insert components
♦ Einfacheinsätze-Zubehör

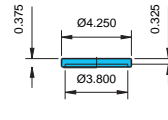
Enkelvoudige moedermatrijs - Inzetstuk-toebehoren ♣
Inserts pour moule-mère à une position - Composants ♠

♥ Ejector plate assembly
♦ Auswerferplatten-Bausatz



REF.	Mat
RMC-6003	CRS

♥ Ejector plate
♦ Auswerferplatte
♣ Uitwerplaat
♠ Plaque éjectrice

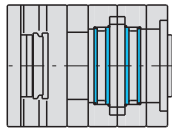


REF.	Mat
RMC-6002	CRS

Uitwerppakket ♣
Batterie d'éjection ♠

♥ Ejector retainer plate
♦ Auswerferhalteplatte
♣ Uitwerpdeklep
♠ Contre plaque éjectrice

♥ O-rings
♦ O-Ring



Mat. Buna-N



REF.	♥ Set ♦ Satz ♣ Set ♠ Jeu Pcs/St.
RMC-6015	2

♥ Also available in multiple sets (see page 2d-17)
♦ Auch erhältlich in mehrfach Packung (Seite 2d-17)

Mat. Viton - h. T°

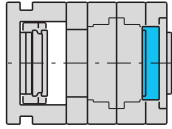


REF.	♥ Set ♦ Satz ♣ Set ♠ Jeu Pcs/St.
RMC-6017	2

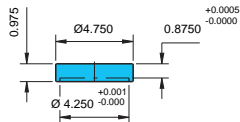
Ook leverbaar in grotere verpakkingen (zie pag 2d-17) ♣
Livrabile également en jeux multiples (voir page 2d-17) ♠

O-ringen ♣
Joints toriques ♠

♥ Top clamp plate
♦ Obere Aufspannplatte



♥ Optional
♦ Zusätzlich
♣ Optioneel
♠ Optionnel

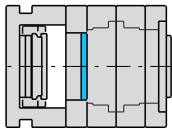


REF.	Mat
RMC-6007	4140

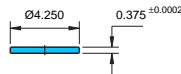
Bovenste opspanplaat ♣
Semelle supérieure ♠

♥ Remove sprue bushing disc/extended nozzle disc from master frame
♦ Entferne die Anguß- oder erweiterte Düsen Scheibe vom Formenrahmen
♣ Verwijder het verloopstuk voor kegelaansluiting of voor verlengde spuitneuzen uit de moedermatrijs
♠ Elimine du moule-mère le disque d'injection ou l'anneau pour buse de presse

♥ Core retainer plate
♦ Kernhalteplatte



♥ Optional
♦ Zusätzlich
♣ Optioneel
♠ Optionnel

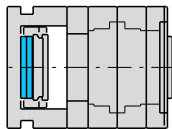


REF.	Mat
RMC-6005	CRS

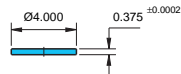
Steunplaat ♣
Plaque de retenue de broches-noyaux ♠

♥ Attaches to 'B' insert to retain core pins.
♦ Zusätze zu den 'B-Einsätze' für Kernstifte
♣ Wordt aan inzetstuk 'B' bevestigd om de kern-pennen vast te houden
♠ S'attache à l'insert 'B' pour retenir les broches-noyaux

♥ Sleeve ejection core retainer plates
♦ Hülsenauswerfer, Kernhalteplatten



♥ Optional
♦ Zusätzlich
♣ Optioneel
♠ Optionnel

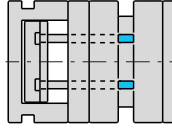


REF.	Mat
RMC-6004	CRS

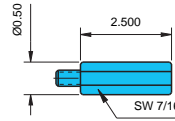
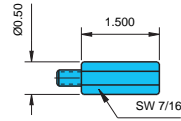
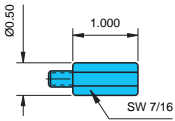
Steunplaten voor uitwerphulzen ♣
Plaque de retenue pour tubulaires ♠

♥ 2 plates required for one assembly
♦ 2 Platten sind notwendig für einen Einsatz
♣ 2 platen nodig voor één pakket
♠ 2 plaques nécessaires pour un ensemble

♥ Return pin extensions
♦ Rückdruckstifte-Erweiterung



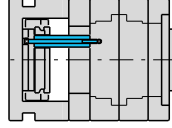
♥ Optional
♦ Zusätzlich
♣ Optioneel
♠ Optionnel



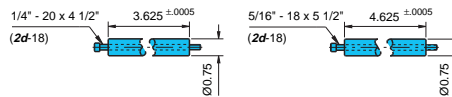
REF.	REF.	REF.
RMC-6040	RMC-6041	RMC-6042

Verlengstukken voor terugstootpennen ♣
Rallonges pour broches de rappel ♠

♥ Sleeve ejection support pillars
♦ Hülsenauswerferstützbolzen



♥ Optional
♦ Zusätzlich
♣ Optioneel
♠ Optionnel

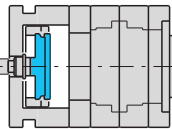


REF. ①	Mat	REF. ②	Mat
RMC-0023	4140	RMC-0024	4140

Steunkolommen voor uitwerphulzen ♣
Colonnes de support pour tubulaires ♠

♥ Use ① with 3" and ② with 4" 'C' ejector housing
♦ Verwendung ① mit 3" und ② mit 4" 'C'-Auswerfergehäuse
♣ Gebruik ① met 3" en ② met 4" 'C' uitwerphuis
♠ Utiliser ① avec cage d'éjection 'C' de 3" et ② avec 4"

♥ Quick connect ejector plate
♦ Schnellverbindungs-auswerferplatte



♥ Optional
♦ Zusätzlich
♣ Optioneel
♠ Optionnel



REF.	Mat
RMC-6006	CRS

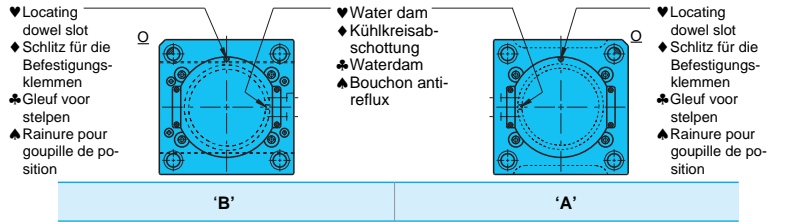
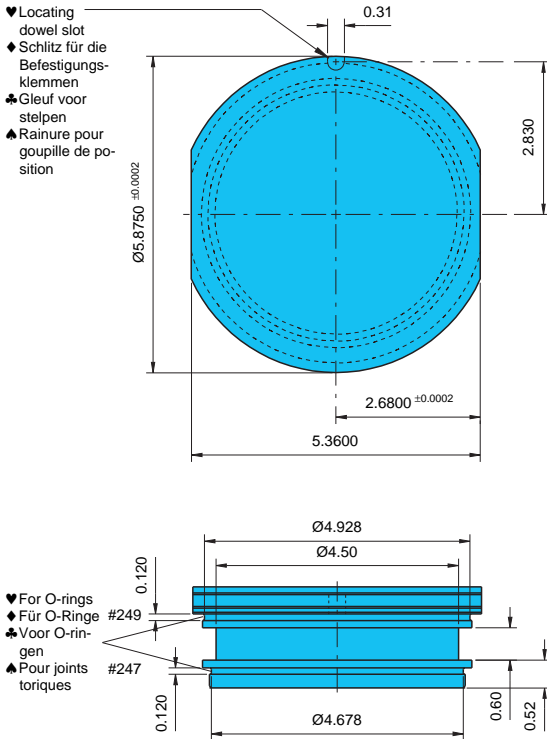
Snelkoppeling-uitwerplaat ♣
Plaque éjectrice à accouplement rapide ♠

♥ Also see pages 2d-17/2d-18 for additional component items
♦ Siehe auch Seite 2d-17/2d-18 für zusätzliche Teile

Zie pagina's 2d-17/2d-18 voor aanvullende componenten ♣
Pour tous composants additionnels, voir aussi pages 2d-17/2d-18 ♠

Info

♥ Inserts 6" ♦ Einsätze 6"

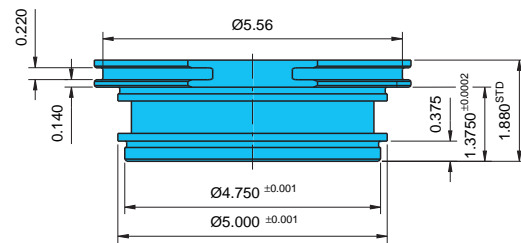


♥ The 'A' insert is the same as the 'B' insert except the water dam location.
Toolmaker is to install the water dam.
Water dam is to line up with water inlet/outlet in master frame.

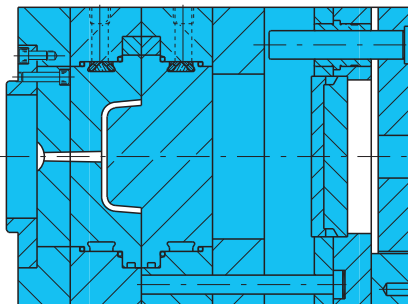
♦ Kühlkanalabschottung der 'A'-Einsatz ist der gleiche wie der 'B'-Einsatz mit Ausnahme der Position für die Kühlkreisabschottung.
Die Kühlkreisabschottung ist von dem Werkzeugmacher zu installieren. Die Kühlkreisabschottung ist an den Wasserein- bzw. Wasserauslauf im Hauptrahmen abzugleichen.

♣ Inzetstuk 'A' is gelijk aan inzetstuk 'B', met uitzondering van de waterdamlokatie.
De waterdam wordt door de matrijzenmaker geïnstalleerd.
Waterdam moet afgestemd worden op de watertoevoer en -afvoer bij de moedermatrix.

♠ L'insert 'A' est le même que l'insert 'B', sauf pour l'emplacement du bouchon.
C'est l'outilier qui doit installer le bouchon anti-reflux.
Le bouchon anti-reflux doit séparer l'arrivée et la sortie d'eau dans le moule mère.



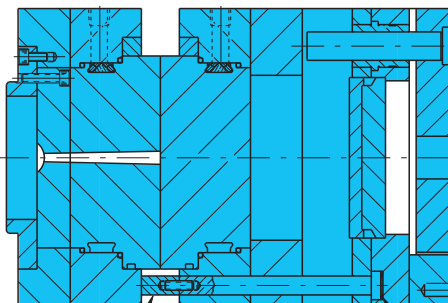
♥ Insert stand up ♦ Dickere Einsätze



♥ Insert stand up can also be used to leave coring solid in the insert.
♦ Dickere Einsätze können auch dazu benutzt werden direkt Kerne in den Einsätzen zu bilden.
♣ Inzetstukken met dikte-overmaat kunnen ook als kernplaat gebruikt worden.
♠ La surépaisseur de l'insert peut également servir à intégrer des broches ou noyaux directement dans l'insert.

Inzetstukken met dikte-overmaat ♣ Surépaisseur de l'insert ♠

♥ Extended parting line ♦ Erweiterte Formtrennungslinie



♥ Section showing Round Mate® mold inserts with extended parting line.
Insert stand up allows for extended parting line which gives more thickness for cavity depth.

♦ Der Schnitt zeigt, Round Mate®-Einsätze mit erweiterter Formtrennung.
Dickere Einsätze erlauben es tiefere Kavitäten einzuarbeiten.

♣ Doorsnede van Round Mate® inzetstukken met verhoogde matrijsdeellijn.
De dikte-overmaat van de inzetstukken laat een verhoogde deellijn toe, waardoor diepere vormholten mogelijk worden.

♠ Section montrant les inserts de moule Round Mate® avec plan de joint surélevé. La surépaisseur de l'insert permet de surélever le plan de joint, ce qui donne une plus grande épaisseur pour la profondeur de l'empreinte.

♥ Return pin extension shown in place
♦ Die Rückdruckstiftverlängerung ist hier in Position sichtbar
♣ Terugstootpen met verlengstuk in positie
♠ Rallonge pour broche de rappel illustrée en position

♥ Disc springs under the return pins allow up to 0.015 variance in insert thickness, such as grind stock or parting line crush

♦ Tellerfedern unter den Rückdruckstiften erlauben bis zu 0.015 Abweichungen in der Einsatzdicke für Schleifaufmaß etc.

♣ Schijfveren onder de terugstootpen laten een speling van 0.015 in de dikte van het inzetstuk toe, voor slijpovermaat enz.

♠ Les rondelles Belleville sous les broches de rappel autorisent une tolérance de maximum 0.015 sur l'épaisseur de l'insert, aux fins de rectification etc.

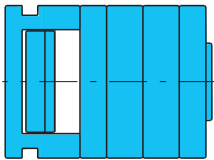
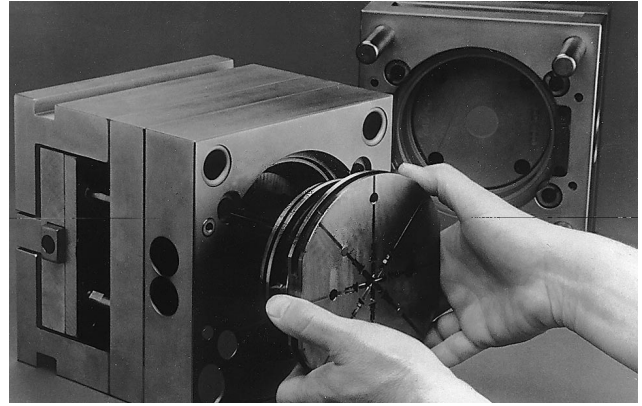
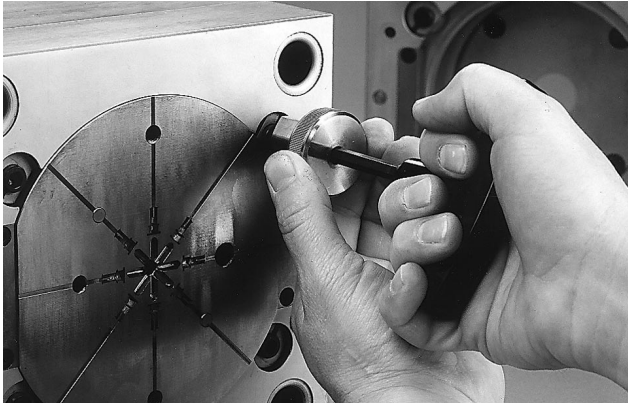
♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

Matrijshuizen - Round Mate® ♣
Porte moules - Round Mate® ♠

RMF 8"

♥ Single position master frame
♦ Einfacheinsatz Rahmen

Enkelvoudige moedermatrijs ♣
Moule-mère à une position ♠



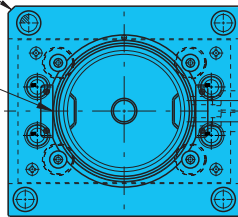
REF	C	CC	H	P	S
RMF-0813	3**	5.3125	11.875	1.375	1.312
RMF-0814	4*	7.3125	13.875	2.375	2.312
RMF-0815	5**	8.3125	14.875	2.375	3.312

♥ 2 RMC-0002 wrenches included
♦ 2 RMC-0002-Schlüssel inklusive
♣ 2 RMC-0002 moersleutels bijgeleverd
♠ 2 clés RMC-0002 comprises

♥** 3" C dimension is special order
* 4" C dimension is standard
** 5" C dimension is special order
♦** 3" C-Maß auf gesonderte Anfrage
* 4" C-Maß ist Standard
** 5" C-Maß auf gesonderte Anfrage
♣** 3" C afmeting op aanvraag
* 4" C afmeting is standaard
** 5" C afmeting op aanvraag
♠** dimension C de 3" sur commande
* dimension C de 4" est standard
** dimension C de 5" sur commande

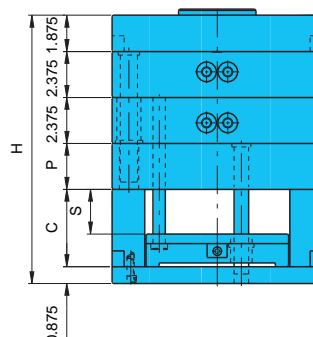
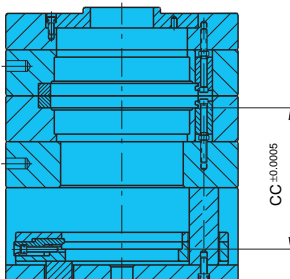
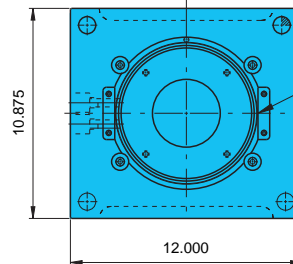
♥ Zero corner of mold
♦ O-Ecke der Form
♣ Referentiehoek van de matrijs
♠ Coin de référence du moule

♥ Zero flat of 'B' insert
♦ Referenzflachseite des 'B'-Einsatzes
♣ Referentievlak van inzetstuk 'B'
♠ Méplat de référence de l'insert 'B'



♥ Zero corner of mold
♦ O-Ecke der Form
♣ Referentiehoek van de matrijs
♠ Coin de référence du moule

♥ Zero flat of 'A' insert
♦ Referenzflachseite des 'A'-Einsatzes
♣ Referentievlak van inzetstuk 'A'
♠ Méplat de référence du moule



♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

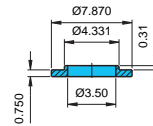
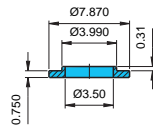
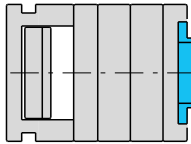
Matrijshuizen - Round Mate® ♣
Porte moules - Round Mate® ♠

RMC 8"

♥ Single position components
♦ Einfacheinsätze-Zubehör

Enkelvoudige moedermatrijs - Toebehoren ♣
Composants pour moule-mère à une position ♠

♥ Locating rings
♦ Zentrierringe



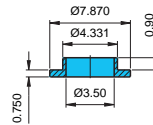
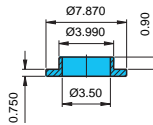
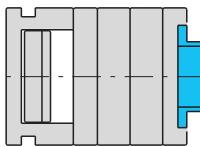
REF.	Mat	REF.	Mat
RMC-8020	4140	RMC-8021	4140

♥ 5/16 mounting screws included
♦ 5/16 Befestigungsschrauben inklusive

5/16 schroefbouten worden bijgeleverd ♣
Vis de montage 5/16 comprises ♠

Centreerringen ♣
Anneaux de centrage ♠

♥ Extended locating rings
♦ Vergrößerter Zentrierring



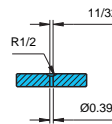
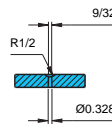
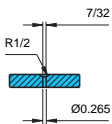
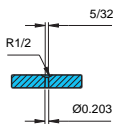
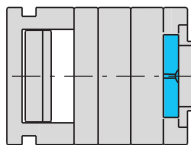
REF.	Mat	REF.	Mat
RMC-8022	4140	RMC-8023	4140

♥ 5/16 mounting screws included
♦ 5/16 Befestigungsschrauben inklusive

5/16 schroefbouten worden bijgeleverd ♣
Vis de montage 5/16 comprises ♠

Verhoogde centreerringen ♣
Anneaux de centrage plus épais ♠

♥ Sprue bushing discs
♦ Angieß-Platte

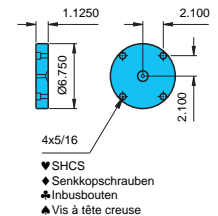


REF.	Mat	REF.	Mat	REF.	Mat	REF.	Mat
RMC-8030	6150 H.T.	RMC-8031	6150 H.T.	RMC-8032	6150 H.T.	RMC-8033	6150 H.T.

♥ 5/16 mounting screws included
♦ 5/16 Befestigungsschrauben inklusive

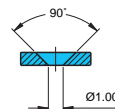
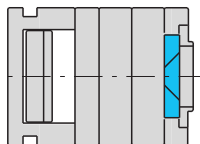
5/16 schroefbouten worden bijgeleverd ♣
Vis de montage 5/16 comprises ♠

Verloopstuk voor ♣
kegelaanspuiting
Disque d'injection ♠



♥ Sprue bushing disc and extended nozzle disc bolt into master frame with bolt pattern shown
♦ Angieß-Platte und Platte für Tauchdüsen sind mit dem Rahmen verstiftet wie bei dem gezeigten Lochbild
♣ Het verloopstuk voor kegelaanspuiting en het verloopstuk voor verlengde spuitneuzen worden volgens bijgevoegd schema in de moeder-matrijs vastgemaakt
♠ Le disque d'injection et l'anneau pour buse machine allongée se vissent dans le moule-mère de la manière illustrée

♥ Extended nozzle discs
♦ Erweiterte Angieß-Platte



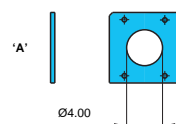
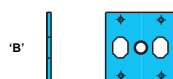
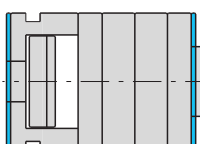
REF.	Mat
RMC-8038	6150 H.T.

♥ 5/16 mounting screws included
♦ 5/16 Befestigungsschrauben inklusive

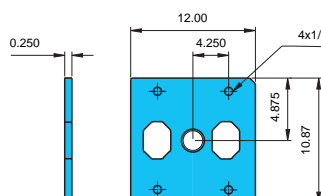
5/16 schroefbouten worden bijgeleverd ♣
Vis de montage 5/16 comprises ♠

Verloopstuk voor ♣
verlengde spuitneuzen
Anneaux pour buse
machine allongée ♠

♥ Insulation board - Optional
♦ Isolierplatten - Zusätzlich



REF.	REF.
RMC-8051	RMC-8050



Isolatieplaat - Optioneel ♣
Panneau isolant - Optionnel ♠

♥ Mounting hole locations typical to both 'A' & 'B'. Transfer hole locations to master frame. Socket head countersunk screws are supplied.
♦ Befestigungsbohrungs-Positionen für beide 'A' und 'B'-Platten. Durchgangsbohrungspositionen zum Rahmen. Die Senkkopfschrauben werden mitgeliefert.
♣ Lokatie van de schroefboutgaten typisch voor 'A' en 'B' platen. Breek de lokatie van de boutgaten over op de moedermatrijs. Binnenskeskantschroeven worden bijgeleverd.
♠ Emplacements des trous de montage typiques pour panneaux 'A' et 'B'. Transférer les emplacements des trous au moule-mère. Les vis creuses sont livrées avec le système.

♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

Matrijshuizen - Round Mate® ♣
Porte moules - Round Mate® ♠

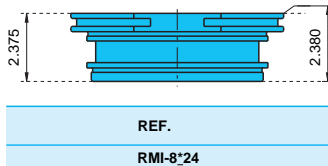
RMI 8"

♥ Single position inserts
♦ Einfachrahmen-Einsätze

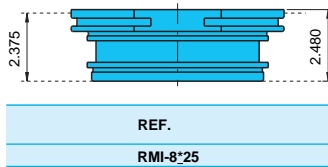
Enkelvoudige moedermatrijzen - Inzetstukken ♣
Inserts pour moule-mère à une position ♠

♥ Water dam and safety strap included
♦ Kühlkanalabschottung und Sicherheitsbefestigung inklusive
Waterdam en veiligheidsbevestiging worden bijgeleverd
Bouchon anti-reflux et barrette de sécurité compris

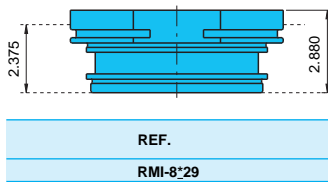
♥ Standard insert ♦ Standard-Einsatz
♣ Standaard inzetstuk ♠ Insert standard



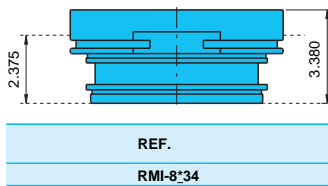
♥ 0.100 stand-up ♦ 0.100 Erweiterung
♣ 0.100 overmaat ♠ Surépaisseur de 0.100



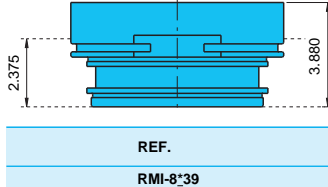
♥ 0.500 stand-up ♦ 0.500 Erweiterung
♣ 0.500 overmaat ♠ Surépaisseur de 0.500



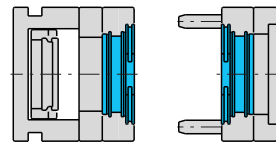
♥ 1.000 stand-up ♦ 1.000 Erweiterung
♣ 1.000 overmaat ♠ Surépaisseur de 1.000



♥ 1.500 stand-up ♦ 1.500 Erweiterung
♣ 1.500 overmaat ♠ Surépaisseur de 1.500

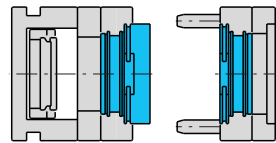


♥* Add steel code to complete REF. no.
♦* Fügen Sie die Stahlsorte hinzu um die Bestell-Nummer zu ergänzen
♣* Voeg de code van de gewenste staalkwaliteit toe aan het REF.-nummer
♠* Ajouter le code acier pour compléter le no. de référence



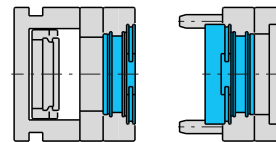
♥ Standard 'A' & 'B' Standaard 'A' en 'B' ♣

♦ Standard 'A' und 'B'-Platten 'A' et 'B' standard ♠



♥ Standard 'A' Stand-up 'B' Standaard 'A' Overmaat 'B' ♣

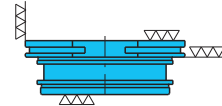
♦ Standard 'A' Erweiterung 'B' 'A' standard ♠ 'B' avec épaisseur



♥ Stand-up 'A' Standard 'B' Overmaat 'A' ♣

♦ Erweiterung 'A' Standard 'B' 'A' avec épaisseur ♠ 'B' standard

♥ Grind stock ♦ Schleifaufmaß
♣ Slijpovermaat ♠ Surépaisseur pour rectification



♥ H-13 ≡ 1.2344, S-7 (Cr Mo) and 420SS ≡ 1.2083 heat treatable inserts have 0.005 grind stock left on surfaces shown for grind after heat treat
♦ H-13 ≡ 1.2344, S-7 (Cr Mo) and 420SS ≡ 1.2083 warmtebehandelbare Stähle haben 0.005 Schleifaufmaß an der Oberfläche wie gezeigt zum Schleifen nach der Wärmebehandlung
♣ H-13 ≡ 1.2344, S-7 (Cr Mo) en 420SS ≡ 1.2083 hardbare inzetstukken hebben 0.005 overmaat op de aangeduide oppervlakken. Afslijpen na de warmtebehandeling.
♠ Les inserts en H-13 ≡ 1.2344, S-7 (Cr Mo) et 420SS ≡ 1.2083 destinés au traitement thermique ont une surépaisseur de 0.005 sur les surfaces indiquées, à enlever par rectification après le traitement.

♥ Available steel ♦ Verfügbare Stähle
♣ Beschikbare staalkwaliteiten ♠ Types d'acier disponibles

♥ * Code ♦ * Stahlschlüssel ♣ * Code ♠ * Code	♥ * Steel ♦ * Stahl ♣ * Staal ♠ * Acier
3	P-20 ≡ 1.2311
4	S-7 ≡ (Cr Mo)
5	H-13 ≡ 1.2344
6	420SS ≡ 1.2083
8	♥ 420SS pre heat treated ♦ 420SS vorvergütet ♣ 420SS voorveredeld staal ♠ 420SS avant traitement thermique

♥* Use code number above to complete REF. no. for inserts
♦* Benützen Sie die Schlüssel-Nummer wie oben um die Bestell-Nummer zu ergänzen
♣* Gebruik bovenstaand codenummer om het REF.-nummer voor inzetstukken te vervolledigen
♠* Utiliser le code indiqué plus haut pour compléter le no. de référence des inserts

- ♥ Mold bases - Round Mate®
- ♦ Standardformen - Round Mate®

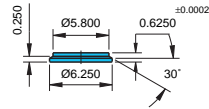
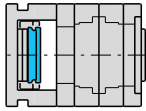
- Matrijshuizen - Round Mate® ♣
- Porte moules - Round Mate® ♠

RMC 8"

- ♥ Single position insert components
- ♦ Einfach-Einsatz Teile

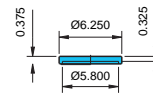
- Enkelvoudige moedermatrijs - Inzetstuk-toebehoren ♣
- Inserts pour moule-mère à une position - Composants ♠

- ♥ Ejector plate assembly
- ♦ Auswerferplatten-Paar



REF.	Mat
RMC-8003	CRS

- ♥ Ejector plate
- ♦ Auswerferplatte
- ♣ Uitwerpplaat
- ♠ Plaque éjectrice

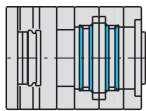


REF.	Mat
RMC-8002	CRS

- Uitwerppakket ♣
- Batterie d'éjection ♠

- ♥ Ejector retainer plate
- ♦ Auswerferhalteplatte
- ♣ Uitwerppdeksplaat
- ♠ Contre plaque d'éjection

- ♥ O-rings
- ♦ O-Ringe



Mat. Buna-N

REF.	♥ Set ♦ Satz ♣ Set ♠ Jeu
RMC-8015	2 Pcs/St.

♥ Also available in multiple sets (see page 2d-17)
♦ Auch erhältlich in mehrfach Packung (Seite 2d-17)

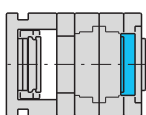
Mat. Viton - h. T°

REF.	♥ Set ♦ Satz ♣ Set ♠ Jeu
RMC-8017	2 Pcs/St.

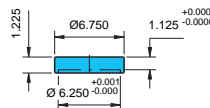
Ook leverbaar in grotere verpakkingen (zie pag 2d-17) ♣
Livrabile également en jeux multiples (voir page 2d-17) ♠

- O-ringen ♣
- Joints toriques ♠

- ♥ Top clamp plate
- ♦ Obere Aufspannplatte



- ♥ Optional
- ♦ Zusätzlich
- ♣ Optioneel
- ♠ Optionnel

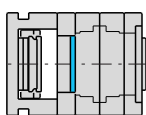


REF.	Mat
RMC-8007	4140

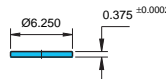
- Bovenste opspanplaat ♣
- Semelle supérieure ♠

- ♥ Remove sprue bushing disc/extended nozzle disc from master frame
- ♦ Entferne Angußplatte und erweiterte Düsenplatte vom Rahmen
- ♣ Verwijder het verloopstuk voor kegelaansluiting of voor verlengde spuitneuzen uit de moedermatrijs
- ♠ Élimine du moule-mère le disque d'injection ou l'anneau pour buse de presse

- ♥ Core retainer plate
- ♦ Kernhalteplatte



- ♥ Optional
- ♦ Zusätzlich
- ♣ Optioneel
- ♠ Optionnel

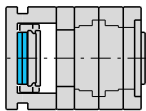


REF.	Mat
RMC-8005	CRS

- Steunplaat ♣
- Plaque de retenue de broches-noyaux ♠

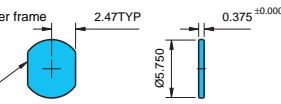
- ♥ Attaches to 'B' insert to retain core pins.
- ♦ Zusätze zu den 'B'-Einsätzen um Kernstifte zu halten
- ♣ Wordt aan inzetstuk 'B' bevestigd om de kernpenen vast te houden
- ♠ S'attache à l'insert 'B' pour retenir les broches-noyaux

- ♥ Sleeve ejection core retainer plates
- ♦ Hülsenauswerfer-Kernhalteplatte



- ♥ Optional
- ♦ Zusätzlich
- ♣ Optioneel
- ♠ Optionnel

- ♥ Clearance for K.O. in single position master frame
- ♦ Auswerferweg im Einfacheinsatz-Rahmen
- ♣ Speling voor uitwerpsysteem bij enkelvoudige moedermatrijs
- ♠ Jeu pour système d'éjection pour moule-mère à une position

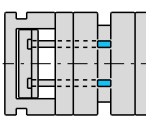


REF.	Mat
RMC-8004	CRS

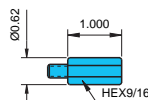
- Steunplaten voor uitwerphulzen ♣
- Plaque de retenue pour tubulaires ♠

- ♥ 2 plates required for one assembly
- ♦ Zwei Platten werden benötigt für eine Einheit
- ♣ 2 platen nodig voor één pakket
- ♠ 2 plaques nécessaires pour un ensemble

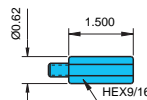
- ♥ Return pin extensions
- ♦ Rückdruckstifte-Erweiterung



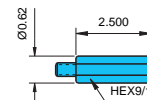
- ♥ Optional
- ♦ Zusätzlich
- ♣ Optioneel
- ♠ Optionnel



REF.	Mat
RMC-8040	



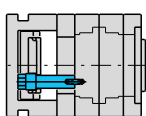
REF.	Mat
RMC-8041	



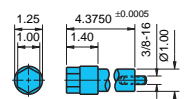
REF.	Mat
RMC-8042	

- Verlengstukken voor terugstootpenen ♣
- Rallonges pour broches de rappel ♠

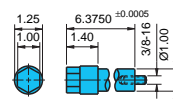
- ♥ Support pillars
- ♦ Führung



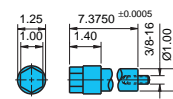
- ♥ Optional
- ♦ Zusätzlich
- ♣ Optioneel
- ♠ Optionnel



REF.	Mat
RMC-8060	4140



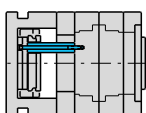
REF.	Mat
RMC-8062	4140



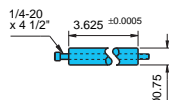
REF.	Mat
RMC-8064	4140

- Steunkolommen ♣
- Colonnes de support ♠

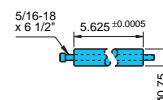
- ♥ Sleeve ejection support pillar
- ♦ Hülsenauswerfer



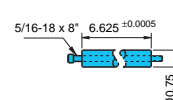
- ♥ Optional
- ♦ Zusätzlich
- ♣ Optioneel
- ♠ Optionnel



REF.	Mat
RMC-0023	4140



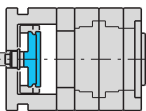
REF.	Mat
RMC-0026	4140



REF.	Mat
RMC-0028	4140

- Steunkolommen voor uitwerphulzgeleiding ♣
- Colonnes de support pour tubulaires ♠

- ♥ Quick connect ejector plate
- ♦ Schnellverbindungs-Auswerferplatte



- ♥ Optional
- ♦ Zusätzlich
- ♣ Optioneel
- ♠ Optionnel

REF.	Mat
RMC-8006	CRS

- Snelkoppeling-uitwerpplaat ♣
- Plaque éjectrice à accouplement rapide ♠

♥ Also see pages 2d-17/2d-18 for additional component items
♦ Siehe auch Seite 2d-17/2d-18 für zusätzliche Komponenten

Zie ook pagina's 2d-17/2d-18 voor aanvullende componenten ♣
Pour tous composants additionnels, voir aussi pages 2d-17/2d-18 ♠

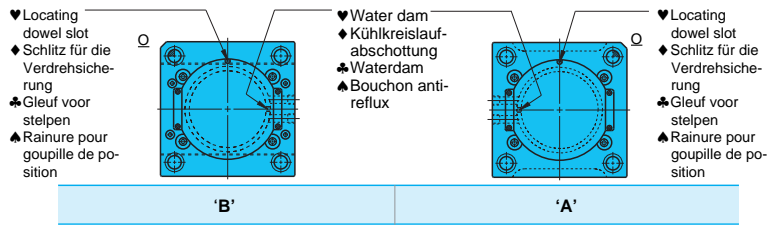
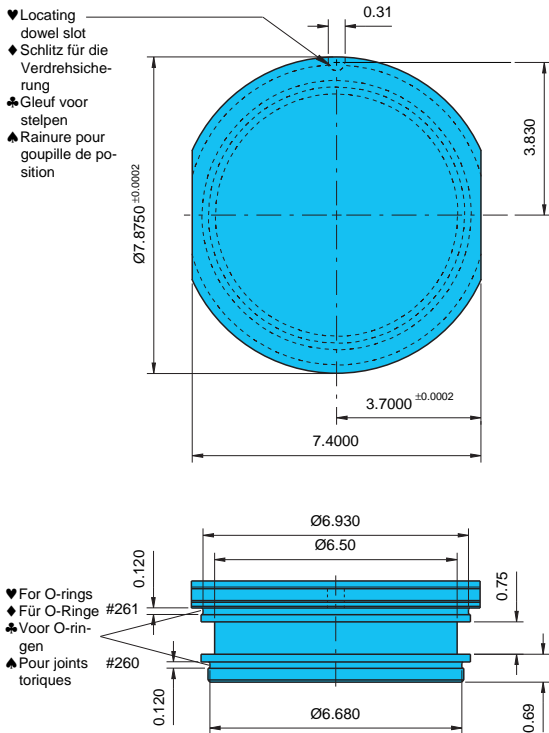
♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

Matrijshuizen - Round Mate® ♣
Porte moules - Round Mate® ♠

Info

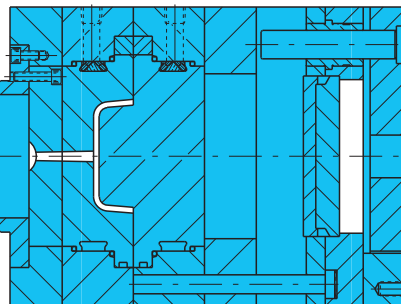
♥ Inserts 8"
♦ Einsätze 8"

Inzetstukken 8" ♣
Inserts 8" ♠



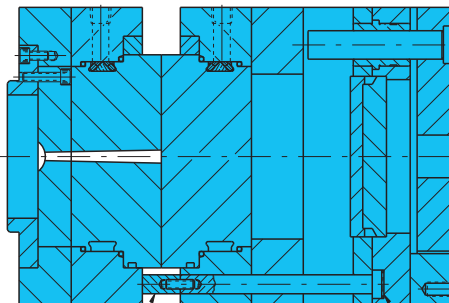
♥ Insert stand-up
♦ Dickere Einsätze

Inzetstukken met dikte-overmaat ♣
Surépaisseur de l'insert ♠



♥ Extended parting line
♦ Erweiterte Trennlinie

Verhoogde deellijn ♣
Plan de joint surélevé ♠



♥ Return pin extension shown in place
♦ Rückdruckstiftverlängerung in Position gezeigt
♣ Terugstootpen met verlengstuk in positie
♠ Rallonge pour broche de rappel illustrée en position

♥ Disc springs under the return pins allow up to 0.015 variance in insert thickness, such as grind stock or parting line crush
♦ Tellerfedern unter den Rückdruckstiften erlauben es die Dicke der Einsätze um 0.015 zu variieren (z.B. Schleifaufmaß oder Sauberschleifen)
♣ Schijfveren onder de terugstootpen laten een speling van 0.015 in de dikte van het inzetstuk toe, voor slijpovermaat enz.
♠ Les rondelles Belleville sous les broches de rappel autorisent une tolérance maximum de 0.015 sur l'épaisseur de l'insert, aux fins de rectification

- ♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

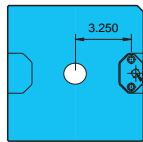
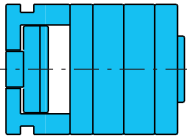
- Matrijshuizen - Round Mate® ♣
Porte moules - Round Mate® ♠

RMC 6"-8"

- ♥ Components
♦ Zubehör

- Toebehoren ♣
Composants ♠

- ♥ Ejector K.O. mounting block
♦ Auswerfermontageblöcke



- ♥ Drill and tap to suit
♦ Verbohren und Verstiften
♣ Boren en verpenen
♠ Percer et tarauder en fonction de l'application particulière

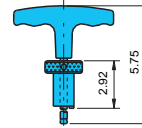
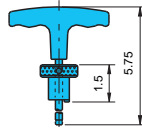
- Montagestuk voor uitstootstang ♣
Bloc de montage de la batterie d'éjection ♠

- ♥ K.O. block can be rotated and/or reversed end for end
♦ K.O. Blokken können gedreht oder ausgetauscht werden
♣ Montagestukken voor uitstootstang kunnen gedraaid en/of in beide richtingen gemonteerd worden
♠ Le bloc de montage de la batterie peut être tourné et/ou inversé de bout en bout

REF.	♥Set ♦Satz ♣Set ♠Jeu Pcs/St.	Mat
RMC-0001	2	4140

- ♥ 2 K.O. blocks included with master frame
♦ Zwei Montageblöcke gehören zum Hauptrahmen
2 montagestukken bij moedermatrijs bijgeleverd ♣
2 blocs de montage de batterie compris avec le moule-mère ♠

- ♥ Retainer/lifter - ejector retainer wrench
♦ Einsatzhalter/Anheber - Auswerferhalterschlüssel



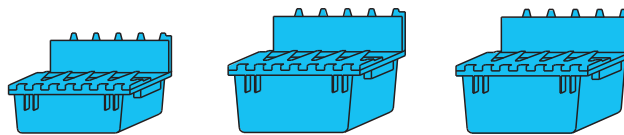
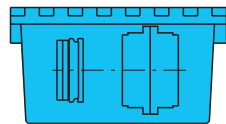
- Vergrendelpen/Ontgrendelpen - ♣
Inbussleutel
Extracteur clé pour cames ♠
de retenue d'inserts

REF.	REF.
RMC-0002	RMC-0003

- ♥ 2 RMC-0002 wrenches supplied with each single position master frame
♦ 2 RMC 0002-Schlüssel werden mit dem Rahmen mitgeliefert
2 RMC-0002 inbussleutels bij enkelvoudige moedermatrijs bijgeleverd ♣
2 clés RMC-0002 fournies avec chaque moule-mère à une position ♠

- ♥ RMC-0003 wrench required for single position 6" and 8" for extended parting line inserts
♦ RMC 0003-Schlüssel werden notwendig für die 6" und 8"-Einsätze bei verlängerter Trennebene
♣ RMC-0003 inbussleutel nodig voor 6" en 8" inzetstukken met verlengde deellijn
♠ Clé RMC-0003 requise pour moule-mère de 6" et 8" à une position employant des inserts à plan de joint surélevé.

- ♥ Fitted storage box - Foam lined
♦ Aufbewahrungsbox - Ausgeschäumt

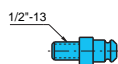
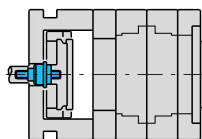


- Bewaarbox - ♣
Schuimrubber bekleding
Boîte de stockage - ♠
Garniture en mousse

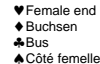
REF.	REF.	REF.
RMC-6010	RMC-6011	RMC-8010

- ♥ For 6" inserts
♦ Für 6"-Einsätze
♣ Voor 6" inzetstukken
♠ Pour inserts de 6"
♥ For 6" inserts and tall inserts
♦ Für 6"-Einsätze und für große Einsätze
♣ Voor 6" en hoge inzetstukken
♠ Pour inserts de 6" - et avec surépaisseur
♥ For 8" inserts
♦ Für 8"-Einsätze
♣ Voor 8" inzetstukken
♠ Pour inserts de 8"

- ♥ Quick ejector connect
♦ Auswerferstangen-Schnellverbinder



- ♥ Mounts to molding machine K.O. rod
♦ Verbindung zur Spritzmaschinen Auswerferstangen
♣ Gemonteerd op de uitstootstang van de spuitgietsmachine
♠ Se monte sur la barre d'éjection de la presse

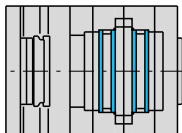


- ♥ Mounts to insert set ejector plate
♦ Verbindung zu den Auswerferplatten-Paar
♣ Wordt op het uitwerppakket gemonteerd
♠ Se monte sur la batterie d'éjection

- Snelkoppeling voor uitstootstang ♣
uitstootstang
Accouplement rapide ♠
d'éjection

REF.	REF.
RMC-0015	RMC-0016

- ♥ O-rings
♦ O-Ringe



Mat. Buna-N

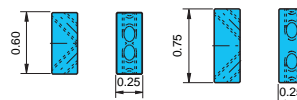
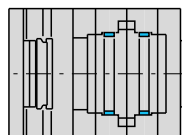


Mat. Viton - H. T°

- O-ringen ♣
Joints toriques ♠

REF.		♥Set ♦Satz ♣Set ♠Jeu Pcs/St.	REF.		♥Set ♦Satz ♣Set ♠Jeu Pcs/St.
RMC-6015	6"	2	RMC-6017	6"	2
RMC-8015	8"	2	RMC-8017	8"	2
RMC-6016	6"	10	RMC-6018	6"	10
RMC-8016	8"	10	RMC-8018	8"	10

- ♥ Water dam
♦ Kühlkreislaufabschottung



- Waterdam ♣
Bouchon anti-reflux ♠

REF. - 6"	♥Set ♦Satz ♣Set ♠Jeu Pcs/St.	Mat	REF. - 8"	♥Set ♦Satz ♣Set ♠Jeu Pcs/St.	Mat
RMC-0010	2	416SS	RMC-0011	2	416SS

- ♥ 1 supplied with each insert
♦ Ein Stück wird mit jedem Einsatz geliefert
1 stuk bij elk inzetstuk geleverd ♣
1 bouchon fourni avec chaque insert ♠

- ♥ Mold bases - Round Mate®
- ♦ Standardformen - Round Mate®

- Matrijshuizen - Round Mate® ♣
- Porte moules - Round Mate® ♠

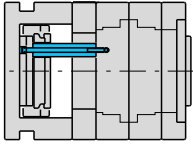
RMC-RMT 6"-8"

- ♥ Components
- ♦ Zubehör

- Toebehoren ♣
- Composants ♠

- ♥ Sleeve ejection support pillar
- ♦ Hülsenauswerfer-Hülse

- Steunkolom voor uitwerphulzen ♣
- Colonne de support pour tubulaire ♠

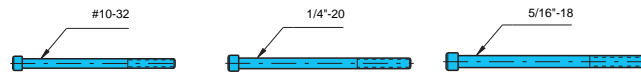


REF.	L	S	REF.	L	S
RMC-0023	3.625	4 1/2	RMC-0024	4.625	5 1/2
			RMC-0026	5.625	6 1/2
			RMC-0028	6.625	8

- ♥ Mold maker may trim support pillars to length for custom applications
- ♦ Der Werkzeugmacher muß die Führungstiftlänge der jeweiligen Anwendung anpassen.
- ♣ Voor speciale toepassingen kan de matrijsmaker de steunkolommen op de gewenste lengte brengen
- ♠ L'outilier pourra réduire la longueur des colonnes de support en fonction des applications particulières

- ♥ Long socket head cap screws
- ♦ Lange Senkkopfschrauben

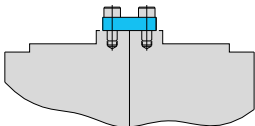
- Lange inbusbouten ♣
- Vis à tête creuse longues ♠



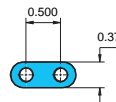
REF.	REF.	REF.
#10-32 x 2 1/2"	1/4-20 x 3 1/2"	5/16-18 x 4"
#10-32 x 3"	1/4-20 x 4"	5/16-18 x 4 1/2"
#10-32 x 3 1/2"	1/4-20 x 4 1/2"	5/16-18 x 5"
#10-32 x 4"	1/4-20 x 5"	5/16-18 x 5 1/2"
#10-32 x 4 1/2"	1/4-20 x 6"	5/16-18 x 6"
		5/16-18 x 6 1/2"
		5/16-18 x 7"
		5/16-18 x 8"

- ♥ Non standard length cap screws available for custom applications
- ♦ Keine Standardlängen der Senkkopfschrauben für spezielle Anwendungen lieferbar
- ♣ Voor speciale toepassingen zijn inbusbouten met niet-standaard lengten leverbaar
- ♠ Des vis à tête creuse de longueur non standard peuvent s'obtenir pour les applications particulières

- ♥ Safety strap
- ♦ Sicherheitsbefestigung



- ♥ Clearance for # 10 SHCS
- ♦ Bohrung für Größe 10 Senkkopfschrauben
- ♣ Booropening voor # 10 inbusbouten
- ♠ Jeu pour # 10 vis à tête creuse



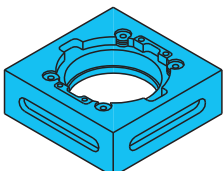
REF.	♥ Set ♦ Satz ♣ Set ♠ Jeu Pcs/St.	Mat
RMC-0017	10	Nylon

- Veiligheidsbevestiging ♣
- Barrette de sécurité ♠

- ♥ 1 supplied with each insert
- ♦ 1 Stück wird mit jedem Einsatz geliefert
- ♣ 1 stuk geleverd bij elk inzetstuk
- ♠ 1 Barrette fournie avec chaque insert

- ♥ Round Mate® locating fixture
- ♦ Round Mate® Einsatzaufnahme

- Round Mate® opspangereedschap ♣
- Bloc de positionnement pour Round Mate® ♠



REF.	♥ for ♦ für ♣ voor ♠ pour
RMT-6100	6"
RMT-8100	8"

- ♥ Holding fixture for inserts, pre-hardened 420ss to be mounted on a mill table for machining or into an EDM tank for electroerosion.
- ♦ Einsatzaufnahme für die Bearbeitung auf einer Fräsmaschine oder einer Erodiermaschine.
- ♣ Opspangereedschap om inzetstukken te monteren op een werktuigmachine of om ze onder te dompelen in een EDM tank voor electro-erosie.
- ♠ Plaque support pour le maintien des inserts, à brider sur la machine d'usinage ou à immerger dans le liquide d'electro-érosion.

- ♥ Mold bases - Round Mate®
- ♦ Standardformen - Round Mate®

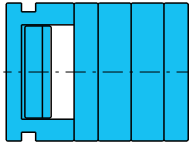
- Matrijshuizen - Round Mate® ♣
- Porte moules - Round Mate® ♠

6"-8"

- ♥ Master frame order guide
- ♦ Rahmen Bestellblatt

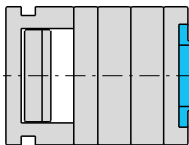
- Bestelformulier - Moedermatrijs ♣
- Guide pour commander des moules-mères ♠

- ♥ Master frame
- ♦ Rahmen
- ♣ Moedermatrijs
- ♠ Moule-mère



REF.	QTY

- ♥ Locating ring
- ♦ Zentrierring
- ♣ Centreerring
- ♠ Anneau de centrage

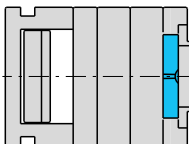


REF.	QTY

- ♥ Options
- ♦ Zusätzliches
- ♣ Opties
- ♠ Options

REF.	QTY

- ♥ Sprue disc
- ♦ Anguß-Scheibe
- ♣ Verloopstuk voor kegelaanspuiting
- ♠ Disque d'injection



REF.	QTY

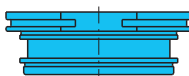
- ♥ Options
- ♦ Zusätzliches
- ♣ Opties
- ♠ Options

REF.	QTY

- ♥ Insert order guide
- ♦ Einsätze Bestellblatt

- Bestelformulier - Inzetpakket ♣
- Guide pour commander les inserts ♠

- ♥ Inserts
- ♦ Einsätze
- ♣ Inzetstukken
- ♠ Inserts



REF.	QTY	Mat

- ♥ Ejector retainer plate
- ♦ Auswerferhalteplatte
- ♣ Uitwerpplaak
- ♠ Contre plaque éjectrice



REF.	QTY

- ♥ Options
- ♦ Zusätzliches
- ♣ Opties
- ♠ Options

REF.	QTY

- ♥ Ejector plate
- ♦ Auswerferplatte
- ♣ Uitwerpplaak
- ♠ Plaque éjectrice



REF.	QTY

- ♥ Options
- ♦ Zusätzliches
- ♣ Opties
- ♠ Options

REF.	QTY

- ♥ O-rings
- ♦ O-Ringe
- ♣ O-ringen
- ♠ Joints toriques



REF.	QTY

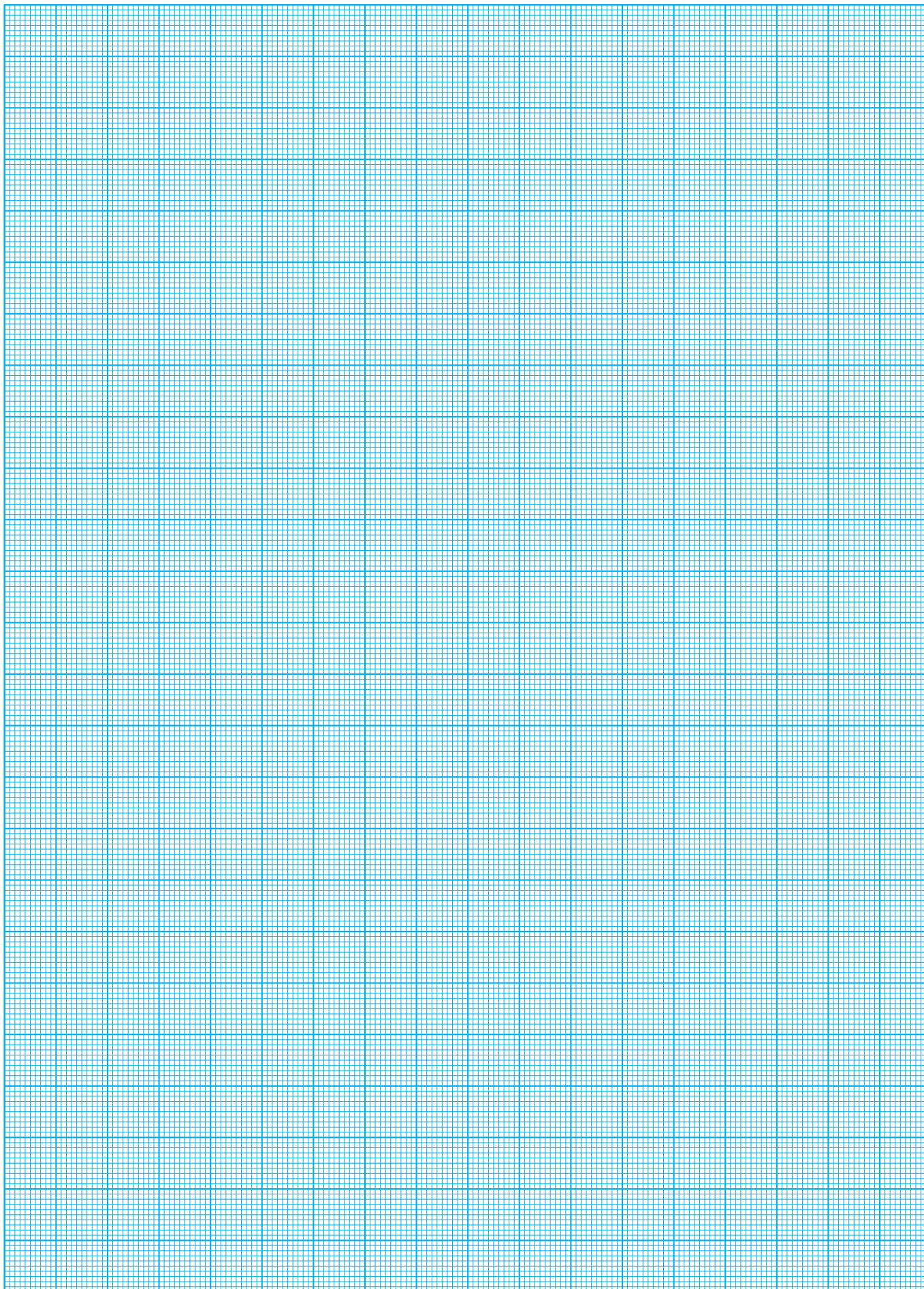
- ♥ Options
- ♦ Zusätzliches
- ♣ Opties
- ♠ Options

REF.	QTY

♥ Mold bases - Round Mate®
♦ Standardformen - Round Mate®

Matrijshuizen - Round Mate® ♣
Porte moules - Round Mate® ♠

NOTES - NOTIZEN - NOTA'S - NOTES



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♣Standard™ CAD
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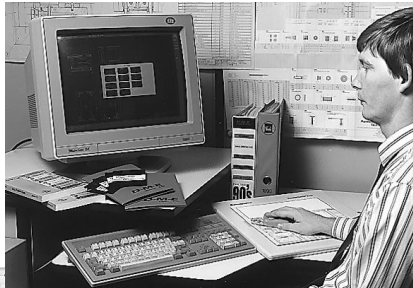
♥ Special machining - CAD/CAM
♦ Sonderbearbeitung - CAD/CAM

Special machining - CAD/CAM ♣
Travaux spéciaux - CAO/CFAO ♠

Info

♥ Special machining
♦ Sonderbearbeitung

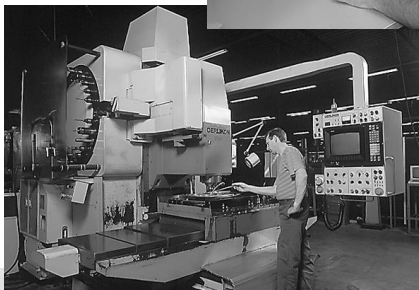
Special machining ♣
Travaux spéciaux ♠



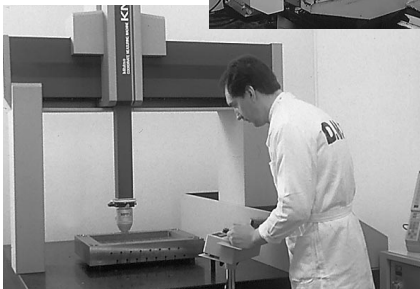
♥ Application Engineering
♦ Anwendungstechnik-Abteilung
♣ Application Engineering
♠ Engineering clientèle



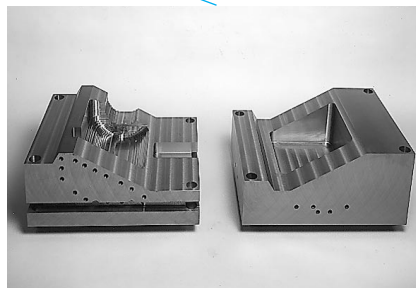
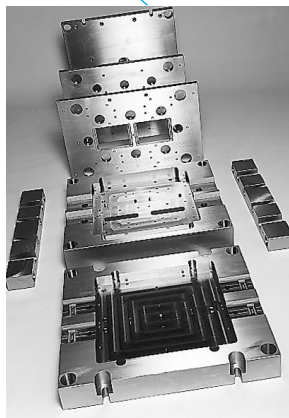
♥ Programming centers
♦ Programmstationen
♣ Programeercentra
♠ Centre de programmation



♥ Production capacity
♦ Fertigungskapazität
♣ Productiecapaciteit
♠ Capacité de production



♥ Quality assurance
♦ Qualitätssicherung
♣ Kwaliteitsborging
♠ Assurance de la qualité



Info

♥ Special machining on mold plates, inserts and complete molds for either plastic injection or diecasting dies is performed with the greatest accuracy in the 'Special Machining' department of D-M-E. This special machining is produced in two D-M-E plants. D-M-E has the required production capacity due to their high-tech working centers and know-how of a specialised team, being at the disposal of the customer from quotation to delivery. The advantages for the customer are obvious:

- Fixed price quotations constitute a reliable basis for cost estimation.
- Quick and parallel settlement of the order provide shorter lead times for the complete mold.
- Reliable, shorter delivery times.
- Continual quality control during the different production phases guarantees products of top quality.
- There is a constant knowledge information between the D-M-E operators and the customer during the production process.

To realise these advantages D-M-E operates out of two production plants, these provide sufficient capacity using mainly CNC controlled machines.

♦ Der D-M-E Bereich 'Sonderbearbeitung' steht für die Vorteile einer externen Bearbeitung der Formplatten, Einsätze oder kompletten Formaufbauten, sowohl für Spritzguß- wie auch für Druckgußformen. Dabei stehen bei D-M-E in zwei Standorten konzentriert, die notwendigen Kapazitäten mit modernster Bearbeitungstechnologie und das Know How des Expertenteams von der Anfrage bis zur Auslieferung bereit. Die Vorteile für Sie liegen auf der Hand:

- Sichere Kalkulationsbasis durch Festpreisangebote.
- Schnelle und parallele Bearbeitung Ihrer Aufträge, dadurch kürzere Laufzeiten für Ihre kompletten Formen.
- Sicher kalkulierbare, kurze Lieferzeiten.
- Höchste Qualität durch laufende Qualitätskontrolle während der Fertigung.
- Know How Transfer während des Fertigungsprozesses zwischen D-M-E und Kunden.

Um für Sie die oben genannten Vorteile zu realisieren, arbeiten wir mit ausreichender Maschinenkapazität, ausschließlich mit CNC-Bearbeitungszentren.

♣ Speciale bewerkingen van vormplaten, inzetstukken en complete matrijshuizen voor zowel spuitgiet- als drukgietmatrijzen worden bij D-M-E met de grootste nauwkeurigheid uitgevoerd in de 'Special Machining' afdeling.

Deze speciale bewerkingen kunnen in twee D-M-E vestigingen gerealiseerd worden. D-M-E beschikt dankzij de modernste bewerkingstechnologie over de vereiste productiecapaciteit en kan hierbij steunen op de know how van een groep specialisten die van bij de prijsaanvraag tot aan de aflevering ter beschikking staan van de klant. De voordelen voor de klant zijn evident:

- Vaste prijsoffertes vormen een betrouwbare basis voor de kostenberekening.
- Snelle en parallele afhandeling van de opdracht zorgt voor kortere doorlooptijden voor de complete matrijs.
- Betrouwbare, korte levertijden.
- Voortdurende kwaliteitscontrole tijdens de productiefase leiden tot producten van topkwaliteit.
- Tijdens het productieproces is er een constante kennisoverdracht tussen D-M-E-medewerkers en de klant.

Om deze voordelen te kunnen realiseren, werkt D-M-E vanuit twee productievestigingen die beiden beschikken over een toereikende machinecapaciteit, overwegend uitgerust met CNC-bewerkingscentra.

♠ Les travaux spéciaux dans les plaques de moule, les poches pour inserts et dans les moules complets, tant pour l'injection des plastiques que pour la coulée sous pression, sont exécutés avec la plus grande précision dans le département 'Travaux Spéciaux' de D-M-E.

Ces travaux peuvent être exécutés dans deux usines différentes. D-M-E dispose de la capacité de production nécessaire, de machines d'une haute technologie et d'une équipe de spécialistes, le tout à disposition du client depuis la demande de prix jusqu'au moment de la livraison.

Les avantages pour le donneur d'ordre sont les suivants:

- Le prix fixe des quotations constitue une base fiable pour l'estimation des frais.
- Une mise au point rapide et concertée entraînant un délai de livraison plus court pour le moule complet.
- Délai de livraison court et fiable.
- Un contrôle continu de la qualité pendant la production garantit un produit final de la plus haute qualité.
- Echange constant d'informations entre les équipes de D-M-E et le client durant le processus de fabrication.

Pour mener à bien tous ces avantages D-M-E opère à partir de deux usines de fabrication qui possèdent des moyens de production conséquents utilisant pour la plupart des machines à commande numérique.

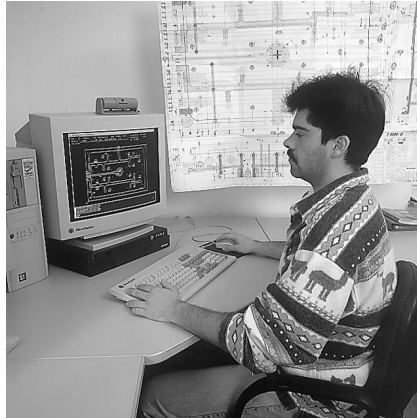
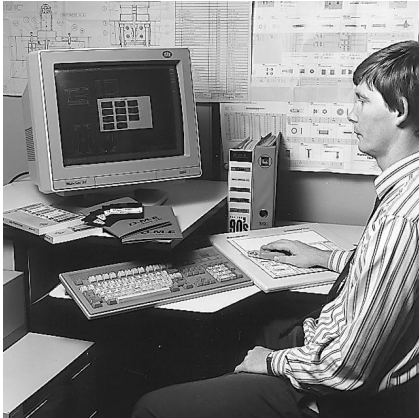
♥ Special machining - CAD/CAM
♦ Sonderbearbeitung - CAD/CAM

Special machining - CAD/CAM ♣
Travaux spéciaux - CAO/CFAO ♠

Info

♥ Special machining
♦ Sonderbearbeitung

Special machining ♣
Travaux spéciaux ♠



♥ From quotation to finished product

On hand are our technical team to handle enquiries. Quotations are automatically worked out by this team of specialized people which includes a knowledge of production operations. When orders are confirmed these calculations will stand as the basis for the production process because at an earlier stage the production development and required production capacity has been taken into account.

A quick execution of the order is therefore insured. The machining programs are worked out via high tech programming centers - Silicon Graphics - type. To insure trouble-free production every program is checked via simulation of the operations on quick programming centers. The machining plants are equipped with high tech machines and are able to perform on time deliveries, due to efficient machine occupation and computer controlled production planning.

♦ Von der Anfrage bis zum fertigen Produkt

Ihre Anfrage wird durch ein Spezialistenteam bei D-M-E nach Ihren technischen Vorgaben mittels spezieller EDV-Programme bis in jeden einzelnen Arbeitsschritt kalkuliert. Die Kalkulation ist gleichzeitig die Basis für eine schnelle Umsetzung im Auftragsfalle, da bereits in diesem frühen Stadium die Fertigungsabläufe und Kapazitäten berücksichtigt werden und somit eine schnelle Erstellung der Fertigungsaufträge gewährleistet ist.

Die im Auftragsfalle notwendigen Bearbeitungsprogramme werden mittels modernster Programmstationen von Typ Silicon Graphics erstellt. Eine simulierte Bearbeitung zur Kontrolle der Programme auf diesen schnellen Stationen ist selbstverständlich, um eine reibungslose Fertigung zu gewährleisten.

Die mit modernsten Werkzeugen ausgestatteten Bearbeitungszentren sind durch ein effizientes Maschinenlayout und durch eine Rechengesteuerte Fertigungsplanung in der Lage, Ihre Aufträge ohne verlustreiche Liegezeiten zum vorgegebenen Endtermin fertigzustellen.

♣ Van prijsaanvraag tot afgewerkt produkt

Prijsaanvragen worden bij D-M-E via automatische gegevensverwerking uitgewerkt door een groep specialisten die aan de hand van de technische bepalingen van de klant een berekening maken voor elke afzonderlijke productiefase. Bij orderbevestiging vormt deze berekening tevens de basis voor het productieproces, aangezien reeds in het vroegste stadium rekening gehouden wordt met het productieverloop en de vereiste productiecapaciteit. Een snelle uitvoering van de bestelling is bijgevolg verzekerd.

De bewerkingsprogramma's worden opgesteld via ultra moderne programmeercentra van het type Silicon Graphics. Om een probleemloze productie te waarborgen wordt elk programma achteraf gecontroleerd via simulatie van de bewerkingen op snelle programmeercentra.

De bewerkingscentra zijn uitgerust met ultra moderne machines en zijn omwille van de efficiënte machinebezetting en de computergestuurde productieplanning in staat de binnenkomende opdrachten zonder onnodige wachttijden en binnen de vastgestelde termijn uit te voeren.

♠ De l'offre jusqu'au produit fini

Les offres sont établies par D-M-E à l'aide du traitement des données automatique par une équipe de spécialistes, qui sur base des spécifications techniques du client, établissent un devis pour chaque phase de la production.

Lors de la confirmation de commande, ces calculs constituent également la base pour le processus de production, étant donné que, dès le début, il a été tenu compte de la charge de travail requise, de la capacité disponible et de son évolution. Une exécution rapide de la commande est donc assurée.

La programmation numérique des usinages est effectuée sur des stations de travail modernes du type Silicon Graphics. Pour assurer une production sans problème, chaque programme est contrôlé via simulation des usinages avant exécution. Les centres d'usinages sont constitués de machines ultra modernes. Étant donné l'utilisation efficace des machines et le planning de production géré par ordinateur, D-M-E est à même d'exécuter toute commande dans le délai prévu.

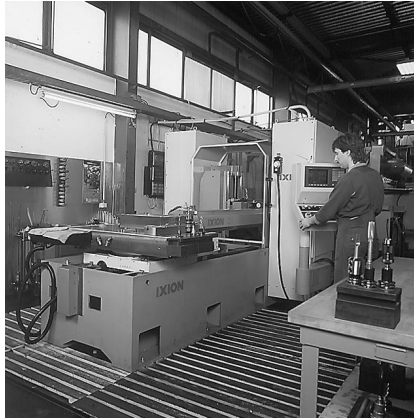
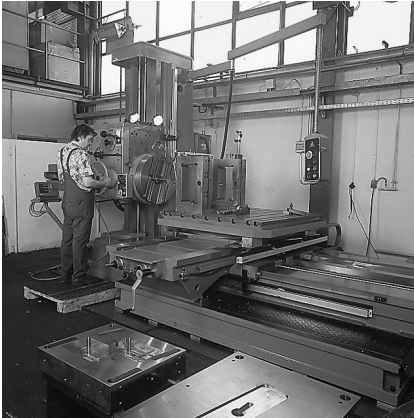
♥ Special machining - CAD/CAM
♦ Sonderbearbeitung - CAD/CAM

Special machining - CAD/CAM ♣
Travaux spéciaux - CAO/CFAO ♠

Info

♥ Special machining
♦ Sonderbearbeitung

Special machining ♣
Travaux spéciaux ♠



♥ Production capacity

We have at our disposal 4 drilling machines and 3 long drill machines. The maximum diameter of the drilling is 56 mm and we are able to guarantee with the highest accuracy a drilling length up to 1900 mm. Longer drillings are sub-contracted at low cost for different unit pieces.

♣ Productiecapaciteit

Voor boorbewerkingen staan in totaal 4 horizontale boor- en kottermachines en 3 langgatboormachines ter beschikking. De maximale diameter van de boring bedraagt 56 mm en kan boorlengten tot 1900 mm met de grootste nauwkeurigheid garanderen. Langgatboringen worden voor verschillende stukproducten aan gunstige prijzen in onderaanneming uitgevoerd.

♦ Fertigungskapazität

Für die notwendigen Bohrarbeiten stehen insgesamt 4 Bohrwerke plus 3 Tieflochbohrmaschinen zur Verfügung. Der maximale Bohrdurchmesser ist 56 mm und Bohrungslängen bis zu 1900 mm mit höchster Präzision garantieren wir. Tieflochbohrarbeiten werden auch im Lohnauftrag für unterschiedliche Kundenprodukte kostengünstig bearbeitet.

♠ Capacité de production

Pour les opérations de forage, nous disposons de 4 aléseuses et de 3 foreuses pour perçages profonds. Le diamètre maximum de forage est de 56 mm pour une profondeur maximum de 1900 mm, tout en garantissant une très grande précision. Les forages profonds sont aussi acceptés en sous-traitance à des prix avantageux.

♥ Special machining - CAD/CAM
♦ Sonderbearbeitung - CAD/CAM

Special machining - CAD/CAM ♣
Travaux spéciaux - CAO/CFAO ♠

Info

♥ Special machining
♦ Sonderbearbeitung

Special machining ♣
Travaux spéciaux ♠



♥ Production capacity

We have a capacity of 10 machines for milling operations suitable for a max. weight load of 2500 K° per plate and maximum size of L 1900 X W 900 X H 500 mm.

8 square grinders are used for grinding operations following requested tolerance. These machines are capable of max. work sizes of L 1800 X W 900 X H 300 mm. and a max. weight load of 2500 K°.

♣ Produktiecapaciteiten

Voor freesbewerkingen staan 10 bewerkingscentra ter beschikking, die geschikt zijn voor een maximale gewichtsbelasting van 2500 kg per plaat en maximale afmetingen van L 1900 x B 900 x H 500 mm.

Een 8-tal vlakslijpmachines worden ingeschakeld voor slijpbewerkingen volgens de gewenste toleranties. Deze machines zijn geschikt voor maximale werkstukafmetingen van L 1800 x B 900 x H 300 mm en een maximale gewichtsbelasting van 2500 kg.

♦ Fertigungskapazitäten

Für die Fräsbearbeitung stehen 10 Bearbeitungszentren zur Verfügung, die bis zu einer maximalen Gewichtsbelastung pro Einzelplatte von 2500 kg und den maximalen Abmessungen von L 1900 x B 900 x H 500 mm ausgelegt sind.

Die Schleifoperationen werden mit einer Anzahl von 8 Flachsleifmaschinen und den maximalen Werkstückabmessungen L 1800 x B 900 x H 300 mm bzw. der maximalen Gewichtsbelastung von 2500 kg den geforderten Toleranzen gerecht.

♠ Capacité de production

Pour les opérations de fraisage nous disposons de 10 centres d'usinage prévus pour une charge maximale de 2500 kg par plaque et dimensions maximales de Lo 1900 x La 900 x H 500 mm.

Quelque 8 rectifieuses tangentielles sont disponibles pour des travaux de rectification plane suivant tolérances demandées. Ces machines conviennent pour des pièces de dimensions maximales de Lo 1800 x La 900 x H 300 mm et une charge maximum de 2500 kg.

Info

♥ Information - Interface specifications

Information from the customer are taken over from:

- Loose drafts or complete production drawings.
- Assembly drawings (The D-M-E team translates the information into detailed production data).
- Information received can be exchanged through most of the latest interfaces.

Interface table

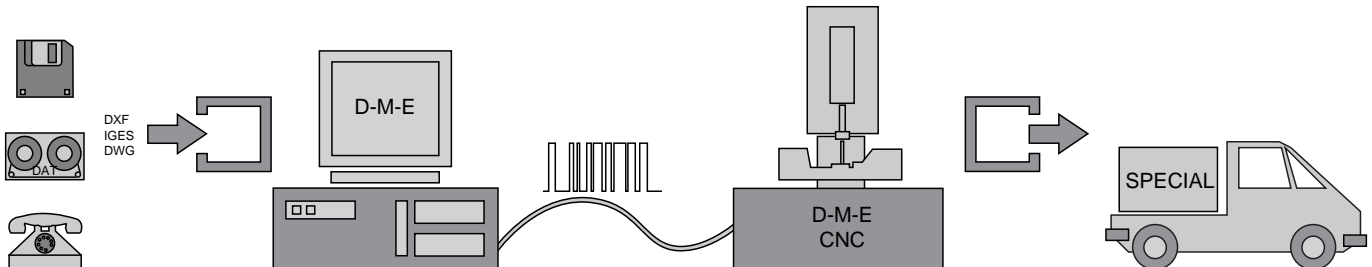
♣ Gegevensovername - Interface specificaties

Gegevens van de klant worden overgenomen van:

- Losse schetsen of complete produktietekeningen.
- Samenbouwtekeningen (Het D-M-E team ontwikkelt zelf de vereiste informatie voor de detailproductie).
- Informatiedrager van de meest courante interfaces.

Eventueel noodzakelijke afstemmingen worden door onze ervaren specialisten rechtstreeks met de klant besproken en doorgevoerd. Dit bespaart tijd en is doorgaans, samen met de kennis die vanuit voorgaande opdrachten wordt overgedragen, zeer belangrijk voor de opdrachtgever.

Interface-tabel



♦ Datenübergabe -Schnittstellenspezifikation

Die Datenübergabe vom Kunden erfolgt über:

- Handskizzen und komplette Fertigungszeichnungen.
- Zusammenbauzeichnungen (Das D-M-E-Team entwickelt die notwendigen Informationen für die Einzelteilefertigung im Hause).
- Datenträger der gängigsten schnittstellen.

Eventuell notwendige Abstimmungen machen werden von unseren erfahrenen Spezialisten direkt mit dem Kunden vorgenommen. Das spart Zeit und ist in der Regel mit einem nicht zu unterschätzenden Know How Transfer aus der Summe von tausenden von Aufträgen sehr wertvoll für den Auftraggeber.

Tabelle Schnittstellen

♠ Saisie informatique des données - spécifications des interfaces

Le donneur d'ordre peut fournir ses données sous diverses formes:

- Croquis manuels ou dessins complets.
- Dans tous les cas, D-M-E développe elle-même l'information nécessaire jusqu'aux plans d'exécution.
- Un support informatique compatible avec les interfaces les plus courantes.

Si nécessaire, les spécialistes de D-M-E prennent contact avec le client directement, afin de discuter d'éventuels problèmes et d'éviter tout retard dans le déroulement des opérations.

♥ Special machining - CAD/CAM
♦ Sonderbearbeitung - CAD/CAM

Special machining - CAD/CAM ♣
Travaux spéciaux - CAO/CFAO ♠

Info

♥ Special machining
♦ Sonderbearbeitung

Special machining ♣
Travaux spéciaux ♠



♥ Quality Assurance

Quality is guaranteed by D-M-E for series production as well as unit production by means of continual control of the work during the manufacturing process.

The final inspection is performed by high tech computer controlled measuring devices. The customer can be assured that the end product complies to the required specifications.

♣ Kwaliteitsborging

Kwaliteit wordt bij D-M-E zowel voor serieproductie als voor stukproductie gegarandeerd door een voortdurende controle van het arbeidsresultaat tijdens het productieproces. De eindcontrole wordt bovendien door een ultra moderne computergestuurde meetbank uitgevoerd. De klant kan er zeker van zijn dat de afgewerkte producten voldoen aan de opgegeven specificaties.

♦ Qualitätssicherung

Qualität wird bei D-M-E für die Serienproduktion wie auch für die Auftragsbearbeitung durch laufende Überprüfung der Arbeitsergebnisse während dem Fertigungsprozess sowie durch eine mit modernsten rechnergesteuerten Meßmaschinen ausgestattete Endkontrolle sichergestellt. Der Kunde hat die Sicherheit, daß die ausgelieferten Produkte seinen Spezifikationen entsprechen.

♠ Assurance de la qualité

La qualité est garantie par D-M-E aussi bien pour les travaux à la pièce que pour une production en série, grâce à un contrôle constant des usinages pendant tout le processus de la production. En outre le contrôle final est effectué sur un banc de mesure 3 axes commandé par ordinateur. Le client peut être assuré que les produits finis sont en parfait accord avec les spécifications fournies.

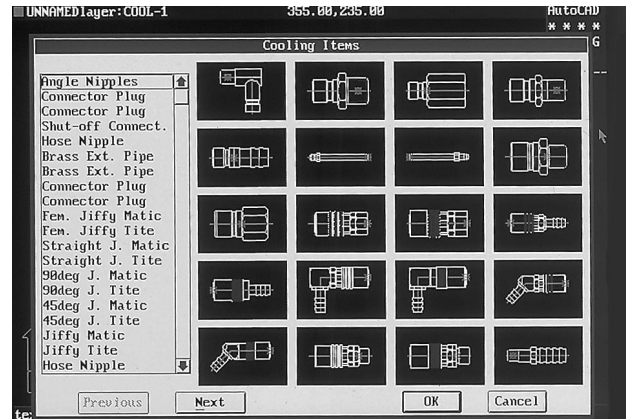
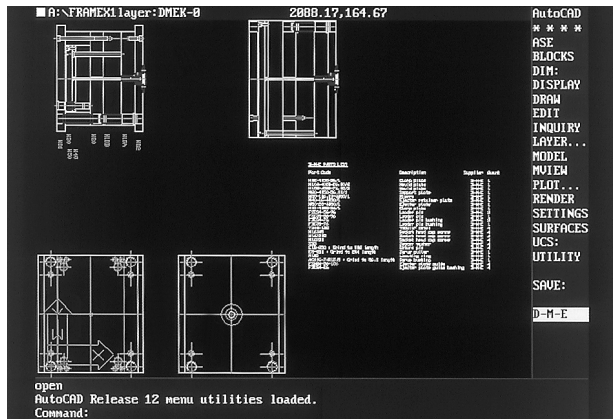
♥ Special machining - CAD/CAM
♦ Sonderbearbeitung - CAD/CAM

Special machining - CAD/CAM ♣
Travaux spéciaux - CAO/CFAO ♠

Info

♥ CAD/CAM
♦ CAD/CAM

CAD/CAM ♣
CAO/CFAO ♠



♥Expert™ CAD Mold Design Software

For professionals

The D-M-E Expert™ CAD is a comprehensive design system for professionals in the plastic injection mold making industry. This revolutionary design tool can give you virtually unlimited design capabilities from the simplest standardized bases and components to the most complex customized assemblies. The Expert™ system frees you from most routine design functions so you have more time to explore alternatives and to focus on cavity and core details.

The intelligent system

The D-M-E Expert™ is an intelligent system capable of interpreting the designers' instructions and automatically creating and modifying the mold design accordingly. Location and clearance holes for components such as support pillars and ejectors are created automatically whenever a component is added to the mold and modified if the component is relocated.

The organized system

The D-M-E Expert™ Software package works with AutoCAD and operates through easy-to-use and well-organized on-screen menus offering available sizes and options. At any time during the design process a full parts list can be generated automatically, as a separate text file or on the drawing. Identification balloons are optional. D-M-E part numbers are included to make ordering of standard parts easier.

All D-M-E Expert™ generated geometry is drawn on two layer groups. One group shows the production drawing, the other layer group renders the part in an assembly drawing. Features commanding the layer management are of course included.

The D-M-E Expert™ is completely self-installing and never changes anything to your familiar working environment. Incorporating the D-M-E standard parts in your menu structure can be done by means of a regular text editor.

♦ D-M-E Expert™ CAD Formenkonstruktions Software

Für Profis

Das D-M-E Expert™ CAD System (auf AutoCAD aufgebaut) ist ein umfassendes Konstruktionssystem für Fachleute (Konstrukteure) in der Kunststoff-Spritzindustrie. Dieses neue Software-Paket rechtfertigt seinen Kauf, denn es bietet praktische Lösungen um Formenaufbauten und Heißkanalsysteme in noch kürzerer Zeit zu konstruieren.

Das intelligente System

Lage und Bohrungen für Komponenten (Stützbolzen, Auswerferstifte) werden automatisch gezeichnet, sobald eine Komponente der Form oder Platte hinzugeführt wird. Wenn Plattenmaße oder Komponenten verändert werden, oder neu hinzugefügt werden, dann werden alle neuen Maße dazu automatisch angepaßt (nach Positionsangabe).

Das organisierte System

Das D-M-E Expert™ System arbeitet ausschließlich mit AutoCAD und Bildschirm-Menüs, die gut organisiert sind. Die Bedienung ist außerordentlich leicht. Viele verfügbare Größen und Optionen sind vorhanden. D-M-E Teile Nr. werden angezeigt um Standardteile einfacher abrufen zu können. Zeichnungen, die durch D-M-E Expert entstehen, bestehen aus 2 Gruppen:

A - die Fertigungszeichnung

B - die Zusammenbauzeichnung - Einzelteile

Die Rückkehr ins Hauptmenü ist jederzeit möglich.

Eine Stückliste (Teilleiste) wird automatisch erstellt. Sie kann auf dem Bildschirm aufgerufen oder ausgedruckt werden. Mit Hilfe des Installations-Programmes wird die D-M-E Expert™ Software einfach und leicht installiert. Die geometrischen Arbeitsabläufe bleiben bestehen. Die Eingliederung von zusätzlichen D-M-E Standard-Teilen ins Menü wird durch einen normalen Text-Editor vorgenommen.

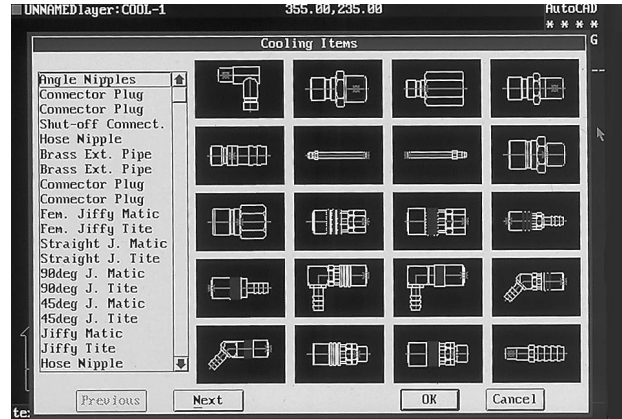
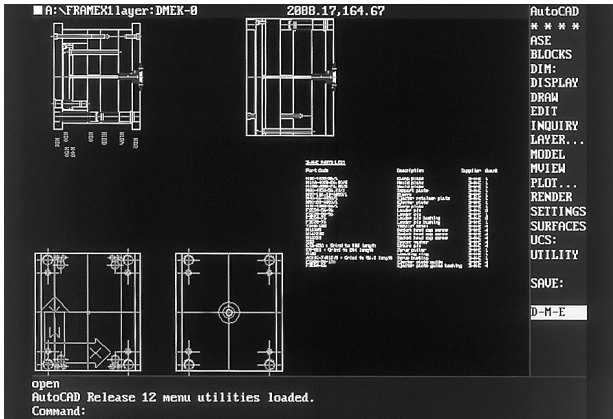
♥ Special machining - CAD/CAM
♦ Sonderbearbeitung - CAD/CAM

Special machining - CAD/CAM ♣
Travaux spéciaux - CAO/CFAO ♠

Info

♥ CAD/CAM
♦ CAD/CAM

CAD/CAM ♣
CAO/CFAO ♠



♣ DME Expert™ CAD Ontwerp- en tekenpakket

Voor professionals

De D-M-E Expert™ CAD software is een omvangrijk ontwerp- en tekenpakket specifiek bestemd voor professionals in de konstruktie van spuitgietsmatrijzen en spuitgietsystemen voor de kunststofindustrie. Dankzij de ontwikkeling van dit revolutionair ontwerpsysteem is de aanschaf van een duur CAD programma voortaan een renderende en produktieve investering. Het Expert™ systeem biedt de matrijstekenaar tal van praktische functies die het ontwerpen en tekenen van matrijstekeningen aanmerkelijk versnellen en verbeteren.

Het intelligente systeem

De D-M-E Expert™ is bovendien een intelligent systeem dat de instructies van de tekenaar kan interpreteren en dienovereenkomstig uitvoeren. Centreerboringen en vrijboringen voor onderdelen zoals steunkolommen en uitwerppennen worden automatisch aangemaakt telkens er een onderdeel aan de matrijs wordt toegevoegd en gewijzigd telkens het onderdeel verplaatst wordt.

Het georganiseerde systeem

Het D-M-E Expert™ systeem werkt met AutoCAD en hanteert gebruiksvriendelijke en goed gestructureerde beeldschermmenu's die de beschikbare maten en opties aangeven. Een volledige stuklijst kan op elk ogenblik van het ontwerpproces gegenereerd worden als een afzonderlijke text file of bij de tekening geplaatst worden. Om het bestellen van standaard onderdelen eenvoudiger te maken zijn de D-M-E referenties in het programma opgenomen.

Elke geometrie die met die D-M-E Expert™ gegenereerd wordt, vertoont een tweelagige structuur. De ene laag toont de produktietekening, de andere laag geeft het stuk weer in een samenstellings-tekening. Het Expert™ tekenpakket is vanzelfsprekend uitgerust met een goed gestructureerd en flexibel lagenbeheer. De D-M-E Expert™ CAD installeert zichzelf volledig automatisch en verandert niets aan de bekende werkomgeving. Door middel van een gewone tekstverwerker kunnen de D-M-E standaard onderdelen in de menustructuur opgenomen worden.

♠ Expert™ CAD Progiciel de dessin des moules

Pour les professionnels

Le logiciel D-M-E Expert™ CAD est un système de conception et de dessin aux vastes possibilités destiné aux professionnels des moules d'injection des plastiques. Cet outil révolutionnaire offre des possibilités de conception presque illimitées, depuis le moule standard le plus simple jusqu'à la carcasse spéciale la plus complexe. Le système Expert™ vous libère des opérations de conception et de dessin routinières, et offre davantage de temps pour explorer des alternatives et se concentrer sur les détails des empreintes et noyaux.

Un système intelligent

Le D-M-E Expert™ est un progiciel intelligent capable d'interpréter les instructions du dessinateur et de modifier le projet de moule en conséquence. Le positionnement et les alésages pour les composants tels que colonnes de support ou éjecteurs sont définis et créés automatiquement, dès l'ajout du composant au moule. Si le composant est déplacé, les modifications nécessaires sont effectuées.

Un système bien organisé

Le progiciel D-M-E Expert™ opère sous AutoCAD grâce à des menus lisibles et bien structurés, montrant à l'écran les diverses dimensions et options disponibles. A tout moment durant le processus de dessin, une nomenclature complète des pièces peut être générée automatiquement, en tant que fichier - texte séparé ou sur le dessin. Les références catalogue D-M-E sont incluses afin de faciliter l'acquisition des éléments standard.

Toute la géométrie générée par le D-M-E Expert™ est dessinée sur deux groupes de couches. Un groupe contient les dessins d'usinage, l'autre les vues d'ensemble. La possibilité de gérer les couches est bien sûr prévue. Le D-M-E Expert™ est entièrement auto-installant et ne change rien à votre environnement de travail familier.

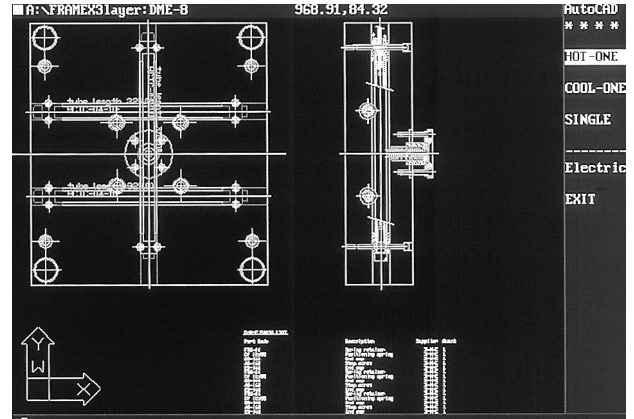
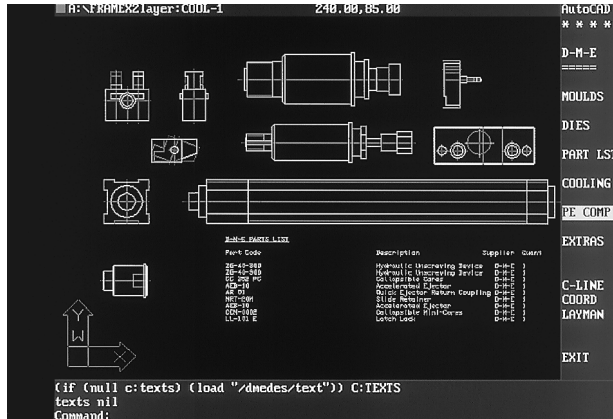
♥ Special machining - CAD/CAM
♦ Sonderbearbeitung - CAD/CAM

Special machining - CAD/CAM ♣
Travaux spéciaux - CAO/CFAO ♠

Info

♥ CAD/CAM
♦ CAD/CAM

CAD/CAM ♣
CAO/CFAO ♠



♥ Expert™ CAD Mold Design Software

On the menu

The D-M-E Expert™ provides all D-M-E mold kits and single plates in four views, and automatically creates and updates true two dimensional engineering drawings. Screws, supports, guides, ejector pins, locating rings, sprue bushings, cooling items, pre-engineered components and many other standard components of the D-M-E catalog can be selected and added to the mold. These components are selected via a dialog box and are generated in side or sectional view as 2-D objects. Hot runners, both Hot-One parts and Cool-One systems can be generated without drawing a single line yourself. An easy to use multiple choice dialog is your guide and helps you realize a complete hot-runner designed consistent with the D-M-E guide-lines. Fitting in single nozzles only requires a simple touch on the keyboard or mouse. The Expert™ system even calculates the heat expansion for you.

Extra design options

On top of the numerous standard D-M-E parts, the Expert™ system also features a great number of special design options for runner design, pocketing, parametric design and hydraulic connectors.

Expert™ tutorial

The D-M-E Expert™ Software is accompanied by a tutorial. This booklet illustrates a recommended method of CAD techniques to obtain the most efficient use of the D-M-E Expert™ software package within the AutoCAD system.

System requirements

Minimum configuration -
AutoCad release 11, 12 = 40 Mb
D-M-E Expert™ = 16 Mb
HDD 250 Mb
IBM-compatible
80486 DX (or SX-486) or Pentium
Color monitor
Mouse
8-32 Mb RAM

♦ D-M-E Expert™ CAD Formenkonstruktions Software

Das Menü

Alle D-M-E Formenbauteile und Einzelplatten liefert das Expert™ System in vier Ansichten und kreiert automatisch aktuelle, zweidimensionale Konstruktionszeichnungen. Schrauben, Führungen, Auswerferstifte, Zentrierringe, Angießbuchsen, Kühlmittelan-schlüsse, Werkzeugelemente und viele andere Standardteile des D-M-E Kataloges können ausgewählt und zur Komplettform ergänzt werden. Diese Komponenten werden über eine Dialogbox ausgewählt und anschließend nach einer weiteren Auswahl zur Form hinzugefügt. Eine Seiten- oder Sektionalansicht stellt sie als 2-D Objekte dar.

Die geometrische Konstruktionsunterstützung von HK-Systemen ist sehr gut ausgebaut, sodaß mit Hilfe des Auswahl-Dialogs die komplette Heißkanal-Konzeption schnell erstellt werden kann, z.B. die Zuführung einer Einzeldüse an einen bestimmten Punkt im System erfolgt durch Selektion über 'Icons'. Das D-M-E Expert™ System hat auch die Wärmeausdehnung bei Heißkanal-Elementen berücksichtigt.

Auswahlmöglichkeiten für Extra-Design

Neben den D-M-E Standardteilen bietet Expert-System auch noch einige andere Spezialteile für Heißkanal-Design, z.B. Ausfräsungen, Heißkanal und hydraulische Verbindungen.

Expert™ Bedienungsanleitung

Die Software-Anleitung hilft Ihnen mit Beispielen, innerhalb des AutoCAD Systems optimal zu arbeiten.

System Anforderungen

Mindestanforderungen für AutoCAD
AutoCAD Release 11, 12 = 40 Mb
D-M-E Expert™ = 16 Mb
HDD 250 Mb
IBM-Kompatibler Rechner
80486 DX (or SX-486) oder Pentium
Farbbildschirm
Maus
8-32 Mb RAM

REF.	Description Multilingual
CAD 0304-V 2.0	English
	German
	French
	Extra language (input to be made by customer)

REF.	Beschreibung Mehrsprachig
CAD 0304-V 2.0	Englisch
	Deutsch
	Französisch
	Extra Sprache (einzugeben beim Kunden)

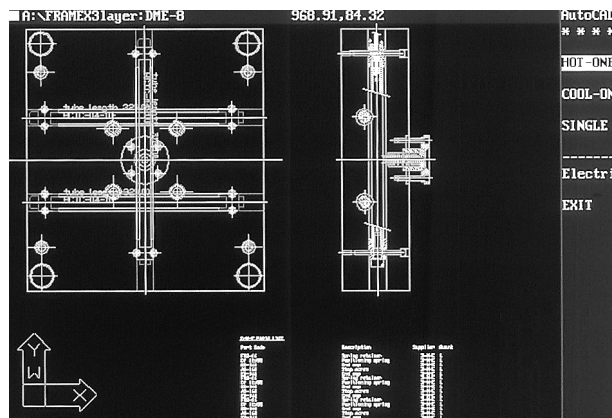
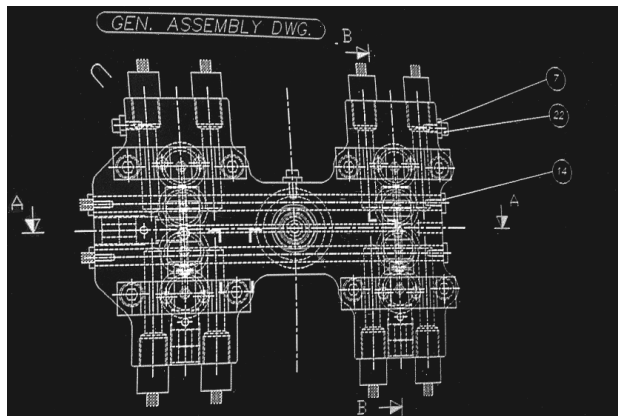
♥ Special machining - CAD/CAM
♦ Sonderbearbeitung - CAD/CAM

Special machining - CAD/CAM ♣
Travaux spéciaux - CAO/CFAO ♠

Info

♥ CAD/CAM
♦ CAD/CAM

CAD/CAM ♣
CAO/CFAO ♠



♣ DME Expert™ CAD Ontwerp- en tekenpakket

Op het menu

De D-M-E Expert™ bevat alle D-M-E mold kits en platen in 4 aanzichten. Schroeven, steunkolommen, geleidepennen, uitwerppennen, centreerringen, spuitneuzen toebehoren voor matrijskoeling, technische produkten en vele andere standaard onderdelen van de D-M-E katalogus kunnen geselecteerd en aan de matrijs toegevoegd worden. Deze onderdelen worden geselecteerd via een dialoogkader en als 2D objecten in zij aanzicht of als doorsnede gegenereerd.

Spuitsysteem systemen zowel Hot One onderdelen als het Cool One systeem kunnen gegenereerd worden zonder zelf één enkele lijn te tekenen. Met behulp van een eenvoudige meerkeuzedialoog is het mogelijk een spuitgietsysteem te ontwerpen in overeenstemming met de D-M-E richtlijnen. Het aanbrengen van enkelvoudige spuitneuzen gebeurt met een simpele druk op de knop. Het Expert™ systeem berekent zelfs automatisch de warmte-uitzetting.

Extra ontwerpopties

Naast de talrijke standaard D-M-E onderdelen zijn in het Expert™ pakket tal van speciale ontwerpopties voor verdeeltakken, uitkameringen, parametrisch tekenen en hydraulische aansluitstukken opgenomen.

Expert™ handleiding

De D-M-E Expert™ software is voorzien van een handleiding waarin een aanbevolen methode van CAD technieken beschreven wordt. Deze handleiding beoogt een efficiënt gebruik van het D-M-E softwarepakket binnen het AutoCAD systeem.

Systeemvereisten

Minimum configuratie -
AutoCad versie 11, 12 = 40 Mb
D-M-E Expert™ = 16 Mb
HDD 250 Mb
IBM-kompatibel
80486 DX (or SX-486) of Pentium
Kleurenmonitor
Muis
8-32 Mb RAM

♠ Expert™ CAD Progiciel de dessin des moules

Au menu

Le D-M-E Expert™ donne quatre vues de toutes les carcasses standard D-M-E et des plaques individuelles et crée ainsi des dessins techniques en 2 dimensions.

Vis, colonnes support, douilles et colonnes de guidage, éjecteurs, anneaux de centrage, buses d'injection, éléments de refroidissement, composants techniques, et beaucoup d'autres composants standard du catalogue D-M-E peuvent être sélectionnés et intégrés dans le moule. Ces composants sont choisis dans une boîte de dialogue et sont générés comme objets 2-D vus en élévation ou en coupe.

Les systèmes canaux chauds, tant Hot-One que Cool-One, peuvent être créés sans que vous ne traciez une seule ligne vous-même. Un dialogue avec choix multiple est votre guide et vous permet de réaliser un système 'canaux chauds' complet selon les spécifications D-M-E.

Le placement des buses d'injection se fait simplement en enfonçant une touche ou en cliquant. Même la dilatation thermique est prise en compte par l'Expert.

Éléments de dessin auxiliaires

En plus des nombreuses pièces standard D-M-E, le système Expert™ offre aussi un grand nombre d'auxiliaires de dessin tels que canaux d'écoulement, carottes, trous et formes standard, éléments de fixation, raccords hydrauliques, etc., le tout sous forme paramétrique.

Manuel d'utilisation et d'initiation

Un manuel accompagne le D-M-E Expert™. Ce livret illustre la méthode CAO recommandée pour tirer la quintessence du progiciel D-M-E Expert™ sous AutoCAD.

Spécifications minimales du système CAD requis

AutoCAD version 11 ou 12 (= 40 M.Octets)
D-M-E Expert™ (= 16 M.Octets)
Disque Dur 250 M.Octets
Compatible IBM
80486 DX (ou SX-486 avec coprocesseur) ou Pentium
Moniteur couleur
Souris
8 à 32 M.Octets mémoire vive

REF.	Beschrijving Meertalig
CAD 0304-V 2.0	Engels
	Duits
	Frans
	Extra taal (in te voeren door klant)

REF.	Description Multilingue
CAD 0304-V 2.0	Français
	Anglais
	Allemand
	Une langue supplémentaire (à introduire par l'utilisateur)

Info

♥ CAD/CAM
♦ CAD/CAM

CAD/CAM ♣
CAO/CFAO ♠



♥ D-M-E Standard™ CAD

Low-cost solution

In order to fill the gap between the general purpose software and the high-end expert design systems D-M-E has developed a low-cost AutoCAD symbol library.

With the D-M-E Standard™ CAD the mold designer utilizes a professional design aid to design injection molds with the highest accuracy. This easy-to-use work-saving library contains standard mold bases, standard element groups and component groups for runnerless injection applications.

Completely self-installing

Once the D-M-E Standard™ CAD has installed itself on your hard disk, the usual ACAD.MNU includes D-M-E in the pull-down area.

The menu part is available on the diskette as a separate file called POP10. This file can by means of a regular text editor be included in your personal menu structure.

The library is available in several languages and runs on release 10, 11 and 12 of AutoCAD. We also provide an English DXF version to serve other CAD users. Other than to run AutoCAD, no additional hard- or software requirements are needed.

♦ D-M-E Standard™ CAD

Ein Katalog mit Zeichenhilfe

Um die Lücke zwischen der CAD-Software und dem Expert-Design System zu schließen, hat D-M-E eine preisgünstige AutoCAD Symbol-Bibliothek entwickelt. Diese einfach anzuwendende, zeitsparende Bibliothek beinhaltet Standardformen, Standard-Elementgruppen und Komponentengruppen für Heißkanalsysteme mit höchster Präzision.

Einfacher Installation

Wenn der D-M-E Standard CAD sich selbst einmal auf Ihrer Festplatte installiert hat, ist das ACAD.MNU um das D-M-E Menü in der Pull-Down Menüleiste erweitert.

Das D-M-E Menü ist auf der Diskette als eine separate Datei, genannt POP10 verfügbar. Diese Datei kann mit einem normalen Text-Editor in Ihre eigene Menü-Struktur aufgenommen werden. Die Bibliothek gibt es in verschiedenen Sprachen. Sie läuft auf Release 10, 11 oder 12 auf AutoCAD. Wir können auch eine englische DXF-Version liefern, um auch andere CAD-Anwender zu bedienen. Es werden keine weiteren Hard- oder Softwarebedingungen gestellt, als AutoCAD installiert zu haben.

D-M-E Standard™ CAD	REF. AutoCad	REF. DXF
English	CAD 0104	CAD 0204
French	CAD 0105	CAD 0205
German	CAD 0101	CAD 0201

D-M-E Standard™ CAD	REF. AutoCad	REF. DXF
Englisch	CAD 0104	CAD 0204
Französisch	CAD 0105	CAD 0205
Deutsch	CAD 0101	CAD 0201

Info

♥ CAD/CAM

♦ CAD/CAM

CAD/CAM ♣

CAO/CFAO ♠



♣ D-M-E Standard™ CAD

Een betaalbare oplossing

Om de kloof tussen de algemeen gebruikte software en de gesofistikeerde Expert systemen te overbruggen, ontwikkelde D-M-E een 'low-cost' symbolenbibliotheek voor AutoCAD. De D-M-E Standard™ CAD stelt de matrijstekenaar in staat met de grootste nauwkeurigheid spuitgietmatrijzen te ontwerpen en te tekenen. De gebruiksvriendelijke en werkbesparende symbolenbibliotheek omvat standaard matrijzen, verzamelingen van standaard matrijskomponenten en componentgroepen voor het ontwerpen van 'runnerless spuitgietsystemen'.

Volledig automatische installatie

Nadat de D-M-E Standard™ CAD zich op de harde schijf geïnstalleerd heeft, verschijnt D-M-E in de gewone statusmenu. Het D-M-E menugedeelte is op de diskette beschikbaar als een afzonderlijk bestand POP10. Dit bestand kan door middel van een gewone tekstverwerker opgenomen worden in uw persoonlijke menustructuur.

De D-M-E symbolenbibliotheek is in verscheidene talen beschikbaar en werkt met versies 10, 11 en 12 van AutoCAD. Om andere CAD-gebruikers van dienst te zijn, levert D-M-E tevens een engelse DXF-versie van de D-M-E Standard™ CAD.

♠ D-M-E Standard DME CAD

Solution économique

Afin de combler le fossé entre le logiciel de dessin général et le système 'Expert' de haut niveau, D-M-E a développé une librairie AutoCAD simple et économique.

Néanmoins, avec le logiciel D-M-E Standard™ CAD, le concepteur du moule dispose d'un outil de dessin DAO moderne et précis. Cette bibliothèque conviviale contient les corps de moule standard, les divers groupes d'éléments standard et les composants pour l'injection par canaux chauds.

Complètement auto-installant

Une fois le D-M-E Standard™ CAD auto-installé sur le disque dur, le répertoire ACAD-MNU contient D-M-E dans la barre de menu latérale. La partie 'menu' est disponible sur la disquette ainsi que fichier séparé appelé POP10. Ce fichier peut être inclus dans votre structure de menu en utilisant un éditeur de texte ordinaire. La bibliothèque est disponible en diverses langues et fonctionne avec les versions 10, 11 et 12 d'AutoCAD.

Une version anglaise DXF est aussi disponible pour servir d'autres systèmes CAO.

Le D-M-E Standard ne requiert que AutoCad. D'autres équipements ou logiciels auxiliaires ne sont pas nécessaires.

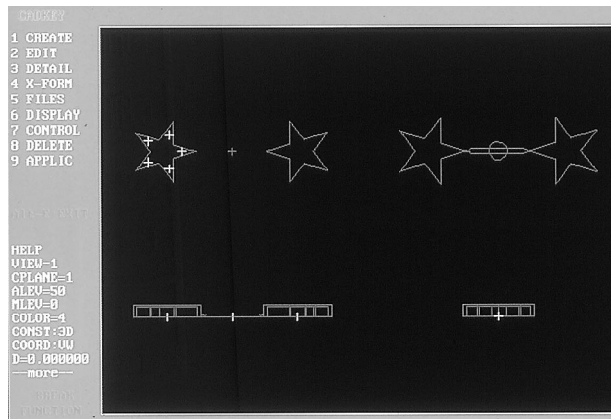
D-M-E Standard™ CAD	REF. AutoCad	REF. DXF
Engels	CAD 0104	CAD 0204
Frans	CAD 0105	CAD 0205
Duits	CAD 0101	CAD 0201

D-M-E Standard™ CAD	REF. AutoCad	REF. DXF
Anglais	CAD 0104	CAD 0204
Français	CAD 0105	CAD 0205
Allemand	CAD 0101	CAD 0201

Info

♥ Ultimate
♦ Ultimate

Ultimate ♣
Ultimate ♠



♥ Ultimate

The D-M-E Ultimate Mold Design System, newest addition to the D-M-E Moldware CAD/CAM family, is an invaluable design and manufacturing tool that can shorten lead times and help produce higher quality injection molds by automating the more tedious aspects of the mold design process.

Among the key features:

A 3-D database automatically creates and updates twodimensional assembly drawings, individual plate layouts, bills of materials and machining schedules.

Feature-based software understands how you design a mold. Locations and clearance holes for items such as support pillars and ejector pins are automatically created and modified as other components are added, altered or moved.

Intelligent software takes advantage of the mold designer's skill and experience with utmost efficiency. Built-in design rules check component compatibilities and help avoid potential conflicts and errors.

Complete compatibility allows D-M-E to work easily within either CADKEY or AutoCAD. The D-M-E system uses the menu structure of the host CAD system for smoother interface consistency.

Flexibility to customize allows to modify default settings and adjust file parameter to accommodate individual parts lists, layouts, part representations and on-screen colors. One can choose from a menu of recommended D-M-E standardized mold base sizes or create ones own 'specials'.

And all with surprising ease! Using the simple on-screen menus, almost anyone with basic CAD experience can begin using D-M-E Ultimate immediately and become proficient within a few weeks.

Both 'inch' and 'metric' lines of D-M-E products are incorporated in the library, making from Ultimate a product useable worldwide. Ultimate provides the most advanced mold design capabilities available with an affordable PC format.

♦ Ultimate

Das D-M-E Ultimate Formenkonstruktionssystem, der neueste Zugang zu den D-M-E Moldware CAD/CAM Programmen, ist ein unbezahlbares Konstruktions- und Fertigungshilfsmittel, das die Durchlaufzeiten für die Formenfertigung reduziert und durch die Automatisierung der Abläufe zu besseren Konstruktionen, bzw. Formen beiträgt.

Die wichtigsten Vorteile:

Eine **3-D Datenbank** erstellt und ändert automatisch zweidimensionale Zusammenbauzeichnungen, Einzelplattenzeichnungen, Stücklisten und Bearbeitungspläne.

Zukunftweisende Software versteht wie Sie eine Form aufbauen. Lage und Durchmesser für Durchgangsbohrungen für Teile, wie Abstützungen und Auswerferstifte werden automatisch erstellt und angepasst, wenn andere Komponenten hinzu kommen, verändert werden, oder deren Lage geändert wird.

Die **intelligente Software** nimmt Rücksicht auf den Kenntnisstand des Konstrukteurs, und das mit maximaler Effizienz. Eingebaute Routinen prüfen Komponenten auf gegenseitige Verträglichkeit und helfen potentielle Fehler und Überschneidungen zu vermeiden.

Komplette Kompatibilität zu den Programmen CADKEY oder AutoCAD erlauben es dem D-M-E Programm mit diesen problemlos zu arbeiten. Das D-M-E System benützt die Menuestruktur des jeweiligen CAD Programmes für ein leichteres Interfacing.

Die **Flexibilität zur Anpassung** erlaubt die Veränderung der Voreingestellten Werte und der Fileparameter um individuelle Stücklisten, Layouts, Teileansichten und Farben zu generieren. Man kann von vorgeschlagenen D-M-E Formaufbauten aus einem Menue wählen, oder seine eigenen, speziellen Aufbauten erstellen.

Und Alles mit einer überraschenden Leichtigkeit! Mit den einfachen Bildschirmmenues kann fast Jeder mit grundlegenden CAD Kenntnissen das D-M-E Ultimate Programm benutzen und wird innerhalb weniger Wochen professionell damit arbeiten können.

Beides "Inch" und "Metrisch" aufgebaute D-M-E Produkte sind in der Teilebibliothek eingebaut und machen das Ultimate Programm weltweit nutzbar. Ultimate bietet das mit dem PC Format am weitesten entwickelte Konstruktionssystem für Formen.

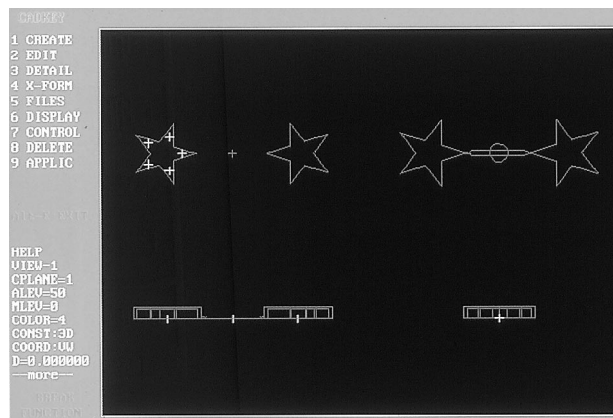
♥ Special machining - CAD/CAM
♦ Sonderbearbeitung - CAD/CAM

Special machining - CAD/CAM ♣
Travaux spéciaux - CAO/CFAO ♠

Info

♥ Ultimate
♦ Ultimate

Ultimate ♣
Ultimate ♠



♣ Ultimate

Het D-M-E Ultimate Matris-ontwerpsysteem, de meest recente ontwikkeling in de D-M-E Moldware CAD/CAM-produktlijn, is een ontwerp- en produktiehelpmiddel van onschatbare waarde. Dit systeem levert een belangrijke bijdrage in de beperking van de doorlooptijden en de produktie van kwalitatief hoogstaande spuitgietmatrijzen, doordat het de tijdrovende aspecten van het matris-ontwerpproces automatiseert.

Enkele sleutelkenmerken:

Een **3-D-database** creëert en herzielt automatisch 2-D-samenstellingstekeningen, layouts van individuele platen, materiaallijsten en produktiebewerkingsschema's.

Software met karakter, die begrijpt hoe een matris opgebouwd wordt. Locaties en uitkameringen voor componenten zoals steunkolommen en uitwerppennen worden automatisch gecreëerd en gewijzigd telkens er andere componenten toegevoegd, gewijzigd of verplaatst worden.

Intelligente software, die op een uiterst efficiënte wijze de vakkundigheid en de ervaring van de matrisontwerper benut. Ingebouwde ontwerpregels gaan na of de geselecteerde componenten compatibel zijn, zodat potentiële conflicten en fouten voorkomen worden.

Complete compatibiliteit, waardoor het mogelijk wordt probleemloos te werken binnen een CADKEY- of Auto-CAD-omgeving. Het D-M-E-systeem maakt gebruik van de menustructuur van het CAD-gastsysteem voor een uniform gebruik.

Flexibel systeem, dat toelaat standaardinstellingen te wijzigen en bestandparameters in te stellen waardoor stuklijsten, layouts, weergaves van componenten en kleurcodes individueel kunnen aangepast worden. Men kan kiezen uit een menu met aanbevolen D-M-E gestandaardiseerde matrisafmetingen of zelf 'speciale' afmetingen creëren.

Het D-M-E Ultimate Systeem is uiterst gebruiksvriendelijk! Door gebruik te maken van eenvoudige beeldschermmenu's kan haast iedereen met een basiservaring van CAD onmiddellijk beginnen werken met de D-M-E Ultimate. In enkele weken tijd leert men het systeem op een efficiënte manier aanwenden.

De bibliotheek van het matris-ontwerpsysteem bevat zowel 'duim' als 'metrische' D-M-E-produktlijnen, waardoor de Ultimate wereldwijd bruikbaar wordt. Het Ultimate Systeem biedt de meest geavanceerde matrisontwerpmogelijkheden in een betaalbaar PC-formaat.

♠ Ultimate

Le dernier né de la famille CAO/FAO D-M-E Moldware est le progiciel de dessin et conception de moules D-M-E Ultimate. Il constitue un outil incomparable pour la conception et la fabrication, permettant de réduire les délais et de garantir une haute qualité des moules d'injection et automatisant les tâches les plus fastidieuses du processus de conception de dessin.

Parmi les propriétés fondamentales:

Une **base de donnée tri-dimensionnelle** crée et met à jour automatiquement les dessins d'ensemble à deux dimensions, des géométries de plaques individuelles, des nomenclatures de pièces et des fichiers d'usinage.

Une **programmation basée sur les propriétés intrinsèques des objets** comprend comment on conçoit un moule. Les positions et les alésages pour des éléments tels que des colonnes support ou éjecteurs sont créés automatiquement, et modifiés si d'autres composants sont ajoutés, modifiés ou déplacés.

Le **logiciel 'intelligent'** profite du talent et de l'expérience du concepteur avec un maximum d'efficacité. Des règles de dessin intégrées contrôlent la compatibilité des composants et aident à éviter des conflits et erreurs potentiels.

Une **compatibilité complète** permet à Ultimate de fonctionner harmonieusement avec AutoCad ou CadKey. Le système D-M-E utilise la structure des menus du système CAO d'accueil afin d'assurer une connexion cohérente et souple.

La **flexibilité** permet de personnaliser le système, de modifier les choix par défaut et d'ajuster les paramètres des fichiers afin de redéfinir les nomenclatures, les mises en page, les modes de représentation des pièces et les couleurs de l'écran. De plus, on peut choisir par un menu les porte-moules standard D-M-E recommandés, ou créer ses propres carcasses spéciales.

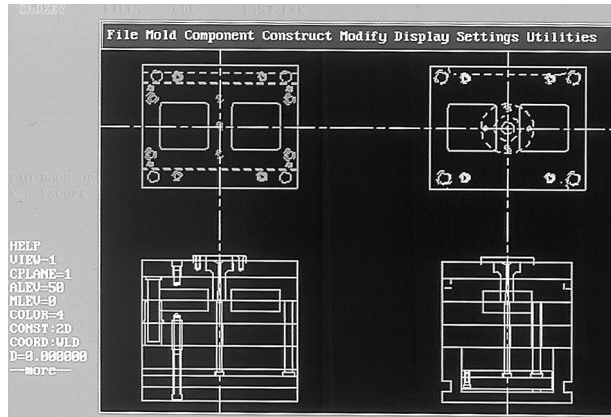
Et tout ceci avec une facilité surprenante! Utilisant des menus simples présents à l'écran, un utilisateur disposant d'une expérience CAO de base est capable d'utiliser D-M-E Ultimate immédiatement, et devient parfaitement rodé en quelques semaines.

Les deux lignes de produits D-M-E en 'pouces' et 'métriques' sont incorporées dans la librairie, faisant ainsi d'Ultimate un produit utilisable dans le monde entier. Ultimate offre en fait le progiciel de dessin de moules le plus performant qui soit utilisable sur un ordinateur personnel.

Info

♥ Ultimate
♦ Ultimate

Ultimate ♣
Ultimate ♠



♥ Ultimate

How does Ultimate perform:

Interactive cavity layout reduces lead time:

To start, the 2-D data for the intended part are transferred from the host CAD into the D-M-E Ultimate Mold Designing System. Precise cavity and core inserts for the job are defined within seconds. Throughout the process, data will automatically be converted to a continuously updated 3-D mold database to assure accuracy and documentation.

Test mold base feature provides quick reference:

Before any tooling is ordered or any metal is cut, the D-M-E Ultimate Mold Design System 'projects' the part and cavity inserts into a range of mold bases in a test mold plan view to assure that the best size and style base is selected. If the initial test base is too large or small or otherwise inappropriate one can instantly test another size or configuration.

Informed mold base selection:

D-M-E Ultimate next displays a menu of appropriate standardized bases for the job, drawn from D-M-E's industry leading series of sizes and styles. Or one can specify a 'special' mold base. Keeping the user continuously informed is among the most important ways the system helps.

Component selection with automatic design rules saves added time:

One selects standard D-M-E mold components such as ejector pins, support pillars or guided ejection and D-M-E Ultimate takes care of the details. When a component is installed, appropriate fits and clearances are automatically added to the database. The component listing is also inserted into the bill of materials. Design rules may be customized or modified.

♦ Ultimate

Wie arbeitet das Ultimate Program:

Interaktives Kavitäten Layout spart Konstruktionszeit:

Zum Start werden die 2-D Daten des Spritzteils von dem benutzten CAD System an das Ultimate Formenkonstruktionssystem übergeben. Präzise Einsätze und Kerne werden für das Teil in Sekunden generiert. Während dem weiteren Konstruktionsprozess werden diese Daten automatisch für eine 3-D Datenbank zu dem jeweiligen Formaufbau aktuell gehalten.

Möglichkeiten zu einem Testaufbau erlauben schnelles Auswählen:

Bevor ein Formaufbau bestellt ist oder Material bearbeitet ist, erlaubt es das D-M-E Ultimate Formenkonstruktionssystem die Teile oder Formeinsätze in verschiedenen Aufbauten zu sehen, um den optimale Formaufbau zu wählen. Wenn der zuerst gewählte Formaufbau zu groß oder zu klein ist, kann unmittelbar ein anderer Formaufbau getestet werden.

Unterstützte Formaufbau Auswahl:

D-M-E Ultimate zeigt zunächst ein Menue mit den standardisierten Formaufbauten für den gewählten Einsatz, gezeichnet aus den Serien von D-M-E oder man kann einen speziellen Formaufbau spezifizieren. Den Anwender kontinuierlich zu informieren was möglich ist, ist der wichtigste Bestandteil mit dem das Programm dem Anwender hilft.

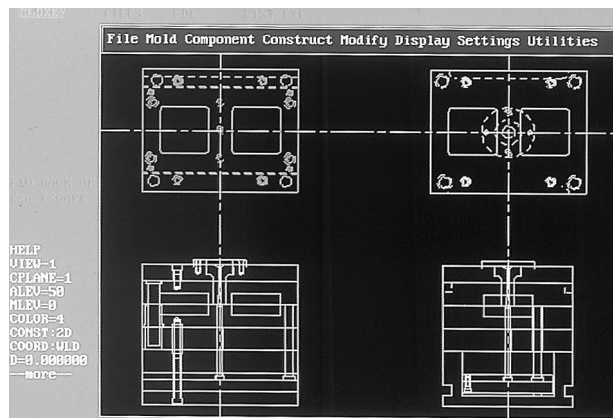
Komponentenauswahl mit automatischen Konstruktionsrichtlinien sparen Zeit:

Wenn ein D-M-E standard Bauteil ausgewählt wurde, z.B. ein Auswerferstift, Stützbolzen, geführte Auswerferplatten, etc. D-M-E Ultimate beachtet die Details. Wenn ein Bauteil integriert wird, werden z.B. die zugehörige Einbaulage und die Durchgangsbohrungen automatisch zu dem gewählten Formaufbau hinzugefügt. Die Stückliste wird automatisch ergänzt um das Bauteil, welches hinzugefügt wurde. Die Konstruktionsvorschriften können geändert oder dem Kunden angepasst werden.

Info

♥ Ultimate
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Ultimate ♠



♣ Ultimate

Hoe het Ultimate Systeem werkt:

Interactief ontwerp van de matrijsholtes vermindert de doorlooptijd:

Eerst en vooral worden de 2-D-gegevens voor het betreffende produkt van het CAD-gastsysteem naar het D-M-E Ultimate Systeem getransfereerd. De optimale matrijsholte- en kerninzetstukken worden in een mum van tijd door het systeem gedefinieerd.

De 3-D-database wordt tijdens het ontwerpproces constant bijgewerkt, zodat nauwkeurigheid en informatie gewaarborgd zijn.

Testopzet vereenvoudigt de matrijsselectie:

Vooraleer de matrijs in productie gaat, worden het produkt en de vormholte-inzetstukken in een reeks matrijshuizen geprojecteerd. Via deze testweergave kan men nagaan of de meest geschikte afmeting en het beste matrijsontwerp geselecteerd werden. Als de initiële testmatrijs te groot, te klein of op een andere manier niet geschikt is, kan er onmiddellijk een andere afmeting of configuratie getest worden.

Geïnformeerde matrijshuissselectie:

De D-M-E Ultimate toont tevens een menu met gestandaardiseerde matrijshuizen, geschikt voor een specifieke toepassing. Deze lijst is geselecteerd uit de meest toegepaste series D-M-E-matrijsontwerpen en -afmetingen in de kunststofindustrie. Het is ook mogelijk een 'speciaal' matrijshuis te specificeren. Een van de belangrijkste aspecten van het Ultimate Systeem is dat het de gebruiker voortdurend informatie verschaft.

Selektie van componenten via automatische ontwerpregels bespaart tijd:

De gebruiker selecteert standaard D-M-E matrijscomponenten zoals uitwerppennen, steunkolommen of uitwerpleiding, en het Ultimate systeem verzorgt de details. Wanneer een component ingebouwd is, wordt de bijbehorende produktiegeometrie automatisch aan de database toegevoegd. Ook de stuklijst wordt automatisch aan de materiaallijst toegevoegd. De ontwerprijtlijnen kunnen naar klantspecificaties aangepast worden.

♠ Ultimate

Comment fonctionne Ultimate:

La mise en place interactive des empreintes réduit les délais:

Tout d'abord, les données 2D de la pièce prévue sont transférées du système CAO d'accueil dans le système de dessin de moules D-M-E Ultimate. Les inserts, empreintes et noyaux sont définis précisément en quelques secondes. Durant le processus, les données sont automatiquement transférées dans une base de données 3D continuellement mise à jour afin d'assurer l'exactitude de l'information.

Un 'moule d'essai' permet un contrôle rapide:

Avant toute commande d'un outillage ou avant tout usinage, le système de conception de moules D-M-E Ultimate 'projette' les empreintes ou inserts dans une série de porte-moules standard d'essai, visualisés à l'écran, afin de vérifier que les meilleures dimensions et le bon type de moule ont été choisis. Si le porte-moule initial est trop grand ou trop petit, ou inadéquat pour une autre raison, on peut immédiatement essayer une autre taille ou disposition.

Sélection du porte-moule choisi:

D-M-E Ultimate affiche ensuite un menu de porte-moules standard adéquats pour le projet, pris parmi les dimensions et styles de la gamme D-M-E couramment utilisés dans l'industrie. Alternativement, on peut définir une carcasse spéciale. L'information continue de l'utilisateur est un des points forts du système.

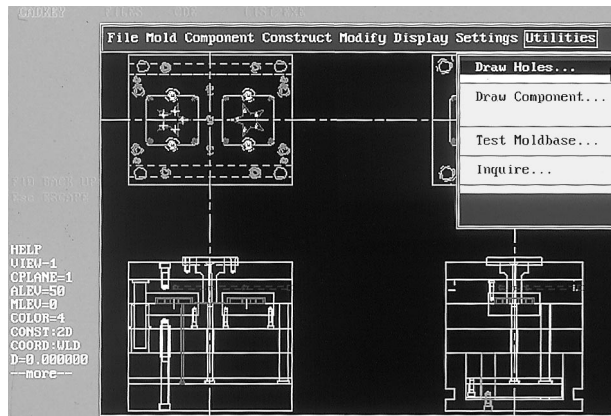
La sélection des composants moyennant les règles de dessin automatiques permet d'économiser encore plus de temps:

L'on choisit un composant tel qu'éjecteurs, colonne-support ou guidage d'éjection, et D-M-E Ultimate prend soin des détails. Lorsqu'un composant est introduit, les portées et tolérances dimensionnelles appropriées sont ajoutées automatiquement à la base de données. La liste des composants est aussi insérée dans la nomenclature générale. Les règles de dessin peuvent être personnalisées ou changées.

Info

♥ Ultimate
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Ultimate ♠



♥ Ultimate

Waterlines and runner paths set for optimum performance:

The D-M-E Ultimate Mold Design System uses well-established design rules to interactively add and position runner paths and waterlines within the mold.

The system also has the intelligence to process and interpret designer's instructions as no other PC-based mold design system today can.

Updated bill of materials adds speed, documentation:

As the mold continues to take shape, D-M-E Ultimate continually updates a full bill of materials. Identification balloons can be included on the drawings for clarity. D-M-E part numbers can also be shown to facilitate faster ordering of parts.

Individual plate detailing assists machining:

More than just a design tool, the D-M-E Ultimate system provides valuable manufacturing information. With the molddesign completed, detailed drawings and machining schedules containing size and coordinate information for direct CNC input can now be created automatically to facilitate manual or CNC machining.

Designing layout promotes flexibility:

At any point, drawing layouts can be selected and altered to suit individual user requirements. Mold component drawings can also be modified to suit full or half section needs. And because D-M-E Ultimate manipulates details directly through the database, one has not to worry about creating and working through a maze of layered views.

♦ Ultimate

Kühlbohrungen und Angießverteiler werden optimal ausgewählt:

Das D-M-E Ultimate Formenkonstruktionsystem benützt erprobte Konstruktionrichtlinien, um Kühlbohrungen oder Angießverteiler interaktiv in die Form zu integrieren.

Das System hat darüber hinaus die Fähigkeit die Instruktionen des Konstrukteurs wie kein anders PC basierendes System zu interpretieren und auszuführen.

Erweiterte Stücklistengenerierung beschleunigt die Konstruktion:

So wie die Form Gestalt bekommt, wird die Stücklist kontinuierlich angepasst. Positionsnummern können in die Zeichnung eingebracht werden um das identifizieren der Bauteile zu erleichtern. Die D-M-E Teilenummern können ebenfalls gezeigt werden um ein schnelleres Bestellen der Teile zu ermöglichen.

Einzelplattendetailierung unterstützt die Bearbeitung:

Mehr als nur ein Zeichenprogramm, das D-M-E Ultimate System bietet wertvolle Fertigungsinformationen. Mit dem fertigen Auswählen des Formaufbaus, bietet das automatisch System Zeichnungen und Tabellen für das CNC Bearbeiten der Platten.

Der Konstruktionsaufbau bietet Flexibilität:

An jedem Punkt können Zeichnungslayouts gewählt und geändert werden um dem jeweiligen Anwender die notwendige Übersicht zu ermöglichen. Komponentenzeichnungen können ebenfalls geändert werden, um Ganz- oder Teilschnitte zu erhalten. Weil das D-M-E Ultimate Programm Details direkt über die Datenbank verändert, muß man nicht durch eine ganze Anzahl von Layer.

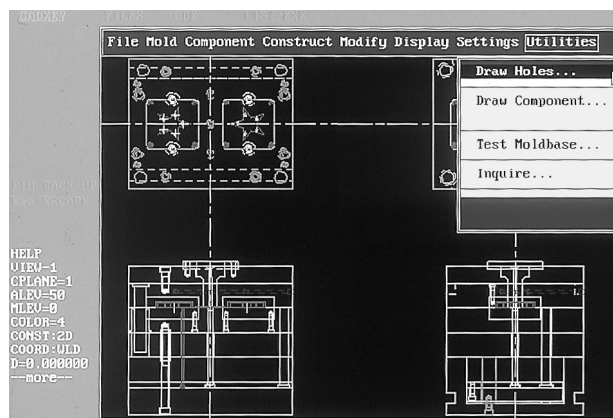
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Info

♥ Ultimate
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♣ Ultimate

Koel- en vloeikanalen zijn meer dan boringen:

Het D-M-E Ultimate matrijs-ontwerpsysteem steunt op duidelijk gedefinieerde ontwerpregels om op interactieve wijze vloe- en koelkanalen in de matrijs toe te voegen en te positioneren. Het systeem is bovendien in staat de instructies van de ontwerper te interpreteren en uit te voeren, wat geen enkel ander computer-gestuurd matrijs-ontwerpsysteem op de markt evenaart.

Constant bijgewerkte materiaallijst versnelt het ontwerpen van matrijzen:

De lijst van materialen wordt door het Ultimate Systeem vervolledigd naarmate het matrijsontwerp vordert. Identifikatieballonnetjes kunnen ter verduidelijking aan de tekeningen toegevoegd worden. Ook D-M-E referentienummers kunnen aangebracht worden om het bestellen van onderdelen te vergemakkelijken.

Gedetailleerde beschrijving van de individuele platen ondersteunt het productieproces:

De D-M-E Ultimate is meer dan een ontwerpsysteem alleen, het verschaft immers ook waardevolle informatie voor de productiefase.

Wanneer het matrijsontwerp voltooid is, kunnen er automatisch gedetailleerde tekeningen en bewerkingsschema's gecreëerd worden met informatie over afmetingen en coördinaten. Deze informatie wordt gebruikt voor rechtstreekse CNC-invoer om de manuele of CNC-bewerkingen te vergemakkelijken.

Ontwerp-layout verhoogt de flexibiliteit:

Layouts van tekeningen kunnen op elk ogenblik in de ontwerpfase geselecteerd of gewijzigd worden naargelang de individuele vereisten van de gebruiker. Ook de tekeningen van matrijscomponenten kunnen aangepast worden, naargelang de componenten volledig of in doorsnede moeten weergegeven worden. Aangezien de D-M-E Ultimate rechtstreeks gegevens uitwisselt met de database, is de opgebouwde lagenstructuur uiterst georganiseerd en overzichtelijk.

♠ Ultimate

Les canaux d'écoulement matière et les circuits de refroidissement sont positionnées pour une performance optimale:

Le système de dessin de moules D-M-E Ultimate utilise des règles de conception bien établies, afin d'ajouter et de positionner de façon interactive les canaux d'écoulement et lignes de refroidissement dans le moule.

Le système possède aussi l'intelligence nécessaire pour traiter et interpréter les instructions du concepteur, comme aucun autre système de dessin de moules travaillant sur PC ne peut le faire aujourd'hui.

La mise à jour de la nomenclature ajoute de la vitesse et complète l'information:

Au fur et à mesure que le moule prend forme, D-M-E Ultimate met continuellement à jour la nomenclature générale. Des 'phylactères' ou cadres d'identification peuvent être inclus sur le dessin à des fins de clarification. Les références catalogue D-M-E peuvent aussi être montrées afin de faciliter et accélérer la commande des pièces.

Les détails du dessin des plaques de moule individuelles aident l'usinage:

Plus qu'un outil de dessin seulement, le système D-M-E Ultimate donne des informations très utiles pour l'usinage. Une fois le dessin du moule terminé, il est possible de générer des détails du dessin et des séquences d'usinage, contenant les dimensions et coordonnées nécessaires pour la programmation numérique CNC, ou l'usinage 'manuel'.

Disposition flexible des dessins:

A tout moment, la disposition des dessins sur l'écran peut être choisie ou altérée afin de satisfaire les exigences de l'utilisateur. Les dessins de composants de moule peuvent aussi être modifiés en coupe totale ou partielle.

De plus, puisque D-M-E traite les détails directement par la base de données, il n'est pas nécessaire de se compliquer la vie en les créant ou en cherchant son chemin sous un empilement de couches.

REF.

CAD 0404-V 2.0

Engels

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CAD 0404-V 2.0

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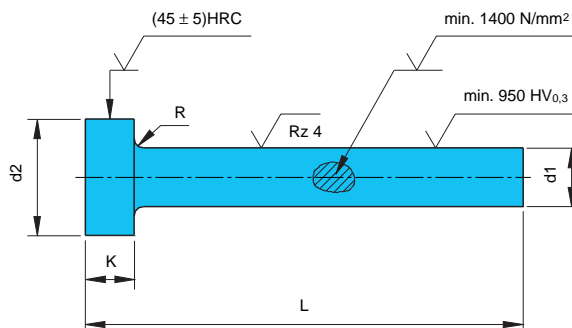
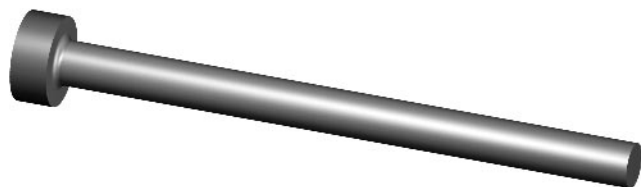
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	-200							-315							-500								-125						-400					
	-250							-400							E7	-100	7	12	5	0,5			-160						-500					
E2,2	-100	2,2	4	2	0,2		E4,5	-100	4,5	8	3	0,3			-125								-200						-630					
	-125							-125							-160								-250						-800					
	-160							-160							-200								-315						-1000					
	-200							-200							-250								-400						E16	-100	16	22	7	0,8
E2,5	-100	2,5	5	2	0,3			-250							-315								-500						-125					
	-125							-315							-400								-630						-160					
	-160							-400							-500								E10,5-	10,5	16	5	0,5		-200					
	-200							E5	-100	5	10	3	0,3		E8	-100	8	14	5	0,5			-125						-250					
	-250							-125							-125								-160						-315					
	-315							-160							-160								-200						-400					
E2,7	-100	2,7	5	2	0,3			-200							-200								-250						-500					
	-125							-250							-250								-315						-630					
	-160							-315							-315								-400						-800					
	-200							-400							-400								-500						-1000					
E3	-100	3	6	3	0,3			-500							-500								-630						E18	-100	18	24	7	0,8
	-125							-630							-630								E11	-100	11	16	5	0,5		-125				
	-160							E5,2	-100	5,2	10	3	0,3		-800								-125						-160					
	-200							-125							E8,2	-100	8,2	14	5	0,5			-160						-200					
	-250							-160							-125								-200						-250					
	-315							-200							-160								-250						-315					
	-400							-250							-200								-315						-400					
	-500							-315							-250								-400						-500					
E3,2	-100	3,2	6	3	0,3			-400							-315								-500						-630					
	-125							-500							-400								-630						E20	-100	20	26	8	1
	-160							E5,5	-100	5,5	10	3	0,3		-500								-1000						-125					
	-200							-125							-630								-125						-160					
	-250							-160							E8,5	-100	8,5	14	5	0,5			-160						-200					
	-315							-200							-125								-200						-250					
	-400							-250							-160								-250						-315					
E3,5	-100	3,5	7	3	0,3			-315							-200								-315						-400					
	-125							-400							-250								-400						-500					
	-160							-500							-315								-500						-630					
	-200							E6	-100	6	12	5	0,5		-400								-630						-800					
	-250							-125							-500								-1000						-1000					
	-315							-160							-630								-125						-125					
	-400							-200							E9	-100	9	14	5	0,5			-160						-160					
	-500							-250							-125								-200						-200					
E3,7	-100	3,7	7	3	0,3			-315							-160								-250						-250					
	-125							-400							-200								-315						-315					
	-160							-500							-250								-400						-400					
	-200							-630							-315								-500						-500					
	-250							-400							-400								-630						-630					
	-315							E6,2	-100	6,2	12	5	0,5		-400								-800						-800					
	-400							-125							-500								-1000						-1000					
	-500							-160							-630								-125						-125					
E4	-100	4	8	3	0,3			-200							E10	-100	10	16	5	0,5			-160						-160					
	-125							-250							-125								-200						-200					
	-160							-315							-160								-250						-250					
	-200							-400							-200								-315						-315					
	-250							-500							-250								-400						-400					
	-315							-630							-315								-500						-500					
	-400							-125							-400								-630						-630					
	-500							-160							-500								-800						-800					
								-200							-630								-1000						-1000					
E4,2	-100	4,2	8	3	0,3			-315							-125								-125						-125					
	-125							-160							-160								-160						-160					
								-200							-200								-200						-200					

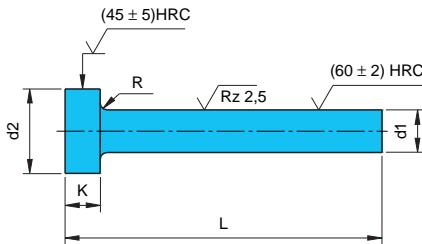
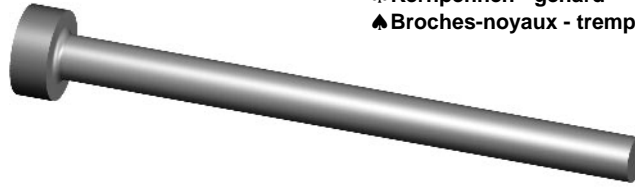
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

AH

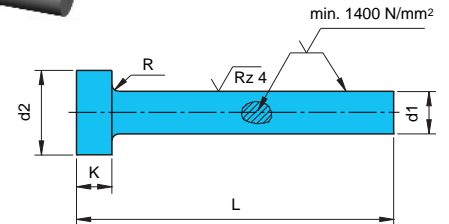
Typ(e) AH DIN 1530/ISO 6751

♥ Ejector pins - hardened
♦ Auswerferstifte - gehärtet
♣ Uitwerppennen - gehard
♠ Ejecteurs - trempés



250°C
Mat. 1.2210

500°-550°C
Mat. 1.2344



REF.	d1	L	d1	d2	K	R	REF.	d1	L	d1	d2	K	R	REF.	d1	L	d1	d2	K	R
	d1	L	d1	d2	K	R		d1	L	d1	d2	K	R		d1	L	d1	d2	K	R
AH 1,5 -100	1,5	3	1,5	0,2	0,05	0,2	AH 4 -160	4	8	4	8	3	0,3	AH 8 - 60	8	14	8	14	5	0,5
-125							-200							- 80						
-160							-250							-100						
AH 1,6 - 40	1,6	3	1,5	0,2			-315							-125						
- 60							AH 4,2 -100	4,2	8	4,2	8	3	0,3	-160						
- 80							-125							-200						
-100							-160							-250						
-125							-200							-315						
-160							-250							AH 8,2 -100	8,2	14	8,2	14	5	0,5
-200							-315							-125						
AH 2 - 40	2	4	2	0,2			AH 4,5 -100	4,5	8	4,5	8	3	0,3	-160						
- 60							-125							-200						
- 80							-160							-250						
-100							-200							-315						
-125							AH 5 - 40	5	10	5	10	3	0,3	AH 10 - 80	10	16	10	16	5	0,5
-160							- 60							-100						
-200							- 80							-125						
-250							-100							-160						
AH 2,2 -100	2,2	4	2	0,2			-125							-200						
-125							-160							-250						
-160							-200							-315						
-200							-250							AH 10,2-100	10,2	16	10,2	16	5	0,5
-250							-315							-125						
AH 2,5 - 40	2,5	5	2	0,3			AH 5,2 -100	5,2	10	5,2	10	3	0,3	-160						
- 60							-125							-200						
- 80							-160							-250						
-100							-200							-315						
-125							-250							AH 10,5-100	10,5	16	10,5	16	5	0,5
-160							-315							-125						
-200							AH 5,5 -100	5,5	10	5,5	10	3	0,3	-160						
-250							-125							-200						
AH 3 - 40	3	6	3	0,3			-160							-250						
- 60							-200							-315						
- 80							AH 6 - 60	6	12	6	12	5	0,5	AH 12 - 80	12	20	12	20	7	0,8
-100							- 80							-100						
-125							-100							-125						
-160							-125							-160						
-200							-160							-200						
-250							-200							-250						
AH 3,2 -100	3,2	6	3	0,3			-250							-315						
-125							-315							AH 12,5-100	12,5	20	12,5	20	7	0,8
-160							AH 6,2 -100	6,2	12	6,2	12	5	0,5	-125						
-200							-125							-160						
-250							-160							-200						
AH 3,5 -100	3,5	7	3	0,3			-200							-250						
-125							-250							-315						
-160							AH 6,5 -100	6,5	12	6,5	12	5	0,5	AH 14 -100	14	22	14	22	7	0,8
-200							-125							-125						
-250							-160							-160						
AH 3,7 -100	3,7	7	3	0,3			-200							-200						
-125							-250							-250						
-160							AH 7 -100	7	12	7	12	5	0,5	-315						
-200							-125							-160						
-250							-160							-200						
AH 4 - 40	4	8	3	0,3			-200							-250						
- 60							-250							-315						
- 80																				
-100																				
-125																				

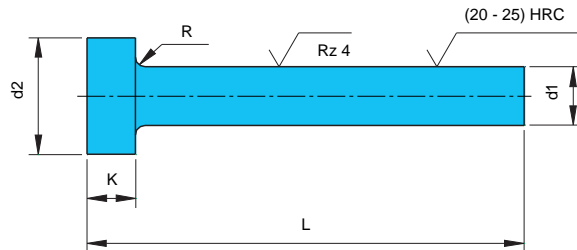
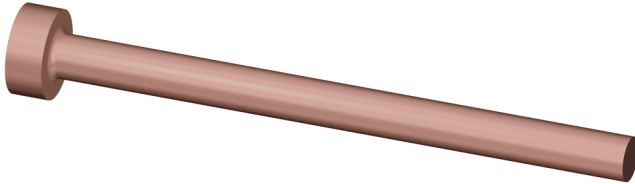
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

♣ Uitwerppennen & -hulzen ♠
Ejecteurs broches & tubulaires ♠

PCM

Typ(e) A DIN 1530/ISO 6751

- ♥ Performance core pins
- ♦ Hochleistungskernstifte
- ♣ Performantie kernpennen
- ♠ Broches-noyaux à haute performance



♥ 350°C - Mat.: Beryllium-free copper-based alloy
♦ 350°C - Mat.: Kupfer Legierung ohne Beryllium

♣ 350°C - Mat.: Berylliumvrije koperlegering
♠ 350°C - Mat.: Alliage de cuivre sans béryllium

REF. L ⁺¹⁰ ₀	d1 ^{+0,025} ₀	d2 ^{-0,25} ₀	K ^{-0,05} ₀	R max.	REF. L ⁺¹⁰ ₀	d1 ^{+0,025} ₀	d2 ^{-0,25} ₀	K ^{-0,05} ₀	R max.
PCM-015100	1,5	3	1,5	0,2	PCM-060160	6	12	5	0,5
-015160					-060200				
PCM-020100	2	4	2	0,2	-060315				
-020160					PCM-070100	7	12	5	0,5
-020250					-070160				
PCM-025100	2,5	5	2	0,3	-070250				
-025160					PCM-080100	8	14	5	0,5
-025250					-080160				
PCM-030100	3	6	3	0,3	-080200				
-030160					-080315				
-030250					PCM-100100	10	16	5	0,5
PCM-035100	3,5	7	3	0,3	-100160				
-035160					-100200				
-035250					-100315				
PCM-040100	4	8	3	0,3	PCM-120100	12	20	7	0,8
-040160					-120160				
-040200					-120200				
-040315					-120315				
PCM-045100	4,5	8	3	0,3	PCM-140100	14	22	7	0,8
-045160					-140160				
-045200					-140200				
PCM-050100	5	10	3	0,3	-140315				
-050160					PCM-160100	16	22	7	0,8
-050200					-160160				
-050315					-160200				
PCM-060100	6	12	5	0,5	-160315				

♥ High thermal conductivity pins

Advantages:

- Reduced cycle time
- 5 times better conductivity than steel
- Improved part quality
- Lower machining costs
- Longer service life

♦ Hoch wärmeleitende Kernstifte

Vorteile:

- Kürzere Zykluszeit
- 5 mal bessere Wärmeleitung als Stahl
- Bessere Teilequalität
- Niedrigere Bearbeitungskosten
- Längere Standzeit

♣ Performantie kernpennen met hoge thermische geleiding

Voordelen:

- Korte cyclustijd
- 5 maal beter geleidend dan staal
- Verbeterde produktkwaliteit
- Lagere bewerkingskosten
- Langere levensduur

♠ Broches-noyaux à haute conductibilité thermique

Avantages:

- Temps de cycle réduit
- 5 fois plus conducteur que l'acier
- Qualité d'aspect supérieure
- Coûts d'usinage réduits
- Une plus longue durée de vie

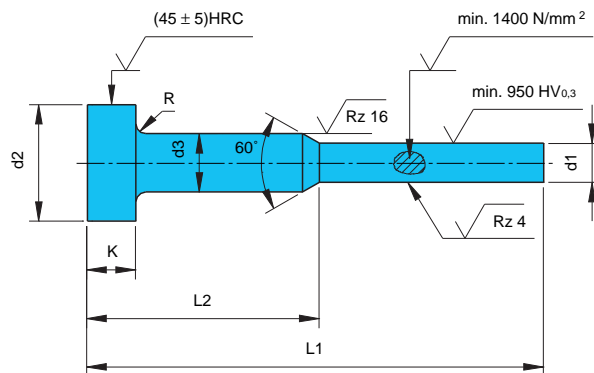
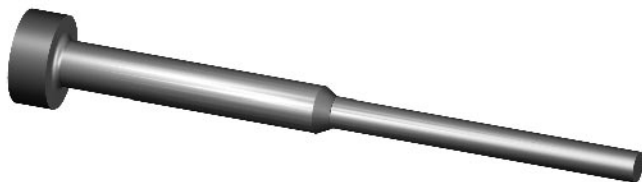
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

C

Typ(e) C DIN 1530/ISO 8694

♥ Ejector pins - nitrided
♦ Auswerferstifte - nitriert
♣ Uitwerppennen - genitreerd
♠ Ejecteurs - nitrurés



500°-550°C
Mat. 1.2344

REF. d1 L1 ⁺¹ ₀	L2 -1 2	d1 g ⁶	d2 -0,2 0	d3 -0,1 0	K -0,05 0	R	REF. d1 L1 ⁺¹ ₀	L2 -1 2	d1 g ⁶	d2 -0,2 0	d3 -0,1 0	K -0,05 0	R
EC 0,8- 80	35	0,8	4	2	2	0,3	EC 2 -160	75	2	6	3	3	0,3
-100	50						-200						
-125							-250						
-160	75						EC 2,2- 80	35	2,2	6	3	3	0,3
EC 0,9- 80	35	0,9	4	2	2	0,3	-100	50					
-100	50						-125						
-125							-160	75					
-160	75						-200						
EC 1 - 80	35	1	4	2	2	0,3	EC 2,5-100	50	2,5	6	3	3	0,3
-100	50						-125						
-125							-160						
-160	75						-200	75					
-200							-250						
EC 1,1- 80	35	1,1	4	2	2	0,3							
-100	50												
-125													
-160	75												
EC 1,2- 80	35	1,2	4	2	2	0,3							
-100	50												
-125													
-160	75												
EC 1,3- 80	35	1,3	4	2	2	0,3							
-100	50												
-125													
-160	75												
EC 1,4- 80	35	1,4	4	2	2	0,3							
-100	50												
-125													
-160	75												
EC 1,5- 80	35	1,5	6	3	3	0,3							
-100	50												
-125													
-160	75												
-200													
-250													
EC 1,6- 80	35	1,6	6	3	3	0,3							
-100	50												
-125													
-160	75												
-200													
EC 1,7- 80	35	1,7	6	3	3	0,3							
-100	50												
-125													
-160	75												
-200													
EC 1,8- 80	35	1,8	6	3	3	0,3							
-100	50												
-125													
-160	75												
-200													
EC 1,9- 80	35	1,9	6	3	3	0,3							
-100	50												
-125													
-160	75												
-200													
EC 2 - 80	35	2	6	3	3	0,3							
-100	50												
-125													

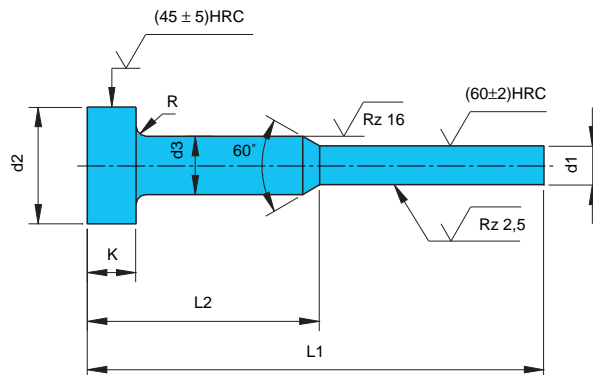
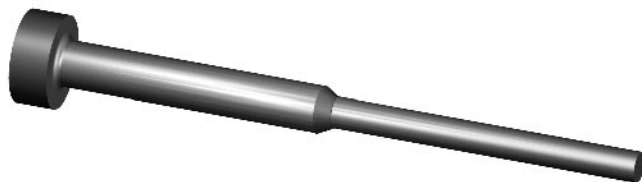
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

CH

Typ(e) CH DIN 1530/ISO 8694

♥ Ejector pins - hardened
♦ Auswerferstifte - gehärtet
♣ Uitwerppennen - gehard
♠ Ejecteurs - trempés



Max. 250°C
Mat. 1.2210

REF. d1 L1 ⁺⁰	L2 -1/2	d1 g ⁶	d2 -0,2	d3 -0,1	K -0,05	R	REF. d1 L1 ⁺⁰	L2 -1/2	d1 g ⁶	d2 -0,2	d3 -0,1	K -0,05	R
CH 0,8- 80	35	0,8	4	2	2	0,3	CH 2,2- 80	35	2,2	6	3	3	0,3
-100	50						-100	50					
-125							-125						
-160	75						-160	75					
CH 0,9- 80	35	0,9	4	2	2	0,3	CH 2,5-100	50	2,5	6	3	3	0,3
-100	50						-125						
-125							-160	75					
-160	75						-200						
CH 1 - 80	35	1	4	2	2	0,3							
-100	50												
-125													
-160	75												
CH 1,1- 80	35	1,1	4	2	2	0,3							
-100	50												
-125													
-160	75												
CH 1,2- 80	35	1,2	4	2	2	0,3							
-100	50												
-125													
-160	75												
CH 1,3- 80	35	1,3	4	2	2	0,3							
-100	50												
-125													
-160	75												
CH 1,4- 80	35	1,4	4	2	2	0,3							
-100	50												
-125													
-160	75												
CH 1,5- 80	35	1,5	6	3	3	0,3							
-100	50												
-125													
-160	75												
-200													
CH 1,6- 80	35	1,6	6	3	3	0,3							
-100	50												
-125													
-160	75												
-200													
CH 1,7- 80	35	1,7	6	3	3	0,3							
-100	50												
-125													
-160	75												
-200													
CH 1,8- 80	35	1,8	6	3	3	0,3							
-100	50												
-125													
-160	75												
-200													
CH 1,9- 80	35	1,9	6	3	3	0,3							
-100	50												
-125													
-160	75												
-200													
CH 2 - 80	35	2	6	3	3	0,3							
-100	50												
-125													
-160	75												
-200													

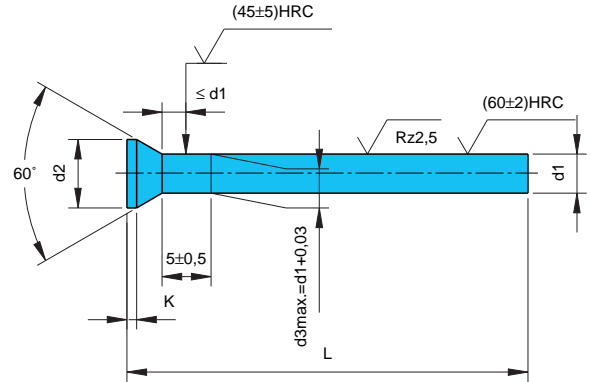
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

D

Typ(e) D DIN 1530

♥ Ejector pins - hardened
♦ Auswerferstifte - gehärtet
♣ Uitwerppennen - gehard
♠ Ejecteurs - trempés



Max. 250°C
Mat. 1.2210

REF. d1 L +0/-0.2	d1 g6	d2 h6	K +0.2/-0.2	REF. d1 L +0/-0.2	d1 g6	d2 h6	K +0.2/-0.2	REF. d1 L +0/-0.2	d1 g6	d2 h6	K +0.2/-0.2	REF. d1 L +0/-0.2	d1 g6	d2 h6	K +0.2/-0.2
D 1 -100	1	1,8	0,5	D 2,2 -160	2,2	3,2	0,5	D 3,6 -200	3,6	5	0,5	D 7,5 -125	7,5	10	1
-125				-200				D 3,75-100	3,75	5	0,5	-160			
-160				D 2,25-100	2,25	3,5	0,5	-125				-200			
-200				-125				-160				D 8 -100	8	10	1
D 1,1 -100	1,1	1,8	0,5	-160				-200				-125			
-125				D 2,3 -100	2,3	3,5	0,5	D 4 -100	4	5,5	0,5	-160			
-160				-125				-125				-200			
-200				-160				-160				-250			
D 1,2 -100	1,2	2	0,5	-200				-200				-315			
-125				D 2,4 -100	2,4	3,5	0,5	D 4,1 -100	4,1	5,5	0,5	D 8,5 -100	8,5	11	1
-160				-125				-125				-125			
-200				-160				-160				-160			
D 1,25-100	1,25	2	0,5	-200				-200				-200			
-125				D 2,5 -100	2,5	3,5	0,5	D 4,25-100	4,25	5,5	0,5	D 9 -100	9	11	1
-160				-125				-125				-125			
-200				-160				-160				-160			
D 1,3 -100	1,3	2	0,5	-200				-200				-200			
-125				D 2,6 -100	2,6	4	0,5	D 4,5 -100	4,5	6	0,5	D 10 -100	10	12	1
-160				-125				-125				-125			
-200				-160				-160				-160			
D 1,4 -100	1,4	2,2	0,5	-200				-200				-250			
-125				D 2,7 -100	2,7	4	0,5	D 4,6 -100	4,6	6	0,5	-315			
-160				-125				-125				D 12 -100	12	14	1
-200				-160				-160				-125			
D 1,5 -100	1,5	2,2	0,5	-200				-200				-160			
-125				D 2,75-100	2,75	4	0,5	D 5 -100	5	6,5	0,5	-200			
-160				-125				-125				-250			
-200				-160				-160				-315			
D 1,6 -100	1,6	2,5	0,5	-200				-200				D 14 -100	14	16	1,5
-125				D 2,8 -100	2,8	4	0,5	-250				-125			
-160				-125				D 5,1 -100	5,1	6,5	0,5	-160			
-200				-160				-125				-200			
D 1,7 -100	1,7	2,5	0,5	-200				-160				-250			
-125				D 2,9 -100	2,9	4	0,5	-200				-315			
-160				-125				D 5,25-100	5,25	6,5	0,5	D 16 -100	16	18	1,5
-200				-160				-125				-125			
D 1,75-100	1,75	2,8	0,5	-200				-160				-160			
-125				D 3 -100	3	4,5	0,5	-200				-200			
-160				-125				D 5,5 -100	5,5	7	0,5	-250			
-200				-160				-125				-315			
D 1,8 -100	1,8	2,8	0,5	-200				-160							
-125				D 3,1 -100	3,1	4,5	0,5	-200							
-160				-125				D 6 -100	6	8	0,5				
-200				-160				-125							
D 1,9 -100	1,9	2,8	0,5	-200				-160							
-125				D 3,25-100	3,25	4,5	0,5	-200							
-160				-125				-250							
-200				-160				-315							
D 2 -100	2	3	0,5	-200				D 6,5 -100	6,5	9	1				
-125				D 3,5 -100	3,5	5	0,5	-125							
-160				-125				-160							
-200				-160				-200							
D 2,1 -100	2,1	3,2	0,5	-200				D 7 -100	7	9	1				
-125				D 3,6 -100	3,6	5	0,5	-125							
-160				-125				-160							
-200				-160				-200							
D 2,2 -100	2,2	3,2	0,5	-200				D 7,5 -100	7,5	10	1				
-125				-160											

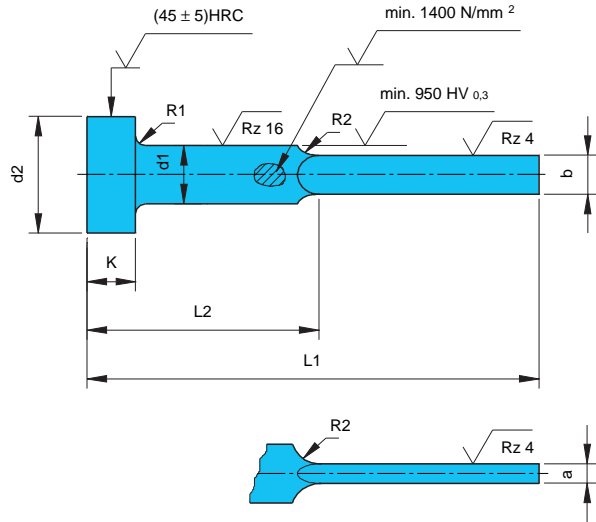
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

FW

Typ(e) FW DIN 1530/ISO 8693

♥ Flat ejector pins - nitrided
♦ Flachauswerferstifte - nitriert
♣ Vlakke uitwerppennen - genitreerd
♠ Ejecteurs lames - nitrurés



500°-550°C
Mat. 1.2344

REF. a b L1 ⁺⁰	a -0,015	b -0,015	L2 -1	d1 -0,1	d2 -0,2	K -0,05	R1	R2	REF. a b L1 ⁺⁰	a -0,015	b -0,015	L2 -1	d1 -0,1	d2 -0,2	K -0,05	R1	R2
FW 1,0- 3,5- 60	1,0	3,5	30	4	8	3	0,3	5	FW 2,0- 9,5-400	2,0	9,5	200	10	16	5	0,5	5
- 3,5- 80			40						FW 2,0-11,5-200	2,0	11,5	100	12	20	7	0,8	5
- 3,5-100			50						-11,5-250			125					
FW 1,0- 3,8- 60	1,0	3,8	30	4,2	8	3	0,3	5	-11,5-315			160					
- 3,8- 80			40						-11,5-400			200					
- 3,8-100			50						FW 2,5-11,5-200	2,5	11,5	100	12	20	7	0,8	10
- 3,8-125			63						-11,5-250			125					
- 3,8-160			80						-11,5-315			160					
FW 1,2- 3,8- 80	1,2	3,8	40	4,2	8	3	0,3	5	-11,5-400			200					
- 3,8-100			50						FW 2,0-15,5-200	2,0	15,5	100	16	22	7	0,8	10
- 3,8-125			63						-15,5-250			125					
- 3,8-160			80						-15,5-315			160					
FW 1,0- 4,5- 80	1,0	4,5	40	5	10	3	0,3	5	-15,5-400			200					
- 4,5-100			50						FW 2,5-15,5-200	2,5	15,5	100	16	22	7	0,8	10
- 4,5-125			63						-15,5-250			125					
- 4,5-160			80						-15,5-315			160					
FW 1,2- 4,5- 80	1,2	4,5	40	5	10	3	0,3	5	-15,5-400			200					
- 4,5-100			50														
- 4,5-125			63														
- 4,5-160			80														
FW 1,5- 4,5- 80	1,5	4,5	40	5	10	3	0,3	5									
- 4,5-100			50														
- 4,5-125			63														
- 4,5-160			80														
FW 1,0- 5,5- 80	1,0	5,5	40	6	12	5	0,5	5									
- 5,5-100			50														
- 5,5-125			63														
- 5,5-160			80														
FW 1,2- 5,5- 80	1,2	5,5	40	6	12	5	0,5	5									
- 5,5-100			50														
- 5,5-125			63														
- 5,5-160			80														
FW 1,5- 5,5-100	1,5	5,5	50	6	12	5	0,5	5									
- 5,5-125			63														
- 5,5-160			80														
- 5,5-200			100														
FW 2,0- 5,5-125	2,0	5,5	63	6	12	5	0,5	5									
- 5,5-160			80														
- 5,5-200			100														
FW 1,2- 7,5-100	1,2	7,5	50	8	14	5	0,5	5									
- 7,5-125			63														
- 7,5-160			80														
- 7,5-200			100														
FW 1,5- 7,5-125	1,5	7,5	63	8	14	5	0,5	5									
- 7,5-160			80														
- 7,5-200			100														
- 7,5-250			125														
FW 2,0- 7,5-160	2,0	7,5	80	8	14	5	0,5	5									
- 7,5-200			100														
- 7,5-250			125														
- 7,5-315			160														
FW 1,5- 9,5-160	1,5	9,5	80	10	16	5	0,5	5									
- 9,5-200			100														
- 9,5-250			125														
- 9,5-315			160														
FW 2,0- 9,5-200	2,0	9,5	100	10	16	5	0,5	5									
- 9,5-250			125														
- 9,5-315			160														

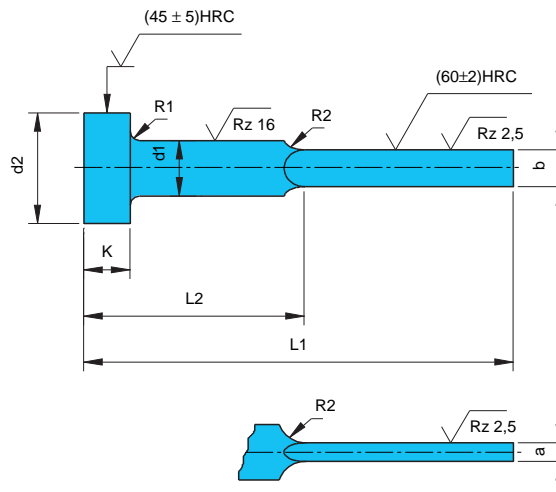
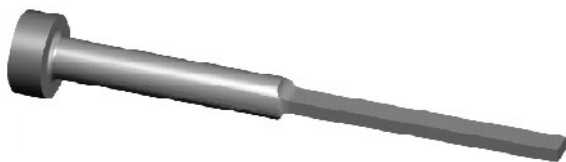
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

FK

Typ(e) FK DIN 1530/ISO 8693

♥ Flat ejector pins - hardened
♦ Flachauswerferstifte - gehärtet
♣ Vlakke uitwerppennen - gehard
♠ Ejecteurs lames - trempés



250°C
Mat. 1.2210

REF. a b L1 ⁺⁰	a -0,015	b -0,015	L2 -1	d1 -0,1	d2 -0,2	K -0,05	R1	R2	REF. a b L1 ⁺⁰	a -0,015	b -0,015	L2 -1	d1 -0,1	d2 -0,2	K -0,05	R1	R2
FK 1,0- 3,5- 60	1,0	3,5	30	4	8	3	0,3	5	FK 2,0- 9,5-200	2,0	9,5	100	10	16	5	0,5	5
- 3,5- 80			40						- 9,5-250			125					
- 3,5-100			50						- 9,5-315			160					
FK 1,0- 3,8- 60	1,0	3,8	30	4,2	8	3	0,3	5	FK 2,0-11,5-200	2,0	11,5	100	12	20	7	0,8	10
- 3,8- 80			40						-11,5-250			125					
- 3,8-100			50						-11,5-315			160					
- 3,8-125			63						FK 2,5-11,5-200	2,5	11,5	100	12	20	7	0,8	10
- 3,8-160			80						-11,5-250			125					
FK 1,2- 3,8- 80	1,2	3,8	40	4,2	8	3	0,3	5	-11,5-315			160					
- 3,8-100			50														
- 3,8-125			63														
- 3,8-160			80														
FK 1,0- 4,5- 80	1,0	4,5	40	5	10	3	0,3	5									
- 4,5-100			50														
- 4,5-125			63														
- 4,5-160			80														
- 4,5-200			100														
FK 1,2- 4,5- 80	1,2	4,5	40	5	10	3	0,3	5									
- 4,5-100			50														
- 4,5-125			63														
- 4,5-160			80														
- 4,5-200			100														
FK 1,5- 4,5-100	1,5	4,5	50	5	10	3	0,3	5									
- 4,5-125			63														
- 4,5-160			80														
- 4,5-200			100														
FK 1,0- 5,5- 80	1,0	5,5	40	6	12	5	0,5	5									
- 5,5-100			50														
- 5,5-125			63														
- 5,5-160			80														
- 5,5-200			100														
FK 1,2- 5,5- 80	1,2	5,5	40	6	12	5	0,5	5									
- 5,5-100			50														
- 5,5-125			63														
- 5,5-160			80														
- 5,5-200			100														
FK 1,5- 5,5-100	1,5	5,5	50	6	12	5	0,5	5									
- 5,5-125			63														
- 5,5-160			80														
- 5,5-200			100														
FK 2,0- 5,5-125	2,0	5,5	63	6	12	5	0,5	5									
- 5,5-160			80														
- 5,5-200			100														
FK 1,2- 7,5-100	1,2	7,5	50	8	14	5	0,5	5									
- 7,5-125			63														
- 7,5-160			80														
- 7,5-200			100														
FK 1,5- 7,5-125	1,5	7,5	63	8	14	5	0,5	5									
- 7,5-160			80														
- 7,5-200			100														
- 7,5-250			125														
FK 2,0- 7,5-160	2,0	7,5	80	8	14	5	0,5	5									
- 7,5-200			100														
- 7,5-250			125														
FK 1,5- 9,5-160	1,5	9,5	80	10	16	5	0,5	5									
- 9,5-200			100														
- 9,5-250			125														
- 9,5-315			160														

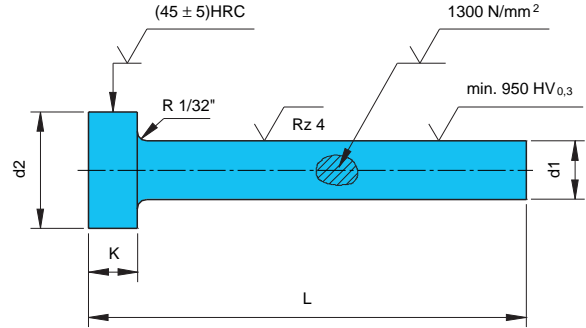
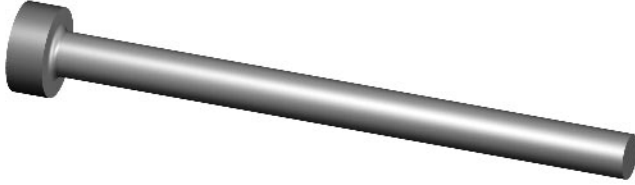
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

A-EX

Typ(e) A-EX

♥ Ejector pins - inch - nitrided
♦ Auswerferstifte - Zoll - nitriert
♣ Uitwerppennen - duimmaten - genitreerd
♠ Ejecteurs - pouces - niturés



$d1 = +0,005''$ OS = ♥ Oversize
♦ Übermaß
♣ Overmaat
♠ Surdimension

500°-550°C
Mat. H13

REF. L $+0,375''$ $-0,000''$	d1 $-0,0003''$ $-0,0006''$	d2 $+0,000''$ $-0,010''$	K $+0,000''$ $-0,002''$	REF. L $+0,375''$ $-0,000''$	d1 $-0,0003''$ $-0,0006''$	d2 $+0,000''$ $-0,010''$	K $+0,000''$ $-0,002''$	REF. L $+0,375''$ $-0,000''$	d1 $-0,0003''$ $-0,0006''$	d2 $+0,000''$ $-0,010''$	K $+0,000''$ $-0,002''$
EX 3- 6"	3/64"	1/4"	1/8"	EX 21-10"	5/16"	1/2"	1/4"	EX 37-10"	5/8"	7/8"	1/4"
EX 5- 6"	1/16"	1/4"	1/8"	-10"-OS				-14"			
EX 6- 6"	5/64"	1/4"	1/8"	-14"				-18"			
EX 7- 6"	3/32"	1/4"	1/8"	-14"-OS				-25"			
-10"				-18"				-36"			
EX 8- 6"	7/64"	1/4"	1/8"	-18"-OS				EX 39-10"	11/16"	15/16"	1/4"
-10"				-25"				-18"			
EX 9- 6"	1/8"	1/4"	1/8"	EX 22-10"	21/64"	9/16"	1/4"	-25"			
-10"				-14"				EX 41- 6"	3/4"	1"	1/4"
-10"-OS				-25"				-10"			
-14"				EX 23- 6"	11/32"	9/16"	1/4"	-14"			
-14"-OS				-10"				-18"			
EX 10-10"	9/64"	1/4"	1/8"	-10"-OS				-25"			
-14"				-14"				-36"			
EX 11- 6"	5/32"	9/32"	5/32"	-25"				EX 45-10"	7/8"	1 1/8"	1/4"
-10"				EX 24-10"	23/64"	5/8"	1/4"	-18"			
-10"-OS				-14"				-25"			
-14"				EX 25- 6"	3/8"	5/8"	1/4"	EX 47- 6"	1"	1 1/4"	1/4"
-14"-OS				-10"				-10"			
-18"				-10"-OS				-14"			
EX 12-10"	11/64"	11/32"	3/16"	-14"				-18"			
-14"				-14"-OS				-25"			
EX 13- 6"	3/16"	3/8"	3/16"	-18"				-36"			
-10"				-18"-OS							
-10"-OS				-25"							
-14"				-36"							
-14"-OS				EX 27- 6"	13/32"	11/16"	1/4"				
-18"				-10"							
-25"				-10"-OS							
EX 14-10"	13/64"	3/8"	3/16"	-14"							
-14"				-18"							
EX 15- 6"	7/32"	13/32"	3/16"	-25"							
-10"				EX 29- 6"	7/16"	11/16"	1/4"				
-10"-OS				-10"							
-14"				-10"-OS							
-25"				-14"							
EX 16-10"	15/64"	13/32"	3/16"	-14"-OS							
-14"				-18"							
EX 17- 6"	1/4"	7/16"	3/16"	-25"							
-10"				-36"							
-10"-OS				EX 31-10"	15/32"	3/4"	1/4"				
-14"				-10"-OS							
-14"-OS				-18"							
-18"				-25"							
-18"-OS				EX 33- 6"	1/2"	3/4"	1/4"				
-25"				-10"							
EX 18-10"	17/64"	7/16"	1/4"	-10"-OS							
-14"				-14"							
-25"				-14"-OS							
EX 19- 6"	9/32"	7/16"	1/4"	-18"							
-10"				-25"							
-10"-OS				-36"							
-14"				EX 35- 6"	9/16"	13/16"	1/4"				
-18"				-10"							
-25"				-14"							
EX 20-10"	19/64"	1/2"	1/4"	-18"							
-14"				-25"							
EX 21- 6"	5/16"	1/2"	1/4"	EX 37- 6"	5/8"	7/8"	1/4"				

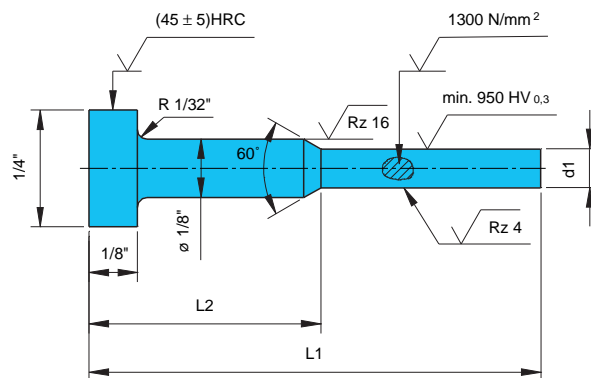
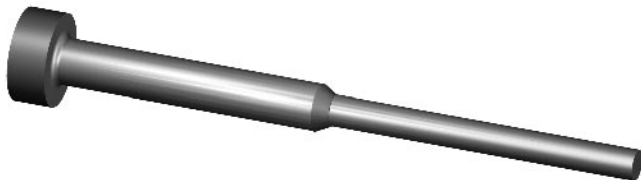
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

C-EX

Typ(e) C-EX

♥ Ejector pins - inch - nitrided
♦ Auswerferstifte - Zoll - nitriert
♣ Uitwerppennen - duimmaten - genitreerd
♠ Broches-noyaux - pouces - nitrurées



$d1 = +0,005''$ OS = ♥ Oversize
♦ Übermaß
♣ Overmaat
♠ Surdimension

500°-550°C
Mat. H13

REF. L1 $+0,375''$ $-0,000''$	L2 $+0,000''$ $-0,010''$	d1 $+0,000''$ $-0,001''$	REF. L1 $+0,375''$ $-0,000''$	L2 $+0,000''$ $-0,010''$	d1 $+0,000''$ $-0,001''$
EX 3-1/2" / 6"	1/2"	3/64"	EX 7-1/2" / 6"	1/2"	3/32"
- 2" / 6"	2"		- 2" / 6"	2"	
- 1/2" / 10"	1/2"		- 1/2" / 10"	1/2"	
- 1/2" / 10"-OS	1/2"		- 1/2" / 10"-OS	1/2"	
- 2" / 10"	2"		- 2" / 10"	2"	
- 2" / 10"-OS	2"	1/16"	- 2" / 10"-OS	2"	7/64"
- 2" / 14"	2"		- 2" / 14"	2"	
EX 5-1/2" / 6"	1/2"		EX 8-1/2" / 6"	1/2"	
- 2" / 6"	2"		- 2" / 6"	2"	
- 1/2" / 10"	1/2"		- 1/2" / 10"	1/2"	
- 1/2" / 10"-OS	1/2"	5/64"	- 1/2" / 10"-OS	1/2"	
- 2" / 10"	2"		- 2" / 10"	2"	
- 2" / 10"-OS	2"		- 2" / 10"-OS	2"	
- 2" / 14"	2"		- 2" / 14"	2"	
EX 6-1/2" / 6"	1/2"				
- 2" / 6"	2"				
- 1/2" / 10"	1/2"				
- 1/2" / 10"-OS	1/2"				
- 2" / 10"	2"				
- 2" / 10"-OS	2"				
- 2" / 14"	2"				

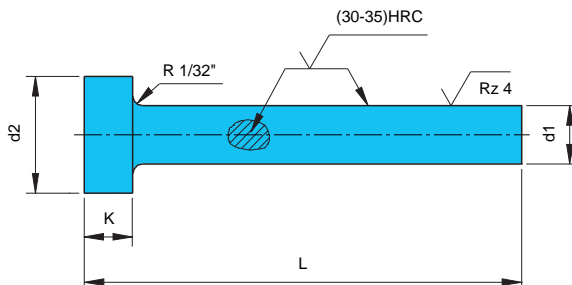
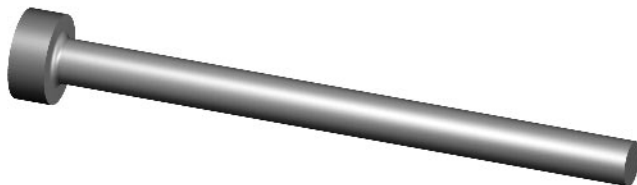
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

C

Typ(e) C

♥ Core pins - inch
♦ Kernstifte - Zoll
♣ Kernpennen - duimmaten
♠ Broches-noyaux - pouces



500°-550°C
Mat. H13

REF. L ^{+0.375} _{-0.000}	d1 ^{+0.001} _{-0.000}	d2 ^{+0.000} _{-0.010}	K ^{+0.000} _{-0.002}	REF. L ^{+0.375} _{-0.000}	d1 ^{+0.001} _{-0.000}	d2 ^{+0.000} _{-0.010}	K ^{+0.000} _{-0.002}
C 7- 3"	3/32"	1/4"	1/8"	C 41- 6"	3/4"	1"	1/4"
- 6"				-10"			
-10"							
C 8- 3"	7/64"	1/4"	1/8"				
- 6"							
-10"							
C 9- 3"	1/8"	1/4"	1/8"				
- 6"							
-10"							
C 10- 3"	9/64"	1/4"	1/8"				
- 6"							
-10"							
C 11- 3"	5/32"	9/32"	5/32"				
- 6"							
-10"							
C 12- 3"	11/64"	11/32"	3/16"				
- 6"							
-10"							
C 13- 3"	3/16"	3/8"	3/16"				
- 6"							
-10"							
C 14- 3"	13/64"	3/8"	3/16"				
- 6"							
-10"							
C 15- 3"	7/32"	13/32"	3/16"				
- 6"							
-10"							
C 17- 3"	1/4"	7/16"	3/16"				
- 6"							
-10"							
C 19- 3"	9/32"	7/16"	1/4"				
- 6"							
-10"							
C 21- 3"	5/16"	1/2"	1/4"				
- 6"							
-10"							
C 23- 3"	11/32"	9/16"	1/4"				
- 6"							
-10"							
C 25- 3"	3/8"	5/8"	1/4"				
- 6"							
-10"							
C 27- 3"	13/32"	11/16"	1/4"				
- 6"							
-10"							
C 29- 3"	7/16"	11/16"	1/4"				
- 6"							
-10"							
C 31- 3"	15/32"	3/4"	1/4"				
- 6"							
-10"							
C 33- 3"	1/2"	3/4"	1/4"				
- 6"							
-10"							
C 35- 6"	9/16"	13/16"	1/4"				
-10"							
C 37- 6"	5/8"	7/8"	1/4"				
-10"							

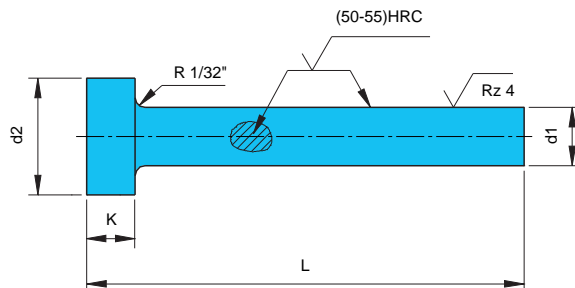
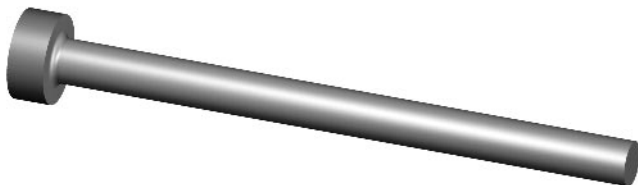
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

UITwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

CX

Typ(e) CX

- ♥ Core pins - inch - hardened
- ♦ Kernstifte - Zoll - gehärtet
- ♣ Kernpennen - duimmaten - gehard
- ♠ Broches-noyaux - pouces - trempées



500°-550°C
Mat. H13

REF. L ^{+0.375"} -0.000"	d1 ^{+0.001"} -0.000"	d2 ^{+0.000"} -0.010"	K ^{+0.000"} -0.002"	REF. L ^{+0.375"} -0.000"	d1 ^{+0.001"} -0.000"	d2 ^{+0.000"} -0.010"	K ^{+0.000"} -0.002"
CX 7- 3"	3/32"	1/4"	1/8"	CX 41- 6"	3/4"	1"	1/4"
- 6"				-10"			
-10"							
CX 8- 3"	7/64"	1/4"	1/8"				
- 6"							
-10"							
CX 9- 3"	1/8"	1/4"	1/8"				
- 6"							
-10"							
CX 10- 3"	9/64"	1/4"	1/8"				
- 6"							
-10"							
CX 11- 3"	5/32"	9/32"	5/32"				
- 6"							
-10"							
CX 12- 3"	11/64"	11/32"	3/16"				
- 6"							
-10"							
CX 13- 3"	3/16"	3/8"	3/16"				
- 6"							
-10"							
CX 14- 3"	13/64"	3/8"	3/16"				
- 6"							
-10"							
CX 15- 3"	7/32"	13/32"	3/16"				
- 6"							
-10"							
CX 17- 3"	1/4"	7/16"	3/16"				
- 6"							
-10"							
CX 19- 3"	9/32"	7/16"	1/4"				
- 6"							
-10"							
CX 21- 3"	5/16"	1/2"	1/4"				
- 6"							
-10"							
CX 23- 3"	11/32"	9/16"	1/4"				
- 6"							
-10"							
CX 25- 3"	3/8"	5/8"	1/4"				
- 6"							
-10"							
CX 27- 3"	13/32"	11/16"	1/4"				
- 6"							
-10"							
CX 29- 3"	7/16"	11/16"	1/4"				
- 6"							
-10"							
CX 31- 3"	15/32"	3/4"	1/4"				
- 6"							
-10"							
CX 33- 3"	1/2"	3/4"	1/4"				
- 6"							
-10"							
CX 35- 6"	9/16"	13/16"	1/4"				
-10"							
CX 37- 6"	5/8"	7/8"	1/4"				
-10"							

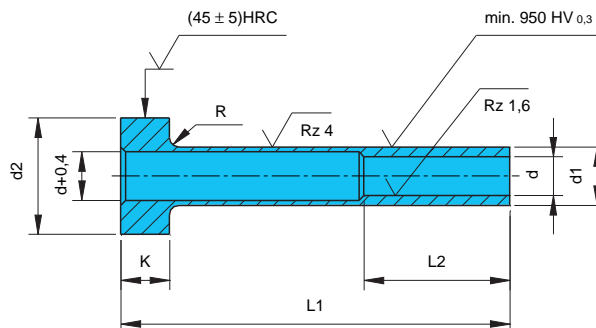
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

S

Typ(e) S DIN 16756/ISO 8405

♥ Ejector sleeves - nitrided
♦ Auswerferhülzen - nitriert
♣ Uitwerppennen - genitreerd
♠ Ejecteurs tubulaires - nitrurés



500°-550°C
Mat. 1.2344

REF. L1 ⁺¹ ₀	L2	d H ⁵	d1 g ⁶	d2 h ⁶	K h ⁶	R	REF. L1 ⁺¹ ₀	L2	d H ⁵	d1 g ⁶	d2 h ⁶	K h ⁶	R	REF. L1 ⁺¹ ₀	L2	d H ⁵	d1 g ⁶	d2 h ⁶	K h ⁶	R
S 24- 75	35	2	4	8	3	0,3	S 528-175	45	5,2	8	14	5	0,5	S 1216-250	45	12	16	22	7	0,8
-100							-200							-275						
-125							S 610- 75	45	6	10	16	5	0,5							
-150							-100													
S 224- 75	35	2,2	4	8	3	0,3	-125													
-100							-150													
-125							-175													
-150							-200													
S 255- 75	35	2,5	5	10	3	0,3	-225													
-100							-250													
-125							S 6210- 75	45	6,2	10	16	5	0,5							
-150							-100													
S 275- 75	45	2,7	5	10	3	0,3	-125													
-100							-150													
-125							-175													
-150							-200													
S 35- 75	45	3	5	10	3	0,3	-225													
-100							-250													
-125							S 812- 75	45	8	12	20	7	0,8							
-150							-100													
-175							-125													
S 325- 75	45	3,2	5	10	3	0,3	-150													
-100							-175													
-125							-200													
-150							-225													
-175							-250													
S 356- 75	45	3,5	6	12	5	0,5	-275													
-100							S 8212- 75	45	8,2	12	20	7	0,8							
-125							-100													
-150							-125													
-175							-150													
S 376- 75	45	3,7	6	12	5	0,5	-175													
-100							-200													
-125							-225													
-150							-250													
-175							-275													
S 46- 75	45	4	6	12	5	0,5	S 1014-100	45	10	14	22	7	0,8							
-100							-125													
-125							-150													
-150							-175													
-175							-200													
-200							-225													
S 428- 75	45	4,2	8	14	5	0,5	-250													
-100							-275													
-125							S 10214-100	45	10,2	14	22	7	0,8							
-150							-125													
-175							-150													
-200							-175													
S 58- 75	45	5	8	14	5	0,5	-200													
-100							-225													
-125							-250													
-150							-275													
-175							S 1216-100	45	12	16	22	7	0,8							
-200							-125													
S 528- 75	45	5,2	8	14	5	0,5	-150													
-100							-175													
-125							-200													
-150							-225													

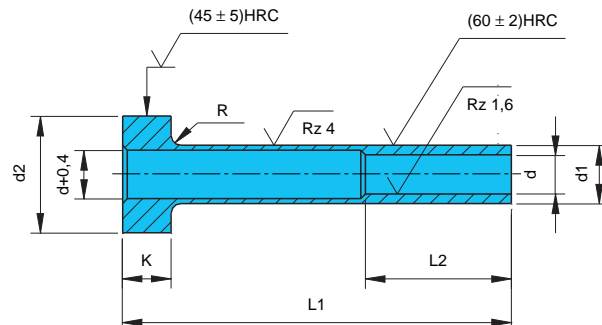
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

KS

Typ(e) KS DIN 16756/ISO 8405

♥ Ejector sleeves - hardened
♦ Auswerferhülzen - gehärtet
♣ Uitwerppennen - gehard
♠ Ejecteurs tubulaires - trempés



500°-550°C
Mat. 1.2210

REF. L1 ⁺¹⁰	L2	d H ⁵	d1 g ⁶	d2 0,2	K 0,05	R	REF. L1 ⁺¹⁰	L2	d H ⁵	d1 g ⁶	d2 0,2	K 0,05	R
KS 24- 75	35	2	4	8	3	0,3	KS 528-175	45	5,2	8	14	5	0,5
-100							-200						
-125							KS 610- 75	45	6	10	16	5	0,5
-150							-100						
KS 224- 75	35	2,2	4	8	3	0,3	-125						
-100							-150						
-125							-175						
-150							-200						
KS 255- 75	35	2,5	5	10	3	0,3	-225						
-100							KS 6210- 75	45	6,2	10	16	5	0,5
-125							-100						
-150							-125						
KS 275- 75	45	2,7	5	10	3	0,3	-150						
-100							-175						
-125							-200						
-150							-225						
KS 35- 75	45	3	5	10	3	0,3	KS 812- 75	45	8	12	20	7	0,8
-100							-100						
-125							-125						
-150							-150						
-175							-175						
KS 325- 75	45	3,2	5	10	3	0,3	-200						
-100							-225						
-125							-250						
-150							KS 8212- 75	45	8,2	12	20	7	0,8
-175							-100						
KS 356- 75	45	3,5	6	12	5	0,5	-125						
-100							-150						
-125							-175						
-150							-200						
-175							-225						
KS 376- 75	45	3,7	6	12	5	0,5	-250						
-100							KS 1014-100	45	10	14	22	7	0,8
-125							-125						
-150							-150						
-175							-175						
KS 46- 75	45	4	6	12	5	0,5	-200						
-100							-225						
-125							-250						
-150							KS 1216-100	45	12	16	22	7	0,8
-175							-125						
-200							-150						
KS 428- 75	45	4,2	8	14	5	0,5	-175						
-100							-200						
-125							-225						
-150							-250						
-175													
-200													
KS 58- 75	45	5	8	14	5	0,5							
-100													
-125													
-150													
-175													
-200													
KS 528- 75	45	5,2	8	14	5	0,5							
-100													
-125													
-150													

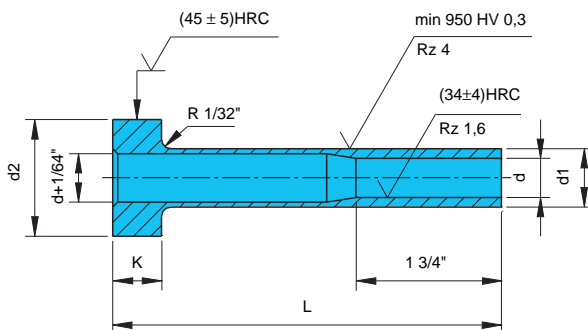
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

S

Typ(e) S

♥ Ejector sleeves - inch - nitrided
♦ Auswerferhülzen - Zoll - nitriert
♣ Uitwerphulzen - duimmaten - genitreerd
♠ Ejecteurs tubulaires - pouces - niturés



500°-550°C
Mat. H13

REF. L ^{+0,375°} -0,000°	d +0,0005° -0,0000°	d1 +0,000° -0,001°	d2 +0,000° -0,010°	K +0,000° -0,002°	REF. L ^{+0,375°} -0,000°	d +0,0005° -0,0000°	d1 +0,000° -0,001°	d2 +0,000° -0,010°	K +0,000° -0,002°
S 13- 3"	3/32"	3/16"	3/8"	3/16"	S 33-11"	3/8"	1/2"	3/4"	1/4"
- 4"					-12"				
- 5"					S 37- 4"	7/16"	5/8"	7/8"	1/4"
- 6"					- 5"				
- 7"					- 6"				
S 15- 3"	1/8"	7/32"	13/32"	3/16"	- 7"				
- 4"					- 8"				
- 5"					- 9"				
- 6"					-10"				
- 7"					-11"				
S 17- 4"	5/32"	1/4"	7/16"	3/16"	-12"				
- 5"					S 39- 4"	1/2"	11/16"	15/16"	1/4"
- 6"					- 5"				
- 7"					- 6"				
- 8"					- 7"				
- 9"					- 8"				
-10"					- 9"				
S 21- 4"	3/16"	5/16"	1/2"	1/4"	-10"				
- 5"					-11"				
- 6"					-12"				
- 7"					S 41- 4"	9/16"	3/4"	1"	1/4"
- 8"					- 5"				
- 9"					- 6"				
-10"					- 7"				
-11"					- 8"				
-12"					- 9"				
S 23- 4"	7/32"	11/32"	9/16"	1/4"	-10"				
- 5"					-11"				
- 6"					-12"				
- 7"					S 45- 4"	5/8"	7/8"	1 1/8"	1/4"
- 8"					- 5"				
- 9"					- 6"				
-10"					- 7"				
S 25- 4"	1/4"	3/8"	5/8"	1/4"	- 8"				
- 5"					- 9"				
- 6"					-10"				
- 7"					-11"				
- 8"					-12"				
- 9"					S 47- 4"	3/4"	1"	1 1/4"	1/4"
-10"					- 5"				
-11"					- 6"				
-12"					- 7"				
S 29- 4"	5/16"	7/16"	11/16"	1/4"	- 8"				
- 5"					- 9"				
- 6"					-10"				
- 7"					-11"				
- 8"					-12"				
- 9"									
-10"									
-11"									
-12"									
S 33- 4"	3/8"	1/2"	3/4"	1/4"					
- 5"									
- 6"									
- 7"									
- 8"									
- 9"									
-10"									

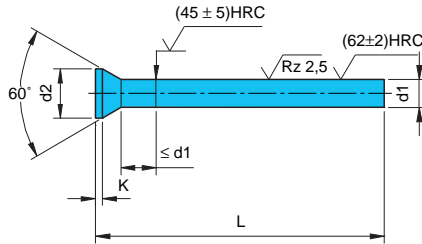
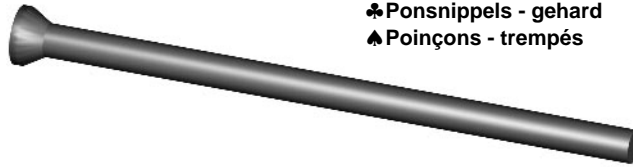
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

DS

Typ(e) DS DIN 9861 - HWS

♥ Punches - hardened
♦ Schneidstempel - gehärtet
♣ Ponsnippels - gehard
♠ Poinçons - trempés

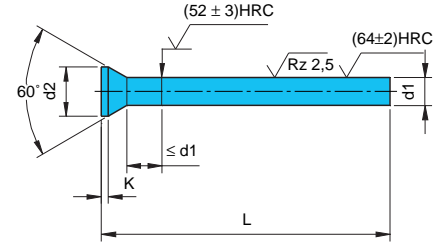


Mat. HWS (1.2436)
62 ± 2 HRC

DS

Typ(e) DS DIN 9861 - HSS

♥ Punches - hardened
♦ Schneidstempel - gehärtet
♣ Ponsnippels - gehard
♠ Poinçons - trempés



Mat. HSS (1.3343)
64 ± 2 HRC

REF.DS/HWS d1 L= 71 L= 80 L=100	REF.DS/HSS d1 L= 71 L= 80 L=100	d1 h ⁶	d2 -0,2	K +0,2	REF.DS/HWS d1 L= 71 L= 80 L=100	REF.DS/HSS d1 L= 71 L= 80 L=100	d1 h ⁶	d2 -0,2	K +0,2
DS- 0,50-L/HWS	DS- 0,50-L/HSS	0,50	0,9	0,2	DS- 5,70-L/HWS	DS- 5,70-L/HSS	5,70	7,0	0,5
DS- 0,55-L/HWS	DS- 0,55-L/HSS	0,55	1,0		DS- 5,80-L/HWS	DS- 5,80-L/HSS	5,80		
DS- 0,60-L/HWS	DS- 0,60-L/HSS	0,60	1,1		DS- 5,90-L/HWS	DS- 5,90-L/HSS	5,90		
DS- 0,65-L/HWS	DS- 0,65-L/HSS	0,65	1,2		DS- 6,00-L/HWS	DS- 6,00-L/HSS	6,00	8,0	
DS- 0,70-L/HWS	DS- 0,70-L/HSS	0,70	1,3		DS- 6,10-L/HWS	DS- 6,10-L/HSS	6,10		
DS- 0,75-L/HWS	DS- 0,75-L/HSS	0,75			DS- 6,20-L/HWS	DS- 6,20-L/HSS	6,20		
DS- 0,80-L/HWS	DS- 0,80-L/HSS	0,80	1,4	0,4	DS- 6,30-L/HWS	DS- 6,30-L/HSS	6,30		
DS- 0,85-L/HWS	DS- 0,85-L/HSS	0,85			DS- 6,40-L/HWS	DS- 6,40-L/HSS	6,40		
DS- 0,90-L/HWS	DS- 0,90-L/HSS	0,90	1,6		DS- 6,50-L/HWS	DS- 6,50-L/HSS	6,50	9,0	1,0
DS- 0,95-L/HWS	DS- 0,95-L/HSS	0,95			DS- 7,00-L/HWS	DS- 7,00-L/HSS	7,00		
DS- 1,00-L/HWS	DS- 1,00-L/HSS	1,00	1,8	0,5	DS- 7,50-L/HWS	DS- 7,50-L/HSS	7,50	10,0	
DS- 1,10-L/HWS	DS- 1,10-L/HSS	1,10			DS- 8,00-L/HWS	DS- 8,00-L/HSS	8,00		
DS- 1,20-L/HWS	DS- 1,20-L/HSS	1,20	2,0		DS- 8,50-L/HWS	DS- 8,50-L/HSS	8,50	11,0	
DS- 1,30-L/HWS	DS- 1,30-L/HSS	1,30			DS- 9,00-L/HWS	DS- 9,00-L/HSS	9,00		
DS- 1,40-L/HWS	DS- 1,40-L/HSS	1,40	2,2		DS- 9,50-L/HWS	DS- 9,50-L/HSS	9,50	12,0	
DS- 1,50-L/HWS	DS- 1,50-L/HSS	1,50			DS- 10,00-L/HWS	DS- 10,00-L/HSS	10,00		
DS- 1,60-L/HWS	DS- 1,60-L/HSS	1,60	2,5		DS- 10,50-L/HWS	DS- 10,50-L/HSS	10,50	13,0	
DS- 1,70-L/HWS	DS- 1,70-L/HSS	1,70			DS- 11,00-L/HWS	DS- 11,00-L/HSS	11,00		
DS- 1,80-L/HWS	DS- 1,80-L/HSS	1,80	2,8		DS- 11,50-L/HWS	DS- 11,50-L/HSS	11,50	14,0	
DS- 1,90-L/HWS	DS- 1,90-L/HSS	1,90			DS- 12,00-L/HWS	DS- 12,00-L/HSS	12,00		
DS- 2,00-L/HWS	DS- 2,00-L/HSS	2,00	3,0		DS- 12,50-L/HWS	DS- 12,50-L/HSS	12,50	15,0	
DS- 2,10-L/HWS	DS- 2,10-L/HSS	2,10	3,2		DS- 13,00-L/HWS	DS- 13,00-L/HSS	13,00		
DS- 2,20-L/HWS	DS- 2,20-L/HSS	2,20			DS- 13,50-L/HWS	DS- 13,50-L/HSS	13,50	16,0	1,5
DS- 2,30-L/HWS	DS- 2,30-L/HSS	2,30	3,5		DS- 14,00-L/HWS	DS- 14,00-L/HSS	14,00		
DS- 2,40-L/HWS	DS- 2,40-L/HSS	2,40			DS- 14,50-L/HWS	DS- 14,50-L/HSS	14,50	17,0	
DS- 2,50-L/HWS	DS- 2,50-L/HSS	2,50			DS- 15,00-L/HWS	DS- 15,00-L/HSS	15,00		
DS- 2,60-L/HWS	DS- 2,60-L/HSS	2,60	4,0		DS- 15,50-L/HWS	DS- 15,50-L/HSS	15,50	18,0	
DS- 2,70-L/HWS	DS- 2,70-L/HSS	2,70			DS- 16,00-L/HWS	DS- 16,00-L/HSS	16,00		
DS- 2,80-L/HWS	DS- 2,80-L/HSS	2,80			DS- 16,50-L/HWS	DS- 16,50-L/HSS	16,50	19,0	
DS- 2,90-L/HWS	DS- 2,90-L/HSS	2,90			DS- 17,00-L/HWS	DS- 17,00-L/HSS	17,00		
DS- 3,00-L/HWS	DS- 3,00-L/HSS	3,00	4,5		DS- 17,50-L/HWS	DS- 17,50-L/HSS	17,50	20,0	
DS- 3,10-L/HWS	DS- 3,10-L/HSS	3,10			DS- 18,00-L/HWS	DS- 18,00-L/HSS	18,00		
DS- 3,20-L/HWS	DS- 3,20-L/HSS	3,20			DS- 18,50-L/HWS	DS- 18,50-L/HSS	18,50	21,0	
DS- 3,30-L/HWS	DS- 3,30-L/HSS	3,30			DS- 19,00-L/HWS	DS- 19,00-L/HSS	19,00		
DS- 3,40-L/HWS	DS- 3,40-L/HSS	3,40			DS- 19,50-L/HWS	DS- 19,50-L/HSS	19,50	22,0	
DS- 3,50-L/HWS	DS- 3,50-L/HSS	3,50	5,0		DS- 20,00-L/HWS	DS- 20,00-L/HSS	20,00		
DS- 3,60-L/HWS	DS- 3,60-L/HSS	3,60							
DS- 3,70-L/HWS	DS- 3,70-L/HSS	3,70							
DS- 3,80-L/HWS	DS- 3,80-L/HSS	3,80							
DS- 3,90-L/HWS	DS- 3,90-L/HSS	3,90							
DS- 4,00-L/HWS	DS- 4,00-L/HSS	4,00	5,5						
DS- 4,10-L/HWS	DS- 4,10-L/HSS	4,10							
DS- 4,20-L/HWS	DS- 4,20-L/HSS	4,20							
DS- 4,30-L/HWS	DS- 4,30-L/HSS	4,30							
DS- 4,40-L/HWS	DS- 4,40-L/HSS	4,40							
DS- 4,50-L/HWS	DS- 4,50-L/HSS	4,50	6,0						
DS- 4,60-L/HWS	DS- 4,60-L/HSS	4,60							
DS- 4,70-L/HWS	DS- 4,70-L/HSS	4,70							
DS- 4,80-L/HWS	DS- 4,80-L/HSS	4,80							
DS- 4,90-L/HWS	DS- 4,90-L/HSS	4,90							
DS- 5,00-L/HWS	DS- 5,00-L/HSS	5,00	6,5						
DS- 5,10-L/HWS	DS- 5,10-L/HSS	5,10							
DS- 5,20-L/HWS	DS- 5,20-L/HSS	5,20							
DS- 5,30-L/HWS	DS- 5,30-L/HSS	5,30							
DS- 5,40-L/HWS	DS- 5,40-L/HSS	5,40							
DS- 5,50-L/HWS	DS- 5,50-L/HSS	5,50	7,0						
DS- 5,60-L/HWS	DS- 5,60-L/HSS	5,60							

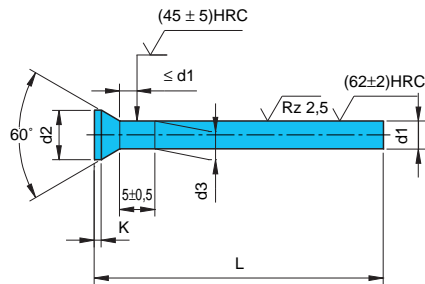
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

Uitwerppennen & -hulzen ♣
Ejecteurs broches & tubulaires ♠

DA

Typ(e) DA DIN 9861 - HWS

♥ Punches - hardened
♦ Schneidstempel - gehärtet
♣ Ponsnippels - gehard
♠ Poinçons - trempés

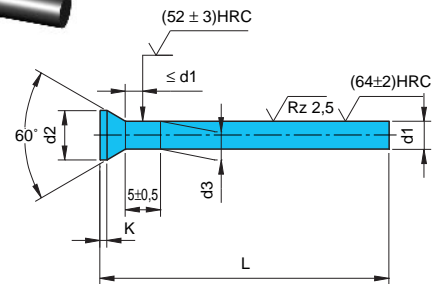


Mat. HWS (1.2436)
62 ± 2 HRC

DA

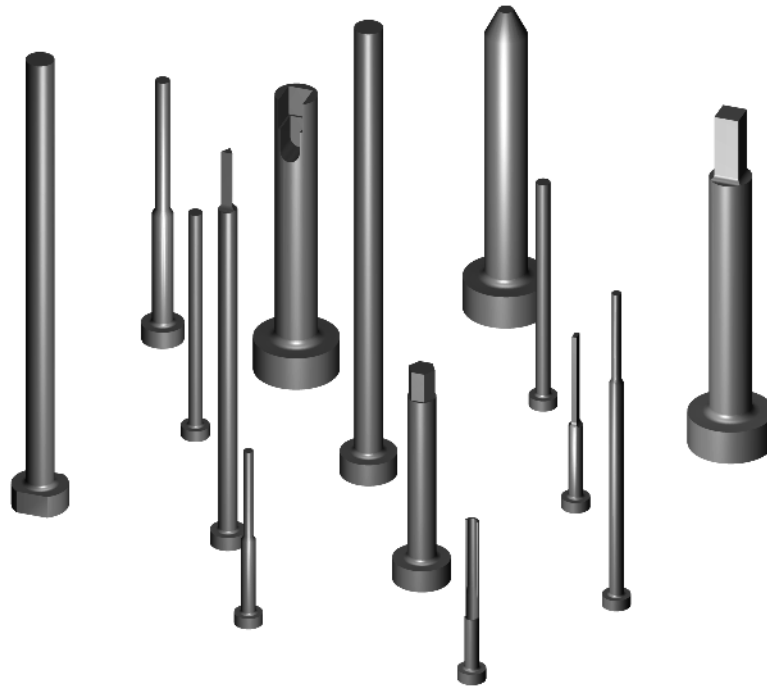
Typ(e) DA DIN 9861 - HSS

♥ Punches - hardened
♦ Schneidstempel - gehärtet
♣ Ponsnippels - gehard
♠ Poinçons - trempés



Mat. HSS (1.3343)
64 ± 2 HRC

REF.DA/HWS d1 L= 71 L= 80 L= 100	REF.DA/HSS d1 L= 71 L= 80 L= 100	d1 h ⁶	d2 h ⁶	d3 Max.	K +0,2	REF.DA/HWS d1 L= 71 L= 80 L= 100	REF.DA/HSS d1 L= 71 L= 80 L= 100	d1 h ⁶	d2 h ⁶	d3 Max.	K +0,2
DA- 0,50-L/HWS	DA- 0,50-L/HSS	0,50	0,9	d1	0,2	DA- 5,70-L/HWS	DA- 5,70-L/HSS	5,70	7,0	d1	0,5
DA- 0,55-L/HWS	DA- 0,55-L/HSS	0,55	1,0	d1	0,2	DA- 5,80-L/HWS	DA- 5,80-L/HSS	5,80	7,0	d1	0,5
DA- 0,60-L/HWS	DA- 0,60-L/HSS	0,60	1,1	d1	0,2	DA- 5,90-L/HWS	DA- 5,90-L/HSS	5,90	7,0	d1	0,5
DA- 0,65-L/HWS	DA- 0,65-L/HSS	0,65	1,2	d1	0,2	DA- 6,00-L/HWS	DA- 6,00-L/HSS	6,00	8,0	d1	0,5
DA- 0,70-L/HWS	DA- 0,70-L/HSS	0,70	1,3	d1	0,2	DA- 6,10-L/HWS	DA- 6,10-L/HSS	6,10	8,0	d1	0,5
DA- 0,75-L/HWS	DA- 0,75-L/HSS	0,75	1,3	d1	0,2	DA- 6,20-L/HWS	DA- 6,20-L/HSS	6,20	8,0	d1	0,5
DA- 0,80-L/HWS	DA- 0,80-L/HSS	0,80	1,4	d1	0,2	DA- 6,30-L/HWS	DA- 6,30-L/HSS	6,30	8,0	d1	0,5
DA- 0,85-L/HWS	DA- 0,85-L/HSS	0,85	1,4	d1	0,2	DA- 6,40-L/HWS	DA- 6,40-L/HSS	6,40	8,0	d1	0,5
DA- 0,90-L/HWS	DA- 0,90-L/HSS	0,90	1,6	d1	0,2	DA- 6,50-L/HWS	DA- 6,50-L/HSS	6,50	9,0	d1	0,5
DA- 0,95-L/HWS	DA- 0,95-L/HSS	0,95	1,6	d1	0,2	DA- 7,00-L/HWS	DA- 7,00-L/HSS	7,00	9,0	d1	0,5
DA- 1,00-L/HWS	DA- 1,00-L/HSS	1,00	1,8	d1	0,2	DA- 7,50-L/HWS	DA- 7,50-L/HSS	7,50	10,0	d1	0,5
DA- 1,10-L/HWS	DA- 1,10-L/HSS	1,10	1,8	d1	0,2	DA- 8,00-L/HWS	DA- 8,00-L/HSS	8,00	10,0	d1	0,5
DA- 1,20-L/HWS	DA- 1,20-L/HSS	1,20	2,0	d1	0,2	DA- 8,50-L/HWS	DA- 8,50-L/HSS	8,50	11,0	d1	0,5
DA- 1,30-L/HWS	DA- 1,30-L/HSS	1,30	2,0	d1	0,2	DA- 9,00-L/HWS	DA- 9,00-L/HSS	9,00	11,0	d1	0,5
DA- 1,40-L/HWS	DA- 1,40-L/HSS	1,40	2,2	d1	0,2	DA- 9,50-L/HWS	DA- 9,50-L/HSS	9,50	12,0	d1	0,5
DA- 1,50-L/HWS	DA- 1,50-L/HSS	1,50	2,2	d1	0,2	DA-10,00-L/HWS	DA-10,00-L/HSS	10,00	12,0	d1	0,5
DA- 1,60-L/HWS	DA- 1,60-L/HSS	1,60	2,5	d1	0,2	DA-10,50-L/HWS	DA-10,50-L/HSS	10,50	13,0	d1	0,5
DA- 1,70-L/HWS	DA- 1,70-L/HSS	1,70	2,5	d1	0,2	DA-11,00-L/HWS	DA-11,00-L/HSS	11,00	13,0	d1	0,5
DA- 1,80-L/HWS	DA- 1,80-L/HSS	1,80	2,8	d1	0,2	DA-11,50-L/HWS	DA-11,50-L/HSS	11,50	14,0	d1	0,5
DA- 1,90-L/HWS	DA- 1,90-L/HSS	1,90	2,8	d1	0,2	DA-12,00-L/HWS	DA-12,00-L/HSS	12,00	14,0	d1	0,5
DA- 2,00-L/HWS	DA- 2,00-L/HSS	2,00	3,0	d1	0,2	DA-12,50-L/HWS	DA-12,50-L/HSS	12,50	15,0	d1	0,5
DA- 2,10-L/HWS	DA- 2,10-L/HSS	2,10	3,2	d1	0,2	DA-13,00-L/HWS	DA-13,00-L/HSS	13,00	15,0	d1	0,5
DA- 2,20-L/HWS	DA- 2,20-L/HSS	2,20	3,2	d1	0,2	DA-13,50-L/HWS	DA-13,50-L/HSS	13,50	16,0	d1	0,5
DA- 2,30-L/HWS	DA- 2,30-L/HSS	2,30	3,5	d1	0,2	DA-14,00-L/HWS	DA-14,00-L/HSS	14,00	16,0	d1	0,5
DA- 2,40-L/HWS	DA- 2,40-L/HSS	2,40	3,5	d1	0,2	DA-14,50-L/HWS	DA-14,50-L/HSS	14,50	17,0	d1	0,5
DA- 2,50-L/HWS	DA- 2,50-L/HSS	2,50	3,5	d1	0,2	DA-15,00-L/HWS	DA-15,00-L/HSS	15,00	17,0	d1	0,5
DA- 2,60-L/HWS	DA- 2,60-L/HSS	2,60	4,0	d1	0,2	DA-15,50-L/HWS	DA-15,50-L/HSS	15,50	18,0	d1	0,5
DA- 2,70-L/HWS	DA- 2,70-L/HSS	2,70	4,0	d1	0,2	DA-16,00-L/HWS	DA-16,00-L/HSS	16,00	18,0	d1	0,5
DA- 2,80-L/HWS	DA- 2,80-L/HSS	2,80	4,0	d1	0,2					d1	0,5
DA- 2,90-L/HWS	DA- 2,90-L/HSS	2,90	4,0	d1	0,2					d1	0,5
DA- 3,00-L/HWS	DA- 3,00-L/HSS	3,00	4,5	d1	0,2					d1	0,5
DA- 3,10-L/HWS	DA- 3,10-L/HSS	3,10	4,5	d1	0,2					d1	0,5
DA- 3,20-L/HWS	DA- 3,20-L/HSS	3,20	4,5	d1	0,2					d1	0,5
DA- 3,30-L/HWS	DA- 3,30-L/HSS	3,30	4,5	d1	0,2					d1	0,5
DA- 3,40-L/HWS	DA- 3,40-L/HSS	3,40	4,5	d1	0,2					d1	0,5
DA- 3,50-L/HWS	DA- 3,50-L/HSS	3,50	5,0	d1	0,2					d1	0,5
DA- 3,60-L/HWS	DA- 3,60-L/HSS	3,60	5,0	d1	0,2					d1	0,5
DA- 3,70-L/HWS	DA- 3,70-L/HSS	3,70	5,0	d1	0,2					d1	0,5
DA- 3,80-L/HWS	DA- 3,80-L/HSS	3,80	5,0	d1	0,2					d1	0,5
DA- 3,90-L/HWS	DA- 3,90-L/HSS	3,90	5,0	d1	0,2					d1	0,5
DA- 4,00-L/HWS	DA- 4,00-L/HSS	4,00	5,5	d1	0,2					d1	0,5
DA- 4,10-L/HWS	DA- 4,10-L/HSS	4,10	5,5	d1	0,2					d1	0,5
DA- 4,20-L/HWS	DA- 4,20-L/HSS	4,20	5,5	d1	0,2					d1	0,5
DA- 4,30-L/HWS	DA- 4,30-L/HSS	4,30	5,5	d1	0,2					d1	0,5
DA- 4,40-L/HWS	DA- 4,40-L/HSS	4,40	5,5	d1	0,2					d1	0,5
DA- 4,50-L/HWS	DA- 4,50-L/HSS	4,50	6,0	d1	0,2					d1	0,5
DA- 4,60-L/HWS	DA- 4,60-L/HSS	4,60	6,0	d1	0,2					d1	0,5
DA- 4,70-L/HWS	DA- 4,70-L/HSS	4,70	6,0	d1	0,2					d1	0,5
DA- 4,80-L/HWS	DA- 4,80-L/HSS	4,80	6,0	d1	0,2					d1	0,5
DA- 4,90-L/HWS	DA- 4,90-L/HSS	4,90	6,0	d1	0,2					d1	0,5
DA- 5,00-L/HWS	DA- 5,00-L/HSS	5,00	6,5	d1	0,2					d1	0,5
DA- 5,10-L/HWS	DA- 5,10-L/HSS	5,10	6,5	d1	0,2					d1	0,5
DA- 5,20-L/HWS	DA- 5,20-L/HSS	5,20	6,5	d1	0,2					d1	0,5
DA- 5,30-L/HWS	DA- 5,30-L/HSS	5,30	6,5	d1	0,2					d1	0,5
DA- 5,40-L/HWS	DA- 5,40-L/HSS	5,40	6,5	d1	0,2					d1	0,5
DA- 5,50-L/HWS	DA- 5,50-L/HSS	5,50	7,0	d1	0,2					d1	0,5
DA- 5,60-L/HWS	DA- 5,60-L/HSS	5,60	7,0	d1	0,2					d1	0,5



♥ Special ejector pins, core pins and ejector sleeves

When you want pins with special shapes such as tapers or contours – special head sizes – special hardness, special material up to any length – call D-M-E.

Now into specials in an expanded way, D-M-E has the manufacturing, heat treating, and sophisticated quality control equipment to meet your requirements for special ejector pins, core pins, ejector sleeves.

D-M-E special pins match the precision manufacturing of all D-M-E standards in every detail.

♦ Sonderauswerferstifte, Kernstifte und Auswerferhülsen

Schnelle Lieferung für Sonderstifte z.B. abgesetzte oder mit Konturenschliff, mit Sonderkopfgrößen – anderer Härte, Sondermaterial bis zu jeder Länge – bei D-M-E anfragen.

Für Sonderstifte in einem erweiterten Umfang hat D-M-E die Möglichkeit zu produzieren, zu vergüten. D-M-E hat hochentwickelte Geräte für die Qualitätskontrolle für alle Sorten Sonderauswerferstifte, Kernstifte, Auswerferhülsen. Schnellster Service ist gewährleistet.

Wie zu erwarten, gleichen D-M-E Sonderstifte in allen Einzelheiten den übrigen D-M-E Standardprodukten.

♣ Speciale uitwerppennen en uitwerphulzen

Snelle levering van speciale uitwerppennen en uitwerphulzen. Uitwerppennen afwijkend van de standaard met afwijkende maatvoering, konus, hardheid of specifiek materiaal kunnen te allen tijde door D-M-E geleverd worden mits correcte afspraken i.v.m. hoeveelheden, leveringstermijnen en prijsstelling.

♠ Ejecteurs spéciaux et éjecteurs tubulaires spéciaux

Il suffit d'appeler D-M-E pour obtenir des éjecteurs de toutes longueurs et de formes spéciales, tels que coniques ou profilés, de duretés et aciers spéciaux, ou encore munis de têtes hors-standards.

D-M-E est maintenant entré dans le domaine du sur-mesure avec des moyens de production avancés et un contrôle de qualité sophistiqué afin de couvrir la majorité de vos besoins en éjecteurs, éjecteurs tubulaires ou broches noyaux spéciaux. Niveau de qualité des éjecteurs spéciaux aussi performant que celui des éjecteurs standards.

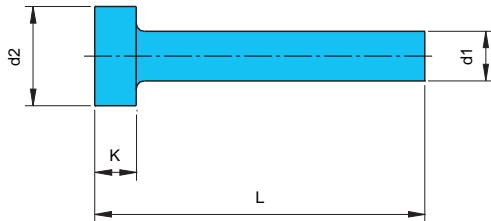
♥ Ejector pins & sleeves
♦ Auswerferstifte & Hülzen

♣ Uitwerppennen & -hulzen ♣
♠ Ejecteurs broches & tubulaires ♠

♥ Please specify required tolerances on all dimensions.
♦ Bitte die erforderlichen Toleranzen bei allen Abmessungen angeben.

♣ De gewenste toleranties op alle afmetingen aanduiden a.u.b..
♠ Veuillez spécifier les tolérances exigées sur toutes les dimensions.

Fig. 1 / Abb. 1



♥ Conventional pin
♦ Herkömmliche Stifte

♣ Conventionele uitwerppen
♠ Ejecteur conventionnel

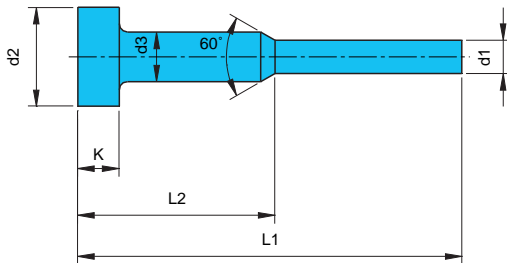
Quantity - Menge - Aantal - Quantité

Mat.

Hardness - Härte - Hardheid - Dureté

RC

Fig. 2 / Abb. 2



♥ Step pin
♦ Abgesetzte Stifte

♣ Schouder uitwerppen
♠ Ejecteur à épaulement

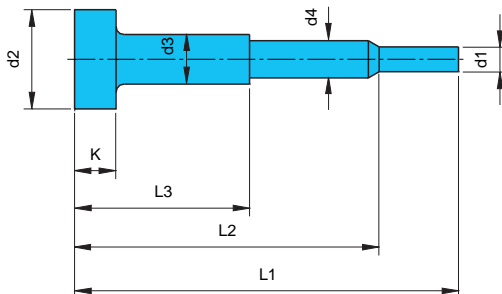
Quantity - Menge - Aantal - Quantité

Mat.

Hardness - Härte - Hardheid - Dureté

RC

Fig. 3 / Abb. 3



♥ Step pin
♦ Abgesetzte Stifte

♣ Schouder uitwerppen
♠ Ejecteur à épaulement

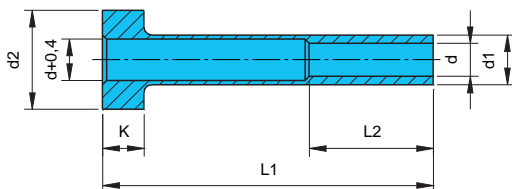
Quantity - Menge - Aantal - Quantité

Mat.

Hardness - Härte - Hardheid - Dureté

RC

Fig. 4 / Abb. 4



♥ Ejector sleeve
♦ Auswerferhülse

♣ Uitwerphuls
♠ Ejecteur tubulaire

Quantity - Menge - Aantal - Quantité

Mat.

Hardness - Härte - Hardheid - Dureté

RC

Company - Firma - Firma - Firma

Tel. / Tél.

Fax

Address - Adresse - Adres - Adresse

P.O. No. - Auftragsnr. - Bestelnr. - No. de commande

Contact - Kontaktperson - Kontaktpersoon - Contact

Quote only - Nur Anfrage - Offerte gewenst - Demande de prix.

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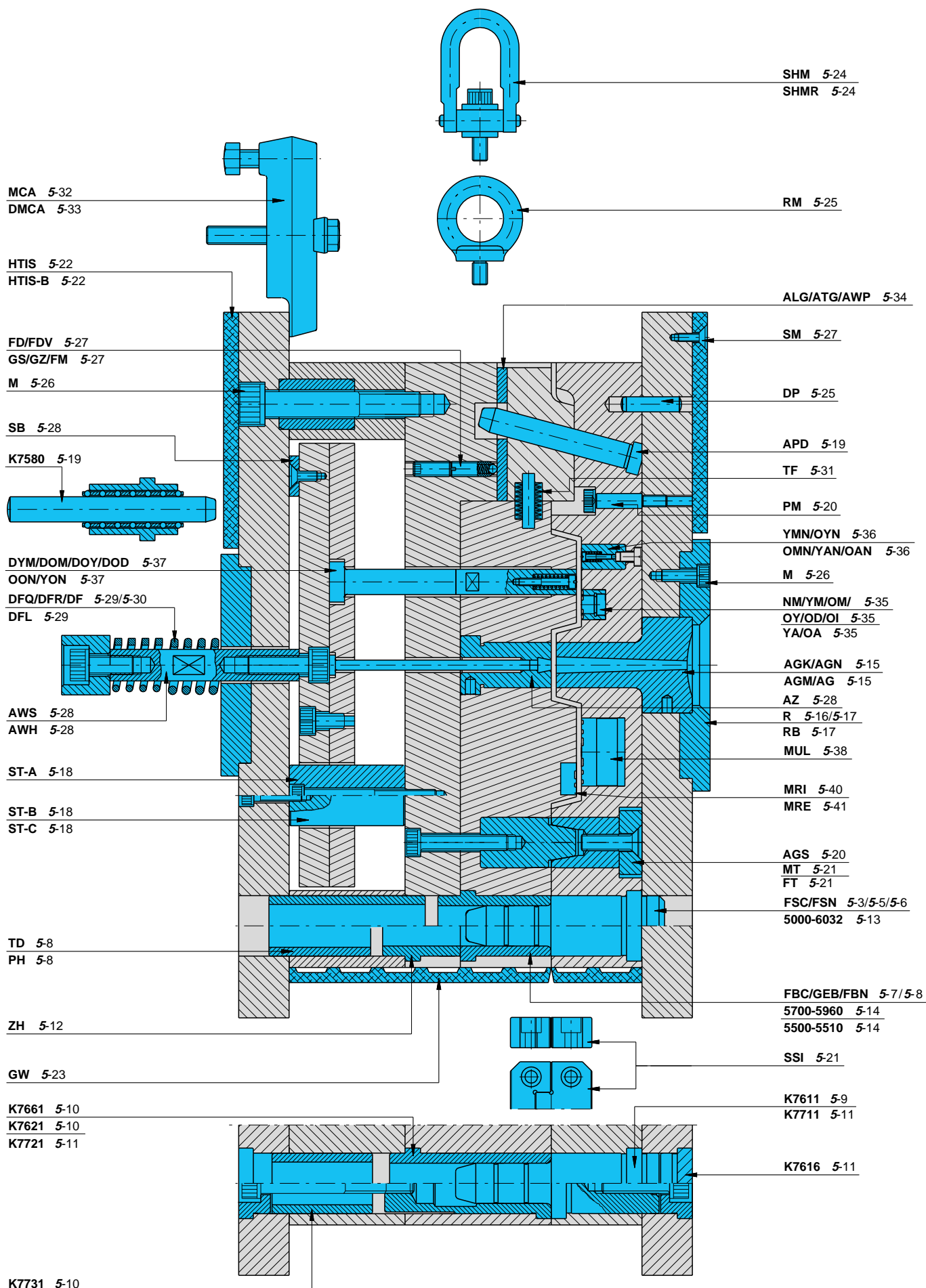
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♥ Mold components

♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠



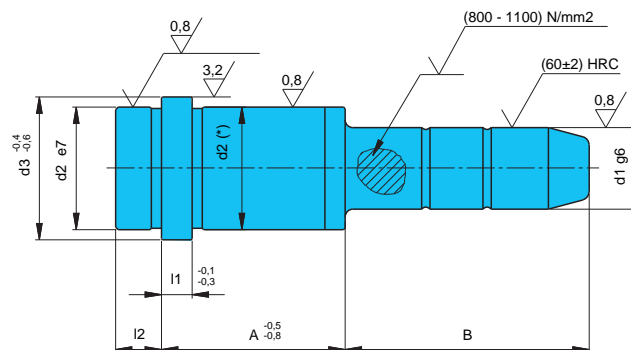
FSC

♥ Leader pins

◆ Führungsstifte

♣ Geleide pennen

♠ Colonnes de guidage



Mat. 1.7131

(*) A ≤ 36 → d2 = m6

(*) A ≥ 46 → d2 = k6

REF.	A	B	d1	REF.	A	B	d1	d2	d3	I1	I2	SERIE(S)	REF.	A	B	d1	REF.	A	B	d1	d2	d3	I1	I2	SERIE(S)
FSC 10-16- 20			10	FSC 9-16- 20			9	14	16	3	3	N10	FSC 20-26- 26			20	FSC 19-26- 26			19	28	32	6	9	N20 N22
- 36				- 36									- 36												
- 66				- 66									- 46												
FSC 10-20- 26				FSC 9-20- 26									- 66												
- 46				- 46									- 86												
- 66				- 66									-106												
- 86				- 86									-146												
FSC 10-26- 36				FSC 9-26- 36									-186												
- 56				- 56									FSC 20-36- 26												
FSC10- 36- 26				FSC 9-36- 26									- 36												
- 46			- 46			- 46																			
FSC 10-46- 36			FSC 9-46- 36			- 66																			
FSC 12-20- 20			12	FSC 11-20- 20			11	18	22	6	6	N12	- 86			- 86									
- 26				- 26									-106												
- 66				- 66									-146												
FSC 12-26- 26				FSC 11-26- 26									-186												
- 36				- 36									FSC 20-46- 36												
- 56				- 56									- 46												
- 96				- 96									- 66												
FSC 12-36- 36				FSC 11-36- 36									- 86												
- 56				- 56									-126												
- 86				- 86									-166												
FSC 12-46- 46			FSC 11-46- 46			FSC 20-56- 36																			
- 66			- 66			- 56																			
FSC 12-56- 36			FSC 11-56- 36			- 86																			
- 56			- 56			-126																			
FSC 16-26- 26			16	FSC 15-26- 26			15	24	28	6	9	N16	FSC 20-66- 46			FSC 19-66- 46									
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- 46				- 46									- 86												
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FSC 16-56- 36			FSC 15-56- 36																						
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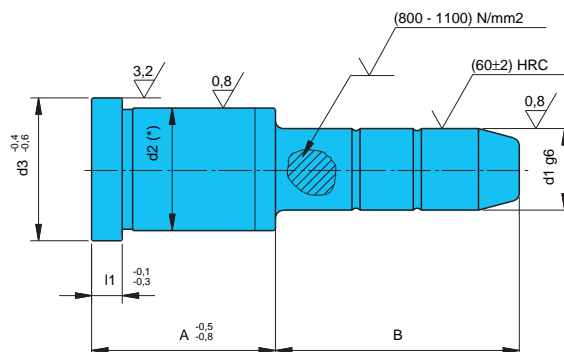
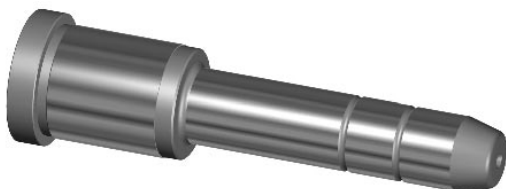
FSN

♥ Leader pins

◆ Führungsstifte

♣ Geleide pennen

♠ Colonnes de guidage



Mat. 1.7131

(*) $A \leq 36 \rightarrow d2 = m6$

(*) $A \geq 46 \rightarrow d2 = k6$

REF.	A	B	d1	REF.	A	B	d1	d2	d3	l1	SERIE(S)	REF.	A	B	d1	REF.	A	B	d1	d2	d3	l1	SERIE(S)
FSN 10-16- 26			10	FSN 9-16- 26	9	14	16	3			N10	FSN 20-26- 26	20			FSN 19-26- 26	19	28	32	6			N20 N22
- 46				- 46								- 36				- 36							
- 66				- 66								- 46				- 46							
- 86				- 86								- 66				- 66							
FSN 10-20- 26				FSN 9-20- 26								- 86				- 86							
- 46				- 46								-106				-106							
FSN 10-26- 26				FSN 9-26- 26								FSN 20-36- 26				FSN 19-36- 26							
- 46				- 46								- 36				- 36							
FSN 10-36- 26				FSN 9-36- 26								- 46				- 46							
- 46				- 46								- 66				- 66							
FSN 10-46- 26				FSN 9-46- 26								- 86				- 86							
- 46				- 46								-106				-106							
FSN 12-20- 20			12	FSN 11-20- 20	11	18	22	6			N12	FSN 20-46- 36				FSN 19-46- 36							
- 26				- 26								- 46				- 46							
- 66				- 66								- 66				- 66							
FSN 12-26- 26				FSN 11-26- 26								- 86				- 86							
- 36				- 36								-126				-126							
- 56				- 56								FSN 20-56- 36				FSN 19-56- 36							
FSN 12-36- 36				FSN 11-36- 36								- 56				- 56							
- 56				- 56								- 86				- 86							
FSN 12-46- 46				FSN 11-46- 46								FSN 20-66- 46				FSN 19-66- 46							
- 66				- 66								- 66				- 66							
FSN 12-56- 36				FSN 11-56- 36								- 86				- 86							
- 56				- 56								FSN 20-76- 56				FSN 19-76- 56							
FSN 16-26- 26			16	FSN 15-26- 26	15	24	28	6			N16	- 76				- 76							
- 36				- 36								- 96				- 96							
- 46				- 46								FSN 20-86- 66				FSN 19-86- 66							
- 66				- 66								- 86				- 86							
- 86				- 86																			
-106				-106																			
FSN 16-36- 26				FSN 15-36- 26																			
- 36				- 36																			
- 46				- 46																			
- 66				- 66																			
FSN 16-46- 36				FSN 15-46- 36																			
- 56				- 56																			
- 76				- 76																			
FSN 16-56- 36				FSN 15-56- 36																			
- 56				- 56																			
- 76				- 76																			
FSN 16-66- 46				FSN 15-66- 46																			
- 76				- 76																			
FSN 16-76- 56				FSN 15-76- 56																			
- 86				- 86																			

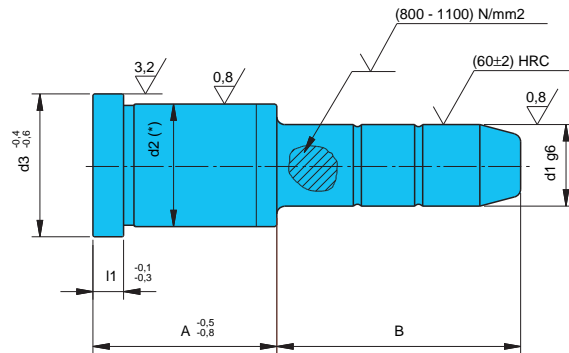
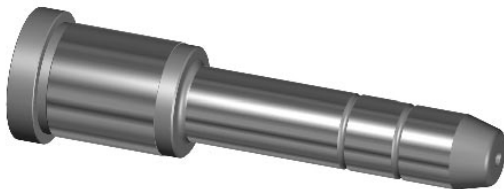
FSN

♥ Leader pins

♦ Führungsstifte

♣ Geleide pennen

♠ Colonnes de guidage



Mat. 1.7131

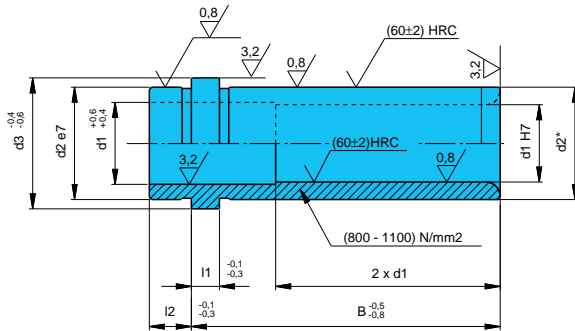
(*) $A \leq 36 \rightarrow d2 = m6$

(*) $A \geq 46 \rightarrow d2 = k6$

REF.	A	B	d1	REF.	A	B	d1	d2	d3	l1	SERIE(S)	REF.	A	B	d1	REF.	A	B	d1	d2	d3	l1	SERIE(S)
FSN 24- 26- 26			24	FSN 23- 26- 26			23	32	36	6	N25 N30 N35	FSN 34- 96- 66			34	FSN 33- 96- 66			33	42	46	6	N40 N45 N50 N55
- 46				- 46								- 96				- 96							
- 66				- 66								-146				-146							
- 86				- 86								FSN 34-106- 56				FSN 33-106- 56							
-106				-106								- 76				- 76							
FSN 24- 36- 26				FSN 23- 36- 26								-106				-106							
- 36				- 36								-146				-146							
- 56				- 56								FSN 34-126- 56				FSN 33-126- 56							
- 76				- 76								- 86				- 86							
- 96				- 96								-126				-126							
-106				-106								-146				-146							
-126				-126								FSN 34-146- 56				FSN 33-146- 56							
FSN 24- 46- 46				FSN 23- 46- 46								- 86				- 86							
- 66				- 66								-106				-106							
- 86				- 86								FSN 42- 36- 56			42	FSN 41- 36- 56			41	50	54	6	N60
-106				-106								- 96				- 96							
FSN 24- 56- 36				FSN 23- 56- 36								-126				-126							
- 46				- 46								FSN 42- 56- 76				FSN 41- 56- 76							
- 56				- 56								-126				-126							
- 76				- 76								FSN 42- 76- 76				FSN 41- 76- 76							
- 96				- 96								- 96				- 96							
FSN 24- 66- 46				FSN 23- 66- 46								-146				-146							
- 66				- 66								FSN 42- 96- 76				FSN 41- 96- 76							
- 86				- 86								- 96				- 96							
-106				-106								-146				-146							
FSN 24- 76- 56				FSN 23- 76- 56								FSN 42-106- 76				FSN 41-106- 76							
- 76				- 76								- 96				- 96							
- 96				- 96								-146				-146							
FSN 24- 86- 66				FSN 23- 86- 66								FSN 42-126- 86				FSN 41-126- 86							
- 86				- 86								-146				-146							
-106				-106								FSN 42-146- 76				FSN 41-146- 76							
FSN 24- 96- 56				FSN 23- 96- 56								- 96				- 96							
- 76				- 76								-146				-146							
- 96				- 96								FSN 50- 96- 96			50	FSN 49- 96- 96			49	60	64	6	N50 N55 N60
FSN 24-106- 56				FSN 23-106- 56								-126				-126							
- 76				- 76								-186				-186							
- 86				- 86								FSN 50-106- 96				FSN 49-106- 96							
FSN 34- 36- 46			34	FSN 33- 36- 46			33	42	46	6	N40 N45 N50 N55	-126				-126							
- 66				- 66								-186				-186							
- 86				- 86								FSN 50-126- 96				FSN 49-126- 96							
-126				-126								-146				-146							
FSN 34- 56- 56				FSN 33- 56- 56								FSN 50-146-106				FSN 49-146-106							
- 66				- 66								-146				-146							
- 96				- 96								FSN 50-166-166				FSN 49-166-166							
-126				-126								FSN 50-186-186				FSN 49-186-186							
FSN 34- 76- 66				FSN 33- 76- 66								FSN 50-206-206				FSN 49-206-206							
-106				-106																			
-146				-146																			

FBC

- ♥ Leader pin bushings
- ♦ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Douilles de guidage

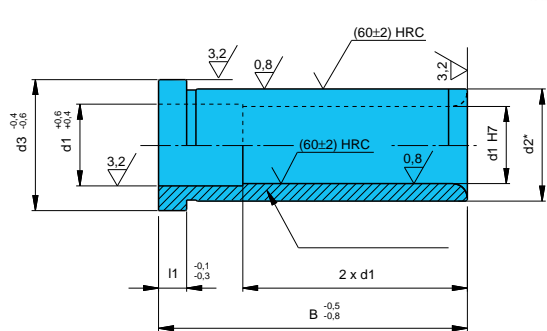
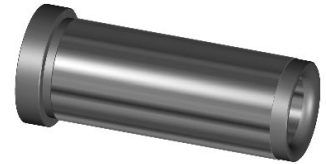


Mat. 1.7131

$$\begin{aligned} (*) \quad B \leq 36 &\rightarrow d2 = m6 \\ (*) \quad B \geq 46 &\rightarrow d2 = k6 \end{aligned}$$
[illegible]

FBN

- ♥ Leader pin bushings
- ♦ Führungsbuchsen
- ♣ Geleide bussen
- ♠ Douilles de guidage



Mat. 1.7131

(*) $B \leq 36 \rightarrow d2 = m6$
 (*) $B \geq 46 \rightarrow d2 = k6$

REF.	B	d1	REF. ⊕	B	d1	d2	d3	l1	SERIE(S)
FBN 10-	16	10	FBN 9-	16	9	14	16	3	N10
- 20	- 20								
- 26	- 26								
- 36	- 36								
- 46	- 46								
FBN 12-	20	12	FBN 11-	20	11	18	22	6	N12
- 26	- 26								
- 36	- 36								
- 46	- 46								
- 56	- 56								
FBN 16-	16	16	FBN 15-	16	15	24	28	6	N16
- 17	- 17								
- 22	- 22								
- 26	- 26								
- 36	- 36								
- 46	- 46								
- 56	- 56								
- 66	- 66								
- 76	- 76								
FBN 20-	17		20	FBN 19-					
- 22	- 22								
- 26	- 26								
- 36	- 36								
- 46	- 46								
- 56	- 56								
- 66	- 66								
- 76	- 76								
- 86	- 86								
FBN 24-	17	24	FBN 23-	17	23	32	36	6	N25 N30 N35
- 22	- 22								
- 26	- 26								
- 36	- 36								
- 46	- 46								
- 56	- 56								
- 66	- 66								
- 76	- 76								
- 86	- 86								
- 96	- 96								
-106	-106								
FBN 34-	26	34	FBN 33-	26	33	42	46	6	N40 N45 N50 N55
- 36	- 36								
- 56	- 56								
- 76	- 76								
- 96	- 96								
-106	-106								
-126	-126								
-146	-146								
FBN 42-	36	42	FBN 41-	36	41	50	54	6	N60 D40 D45
- 56	- 56								
- 76	- 76								
- 96	- 96								
-106	-106								
-126	-126								
-146	-146								
FBN 50-	96	50	FBN 49-	96	49	60	64	6	D50 D55 D60
-106	-106								
-126	-126								
-146	-146								
-166	-166								
-186	-186								
-206	-206								

♥ Mold components
♦ Formenzubehör

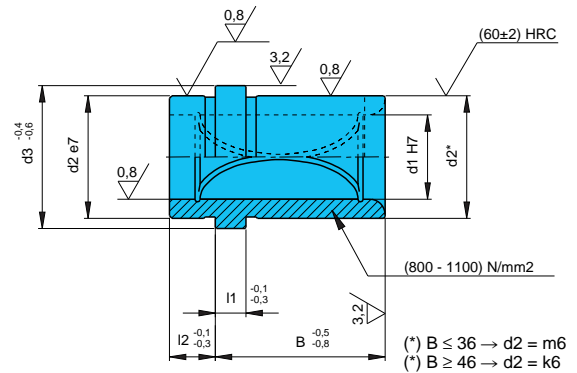
Matrijshuiskomponenten ♣
Composants de moules ♠

GEB

♥ Bronze plated bushings for guided ejection system
♦ Führungsbushen, Bronze plattiert für Auswerferplattenführung
♣ Geleide busen, brons gelaagd voor geleiding van uitwerpplaten
♠ Douilles de guidage, plaquées bronze pour guidage de la batterie d'éjection



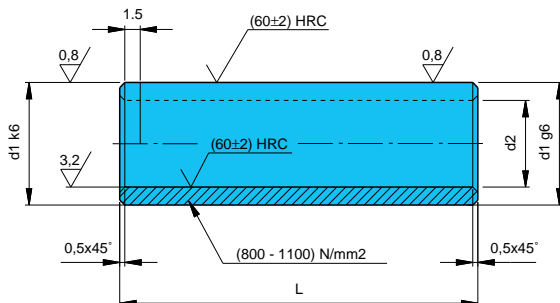
Mat. 1.7131



REF.	B	d1	d2	d3	l1	l2	REF.	B	d1	d2	d3	l1	l2
GEB 16-16	16	24	28	6	9		GEB 24-26	24	32	36	6	9	
GEB 20-26	20	28	32	6	9		-36						
							GEB 34-36	34	42	46	6	9	
							-46						

TD

♥ Locating sleeves
♦ Zentrierhülsen
♣ Centreerbussen
♠ Douilles de centrage

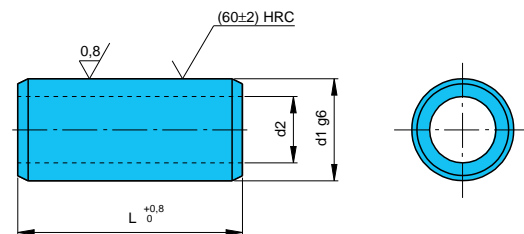


Mat. 1.7131

REF.	d1	d2	L	SERIE(S)
TD 14- 30	14	11	30	N10
- 40			40	
- 50			50	
- 60			60	
TD 18- 30	18	13	30	N12
- 46			46	
- 66			66	
TD 24- 30	24	17	30	N16
- 50			50	
- 60			60	
- 76			76	
- 86			86	
- 96			96	
TD 28- 60	28	21	60	N20
- 80			80	N22
-100			100	
-120			120	
-140			140	
TD 32- 60	32	25	60	N25
-100			100	N30
-120			120	N35
-140			140	
-160			160	
TD 42- 60	42	34	60	N40
-130			130	N45
-160			160	N50
-180			180	N55
TD 50- 60	50	43	60	N60
-130			130	
-160			160	
-180			180	

PH

♥ Tubular dowels
♦ Paßhülsen
♣ Centreerhulzen
♠ Douilles de guidage



Mat. 1.7131

REF.	d1	d2	L
PH 10-10	10	6,5	10
-22			22
-26			26
PH 12- 8	12	8,5	8
-28			28
PH 14-10	14	10,5	10
-36			36
PH 18-12	18	13	12
-38			38
-48			48
-58			58
-68			68
PH 22-12	22	17	12
-48			48
-58			58
-68			68

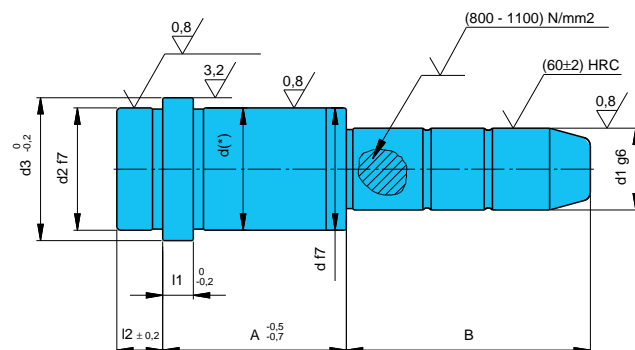
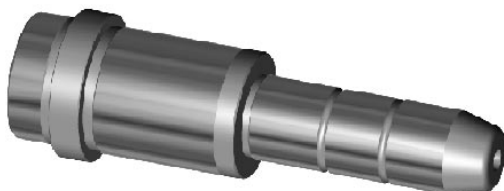
K 7611 (Euro)

♥ Leader pins

♦ Führungsstifte

♣ Geleide pennen

♠ Colonnes de guidage



Mat. 1.7131

(*) A ≤ 36 → d = m6

(*) A ≥ 46 → d = k6

REF.	d1 - A - B	REF.	d1 - A - B	d	d1	d2	d3	l1	l2	SERIE(S)	REF.	d1 - A - B	REF.	d1 - A - B	d	d1	d2	d3	l1	l2	SERIE(S)
K7611-16-11-16- 30	K7611-16-10-16- 30	16	11/10	16	20	3,5	3,5	1010	↓	1212	K7611-25-19-26- 45	K7611-25-18-26- 45	25	19/18	25	31	6	9	1620	↓	2525
- 50	- 50										- 65	- 65									
- 70	- 70										- 85	- 85									
K7611-16-11-20- 30	K7611-16-10-20- 30										-105	-105									
- 50	- 50										-125	-125									
- 70	- 70										-165	-165									
K7611-16-11-26- 30	K7611-16-10-26- 30										-225	-225									
- 50	- 50										K7611-25-19-36- 35	K7611-25-18-36- 35									
K7611-16-11-36- 30	K7611-16-10-36- 30										- 55	- 55									
- 50	- 50										- 75	- 75									
K7611-16-11-46- 50	K7611-16-10-46- 50										- 95	- 95									
K7611-16-11-56- 50	K7611-16-10-56- 50										-105	-105									
K7611-20-15-20- 30	K7611-20-14-20- 30	20	15/14	20	25	6	9	1216	↓	1616	-165	-165									
- 50	- 50										-225	-225									
- 70	- 70										K7611-25-19-46- 45	K7611-25-18-46- 45									
- 90	- 90										- 65	- 65									
-110	-110										- 85	- 85									
K7611-20-15-26- 45	K7611-20-14-26- 45										-105	-105									
- 65	- 65										-165	-165									
- 85	- 85										K7611-25-19-56- 55	K7611-25-18-56- 55									
-105	-105										- 75	- 75									
-145	-145										K7611-25-19-76- 55	K7611-25-18-76- 55									
K7611-20-15-36- 35	K7611-20-14-36- 35										- 75	- 75									
- 55	- 55										K7611-25-19-96- 55	K7611-25-18-96- 55									
- 75	- 75										- 95	- 95									
- 95	- 95																				
-125	-125																				
K7611-20-15-46- 45	K7611-20-14-46- 45																				
- 65	- 65																				
-105	-105																				
-125	-125																				
K7611-20-15-56- 55	K7611-20-14-56- 55																				
- 95	- 95																				
K7611-20-15-76- 75	K7611-20-14-76- 75																				

♥ Mold components

♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

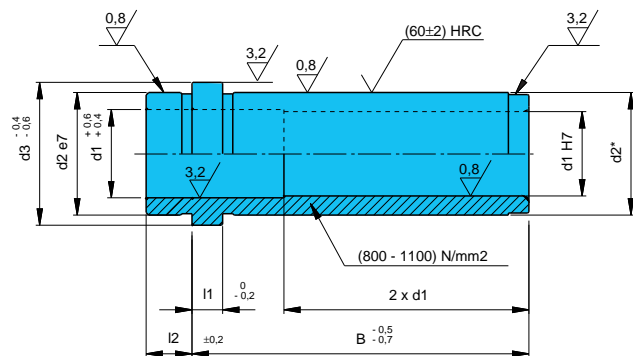
K 7621 (Euro)

♥ Leader pin bushings

♦ Führungsbuchsen

♣ Geleide busen

♠ Colonnes de guidage



Mat. 1.7131

(*) B ≤ 36 → d2 = m6

(*) B ≥ 46 → d2 = k6

REF.	d1	B	d1	REF.	d1	B	d1	d2	d3	l1	l2	SERIE(S)
K7621-16-11-16	11		K7621-16-10-16	10	16	20	3,5	3,5	1010			
-20			-20									1212
-26			-26									
-36			-36									
-46			-46									
-56			-56									
K7621-20-15-20	15		K7621-20-14-20	14	20	25	6	9	1216			
-26			-26									1616
-36			-36									
-46			-46									
-56			-56									
-76			-76									
K7621-25-19-26	19		K7621-25-18-26	18	25	31	6	9	1620			
-36			-36									2525
-46			-46									
-56			-56									
-76			-76									
-96			-96									

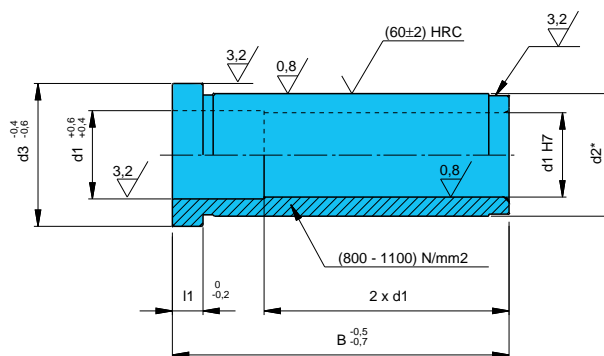
K 7661 (Euro)

♥ Leader pin bushings

♦ Führungsbuchsen

♣ Geleide busen

♠ Colonnes de guidage



Mat. 1.7131

(*) B ≤ 36 → d2 = m6

(*) B ≥ 46 → d2 = k6

REF.	d1	B	d1	REF.	d1	B	d1	d2	d3	l1	SERIE(S)
K7661-16-11-16	11		K7661-16-10-16	10	16	20	3,5				1010
-20			-20								1212
-26			-26								
-36			-36								
-46			-46								
-56			-56								
K7661-20-15-20	15		K7661-20-14-20	14	20	25	6				1216
-26			-26								1616
-32			-32								
-36			-36								
-46			-46								
-56			-56								
-76			-76								
K7661-25-19-26	19		K7661-25-18-26	18	25	31	6				1620
-36			-36								2525
-42			-42								
-46			-46								
-52			-52								
-56			-56								
-76			-76								
-96			-96								
K7661-32-24-52	24		K7661-32-23-52	23	32	38	6				

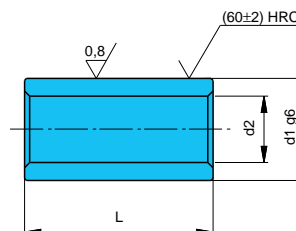
K 7731 (Euro)

♥ Tubular dowels

♦ Paßhülsen

♣ Centreerhulzen

♠ Douilles de centrage



♥ Obsolete
♦ Auslaufmodell
♣ Verdwijnt
♠ Disparu

Mat. 1.7131

REF.	d1 - L	d1	d2	SERIE(S)	REF.	d1 - L	d1	d2	SERIE(S)	REF.	d1 - L	d1	d2	SERIE(S)
K7731-16- 10	16	12,5	10	1010	K7731-20- 10	20	16,5	10	1010	K7731-25- 10	25	21	10	1010
- 13					K7731-20- 15				1616	- 12				1620
- 18					- 20					K7731-25- 15	25	21		2525
- 23					- 25					- 20				
- 28					- 30					- 25				
- 33					- 35					- 30				
- 38					- 40					- 35				
- 45					- 45					- 40				
- 50					- 50					- 45				
- 60					- 60					- 50				
- 80					- 70					- 60				
					- 80					- 70				
					- 90					- 80				
					-100					- 90				
					-120					-100				
										-120				

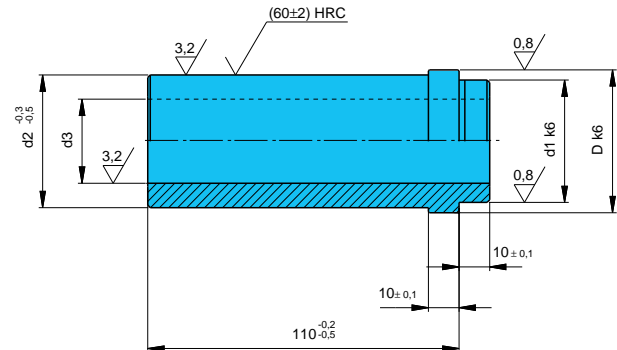
ZH

♥ Locating sleeves

♦ Zentrierhülsen

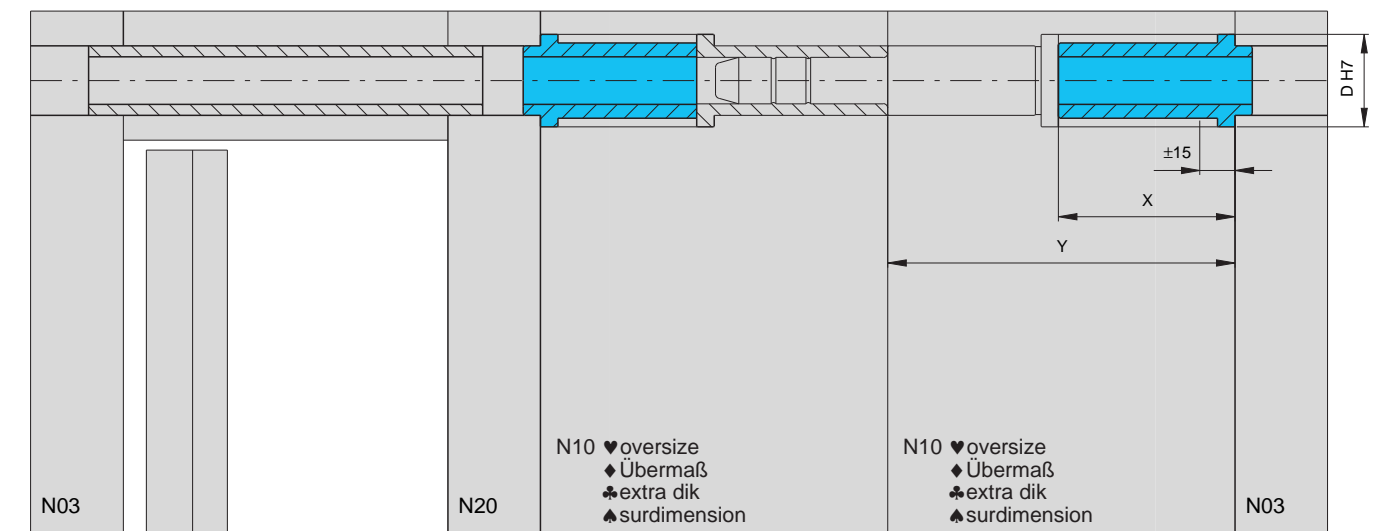
♣ Centreebusen

♠ Douilles de centrage



Mat. 1.7131

REF.	D	d1	d2	d3	SERIE(S)
ZH-28	28	24	27,5	17	16
ZH-32	32	28	31,5	21	20-22
ZH-36	36	32	35,5	25	25-35
ZH-46	46	42	45,5	36	40-55
ZH-54	54	50	53,5	43	60



D \ Y	x																	
	86	96	106	116	126	136	146	156	166	176	186	196	206	216	226	236	246	256
28	10	20	30	40	50	60	70	80	90	100	110							
32	-	10	20	30	40	50	60	70	80	90	100	110						
36	-	-	-	10	20	30	40	50	60	70	80	90	100	110				
46	-	-	-	-	-	-	-	10	20	30	40	50	60	70	80	90	100	110
54	-	-	-	-	-	-	-	10	20	30	40	50	60	70	80	90	100	110

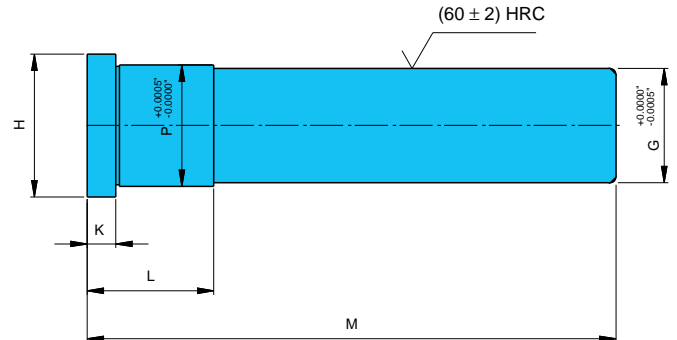
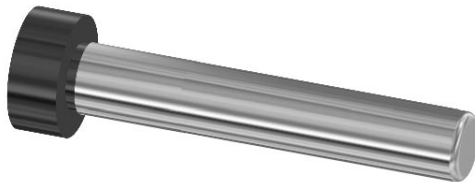
5000 - 6032

♥ Leader pins - inch

◆ Führungsstifte - Zoll

♣ Geleide pennen - duimmaten

♠ Colonnes de guidage - pouces



NOM. Ø	G + .0000" - .0005"	H (MAX.)	K	P + .0005" - .0000"
3/4	.749	.990	3/16	.751
7/8	.874	1.115	1/4	1.001
1"	.999	1.240	1/4	1.001
1" 1/4	1.249	1.490	5/16	1.251
1" 1/2	1.499	1.740	5/16	1.501
2"	1.999	2.240	5/16	2.001
2" 1/2	2.499	2.740	5/16	2.501
3"	2.999	3.365	1/2	3.001

Mat. C1117 - USA

REF.	G	M	L	REF.	G	M	L	REF.	G	M	L
5000 GL	3/4"	1 3/4"	7/8"	5213 GL	1"	9 1/4"	1 7/8"	5426 GL	1 1/2"	15 3/4"	1 7/8"
5001 GL		2 1/4"		5214 GL		9 3/4"		5606 GL	2"	5 3/4"	
5002 GL		2 3/4"		5215 GL		10 1/4"		5608 GL		6 3/4"	
5003 GL		3 1/4"		5216 GL		10 3/4"		5610 GL		7 3/4"	
5004 GL		3 3/4"		5217 GL		11 1/4"		5612 GL		8 3/4"	
5005 GL		4 1/4"	1 3/8"	5218 GL		11 3/4"		5614 GL		9 3/4"	
5006 GL		4 3/4"		5219 GL		12 1/4"		5616 GL		10 3/4"	
5007 GL		5 1/4"		5300 GL	1 1/4"	2 3/4"	7/8"	5618 GL		11 3/4"	
5008 GL		5 3/4"	1 7/8"	5301 GL		3 1/4"		5620 GL		12 3/4"	
5009 GL		6 1/4"		5302 GL		3 3/4"		5622 GL		13 3/4"	
5010 GL		6 3/4"		5303 GL		4 1/4"		5624 GL		14 3/4"	
5011 GL		7 1/4"		5304 GL		4 3/4"	1 3/8"	5626 GL		15 3/4"	
5012 GL		7 3/4"		5305 GL		5 1/4"		5632 GL		18 3/4"	
5015 GL		9 1/4"		5306 GL		5 3/4"		5806 GL	2 1/2"	5 3/4"	2 3/8"
5099 GL	7/8"	1 3/4"	7/8"	5307 GL		6 1/4"		5808 GL		6 3/4"	
5100 GL		2 1/4"		5308 GL		6 3/4"	1 7/8"	5810 GL		7 3/4"	
5101 GL		2 3/4"		5309 GL		7 1/4"		5812 GL		8 3/4"	
5102 GL		3 1/4"		5310 GL		7 3/4"		5814 GL		9 3/4"	
5103 GL		3 3/4"		5311 GL		8 1/4"		5816 GL		10 3/4"	
5104 GL		4 1/4"	1 3/8"	5312 GL		8 3/4"		5818 GL		11 3/4"	
5105 GL		4 3/4"		5313 GL		9 1/4"		5820 GL		12 3/4"	
5106 GL		5 1/4"		5314 GL		9 3/4"		5822 GL		13 3/4"	
5107 GL		5 3/4"		5315 GL		10 1/4"		5824 GL		14 3/4"	
5108 GL		6 1/4"	1 7/8"	5316 GL		10 3/4"		5826 GL		15 3/4"	
5109 GL		6 3/4"		5317 GL		11 1/4"		5828 GL		16 3/4"	
5110 GL		7 1/4"		5318 GL		11 3/4"		5832 GL		18 3/4"	
5111 GL		7 3/4"		5319 GL		12 1/4"		6012 GL	3"	8 3/4"	2 1/8"
5112 GL		8 1/4"		5320 GL		12 3/4"		6016 GL		10 3/4"	
5113 GL		8 3/4"		5322 GL		13 3/4"		6020 GL		12 3/4"	
5117 GL		10 3/4"		5324 GL		14 3/4"		6024 GL		14 3/4"	
5120 GL		12 1/4"		5326 GL		15 3/4"		6028 GL		16 3/4"	
5198 GL	1"	1 3/4"	7/8"	5402 GL	1 1/2"	3 3/4"	1 3/8"	6032 GL		18 3/4"	
5199 GL		2 1/4"		5403 GL		4 1/4"					
5200 GL		2 3/4"		5404 GL		4 3/4"					
5201 GL		3 1/4"		5405 GL		5 1/4"					
5202 GL		3 3/4"		5406 GL		5 3/4"					
5203 GL		4 1/4"	1 3/8"	5407 GL		6 1/4"					
5204 GL		4 3/4"		5408 GL		6 3/4"					
5205 GL		5 1/4"		5410 GL		7 3/4"	1 7/8"				
5206 GL		5 3/4"		5412 GL		8 3/4"					
5207 GL		6 1/4"		5414 GL		9 3/4"					
5208 GL		6 3/4"	1 7/8"	5416 GL		10 3/4"					
5209 GL		7 1/4"		5418 GL		11 3/4"					
5210 GL		7 3/4"		5420 GL		12 3/4"					
5211 GL		8 1/4"		5422 GL		13 3/4"					
5212 GL		8 3/4"		5424 GL		14 3/4"					

♥ Mold components

♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

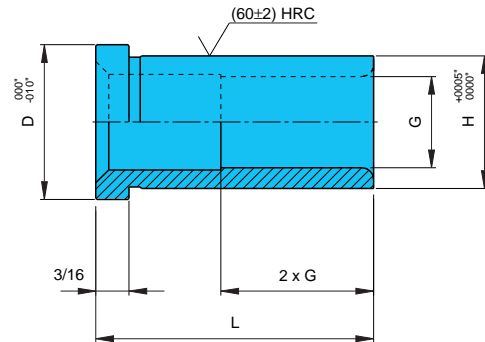
5700 - 5960

♥ Leader pin bushings - inch

♦ Führungsbuchsen - Zoll

♣ Geleide bussen - duimmaten

♠ Douilles de guidage - pouces



G	3/4"	7/8"	1"	1 1/4"	1 1/2"	2"	2 1/2"
H	1.1255	1.2505	1.3755	1.6255	2.0005	2.5005	3.2505
D	1.302	1.427	1.552	1.802	2.177	2.677	3.427

Mat. C1117 - USA

REF.	G	L	REF.	G	L	REF.	G	L
5700	3/4"	7/8"	5733	1"	2 3/8"	5776	1 1/2"	3 7/8"
5701		1 3/8"	5734		2 7/8"	5777		4 3/8"
5702		1 7/8"	5735		3 3/8"	5778		4 7/8"
5703		2 3/8"	5736		3 7/8"	5780		5 7/8"
5704		2 7/8"	5737		4 3/8"	5901	2"	1 3/8"
5705		3 3/8"	5738		4 7/8"	5902		1 7/8"
5706		3 7/8"	5740		5 7/8"	5903		2 3/8"
5707		4 3/8"	5750	1 1/4"	7/8"	5904		2 7/8"
5708		4 7/8"	5751		1 3/8"	5905		3 3/8"
5709		5 7/8"	5752		1 7/8"	5906		3 7/8"
5710	7/8"	7/8"	5753		2 3/8"	5907		4 3/8"
5711		1 3/8"	5754		2 7/8"	5908		4 7/8"
5712		1 7/8"	5755		3 3/8"	5910		5 7/8"
5713		2 3/8"	5756		3 7/8"	5951	2 1/2"	1 3/8"
5714		2 7/8"	5757		4 3/8"	5952		1 7/8"
5715		3 3/8"	5758		4 7/8"	5953		2 3/8"
5716		3 7/8"	5760		5 7/8"	5954		2 7/8"
5717		4 3/8"	5770	1 1/2"	7/8"	5955		3 3/8"
5718		4 7/8"	5771		1 3/8"	5956		3 7/8"
5720		5 7/8"	5772		1 7/8"	5957		4 3/8"
5730	1"	7/8"	5773		2 3/8"	5958		4 7/8"
5731		1 3/8"	5774		2 7/8"	5960		5 7/8"
5732		1 7/8"	5775		3 3/8"			

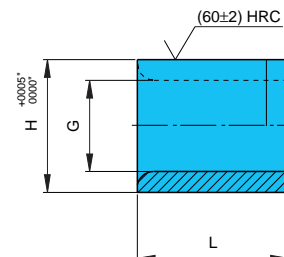
5500 - 5510

♥ Leader pin bushings - inch

♦ Führungsbuchsen - Zoll

♣ Geleide bussen - duimmaten

♠ Douilles de guidage - pouces



Mat. C1117 - USA

REF.	G	L	H	REF.	G	L	H
5500	.750	27/32"	1.1255	5506	1.5	1 11/32"	2.0005
5501	.750	1 11/32"	1.1255	5507	1.5	1 27/32"	2.0005
5502	.875	1 11/32"	1.2505	5508	2.0	3 7/8"	2.5005
5503	1.0	1 11/32"	1.3755	5509	2.5	4 7/8"	3.2505
5504	1.25	1 11/32"	1.6255	5510	3.0	4 7/8"	3.7505
5505	1.25	1 27/32"	1.6255				

♥ Mold components

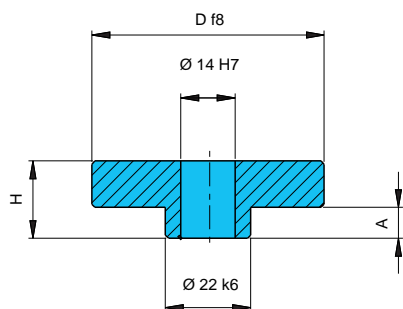
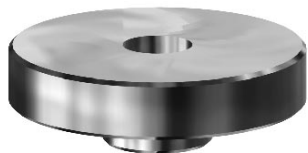
♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

R

- ♥ Locating rings
- ♦ Zentrierringe
- ♣ Centreerringen
- ♠ Anneaux de centrage

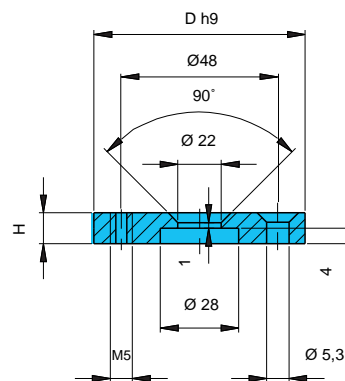
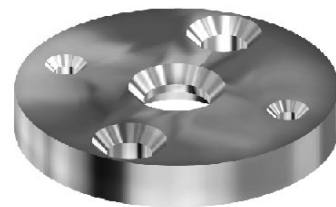


Mat. St 37-2

REF.	D	H	A	SERIE(S)
R 40	40	12	6	10
R 60	60	12	6	
R 60 L	60	22	16	

R

- ♥ Locating rings
- ♦ Zentrierringe
- ♣ Centreerringen
- ♠ Anneaux de centrage

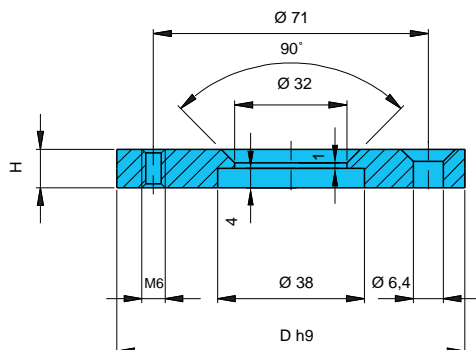
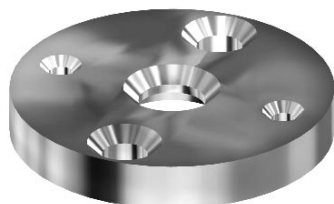


Mat. St 37-2

REF.	D	H	SERIE(S)
R 60 12	60	8	12

R

- ♥ Locating rings
- ♦ Zentrierringe
- ♣ Centreerringen
- ♠ Anneaux de centrage

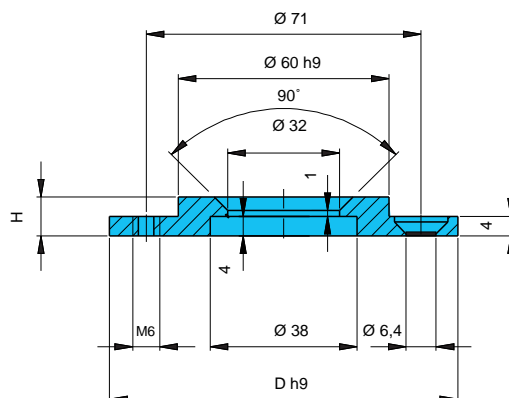


Mat. St 37-2

REF.	D	H	SERIE(S)
R 90	90	8	16

R

- ♥ Locating rings
- ♦ Zentrierringe
- ♣ Centreerringen
- ♠ Anneaux de centrage



Mat. St 37-2

REF.	D	H	SERIE(S)
R 91	90	8	16

♥ Mold components

♦ Formenzubehör

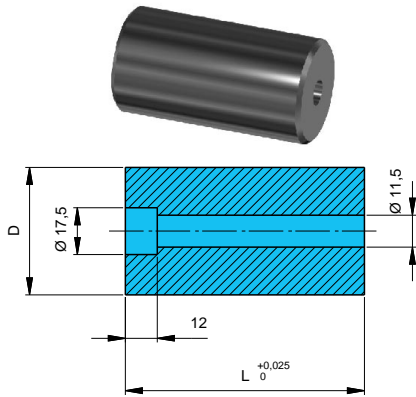
♣ Matrijshuiskomponenten

♠ Composants de moules

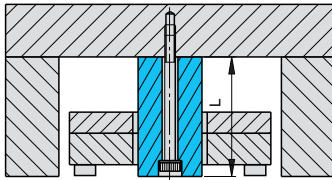
ST-A

♥ Support pillars - ♦ Stützbolzen

♣ Steunkolommen - ♠ Colonnes de support



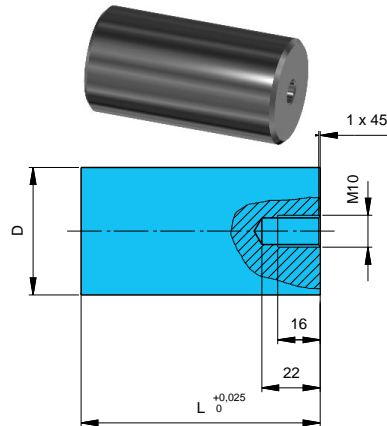
Mat. 1.0718



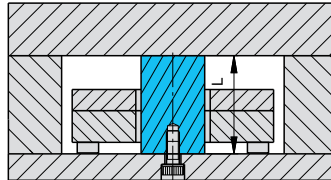
ST-B

♥ Support pillars - ♦ Stützbolzen

♣ Steunkolommen - ♠ Colonnes de support



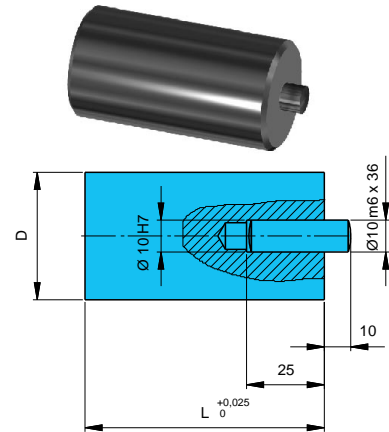
Mat. 1.0718



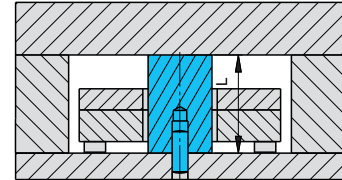
ST-C

♥ Support pillars - ♦ Stützbolzen

♣ Steunkolommen - ♠ Colonnes de support



Mat. 1.0718



REF.	D	L
ST 30 36-A	30	36
46-A		46
56-A		56
66-A		66
76-A		76
86-A		86
96-A		96
106-A		106
126-A		126
ST 40 46-A	40	46
56-A		56
66-A		66
76-A		76
86-A		86
96-A		96
106-A		106
126-A		126
ST 50 46-A	50	46
66-A		66
76-A		76
86-A		86
96-A		96
106-A		106
126-A		126

REF.	D	L
ST 30 36-B	30	36
46-B		46
56-B		56
66-B		66
76-B		76
86-B		86
96-B		96
106-B		106
126-B		126
ST 40 46-B	40	46
56-B		56
66-B		66
76-B		76
86-B		86
96-B		96
106-B		106
126-B		126
ST 50 46-B	50	46
66-B		66
76-B		76
86-B		86
96-B		96
106-B		106
126-B		126

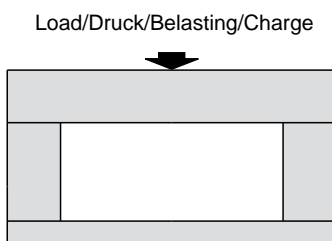
REF.	D	L
ST 30 36-C	30	36
46-C		46
56-C		56
66-C		66
76-C		76
86-C		86
96-C		96
106-C		106
126-C		126
ST 40 46-C	40	46
56-C		56
66-C		66
76-C		76
86-C		86
96-C		96
106-C		106
126-C		126
ST 50 46-C	50	46
66-C		66
76-C		76
86-C		86
96-C		96
106-C		106
126-C		126

♥ No support pillars

♦ Ohne Stützbolzen

♣ Zonder steunkolommen

♠ Sans colonnes de support

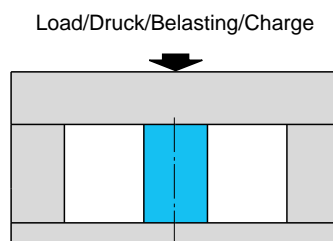


♥ One row of support pillars increases the permissible cavity area 4 times.

♦ Eine Reihe Stützbolzen erhöht die Belastbarkeit der Kavitätfläche um das 4-Fache.

♣ Eén rij steunkolommen verhoogt de toelaatbare belasting van het vormoppervlak 4 maal.

♠ Une rangée de colonnes de support augmente la surface d'empreinte admissible de 4 fois.

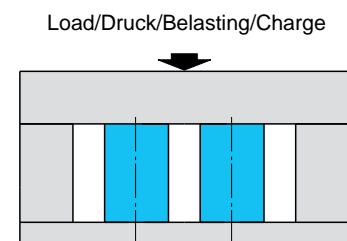


♥ Two rows of support pillars increase the permissible cavity area 9 times.

♦ Zwei Reihen Stützbolzen erhöhen die Belastbarkeit der Kavitätsfläche um das 9-Fache.

♣ Twee rijen steunkolommen verhogen de toelaatbare belasting van het vormoppervlak 9 maal

♠ Deux rangées de colonnes de support augmentent la surface d'empreinte admissible de 9 fois



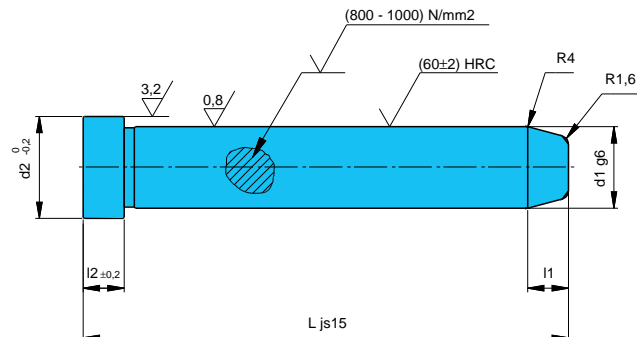
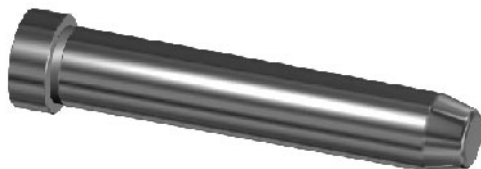
APD

♥ Angle pins

♦ Schrägstifte

♣ Schuifpennen

♠ Doigts de démoulage



Mat. 1.7131

REF.	d1	d2	l1	l2	L	REF.	d1	d2	l1	l2	L	REF.	d1	d2	l1	l2	L
APD 10- 40	10	12	5	3	40	APD 16-220	16	20	7	8	220	APD 24- 80	24	28	8	15	80
- 60					60	-230					230	-100					100
- 80					80	APD 18- 40	18	22	8	8	40	-110					110
-100					100	- 60					60	-120					120
-110					110	- 80					80	-140					140
-120					120	-100					100	-160					160
-140					140	-110					110	-180					180
APD 12- 40	12	16	5	6	40	-120					120	-200					200
- 60					60	-140					140	-210					210
- 80					80	-160					160	-220					220
-100					100	-180					180	-230					230
-110					110	-200					200	-240					240
-120					120	-210					210	-270					270
-140					140	-220					220	APD 30-180	30	34	8	15	180
-160					160	-230					230	-200					200
APD 14- 40	14	18	6	8	40	-250					250	-210					210
- 60					60	APD 20- 60	20	24	8	8	60	-220					220
- 80					80	- 80					80	-240					240
-100					100	-100					100	-270					270
-110					110	-110					110	-300					300
-120					120	-120					120	APD 34-100	34	38	8	15	100
-140					140	-140					140	-120					120
-160					160	-160					160	-170					170
-180					180	-180					180	-190					190
-200					200	-200					200	-210					210
-210					210	-210					210	-250					250
-220					220	-220					220	APD 40-160	40	48	10	15	160
-230					230	-230					230	-200					200
APD 16- 40	16	20	7	8	40	APD 22- 80	22	26	8	15	80	-240					240
- 60					60	-100					100	-300					300
- 80					80	-110					110	APD 42-160	42	48	10	15	160
-100					100	-120					120	-200					200
-110					110	-140					140	-240					240
-120					120	-160					160	-300					300
-140					140	-180					180	APD 50-160	50	58	10	15	160
-160					160	-200					200	-200					200
-180					180	-210					210	-240					240
-200					200	-220					220	-300					300
-210					210	-230					230	-360					360

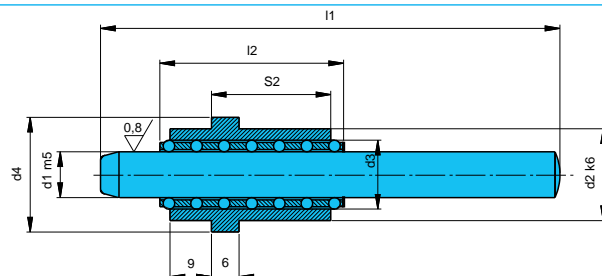
K 7580

♥ Guided ejection system

♦ Auswerferführung Kugelgeführt

♣ Uitwerpergeleiding

♠ Guidage d'éjection



REF.	d1	d2	d3	d4	l1	l2	S2
K 7580-10-16	10	20	15	25	50	40	16
-20					70	40	20
-26					100	40	26
-36					120	40	36
K 7580-16-20	16	30	22	35	70	45	20
-26					100	50	26
-36					120	60	36

♥ Mold components

♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

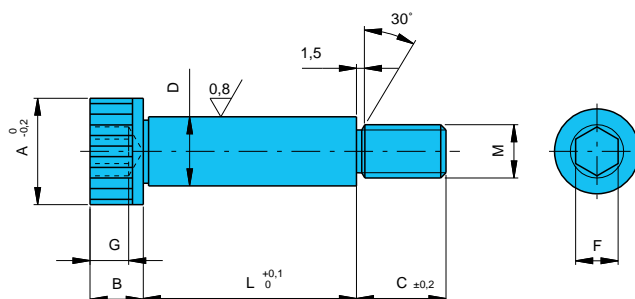
PM

♥ Shoulder screws

♦ Paßschrauben

♣ Passchroeven

♠ Vis épaulées



Mat. 35 NC 6 $\pm 1100-1200$ N/mm²

REF.	L	A	B	C	Dh8	F	G	M	REF.	L	A	B	C	Dh8	F	G	M	REF.	L	A	B	C	Dh8	F	G	M
PM 5- 12	9	4	8	6	3	2,5	5	- 70	14	6	12	10	5	4	8	- 63	22	10	20	16	8	6	12			
- 16								- 70																		
- 20								- 80																		
- 25								- 100																		
- 30								- 120																		
- 40								PM 10- 20																		
PM 6- 12	11	5	10	8	4	3	6	- 25	18	8	16	12	6	5	10	- 110	28	12	25	20	10	8	16			
- 16								PM 16- 30																		
- 20								- 40																		
- 25								- 50																		
- 30								- 60																		
- 40								- 63																		
- 50	- 70																									
- 60	- 80																									
- 70	- 90																									
- 80	- 100																									
- 90	- 120																									
PM 8- 16	14	6	12	10	5	4	8	- 90	22	10	20	16	8	6	12	- 100	36	16	32	25	14	11	20			
- 20								PM 20- 60																		
- 25								- 80																		
- 30								PM 12- 25																		
- 40								- 30																		
- 50								- 40																		
- 60	- 50																									
- 63	- 60																									

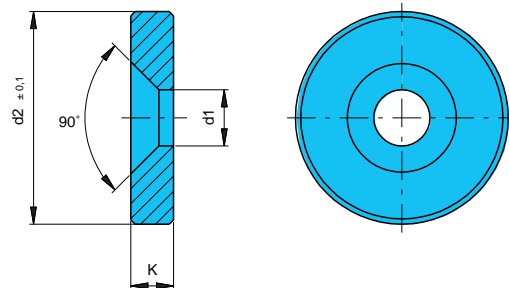
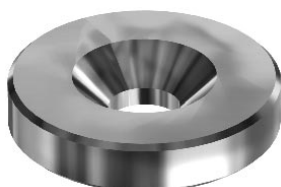
AGS

♥ Shoulder plates for tapered interlocks

♦ Abstimmsscheiben für Zentrierstücke

♣ Inbouwplaatjes voor Centreerkonussen

♠ Bagues de maintien pour cônes de centrage



Mat. 1.7131 – 58-62 HRC

REF.	d1	d2	K $\begin{smallmatrix} +0,00 \\ +0,05 \end{smallmatrix}$	for voor	für pour
AGS 12	5,5	16	5	FT 12	MT 12
AGS 20	6,6	25	5	FT 20	MT 20
AGS 25	6,6	30	5	FT 25	MT 25
AGS 32	9	37	6	FT 32	MT 32
AGS 42	9	47	6	FT 42	MT 42

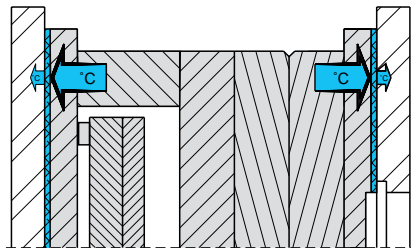
HTIS/HTIS-B

♥ Insulating plates - asbestos-free

♦ Wärmeschutzplatten - asbestfrei

♣ Isolatieplaten - asbestvrij

♠ Plaques isolantes - sans amiante

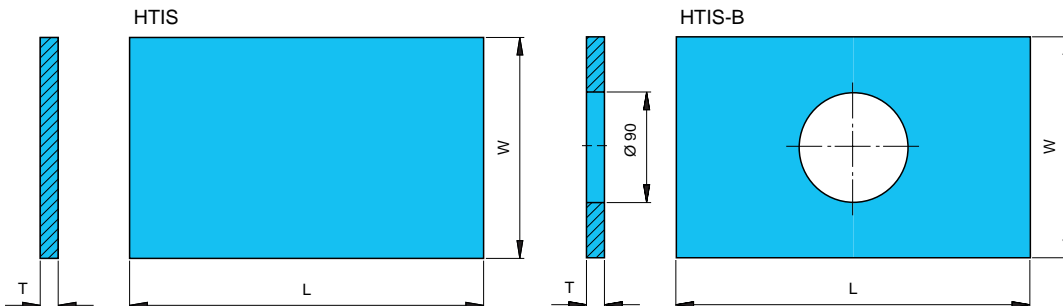


♥ For the insulation of presses and injection molds for thermoplastics and thermoset materials and diecasting dies

♦ Zur Isolierung der Pressen und Spritzgießnormalien für thermoset und thermoplastischer Kunststoffe und Druckguß

♣ Voor isolatie van spuitgietmatrijzen en persen voor thermoplastische en thermohardende materialen en drukgietmatrijzen.

♠ Pour l'injection des thermoplastiques et des thermodurcissables, l'isolation des presses et la coulée sous pression



REF.	W	L	T	REF.	W	L	T	REF.	W	L	T	REF.	W	L	T
HTIS-1616- 6	156	156	6*	HTIS-4050-10	396	496	10*	HTIS-B-1616-6	156	156	6*	HTIS-B-4040-10	396	396	10*
-1620- 6		196		-4060-10		596		-B-1620-6		196		-B-4045-10		446	
-1625- 6		246		HTIS-4545-10	446	446		-B-1625-6		246		-B-4050-10		496	
HTIS-2020- 6	196	196		-4550-10		496		HTIS-B-2020-6	196	196		-B-4060-10		596	
-2025- 6		246		-4560-10		596		-B-2025-6		246		HTIS-B-4545-10	446	446	
-2030- 6		296		-4570-10		696		-B-2030-6		296		-B-4550-10		496	
-2035- 6		346		-4580-10		796		-B-2035-6		346		-B-4560-10		596	
-2040- 6		396		HTIS-5050-10	496	496		-B-2040-6		396		-B-4570-10		696	
HTIS-2225- 6	218	246		-5055-10		546		HTIS-B-2225-6	218	246		-B-4580-10		796	
HTIS-2525- 6	246	246		-5060-10		596		HTIS-B-2525-6	246	246		HTIS-B-5050-10	496	496	
-2530- 6		296		-5070-10		696		-B-2530-6		296		-B-5055-10		546	
-2535- 6		346		-5080-10		796		-B-2535-6		346		-B-5060-10		596	
-2540- 6		396		HTIS-5555-10	546	546		-B-2540-6		396		-B-5070-10		696	
-2550- 6		496		-5560-10		596		-B-2550-6		496		-B-5080-10		796	
HTIS-3030- 6	296	296		-5570-10		696		HTIS-B-3030-6	296	296		HTIS-B-5555-10	546	546	
-3035- 6		346		-5580-10		796		-B-3035-6		346		-B-5560-10		596	
-3040- 6		396		HTIS-6060-10	596	596		-B-3040-6		396		-B-5570-10		696	
-3045- 6		446		-6070-10		696		-B-3045-6		446		-B-5580-10		796	
-3050- 6		496		-6080-10		796		-B-3050-6		496		HTIS-B-6060-10	596	596	
-3055- 6		546		-6090-10		896		-B-3055-6		546		-B-6070-10		696	
-3060- 6		596		Only for UK				-B-3060-6		596		-B-6080-10		796	
HTIS-3535- 6	346	346		REF.	W	L	T	HTIS-B-3535-6	346	346		-B-6090-10		896	
-3540- 6		396		HTIS-1836- 2	18"	36"	1/4"	-B-3540-6		396					
-3545- 6		446		-2436- 2	24"			-B-3545-6		446					
-3550- 6		496		-3636- 2	36"			-B-3550-6		496					
-3560- 6		596		HTIS-1836- 4	18"	36"	1/2"	-B-3560-6		596					
HTIS-4040-10	396	396	10*	-2436- 4	24"										
-4045-10		446		-3636- 4	36"										

*♥ Other sizes available upon request - ♦ Sonderabmessungen lieferbar auf Anfrage - ♣ Andere afmetingen leverbaar op aanvraag - ♠ Autres dimensions disponibles sur demande

♥ Technical data - ♦ Technische Daten		♥ Unit - ♦ Einheit
♣ Technische gegevens - ♠ Caractéristiques		♣ Eenheid - ♠ Unité
♥ Compressive strength	24°C	341 N/mm ²
♦ Druckfestigkeit	100°C	188 N/mm ²
♣ Drukvastheid	200°C	126 N/mm ²
♠ Résistance à la compression	260°C	118 N/mm ²
♥ Compressive modules - ♦ Druckmodul	24°C	12411 N/mm ²
♣ Drukmodules - ♠ Module de compression	218°C	19995 N/mm ²
♥ Water absorption - ♦ Wasseraufnahme		0,06%
♣ Vochtabsorptievermogen - ♠ Absorption d'humidité		
♥ Specific gravity - ♦ Spezifisches Gewicht		1,96 g/cm ³
♣ Specifiek gewicht - ♠ Densité		
♥ Thermal conductivity - ♦ Wärmeleitfähigkeit	24°C	2,7 x 10 ⁻³ W/cmK
♣ Thermische geleidbaarheid - ♠ Conductibilité thermique	218°C	3,0 x 10 ⁻³ W/cmK
♥ Flame resistance classification in accordance with UL 94		
♦ Selbstlöschungsgrad gemäß UL Klassifizierung		94 V-0
♣ Vlamdovende klassifikatie in overeenkomst met UL 94		
♠ Résistance à la flamme en accord avec la norme UL 94		
♥ Maximum recommended service temperature		
♦ Temperaturgrenze bei Dauerbelastung		288°C
♣ Maximale aanbevolen werktemperatuur		
♠ Température maximale recommandée		

♥ Properties

- low thermal conductivity
- high hot compressive strength
- longer life compared to alternative materials
- special sizes upon request

♦ Eigenschaften

- geringe Wärmeleitfähigkeit
- hohe Druckfestigkeit bei hoher Temperatur
- längere Lebensdauer als herkömmliche Produkte
- Sonderformate und Dicken auf Anfrage

♣ Eigenschappen

- lage thermische geleidbaarheid
- hoge drukvastheid bij hogere temperaturen
- langere levensduur dan conventionele producten
- speciale afmetingen op aanvraag

♠ Propriétés

- faible conductibilité thermique
- haute résistance à la compression
- longue durée de vie par rapport aux autres matières - dimensions spéciales sur demande

♥ Standard plates - ♣ Standaard platen

♦ Standard Platten - ♠ Plaques standard

REF.	L	W	T
HTIS-100x200- 6	2000 ⁺³⁰ ₋₅₀ mm	1000	6
HTIS-100x200-10	2000 ⁺³⁰ ₋₅₀ mm	1000	10

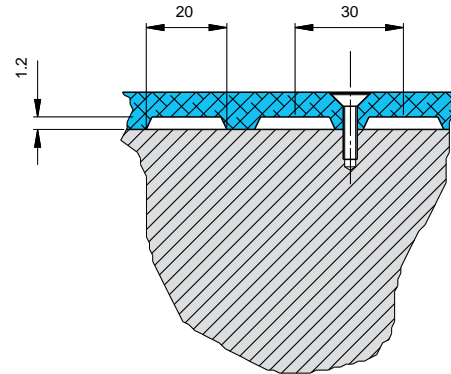
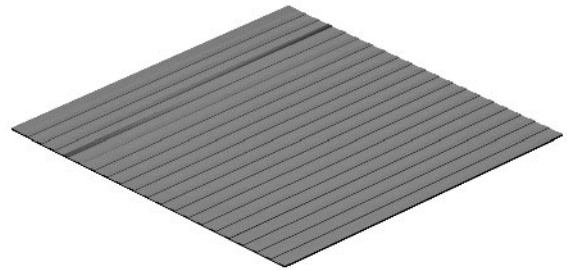
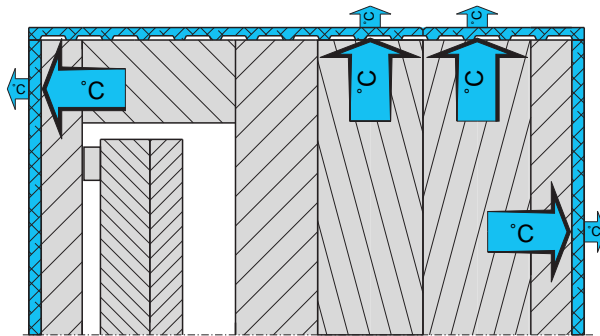
GW

♥ Corrugated thermal insulation sheet - asbestos-free

♦ Gerippte Wärmeschutzplatte - asbestfrei

♣ Geribde asbestvrije warmte-isolatieplaten

♠ Plaque isolantes à rainures - sans amiante



♥ Thermal insulation sheets, unilaterally corrugated and with double-side reflectors, serve for covering molds on press, runnerless and tempered injection molds.

Especially in the moldmaking sector an eye is kept on energy savings on a large scale.

Precious thermal energy is lost by means of heat reflection and heat convection. In order to reduce these losses the corrugated thermal insulation sheet has been developed. On installation of the insulation sheet the corrugated side should always be joined to the mold. In order to avoid the so-called 'chimney effect' the corrugation should be horizontally arrayed.

The insulation material consists of impact resistant, resin-bonded, thermosetting plastics.

♦ Wärmeschutzplatte einseitig gerippt und beidseitig mit Reflektor versehen, dient zur Werkzeugverkleidung bei Press-, Heißkanal- und temperierten Spritzgießformen. Speziell im Formenbau wird im stärkeren Maße auf Energieeinsparung geachtet. Wertvolle Wärmeenergie geht durch Wärmeabstrahlung und Konvektionswärme verloren. Um diese Verluste zu reduzieren, wurde diese gerippte Wärmeschutzplatte entwickelt. Bei der Montage sollte stets die gerippte Seite am Werkzeug angelegt werden. Der Rippenverlauf sollte horizontal angeordnet sein, damit keine Kaminwirkung entsteht. Das Isolationsmaterial besteht aus schlagfestem, harzgebundenem, duroplastischem Kunststoff.

♣ Warmte-isolatieplaten, éénzijdig geribd, en met reflectors aan beide zijden, worden gebruikt voor het afdekken van matrijzen op de spuitpers, spuitgietsystemen en verwarmde spuitmatrijzen. In de matrijzenkonstructie wordt veel aandacht besteed aan een optimale energiebesparing.

Veel kostbare warmte-energie gaat verloren door reflectie en convection. Teneinde deze verliezen te beperken werd de geribde isolatieplaat ontwikkeld.

Bij installatie van de isolatieplaten moet de geribde zijde altijd tegen de matrijs aanliggen. Teneinde het 'schoorsteeneffect' te vermijden, moeten de ribben in horizontale stand aangebracht worden.

Het isolatiemateriaal bestaat uit slagvast thermohardende kunststof op harsbasis.

♠ La plaque isolante rainurée sur une face est destinée à isoler les faces latérales des moules à canaux chauds, des moules pour thermodurcissables ou des moules nécessitant un chauffage. Dans le domaine de la construction des moules l'économie en énergie calorifique est importante.

Il importe de réduire toute dissipation par rayonnement ou convection de cette précieuse énergie thermique. Dans ce but, les plaques isolantes rainurées ont été développées. La face rainurée doit toujours être en contact avec la partie moule en veillant à ce que les rainures soient horizontales pour éviter l'effet de cheminée. La matière isolante est constituée d'un plastique thermodurcissable aggloméré à une résine et résistant aux chocs.

♥ Technical data ♦ Technische Daten ♣ Technische gegevens ♠ Caractéristiques	♥ Unit ♦ Einheit ♣ Eenheid ♠ Unité	♥ Single corrugated ♦ Einseitig gerippt ♣ Eenzijdig geribd ♠ Rainures sur une face
♥ Compressive strength ♦ Druckfestigkeit ♣ Drukvastheid ♠ Résistance à la compression	N/mm ²	50
♥ Working temperature ♦ Temperaturbeständigkeit ♣ Temperatuurbestendigheid ♠ Température de travail	° C	230
♥ Thermal conductivity ♦ Wärmeleitzahl ♣ Thermische geleidbaarheid ♠ Conductivité thermique	kcal/mh°C	0,15
♥ Moisture absorption ♦ Feuchtigkeitsaufnahme ♣ Vochtabsorptievermogen ♠ Absorption d'humidité	24h/%	0,8
♥ Specific weight ♦ Spezifisches Gewicht ♣ Specifiek gewicht ♠ Densité	g/cm ³	1,65
♥ Coefficient of linear expansion ♦ Lineare Wärmeausdehnung ♣ Lineaire uitzettingscoëfficiënt ♠ Coefficient dilatation linéaire	10 ⁻⁵ /°C	0,8-1,0
♥ Standard gauges ♦ Lieferbare Stärke ♣ Standaard dikte ♠ Epaisseur standard	mm	6
♥ Deviation from nominal gauges ♦ Abweichung von der Nennstärke ♣ Afwijking van nominale dikten ♠ Tolérances sur épaisseur standard	%	± 5
♥ Parallelity ground ♦ Planparallelität geschliffen ♣ Geslepen paralleliteit ♠ Parallélisme	mm/m	± 0,1

REF.	L	W	T
GW-1200/NE	1200 mm	1200 mm	6 mm
GW- 600/NE	≈ 1200 mm	≈ 600 mm	6 mm

SHM

♥ Hoist rings

♦ Sicherheitsringschrauben

♣ Veiligheidshijsringen

♠ Anneaux de levage articulés

♥ Features

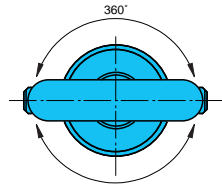
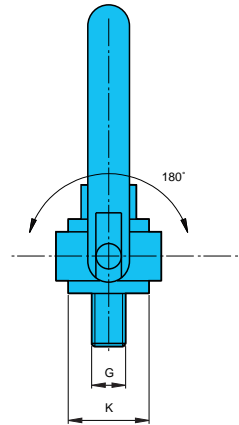
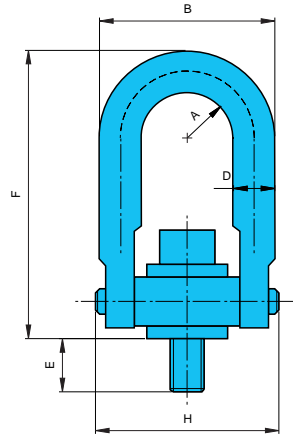
- Safer and stronger than conventional eyebolts.
 - Pivots and swivels to compensate for pitch, roll and sway when lifting heavy or unbalanced loads.
 - Will not yield to heavy side loads.
 - 10 sizes to handle loads up to 13,500 kg (M 48 x 5).
- Material**
- High strength alloy steel with minimum tensile strength of 1,250 MPa (125 kg/mm²).
 - Certified heat treatment with 100 % Magnaflux inspection. - Corrosion resistant plating.
 - Maximum operating temperature 200 °C.
 - Safety factor is 5 times the rated load in any direction.

♦ Merkmale

- Sicherer und stärker als konventionelle Ringschrauben. - Gleichmäßiges anheben von schweren oder einseitigen Lasten durch Drehgelenke und Abstandsausgleichung.
 - Keine Abweichung nach der schweren Lastseite.
 - Lieferbar in 10 Größen für ein zulässiges Gewicht bis 13.500 Kg (M 48 x 5).
- Material**
- Legierter Spezialstahl mit min. Streckgrenze von 1.250 MPa (125 Kg/mm²) - Beglaubigte Wärmebehandlung mit 100 % Magnaflux- Kontrolle.
 - Korrosionsbeständiger Oberflächenschutz.
 - Alle Materialangaben gelten bis zu einer Temp. bis max. 200 °C.
 - Alle Heberinge sind in allen Richtungen mit 5-facher Sicherheit ausgelegt.

♣ Kenmerken

- Veiliger en steviger dan conventionele oogbouten.
 - 180° draaibeweging om de horizontale as en 360° wentelen om de vertikale as vangen het slingeren op bij het hijsen van zware onbalans lasten.
 - Weerstaat aan zware zijdelingse belasting.
 - Leverbaar in 10 afmetingen voor hijsen van lasten tot 13.500 kg (M 48 x 5).
- Material**
- Gelegeerd staal met een minimum trekvastheid van 1.250 MPa (125 kg/mm²).
 - Gewaarborgde warmtebehandeling met 100 % Magnaflux inspectie.
 - Hoge corrosieweerstand door oppervlaktebehandeling. - Max. werkingstemperatuur 200 °C.
 - Alle hijsringen zijn ontworpen met een zekerheidsfactor van 5:1 in alle richtingen.



♠ Caractéristiques

- Plus sûr et plus solide par rapport aux anneaux de levage conventionnels.
 - Ils pivotent et tournent pour amortir le balancement des charges lourdes ou déséquilibrées.
 - Résistent aux charges latérales.
 - 10 dimensions pour manutentionner des poids jusqu'à 13.500 kg (M 48 x 5).
- Matière**
- Acier allié avec une résistance de 1.250 MPa (125 kg/mm²). - Une trempe garantie par une inspection Magnaflux de 100 %. - Résiste à la corrosion grâce à un traitement de surface. - Température de fonctionnement 200 °C.
 - Coefficient de sécurité 5:1 quelle que soit l'orientation de la charge

REF.	A	B	D	E	F	G	H	K	TL (Kgm)	P (Kg)	W (Kg)
SHM 0001	10,9	41,2	9,7	12,5	67,8	M 8x1,25	46,7	19,0	0,86	400	0,17
0002	10,9	41,2	9,7	17,5	67,8	M10x1,50	46,7	19,0	1,5	500	0,17
0003	22,4	82,8	19,0	19,0	121,4	M12x1,75	89,4	38,1	3,7	1050	1,08
0004	22,4	82,8	19,0	29,0	121,4	M16x2,00	89,4	38,1	8,4	1900	1,12
0005	22,4	82,8	19,0	34,0	121,4	M20x2,50	89,4	38,1	14,0	2150	1,19
0006	35,6	122,0	25,4	37,0	165,6	M24x3,00	130,6	58,7	30,0	4200	3,10
0007	44,5	152,4	31,7	41,9	221,7	M30x3,50	165,1	81,0	60,0	7000	6,30
0009	57,2	203,2	44,4	63,5	316,7	M36x4,00	217,2	106,4	100,0	11000	15,50
0010	57,2	203,2	44,4	82,4	316,7	M42x4,50	217,2	106,4	100,0	12500	16,00
0011	57,2	203,2	44,4	82,4	316,7	M48x5,00	217,2	106,4	100,0	13500	16,80

♥ Note

- Standard tolerance $\pm 0,8$ mm.
- E = the use of spacers between bushing flange and mounting surface is not recommended as this will reduce the safety load rating.
- TL = recommended torque load + 25 % - 0.
- P = rated
- W = weight

♥ Bemerkungen

- Allgemeine Toleranzen $\pm 0,8$ mm.
- E = zwischen Flansch und Montageoberfläche keine Distanzscheibe einlegen: dadurch wird die Sicherheit der Hebeleistung reduziert.
- TL = empfohlene Drehmomentbelastung.
- P = Nennlast.
- W = Gewicht.

♥ Opmerkingen

- Standaard toleranties $\pm 0,8$ mm.
- E = het gebruik van een opvulschijf tussen hijsring en oppervlak is af te raden, daar dit de veiligheidsindex zou verminderen.
- TL = aanbevolen aandraaikoppel voor de bout + 25 % - 0.
- P = maximum belasting
- W = gewicht.

♥ Note

- Tolérance standard $\pm 0,8$ mm.
- E = L'emploi d'une rondelle de réglage entre l'anneau et la surface d'appui est à déconseiller. Elle réduirait le coefficient de sécurité.
- TL = couple de serrage + 25 % - 0.
- P = charge maximum.
- W = Poids en kg.

SHMR

♥ Repair-Kits for Hoist rings

♦ Ersatzteile für Sicherheitsringschrauben

♣ Wisselstukken voor Veiligheidshijsringen

♠ Pièces de rechange pour Anneaux de levage articulés



♥ Includes screw and retainer ring

♦ Inklusive Bolzen und Sicherungsscheibe

♣ Inclusief bout en borgring

♠ Contient vis et circlip

REF.	For/Für/Voor/Pour	
SHMR0001	SHM0001	M 8 x 1.25-30
0002	0002	M 10 x 1.50-35
0003	0003	M 12 x 1.75-50
0004	0004	M 16 x 2.00-60
0005	0005	M 20 x 2.50-65
0006	0006	M 24 x 3.00-80
0007	0007	M 30 x 3.50-95
0009	0009	M 36 x 4.00-100
0010	0010	M 42 x 4.50-120
0011	0011	M 48 x 5.00-130

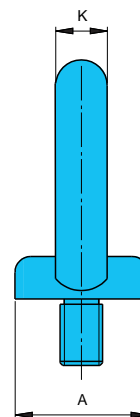
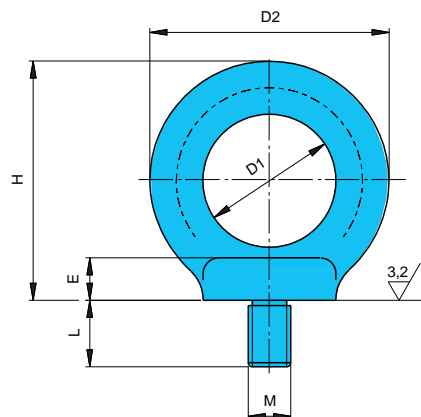
RM

♥ Eyebolts

♦ Ringschrauben

♣ Oogbouten

♠ Anneaux de levage



Mat. SM DIN 580

REF.	A	D1	D2	L	H	P (Kg)	K	E	M
RM 10	25	25	45	17	45	230	10	8	M10x1,50
12	30	30	54	20,5	53	340	12	10	M12x1,75
14	35	35	63	27	62	490	14	12	M14x2,00
16	35	35	63	27	62	700	14	12	M16x2,00
18	40	40	72	30	71	900	16	14	M18x2,50
20	40	40	72	30	71	1200	16	14	M20x2,50
22	45	45	92	34	90	1500	18	18	M22x2,50
24	50	50	90	36	90	1800	20	18	M24x3,00
27	50	50	90	36	90	1800	20	18	M27x3,00
30	65	60	108	45	109	3600	24	22	M30x3,50

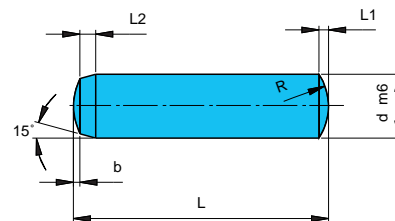
DP

♥ Dowel pins

♦ Zylinderstifte

♣ Stelpennen

♠ Goupilles cylindriques



DIN 6325 ±60 HRC

REF.d L	d	L2	L1	b	R	REF.d L	d	L2	L1	b	R
DP 3- 10	3	0,8	0,45	0,3	3	DP 10- 24	10	2	1,5	1	10
- 12						- 32					
- 16						- 40					
- 20						- 50					
- 28						- 60					
DP 4- 12	4	1	0,6	0,4	4	- 80	12	2,5	1,8	1,3	12
- 16						DP 12- 32					
- 20						- 40					
- 24						- 50					
- 32						- 60					
DP 5- 12	5	1,2	0,75	0,5	5	- 80	14	2,5	2	1,3	14
- 16						- 90					
- 20						DP 14- 40					
- 24						- 50					
- 28						- 70					
DP 6- 16	6	1,5	0,9	0,6	6	- 90	16	3	2,5	1,7	16
- 32						- 100					
- 36						DP 16- 50					
- 40						- 80					
- 45						- 100					
DP 8- 20	8	1,8	1,2	0,8	8	- 120	20	4	3	2	20
- 32						- 140					
- 36						DP 20- 60					
- 40						- 80					
- 50						- 100					
- 60						- 160					

♥ Mold components

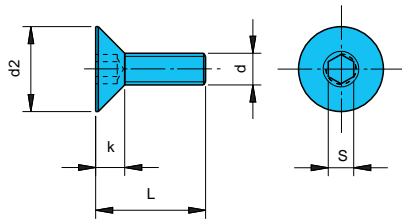
◆ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

SM

- ♥ Socket head countersunk screws
- ◆ Senkkopfschrauben
- ♣ Binnenzeskant-schroeven
- ♠ Vis creuses

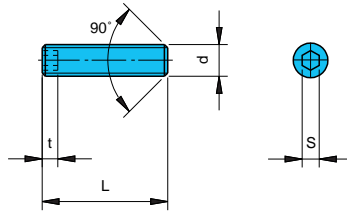


DIN 7991-8.8

REF.	L	k	S	d2	d
SM 4 x 10		2,3	2,5	8	M 4
x 12					
x 16					
x 20					
x 25					
SM 5 x 10		2,8	3	10	M 5
x 12					
x 16					
x 20					
x 25					
x 30					
SM 6 x 12		3,3	4	12	M 6
x 16					
x 20					
x 25					
x 30					
x 35					
x 40					
SM 8 x 16		4,4	5	16	M 8
x 20					
x 25					
x 30					
x 35					
x 40					
x 45					
x 50					
SM 10 x 20		5,5	6	20	M 10
x 25					
x 30					
x 35					
x 40					
x 45					
x 50					

GS

- ♥ Grub screws
- ◆ Gewindestifte
- ♣ Stelschroeven
- ♠ Vis de réglage

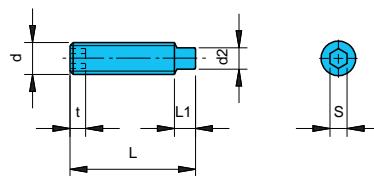


DIN 913-45 H

REF.	L	t	S	d
GS 5 x 8		3	2,5	M 5
x 12				
x 16				
x 20				
x 25				
GS 6 x 10		3,5	3	M 6
x 16				
x 20				
x 25				
x 30				
GS 8 x 16		5	4	M 8
x 20				
x 25				
x 30				
GS 10 x 20		6	5	M 10
x 25				
x 30				
x 40				
GS 12 x 25		8	6	M 12
x 30				
x 40				
x 50				

GZ

- ♥ Set screws allen head
- ◆ Gewindestifte mit Zapfen
- ♣ Stelschroeven
- ♠ Vis de réglage

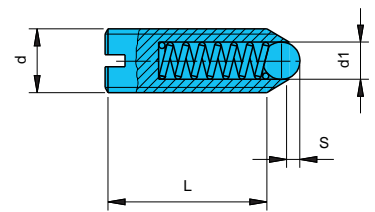


DIN 915-45 H

REF.	L	d	d2	L1	S	t
GZ 6 x 10		M 6	4	3,5	3	3,5
x 16						
x 25						
GZ 8 x 20		M 8	5,5	5	4	5
x 25						
x 30						
GZ 10 x 20		M 10	7	5,5	5	6
x 30						
x 40						
GZ 12 x 25		M 12	8,5	7	6	8
x 35						
x 50						
GZ 16 x 30		M 16	12	9	8	10
x 40						
x 60						

FD/FDV

- ♥ Spring loaded set screws
- ◆ Federnde Druckstücke
- ♣ Verende drukstiften
- ♠ Butées à ressort



FD=100°C Mat. 1.0716

REF.	L	d1	S	N1	N2	d
FD 6 x 14		3,5	1	9	15	M 6
FD 8 x 16		5	1,5	18	30	M 8
FD 10 x 19		6	2	20	40	M 10
FD 12 x 22		8	2,5	30	55	M 12
FD 16 x 24		10	3,5	65	120	M 16

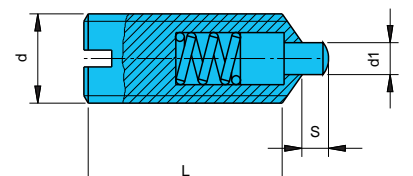
FDV

FDV=350°C Mat. 1.4305

REF.	L	d1	S	N1	N2	d
FDV 6 x 14		3,5	1	9	15	M 6
FDV 8 x 16		5	1,5	18	30	M 8
FDV 10 x 19		6	2	20	40	M 10
FDV 12 x 22		8	2,5	30	55	M 12
FDV 16 x 24		10	3,5	65	120	M 16

FM

- ♥ Spring loaded set screws (plunger)
- ◆ Federnde Druckstücke
- ♣ Verende drukstiften
- ♠ Butées à ressort



Mat. 1.0716

REF.	L	d1	S	N1	N2	d
FM 10 x 19		4,5	2,5	20	45	M 10
FM 16 x 25		8,5	4,5	50	95	M 16

- *N1 = ♥ Starting load
- ◆ Anfangskraft
- ♣ Beginkracht
- ♠ Force initiale
- *N2 = ♥ Final load
- ◆ Endkraft
- ♣ Eindkracht
- ♠ Force finale

♥ Mold components

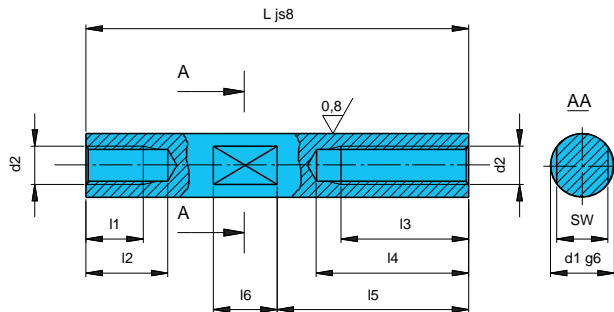
♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

AWS

- ♥ Knock out rods
- ♦ Auswerferstangen
- ♣ Uitstootstangen
- ♠ Barres d'éjection

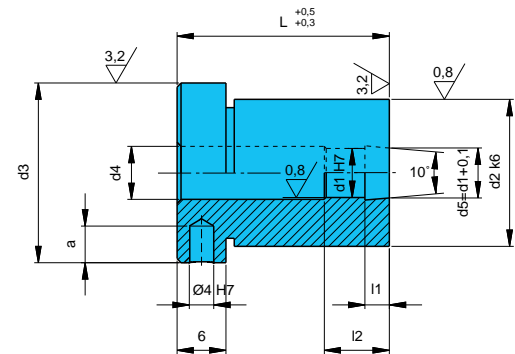
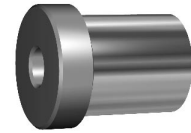


Mat. 1.7131 ≈ 58 HRC

REF.	d1	L	d1	d2	L	I1	I2	I3	I4	I5	I6	SW
AWS 10- 60 N	10	M 6	60	9	14	20	25	30	10	8		
- 70 N			70									
- 80 N			80									
- 100 N			100									
- 140 N			140									
AWS 14- 60 N	14	M 8	60	12	15	20	25	32	12	10		
- 80 N			80									
- 100 N			100									
- 120 N			120									
- 140 N			140									
- 180 N			180									
AWS 16- 60 N	16	M 10	60	15	17	30	37	35	15	12		
- 70 N			70									
- 80 N			80									
- 100 N			100									
- 120 N			120									
- 140 N			140									
- 200 N			200									
AWS 18- 100 N	18	M 10	100	15	17	30	37	35	15	14		
- 120 N			120									
- 140 N			140									
- 160 N			160									
- 180 N			180									
- 200 N			200									
AWS 20- 120 N	20	M 12	120	18	26	40	48	50	15	14		
- 140 N			140									
- 160 N			160									
- 180 N			180									
- 200 N			200									
- 240 N			240									
AWS 24- 140 N	24	M 12	140	18	26	40	48	50	15	17		
- 160 N			160									
- 180 N			180									
- 200 N			200									
- 240 N			240									
- 260 N			260									
AWS 34- 160 N	34	M 16	160	20	29	40	49	60	20	24		
- 200 N			200									
- 240 N			240									
- 260 N			260									
- 300 N			300									

AZ

- ♥ Sprue puller bushings
- ♦ Angußhaltebuchsen
- ♣ Aanspuittrekbussen
- ♠ Guides d'arrache-carotte

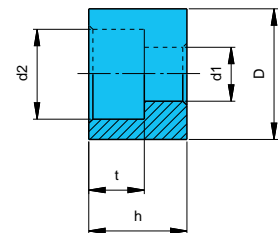


Mat. 1.2162 ≈ 58 HRC

REF.	I2	L	a	d1	d2	d3	d4	L	I1	I2
AZ 1220	4	4	12	16	4,5	20	4	12		
1226						26				
1236						36				
1246						46				
AZ 1826	6	6	18	22	6,5	26	6	18		
1836						36				
1846						46				
1856						56				
1876						76				

AWH

- ♥ Protective caps for knock out rods
- ♦ Haltescheiben für Auswerferstangen
- ♣ Beschermddoppen voor uitstootstangen
- ♠ Embouts de protection pour barres d'éjection

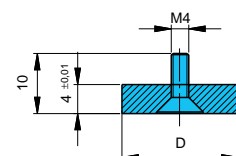
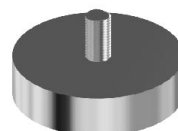


Mat. 1.7131

REF.	D	D	d1	d2	h	t
AWH 16	16	6,6	11	12	6,8	
30	30	11,0	18	16	11	
35	35	13,5	20	20	13	
45	45	13,5	20	20	15	
55	55	17,5	26	30	17,5	

SB

- ♥ Spacer washers for ejector plates
- ♦ Distanzscheiben für Auswerferplatten
- ♣ Afstandsringen voor uitwerpplatten
- ♠ Rondelles d'épaisseur pour plaques d'éjection



Mat. 1.2312

REF.	D
SB 2	16
SB 3	26

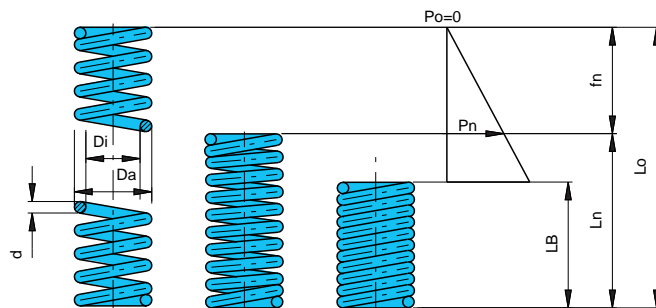
DF

♥ Compression springs

♦ Druckfedern

♣ Drukveren

♠ Ressorts



Mat. 1.1200 (DIN 17223) (DIN 2095/2)

REF.		Ln	LB	fn	Pn	d	Di	Da	Lo	REF.		Ln	LB	fn	Pn	d	Di	Da	Lo
DF 9	x 30	10,4	9,0	19,6	17	0,8	7,4	9,0	30	DF 28	x 80	50,0	46,0	30,0	618	4	20	28	80
DF 10	x 40	21,5	18,7	18,5	144	1,5	7,0	10,0	40		x 100	62,0	55,0	38,0	638				100
DF 12	x 55	25,4	21,5	29,6	108	1,5	9,0	12,0	55	DF 30	x 70	36,0	32,0	34,0	804		22	30	70
DF 14	x 40	22,4	17,5	17,6	206	2,0	10,0	14,0	40	DF 32	x 80	63,6	60,0	16,4	1452	6	20	32	80
	x 50	25,0	22,5	25,0	245				50		x 100	82,0	75,0	18,0	1334				100
DF 15	x 40	20,0	17,0	20,0	216	2,0	11,0	15,0	40		x 130	96,3	90,0	33,7	1884				130
	x 50	24,3	21,3	25,7	215				50		x 160	116,0	109,0	44,0	2011				160
	x 55	21,6	18,0	33,4	77	1,5	12,0		55		x 200	151,0	141,5	49,0	1697				200
	x 60	30,8	27,0	29,2	202	2,0	11,0		60		x 240	180,0	167,0	60,0	1766				240
	x 70	35,6	31,2	34,4	197				70	DF 34	x 110	81,6	72,6	28,4	1680		22	34	110
	x 80	40,0	35,0	40,0	200				80		x 130	94,3	84,6	33,7	1800				130
	x 90	44,0	38,5	46,0	196				90		x 150	105,6	94,6	44,4	1880				150
DF 17	x 85	41,0	32,5	44,0	255	2,25	12,5	17,0	85		x 180	122,6	114,6	51,4	1820				180
DF 17,5	x 45	31,0	28,5	14,0	481	3,0	11,5	17,5	45		x 200	139,0	124,3	61,0	1830				200
	x 50	34,0	31,7	16,0	471				50		x 220	154,6	138,6	65,4	1840				220
DF 18	x 83	65,0	58,0	18,0	1324	4,0	10,0	18,0	83		x 240	167,6	150,6	72,4	1810				240
DF 19	x 35	27,0	25,0	8,0	1334		11,0	19,0	35	DF 38	x 160	120,0	111,0	40,0	981		26	38	160
	x 90	72,5	66,5	17,5	1687	4,5	10,0		90		x 200	145,0	135,5	55,0	1079				200
DF 19,5	x 40	26,0	23,5	14,0	441	3,0	13,0	19,5	40		x 240	170,0	155,0	70,0	1197				240
DF 20,5	x 95	46,2	36,5	48,8	196	2,5	15,5	20,5	95		x 280	190,0	173,0	90,0	1373				280
DF 21	x 40	27,8	25,5	22,2	451	3,0	15,0	21,0	40	DF 40	x 110	83,0	74,5	27,0	2050				110
DF 21,5	x 45	23,3	20,7	21,7	549		15,5	21,5	45		x 130	96,0	87,0	34,0	2250				130
	x 50	34,4	31,5	15,6	1138	4,0	13,5		50		x 150	109,0	99,0	41,0	2310				150
DF 22	x 50	27,8	25,2	22,2	451	3,0	16,0	22,0	50		x 180	129,0	116,5	51,0	2200				180
	x 70	41,1	37,5	28,9	373				70		x 200	142,0	129,0	58,0	2210				200
	x 100	55,0	47,5	45,0	441				100		x 220	156,0	141,0	64,0	2270				220
DF 25	x 24	16,8	14,5	7,2	942	4,0	17,0	25,0	24		x 240	168,0	151,5	72,0	2250				240
DF 26	x 40	25,0	22,6	15,0	908		18,0	26,0	40	DF 42	x 200	137,7	124,0	62,3	3826	8		42	200
	x 50	29,0	26,0	21,0	1010				50	DF 46	x 67	58,0	53,0	9,0	5641	10		46	67
	x 60	34,4	31,0	25,6	1050				60	DF 52	x 130	90,0	81,2	40,0	2120	8	36	52	130
	x 70	40,5	36,5	29,5	1000				70		x 180	124,0	111,2	56,0	2340				180
	x 80	43,0	39,0	37,0	1010				80		x 220	151,0	135,2	69,0	2300				220
	x 90	49,0	44,5	41,0	1010				90		x 240	163,0	145,2	77,0	2375				240
	x 100	36,4	50,2	43,6	900				100		x 280	190,0	169,2	90,0	2310				280
	x 120	65,5	58,7	54,5	920				120	DF 53	x 200	157,0	145,0	43,0	6622	11	31	53	200
	x 140	74,5	66,7	65,5	1000				140	DF 56	x 50	36,0	33,0	14,0	2080	8	40	56	50
	x 160	85,7	76,7	74,3	1030				160	DF 61	x 180	137,0	122,0	43,0	5101	11	39	61	180
DF 27,8	x 70	59,0	56,0	11,0	3679	7,0	13,8	27,8	70										

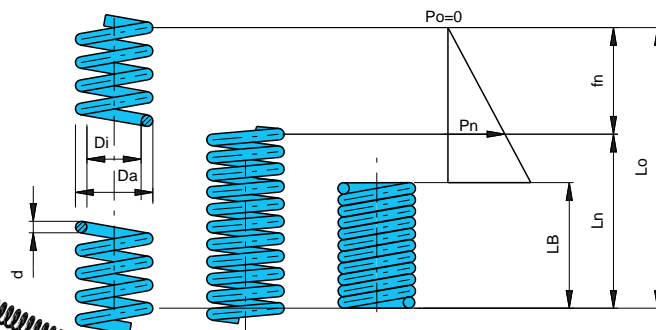
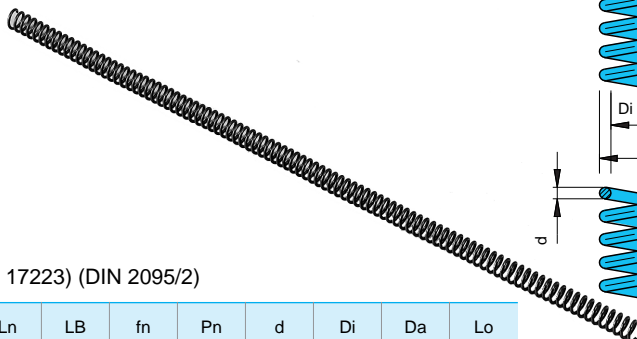
DFL

♥ Compression springs

♦ Druckfedern

♣ Drukveren

♠ Ressorts



Mat. 1.1200 (DIN 17223) (DIN 2095/2)

REF.		Ln	LB	fn	Pn	d	Di	Da	Lo
DFL 15	x 500	198	172	302	250	2	11	15	500
DFL 24,5	x 500	226	195	274	520	3,25	18	24,5	500
DFL 32	x 500	288	255	212	1250	5	22	32	500
DFL 38	x 500	346	306	154	1300	6	26	38	500
DFL 50	x 500	320	280	180	1700	7	36	50	500

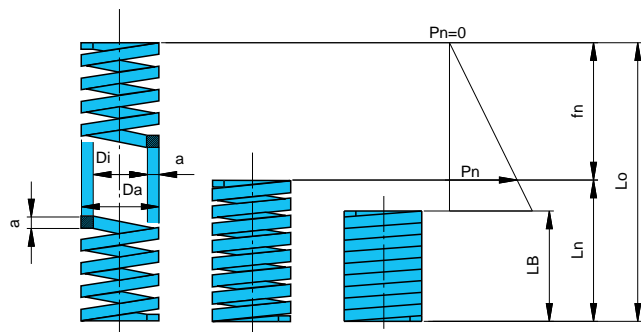
DFQ

♥ Compression springs

♦ Druckfedern

♣ Drukveren

♠ Ressorts



Mat. 1.1200 (DIN 17223) (DIN 2095/2)

REF.		Ln	LB	fn	Newton	a x a	Di	Da	Lo
DFQ 10	x 20	12,6	11,5	7,4	167	1,5 x 1,5	7,0	10,0	20
DFQ 11,5	x 20	14,2	13,5	5,8	284	2,0 x 2,0	7,5	11,5	20
DFQ 12	x 50	23,2	22,0	26,8	128	1,5 x 1,5	9,0	12,0	50
DFQ 14	x 50	37,5	33,0	12,5	412	2,5 x 2,5	9,0	14,0	50
DFQ 14,5	x 32	21,6	19,8	10,4	510	2,5 x 2,5	9,5	14,5	32
DFQ 19	x 50	39,4	36,5	10,6	1717	4,0 x 4,0	11,0	19,0	50
DFQ 19,5	x 45	35,2	32,5	9,8	1570	4,0 x 4,0	11,5	19,5	45
DFQ 21	x 45	34,0	32,0	11,0	1275	4,0 x 4,0	13,0	21,0	45
DFQ 23	x 83	58,4	55,0	24,6	1099	4,0 x 4,0	15,0	23,0	83
DFQ 28	x 98	83,5	81,0	14,5	5297	7,0 x 7,0	14,0	28,0	98
DFQ 36	x 50	31,0	29,0	19,0	1334	5,0 x 5,0	26,0	36,0	50
DFQ 42	x 72	55,5	53,0	16,5	4611	8,0 x 8,0	26,0	42,0	72

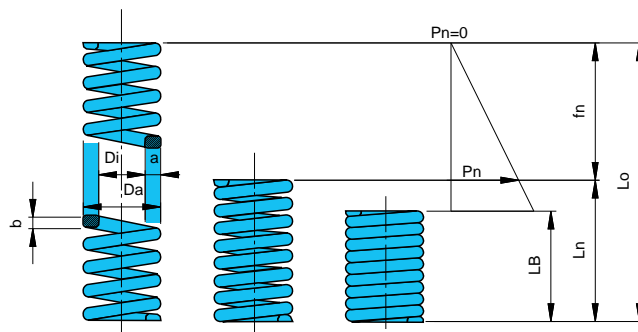
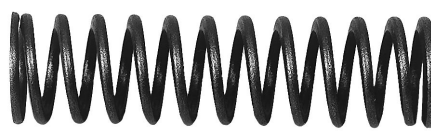
DFR

♥ Compression springs

♦ Druckfedern

♣ Drukveren

♠ Ressorts



Mat. 1.1200 (DIN 17223) (DIN 2095/2)

REF.		Ln	LB	fn	Newton	a x b	Di	Da	Lo
DFR 11	x 20	10	9,5	10	196	2 x 1,25	7	11	20
DFR 12,5	x 20	13	12	7	265	2,5 x 1,50	7,5	12,5	20
DFR 13	x 50	20	18	30	147	2 x 1,25	9	13	50
DFR 17	x 50	32	30	18	687	4 x 2	9	17	50
DFR 17,5	x 30	18	17	12	687	4 x 2	9,5	17,5	30
DFR 25	x 54	35	32	19	1177	6 x 3	13	25	54
DFR 25	x 77	50	44	27	1177	6 x 3	13	25	77
DFR 32	x 69	45	43	24	2453	7,5 x 4	17	32	69
DFR 38	x 67	45	44	22	2943	8,5 x 5	21	38	67
DFR 38	x 102	68	64	34	2943	8,5 x 5	21	38	102
DFR 50	x 91	72	59	19	3434	11 x 6	28	50	90

◆ Formenzubehör

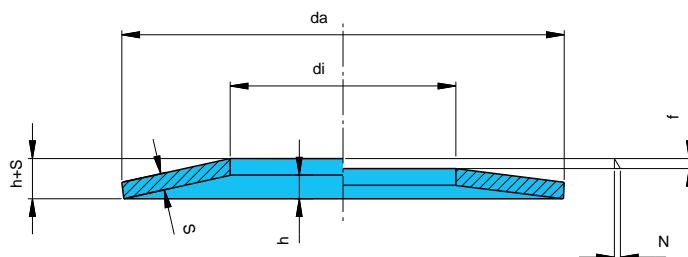
Composants de moules ♠

TF

◆ Tellerfedern

♠ **Rondelles Be**

♠ **Rondelles Belleville**



◆ Hub

♣koers

♠ COURSE

Mat. 50 Cr V₄ ± DIN 2093 Max. 300°

REF.	da	di	S	h+S	h	f = 0,25 h		f = 0,5 h		f = 0,75 h	
						f	N	f	N	f	N
TF 8 x 3,2 x 0,4	8,0	3,2	0,40	0,60	0,20	0,050	69	0,100	130	0,150	185
TF 8 x 4,2 x 0,4	8,0	4,2	0,40	0,60	0,20	0,050	78	0,100	147	0,150	210
TF 10 x 5,2 x 0,4	10,0	5,2	0,40	0,75	0,35	0,075	88	0,150	155	0,225	210
TF 10 x 5,2 x 0,5	10,0	5,2	0,50	0,75	0,25	0,063	122	0,125	228	0,188	326
TF 12 x 5,2 x 0,5	12,0	5,2	0,50	0,90	0,40	0,100	150	0,200	262	0,300	349
TF 12 x 5,2 x 0,6	12,0	5,2	0,60	0,95	0,35	0,088	199	0,175	362	0,263	507
TF 12,5 x 6,2 x 0,7	12,5	6,2	0,70	1,00	0,30	0,075	239	0,150	457	0,225	659
TF 14 x 7,2 x 0,8	14,0	7,2	0,80	1,10	0,30	0,075	283	0,150	547	0,225	796
TF 15 x 6,2 x 0,6	15,0	6,2	0,60	1,05	0,45	0,113	178	0,225	315	0,338	425
TF 15 x 5,2 x 0,7	15,0	5,2	0,70	1,25	0,55	0,138	340	0,275	596	0,413	796
TF 16 x 8,2 x 0,6	16,0	8,2	0,60	1,05	0,45	0,113	173	0,225	304	0,388	410
TF 16 x 8,2 x 0,9	16,0	8,2	0,90	1,25	0,35	0,083	363	0,175	697	0,262	1010
TF 18 x 9,2 x 0,7	18,0	9,2	0,70	1,30	0,50	0,125	237	0,250	422	0,375	573
TF 18 x 9,2 x 1,0	18,0	9,2	1,00	1,40	0,40	0,100	451	0,200	805	0,300	1256
TF 20 x 10,2 x 0,8	20,0	10,2	0,80	1,35	0,55	0,138	304	0,275	546	0,413	748
TF 20 x 10,2 x 1,1	20,0	10,2	1,10	1,55	0,45	0,112	701	0,225	1061	0,337	1536
TF 22,5 x 11,2 x 0,8	22,5	11,2	0,80	1,45	0,65	0,162	310	0,325	540	0,487	716
TF 22,5 x 11,2 x 1,25	22,5	11,2	1,25	1,75	0,50	0,125	701	0,250	1344	0,375	1942
TF 25 x 12,2 x 0,9	25,0	12,2	0,90	1,60	0,70	0,175	371	0,350	650	0,525	896
TF 28 x 14,2 x 1,0	28,0	14,2	1,00	1,80	0,80	0,200	480	0,400	838	0,600	1118
TF 28 x 14,2 x 1,5	28,0	14,2	1,50	2,15	0,65	0,162	1045	0,325	2001	0,487	2874
TF 31,5 x 16,3 x 1,25	31,5	16,3	1,25	2,15	0,90	0,225	801	0,450	1432	0,675	1932
TF 31,5 x 16,3 x 1,75	31,5	16,3	1,75	2,45	0,70	0,175	1412	0,350	2707	0,525	3924
TF 35,5 x 18,3 x 1,25	35,5	18,3	1,25	2,25	1,00	0,250	741	0,500	1295	0,750	1716
TF 40 x 20,4 x 1,5	40,0	20,4	1,50	2,65	1,15	0,287	1118	0,575	1982	0,862	2648
TF 40 x 20,4 x 2,25	40,0	20,4	2,25	3,15	0,90	0,225	2345	0,450	4522	0,675	6553
TF 45 x 22,4 x 1,75	45,0	22,4	1,75	3,05	1,30	0,325	1540	0,650	2727	0,975	3678
TF 45 x 22,4 x 2,5	45,0	22,4	2,50	3,50	1,00	0,250	2795	0,500	5376	0,750	7798
TF 50 x 25,4 x 2,0	50,0	25,4	2,00	3,40	1,40	0,350	1972	0,700	3532	1,050	4807
TF 50 x 25,4 x 3,0	50,0	25,4	3,00	4,10	1,10	0,275	4296	0,550	8309	0,825	12105
TF 56 x 28,5 x 2,0	56,0	28,5	2,00	3,60	1,60	0,400	1932	0,800	3374	1,200	4512
TF 56 x 28,5 x 3,0	56,0	28,5	3,00	4,30	1,30	0,325	4189	0,650	7995	0,975	11

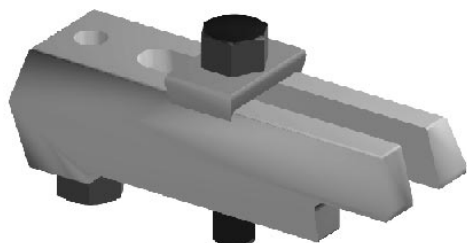
MCA

♥ Mold clamps

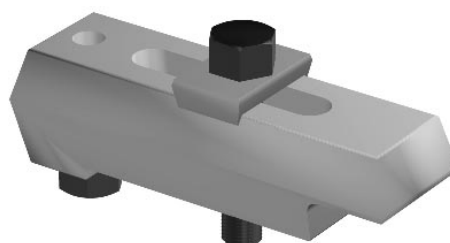
♦ Spanneisen

♣ Spanklemmen

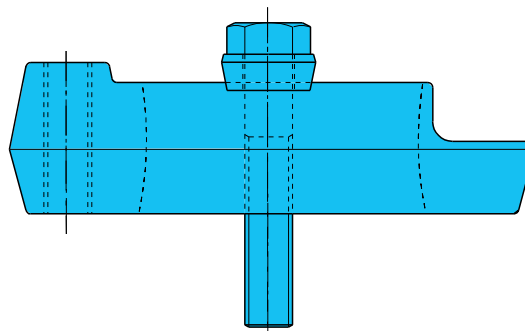
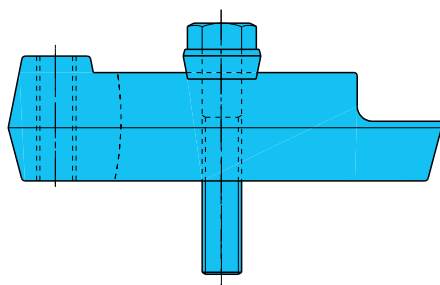
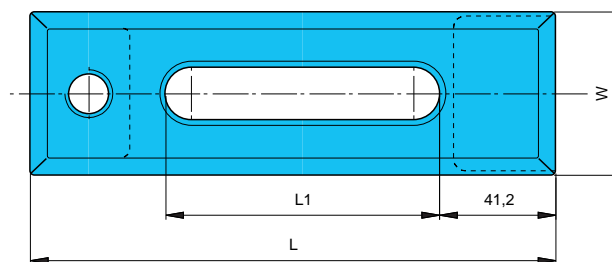
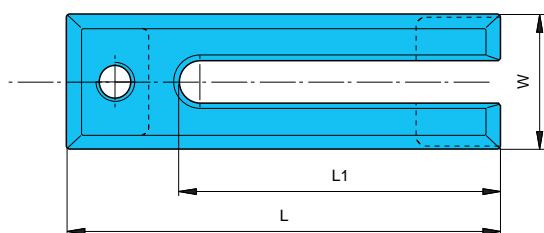
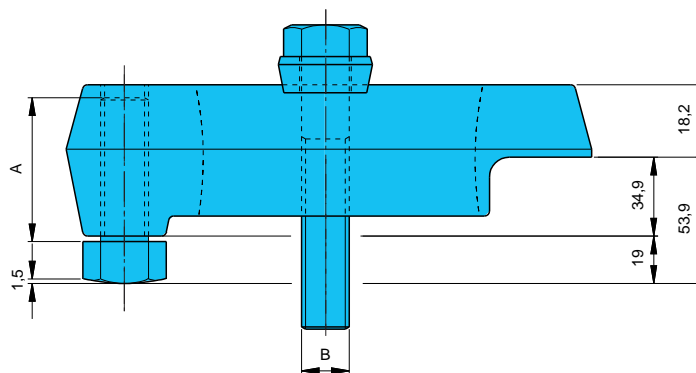
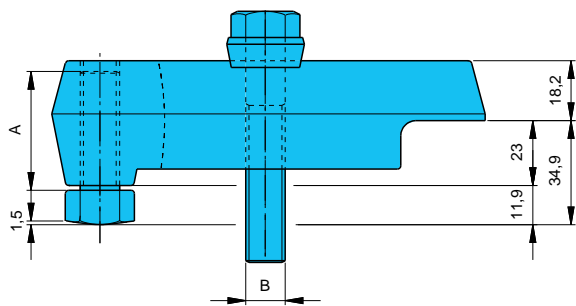
♠ Brides de serrage



MCA 4-4 → MCA 6-7



MCA 8-95



REF.	B (DIN 933)	A	L	L1	W
MCA 4-4	HEX M 12 x 80	38	106	72	41
MCA 5-5	HEX M 16 x100		132	86	48
MCA 5-7			178	127	
MCA 6-5			132	86	51
MCA 6-7			178	127	
MCA 8-95	HEX M 24 x120	50	241	135	67

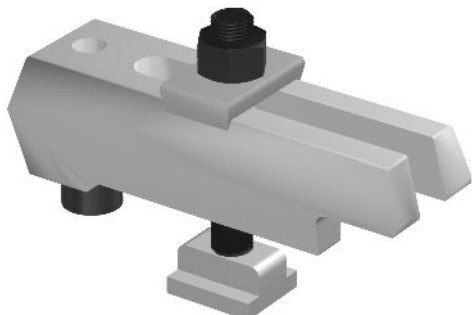
DMCA

♥ Mold clamps for diecasting

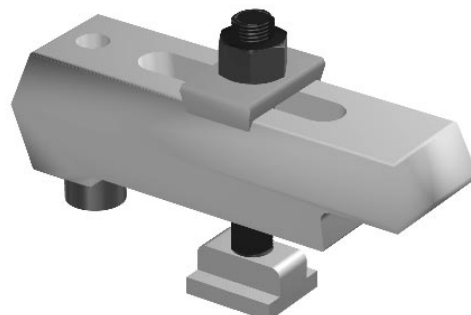
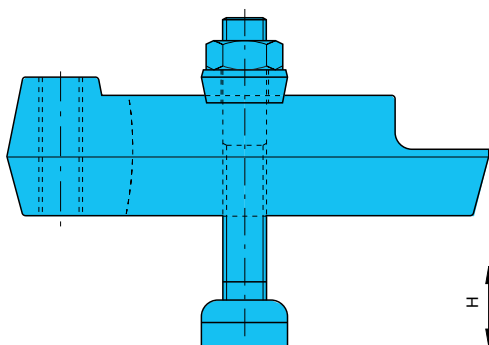
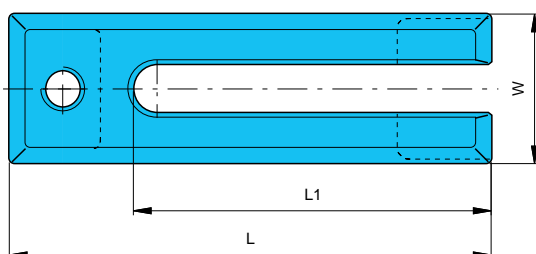
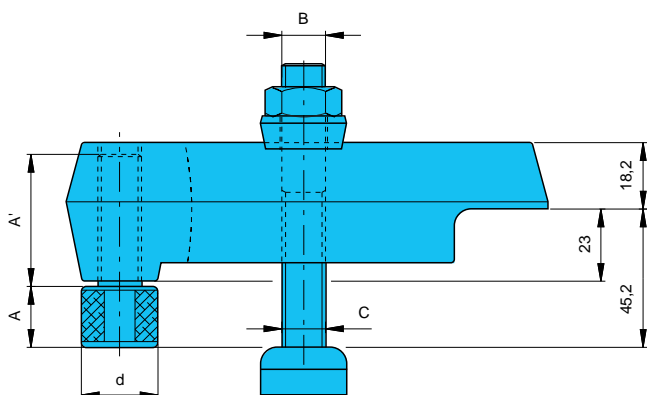
◆ Spanneisen für Druckguß

♣ Spanklemmen voor drukgieten

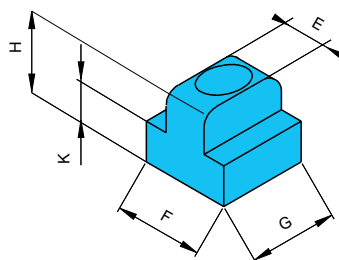
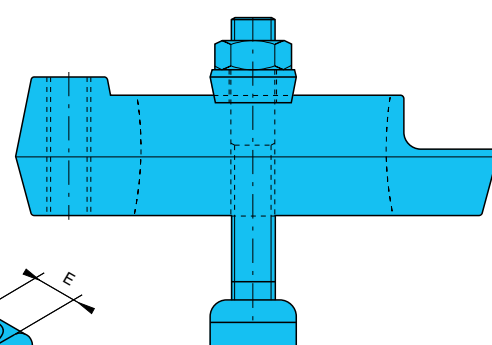
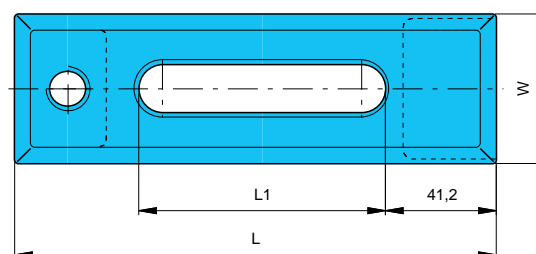
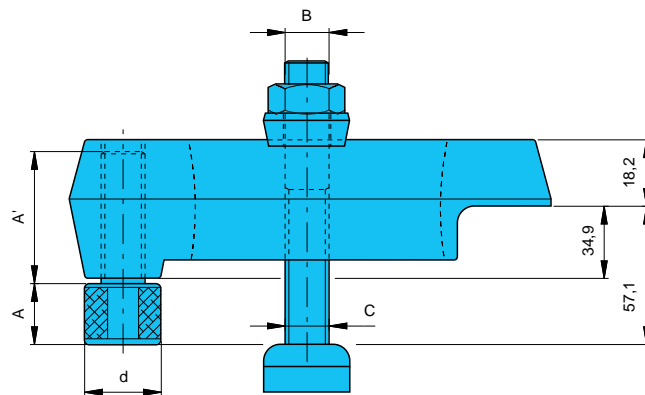
♠ Brides de serrage pour la coulée sous pression



DMCA-5-5 → DMCA-6-7



DMCA-8-95



REF.	A	A'	B	C	d	L	L1	W	E	F	G	H	K
DMCA-5-5	15,8	39	5/8-11 x 4 1/2	15,9	35	132	86	48	15,9	28,6	33,0	16,2	6,4
DMCA-5-7						178	127		15,9	28,6	33,0	16,2	6,4
DMCA-6-5	19,0		3/4-10 x 4 1/2	19,1	38	132	86	51	19,0	33,3	37,6	20,6	13,5
DMCA-6-7						178	127		19,0	33,3	37,6	20,6	13,5
DMCA-8-95	22,2	50	1" x 6	25,5	51	241	135	67	25,4	42,9	49,8	26,9	17,5

♥ Mold components

♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

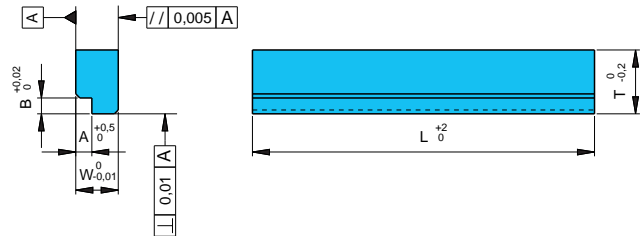
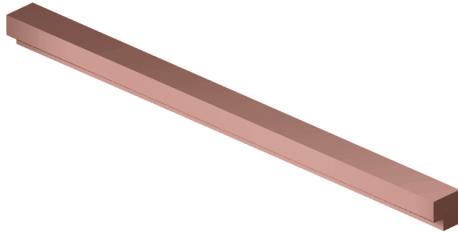
ALG

♥ L-Gibs

♦ Standardführungsleisten

♣ L-Spieën

♠ Equerres de frottement



Mat. AMPCO 21

REF.	W	T	A	B	L	REF.	W	T	A	B	L
ALG 1616	16	16	6	6	250	ALG 2020	20	20	6	6	250
1625	16	25	6	6	250	2032	20	32	8	8	250
2516	25	16	6	6	250	2445	24	45	8	8	250

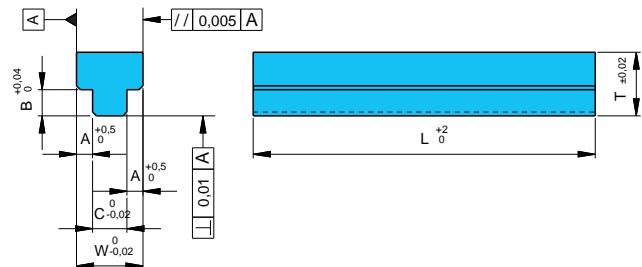
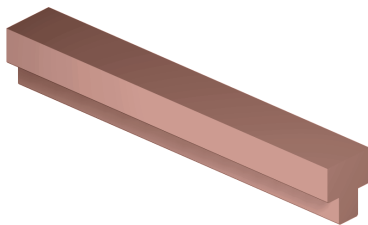
ATG

♥ T-Gibs

♦ T-Führungen

♣ T-Spieën

♠ Plaques de frottement en T



Mat. AMPCO 21

REF.	W	T	A	B	C	L	REF.	W	T	A	B	C	L
ATG 1566	22	25	6	11	9	156	ATG 2468	32	31	8	13	15	248
1966	26	25	6	11	13	196	2968	32	37	8	13	15	298
1968	30	31	8	13	13	198	3468	32	37	8	13	15	348
2148	30	31	8	13	13	218							

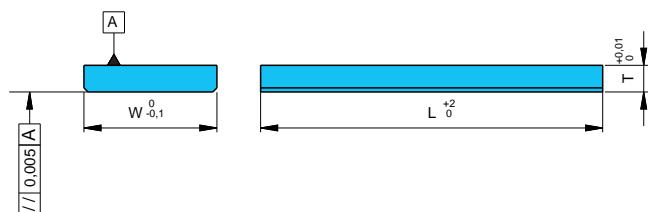
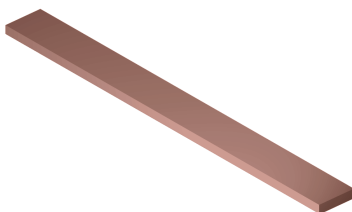
AWP

♥ Wear plates

♦ Führungsplatten

♣ Slijtstrippen

♠ Plaques de frottement



Mat. AMPCO 21

REF.	W	T	L	REF.	W	T	L
AWP 2506	25	6	250	AWP 5010	50	10	250

♥ Mold components

♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

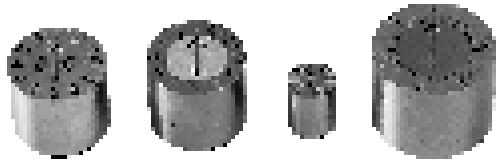
NM - OD - OY - OM - YM - OI - YA - OA

♥ Date stamps - Compact type with minimal height

♦ Datumsstempel - Kompakter Typ mit minimaler Höhe

♣ Datumstempels - Kompakt type met minimale hoogte

♠ Dateurs pour moules - Type compact à hauteur minimale



♥ Outer inserts

♦ Gehäuse

♣ Hulzen

♠ Douilles

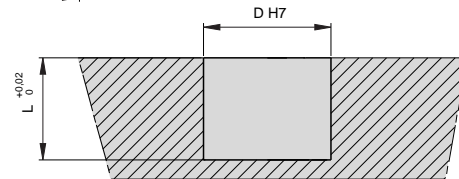
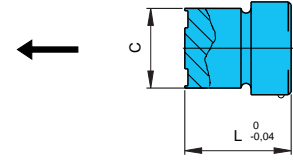
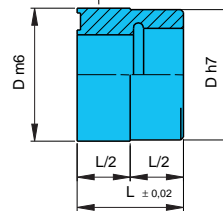
Nicht für Deutschland

♥ Inner inserts

♦ Stelleinsätze

♣ Kernen

♠ Noyaux



Mat.:

♥ Corrosion resistant steel: 50 - 55 HRC

♦ Rostbeständiger Stahl: 50 - 55 HRC

♣ Roestbestendig staal: 50 - 55 HRC

♠ Acier inoxydable: 50 - 55 HRC

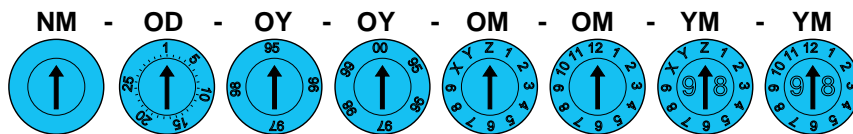
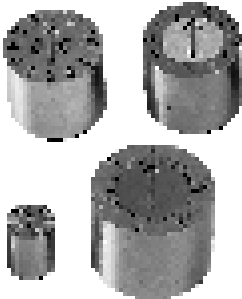
NM - OD - OY - OM - YM

♥ Assemblies

♦ Komplettsset

♣ Sets

♠ Jeux complets



♥ Mirror images

♦ Spiegelbilder

♣ Spiegelbeelden

♠ Images miroirs

REF.	REF.	REF.	REF.	REF.	REF.	REF.*	REF.*	SERIE(S)	D	C	L
NM- 6		OY- 6		OM- 6		YM- 6/19..		ø 6	6	3	8
- 8		- 8		- 8		- 8/19..		ø 8	8	4	10
-10			OY-10		OM-10		YM-10/19..	ø 10	10	5	12
-16	OD-16		-16		-16		-16/19..	ø 16	16	10	14
-20	-20		-20		-20		-20/19..	ø 20	20	12	16

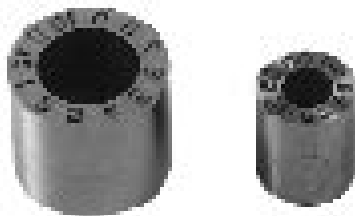
OI

♥ Outer inserts

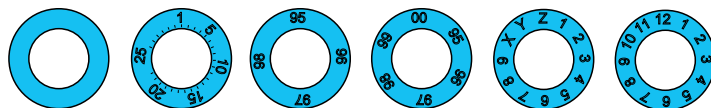
♦ Gehäuse

♣ Hulzen

♠ Douilles



OI-NM - OI-OD - OI-OY - OI-OY - OI-YM/OM - OI-YM/OM



♥ Mirror images

♦ Spiegelbilder

♣ Spiegelbeelden

♠ Images miroirs

REF.	REF.	REF.	REF.	REF.*	REF.	SERIE(S)	D	L
OI-NM- 6		OI-OY- 6		OI-YM/OM- 6/19..		ø 6	6	8
- 8		-8		- 8/19..		ø 8	8	10
-10			OI-OY-10		OI-YM/OM-10	ø 10	10	12
-16	OI-OD-16		-16		-16	ø 16	16	14
-20	-20		-20		-20	ø 20	20	16

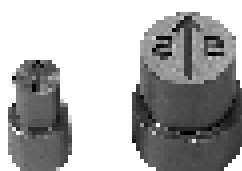
YA - OA

♥ Inner inserts

♦ Stelleinsätze

♣ Kernen

♠ Noyaux



OA



YA



♥ Mirror images

♦ Spiegelbilder

♣ Spiegelbeelden

♠ Images miroirs

REF.	REF.*	SERIE(S)	C	L
OA- 6	YA- 6/19..	ø 6	3	8
8	8/19..	ø 8	4	10
10	10/19..	ø 10	5	12
16	16/19..	ø 16	10	14
20	20/19..	ø 20	12	16

*♥Specify year - ♦Jahreszahl angeben - ♣Jaartal aangeven - ♠Spécifier l'année

♥ Mold components
♦ Formenzubehör

Matrijshuiskomponenten ♣
Composants de moules ♠

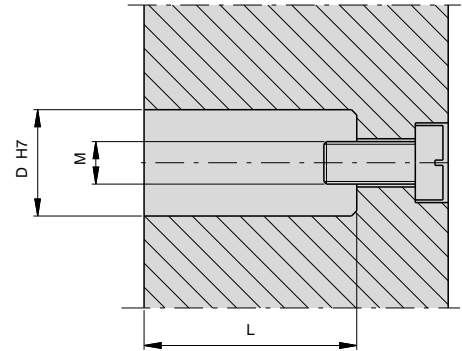
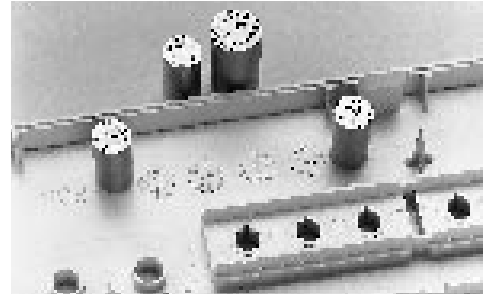
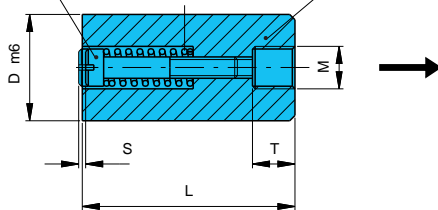
OYN - YMN - OMN - OAN - YAN

- ♥ **Date stamps** - Spring loaded type with front removal inner insert
- ♦ **Datumsstempel** - Stelleinsatz kann von der Trennebene montiert und demontiert werden
- ♣ **Datumstempels** - Type met verende kern, demonteerbaar langs voorzijde
- ♠ **Dateurs pour moules** - Modèle à ressort avec démontage du noyau par l'avant

Mat.:

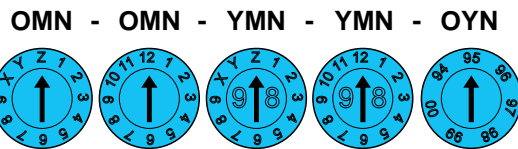
- ♥ Corrosion resistant steel: 50 - 55 HRC
- ♦ Rostbeständiger Stahl: 50 - 55 HRC
- ♣ Roestbestendig staal: 50 - 55 HRC
- ♠ Acier inoxydable: 50 - 55 HRC

- ♥ Inner insert
- ♦ Stelleinsatz
- ♣ Kern
- ♠ Noyau
- ♥ Compression spring
- ♦ Druckfeder
- ♣ Drukveer
- ♠ Ressort
- ♥ Outer insert
- ♦ Gehäuse
- ♣ Huls
- ♠ Douille

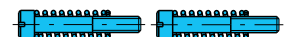
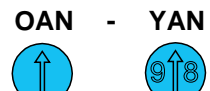


- ♥ Assemblies
- ♦ Kompletset
- ♣ Sets
- ♠ Jeux complets

- ♥ Inner inserts
- ♦ Stelleinsätze
- ♣ Kernen
- ♠ Noyaux



- ♥ Mirror images
- ♦ Spiegelbilder
- ♣ Spiegelbeelden
- ♠ Images miroirs



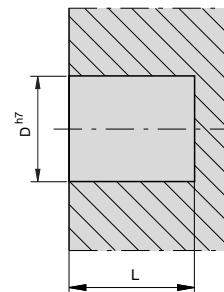
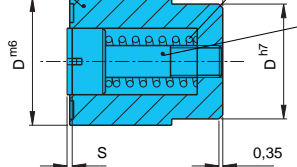
REF.	REF.	REF.*	REF.*	REF.	D	L	M	T	S	REF.	REF.
OMN- 6		YMN- 6/19..		OYN- 6	6	17	M3	3,5	0,20	OAN- 6	YAN- 6/19..
8			YMN- 8/19..	8	8	20	M4	4	0,35	8	8/19..
	OMN-10		10/19..	10	10	20	M5	4	0,35	10	10/19..
	12		12/19..	12	12	25	M6	6	0,50	12	12/19..
	16		16/19..	16	16	33	M8	8	0,60	16	16/19..

* ♥ Specify year - ♦ Jahrzahl angeben - ♣ Jaartal aangeven - ♠ Spécifier l'année

FOM - FYM - FOY - FOD

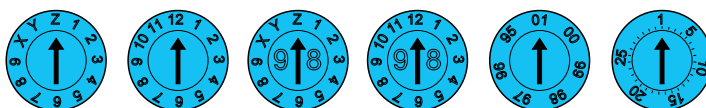
- ♥ **Date stamps** - Remove inner insert from the outer insert using a screwdriver
- ♦ **Datumsstempel** - Entfernen des inneren Einsatzes durch einfaches Ausschrauben
- ♣ **Datumstempels** - De kern door middel van een schroevendraaier uit de hals verwijderen
- ♠ **Dateurs pour moules** - Utilisation d'un tournevis pour retirer le noyau de la douille

- ♥ Outer insert
- ♦ Gehäuse
- ♣ Huls
- ♠ Douille
- ♥ Compression spring
- ♦ Druckfeder
- ♣ Drukveer
- ♠ Ressort
- ♥ Inner insert
- ♦ Stelleinsatz
- ♣ Kern
- ♠ Noyau



- ♥ Mirror images
- ♦ Spiegelbilder
- ♣ Spiegelbeelden
- ♠ Images miroirs

FOM - FOM - FYM - FYM - FOY - FOD



YAN - OAN



REF.	REF.	REF.*	REF.*	REF.	REF.	D	L	S	REF.*	REF.
FOM-0006		FYM-0006/19..		FOY-0006		6	8	0,20	YON- 6/19..	OON- 6
0008		0008/19..		0008		8	10	0,25	8/19..	8
	FOM-0010		FYM-0010/19..	0010		10	12	0,35	10/19..	10
	0012		0012/19..	0012	FOD-0012	12	14	0,35	12/19..	12
	0016		0016/19..	0016	FOD-0016	16	14	0,35	16/19..	16
	0020		0012/19..	0020	FOD-0020	20	16	0,35	20/19..	20

* ♥ Specify year - ♦ Jahrzahl angeben - ♣ Jaartal aangeven - ♠ Spécifier l'année

♥ Mold components

♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

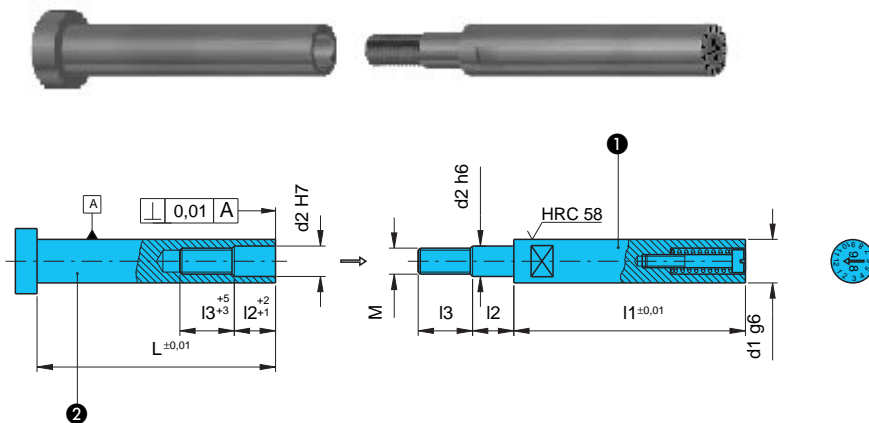
DOY - DOM - DYM - DOD - OON - YON

♥ Date pins - Date stamp on ejector or core pins

♦ Auswerferdatumsstempel - Datumsstempel auf Auswerfer oder Kernstift

♣ Datumpennen - Uitwerp- of kernpennen met datumstempel

♠ Broches éjectrices à dateur - Ejecteurs ou broches noyaux à dateur



Mat.:

- 1 ♥ Date pin, stainless steel: 55-58 HRC
- ♦ Auswerferdatumsstempel, rostfreier Stahl: 55-58 HRC
- ♣ Datumpennen, roestbestendig staal: 55-58 HRC
- ♠ Broche éjectrice à dateur, acier inoxydable: 55-58 HRC

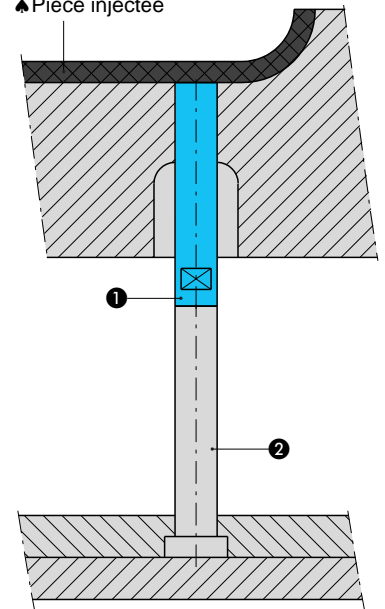
- 2 ♥ Ejector pins type A or AH (to be ordered separately) to be cut at the requested length L by the toolmaker. Before machining, area to be softened by flame or other annealing.
- ♦ Auswerferstifte Type A oder AH (müssen separat bestellt werden) können je nach Bedarf vom Werkzeugmacher auf die gewünschte Länge L gekürzt werden. Vor dem Kürzen muß der Auswerferstift an der entsprechenden Stelle mit einer Flamme oder anderen Methoden erhitzt werden.

♥ Plastic part

♦ Gußteil

♣ Spuitgietproduct

♠ Pièce injectée



- 2 ♣ Uitwerppennen type A of AH (afzonderlijk te bestellen) kunnen door de matrijsmaker op de gewenste lengte L gebrach worden. Vóór het inkorten de te bewerken zone temperen met een vlam of een andere methode.
- ♠ Ejecteurs type A ou AH (à commander séparément) à couper à la longueur L par l'outilier selon les besoins. Avant usinage, la zone de coupe doit être recuite au chalumeau, ou autrement.

Date Pin®

DOY - DOM - DYM - DOD

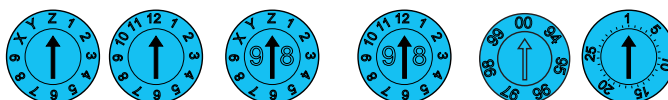
♥ Date pins

♦ Auswerferdatumsstempel

♣ Datumpennen

♠ Broches éjectrices à dateur

DOM - DOM - DYM - DYM - DOY - DOD

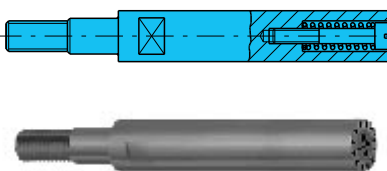


♥ Mirror images

♦ Spiegelbilder

♣ Spiegelbeelden

♠ Images miroirs



REF.	REF.	REF.*	REF.*	REF.	REF.	d1	d2	l1	l2	l3	M
DOM-0006		DYM-0006/19..		DYM-0006		6	4	80	6	6	M 3 x 0,5
DOM-0008		DYM-0008/19..		DYM-0008		8	6	80	9	10	M 5 x 0,8
	DOM-0010		DYM-0010/19..	DYM-0010		10	7	80	10	12	M 6 x 1
	DOM-0012		DYM-0012/19..	DYM-0012	DOD-0012	12	9	120	13	16	M 8 x 1
	DOM-0016		DYM-0016/19..	DYM-0016	DOD-0016	16	12	120	13	16	M 10 x 1

* ♥ Specify year - ♦ Jahrzahl angeben - ♣ Jaartal aangeven - ♠ Spécifier l'année

OON - YON

♥ Inner inserts

♦ Stelleinsätze

♣ Kernen

♠ Noyaux

OON

YON



♥ Mirror images

♦ Spiegelbilder

♣ Spiegelbeelden

♠ Images miroirs

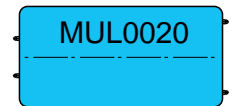
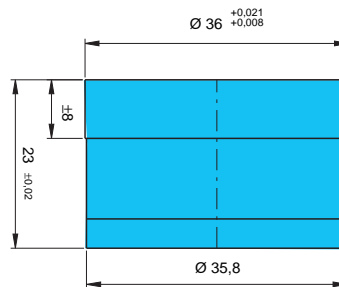
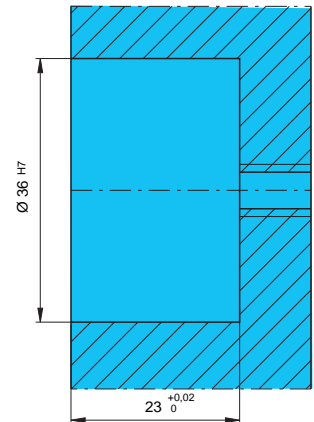
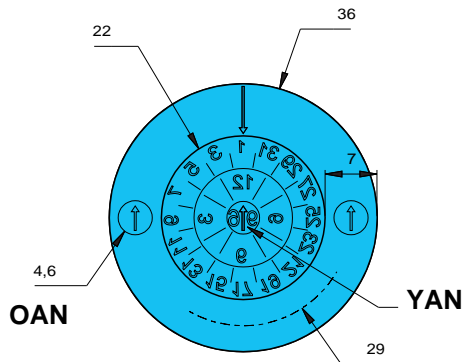


REF.	REF.	SERIE(S)
OON- 6	YON- 6/19..	ø 6
8	8/19..	ø 8
10	10/19..	ø 10
12	12/19..	ø 12
16	16/19..	ø 16

* ♥ Specify year - ♦ Jahrzahl angeben - ♣ Jaartal aangeven - ♠ Spécifier l'année

MUL

- ♥ Multi-info date stamps®
- ♦ Multi-Informationsstempel®
- ♣ Multi-info datumstempels®
- ♠ Dateurs multi-info®



Mat.:

- ♥ Corrosion resistant steel: 50 - 55 HRC
- ♦ Rostbeständiger Stahl: 50 - 55 HRC
- ♣ Roestbestendig staal: 50 - 55 HRC
- ♠ Acier inoxydable: 50 - 55 HRC

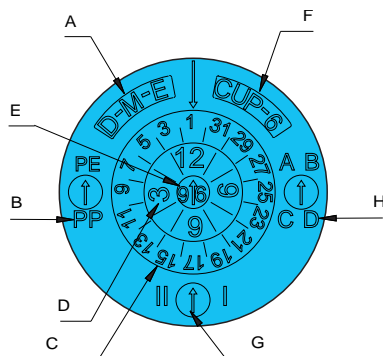


REF.	♥Description - ♦Beschreibung ♣Beschrijving - ♠Description	REF.	♥Description - ♦Beschreibung ♣Beschrijving - ♠Description	REF.	REF.
MUL-0001	♥Year + month + day + 2 pointers ♦Jahr + Monat + Tag + 2 Pfeile ♣Jaar + maand + dag + 2 wijzers ♠année + mois + jour + 2 flèches	MUL-0020	♥Tool for changing days and months ♦Werkzeug, um Tage und Monate auszuwechseln ♣Gereedschap voor wijzigen van dag en maand ♠Outil pour changement de jour et de mois	YAN-66/19..	OAN-0046

♥Mirror images - ♦Spiegelbilder - ♣Spiegelbeelden - ♠Images miroirs

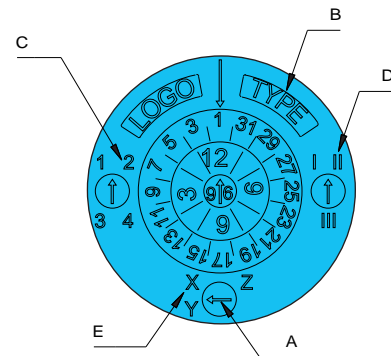
* ♥Specify year - ♦Jahrzahl angeben - ♣Jaartal aangeven - ♠Spécifier l'année

♥Example ♦Beispiele



Voorbeeld ♣ Exemple ♠

♥Options ♣Optionen



Opties ♦ Options ♠

A: Logo	C: ♥day ♦Tag ♣dag ♠jour	E: ♥year ♦Jahr ♣jaar ♠année	G: ♥shift ♦Schicht ♣ploeg ♠équipe
B: Mat.	D: ♥month ♦Monat ♣maand ♠mois	F: ♥part ♦Teile-Nr ♣produkt ♠produit	H: ♥market ♦Markt ♣markt ♠marché

A: ♥ Extra pointer ♦ Zusätzliche Pfeile ♣ Extra wijzer ♠ Flèche supplémentaire	B: ♥ Brand name, logo name, etc. ♦ Artikelbezeichnung, Logo, etc. ♣ Merknaam, logo, type, enz. ♠ Marque déposée, logo, type, etc.	C - D - E: ♥ Additional engravings for pointer ♦ Zusätzliche Gravierungen für Pfeile ♣ Supplémentaire graverings voor wijzers ♠ Gravures supplémentaires pour flèches
--	---	---

♥ Mold components

♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

♥ Special date inserts

♦ Datumsstempel mit Sondergravur

♣ Speciale datumstempels

♠ Dateurs spéciaux



♥ If requested D-M-E can also deliver date inserts with special engraving.

♦ D-M-E fertigt für Sie auch Stempel mit jeder gewünschten Sondergravur. Bitte fragen Sie an.

♣ Op aanvraag levert D-M-E ook datumstempels met speciale graveringen.

♠ Sur demande D-M-E peut vous livrer des dateurs avec gravures spéciales.

♥ Special recycling inserts and electrodes

♦ Sondereinsätze und -Electroden für Recycling

♣ Speciale recycling stempels en electroden

♠ Inserts et électrodes de recyclage spéciaux



♥ With these special inserts and electrodes plastic parts can be marked with useful information during the production process, usage and recycling process, e.g. with data on composition, recycling and purification.

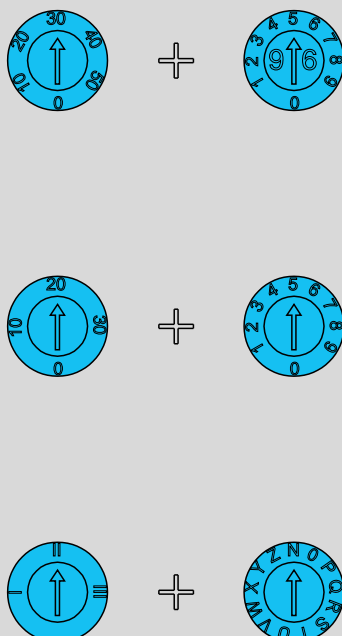
♦ Damit können Kunststoff- und Gußteile mit vielerlei Informationen über den Herstellungs-, Nutzungs- und Recycling Prozess gekennzeichnet werden. Zum Beispiel mit wichtigen Angaben zur Zusammensetzung, Wiederverwertung bzw. Aufbereitung.

♣ Met deze speciale stempels en electroden kan nuttige informatie over productieproces, gebruik en recyclageproces op het spuitgietproduct aangebracht worden; zoals gegevens over samenstelling, herverwerking en zuivering.

♠ A l'aide de ces inserts spéciaux et électrodes des informations relatives au processus de production, à l'usage du produit peuvent être inscrites sur la pièce plastique comme, par exemple, les données sur la composition de la matière, son recyclage et sa purification.

♥ Examples ♦ Beispiele

Voorbeelden ♣ Exemples ♠



♥ Examples ♦ Beispiele

Voorbeelden ♣ Exemples ♠



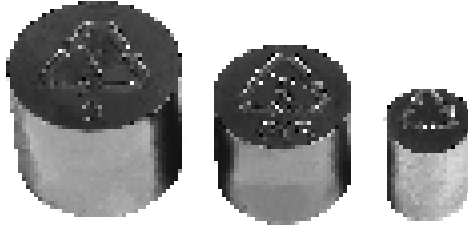
MRI

♥ Recycling inserts

♦ Recycling-Stempel

♣ Recycling stempels

♠ Inserts de recyclage



Mat.:

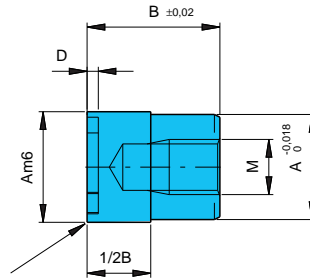
♥ Stainless steel

♦ Rostbeständiger Stahl

♣ Roestbestendig staal

♠ Acier inoxydable

48 - 52 HRC



♥ Sharp

♦ Scharf

♣ Scherp

♠ Coupant



	REF.	A	B	D	M	S	♥ Identification - ♦ Bezeichnung - ♣ Identificatie - ♠ Identification	
	MRI-0100 -0200 -0300	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ Arrows only ♦ Nur Pfeil ♣ Enkel pijl ♠ Flèche uniquement	
	MRI-1101 ♥ Not heat-treated -2202 ♦ Ungehärtet -3303 ♣ Ongehard ♠ Non-trempé	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ Blank ♦ Ohne Markierung ♣ Blank ♠ Non gravé	
	MRI-0101GE -0201GE -0301GE	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ Polyethylene terephthalate ♦ Polyethylenterephthalat ♣ Polyethyleentereftalaat ♠ Polyéthylène terephthalate	PET
	MRI-0102 -0202 -0302	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ High density polyethylene ♦ Polyethylen HD ♣ Hoge dichtheid polyethyleen ♠ Polyéthylène haute densité	HDPE
	MRI-0102GE -0202GE -0302GE	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ High density polyethylene ♦ Polyethylen HD ♣ Hoge dichtheid polyethyleen ♠ Polyéthylène haute densité	PE-HD
	MRI-0103GE -0203GE -0303GE	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ Polyvinyl chloride ♦ Polyvinylchlorid ♣ Polyvinylchloride ♠ Polychlorure de vinyl	PVC
	MRI-0104 -0204 -0304	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ Low density polyethylene ♦ Polyethylen LD ♣ Lage dichtheid polyethyleen ♠ Polyéthylène basse densité	LDPE
	MRI-0104GE -0204GE -0304GE	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ Low density polyethylene ♦ Polyethylen LD ♣ Lage dichtheid polyethyleen ♠ Polyéthylène basse densité	PE-LD
	MRI-0104FR -0204FR -0304FR	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ Low density polyethylene ♦ Polyethylen LD ♣ Lage dichtheid polyethyleen ♠ Polyéthylène basse densité	PE-BD
	MRI-0105 -0205 -0305	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ Polypropylene ♦ Polypropylen ♣ Polypropyleen ♠ Polypropylène	PP
	MRI-0106 -0206 -0306	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ Polystyrene ♦ Polystyrol ♣ Polystyreen ♠ Polystyrène	PS
	MRI-0107 -0207 -0307	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ All other resins ♦ Andere Plastik-Arten ♣ Alle andere plastic ♠ Tout autre matière plastique	Other
	MRI-0107GE -0207GE -0307GE	10 16 20	12 14 16	0,3	M5 M6 M6	6 10 12	♥ All other resins ♦ Andere Plastik-Arten ♣ Alle andere plastic ♠ Toute autre matière plastique	O

♥ Mold components

♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

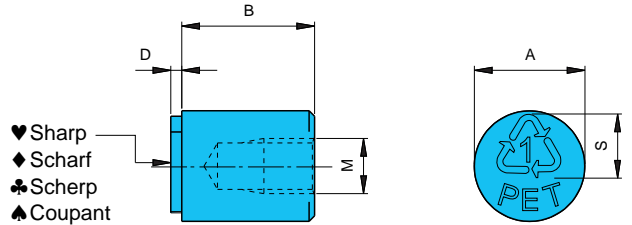
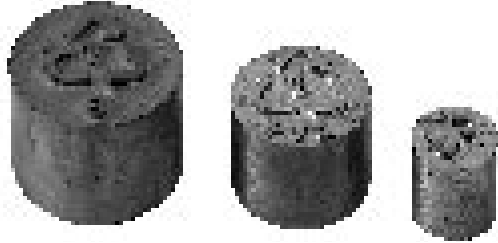
MRE

♥ Recycling electrodes

♦ Recycling Elektrode

♣ Recycling electroden

♠ Electrodes de recyclage



Mat.:

♥ Electrolytic copper

♦ Elektrolyt Kupfer

♣ Elektrolytisch koper

♠ Cuivre électrolytique

E-Cu

	REF.	A	B	D	M	S	♥ Identification - ♦ Bezeichnung - ♣ Identificatie - ♠ Identification	
	MRE-0100 -0200 -0300	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ Arrows only ♦ Nur Pfeil ♣ Enkel pijl ♠ Flèche uniquement	
	MRE-0101GE -0201GE -0301GE	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ Polyethylene terephthalate ♦ Polyethylenterephthalat ♣ Polyethyleentereftalaat ♠ Polyéthylène terephthalate	PET
	MRE-0102 -0202 -0302	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ High density polyethylene ♦ Polyethylen HD ♣ Hoge dichtheid polyethyleen ♠ Polyéthylène haute densité	HDPE
	MRE-0102GE -0202GE -0302GE	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ High density polyethylene ♦ Polyethylen HD ♣ Hoge dichtheid polyethyleen ♠ Polyéthylène haute densité	PE-HD
	MRE-0103GE -0203GE -0303GE	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ Polyvinyl chloride ♦ Polyvinylchlorid ♣ Polyvinylchloride ♠ Polychlorure de vinyl	PVC
	MRE-0104 -0204 -0304	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ Low density polyethylene ♦ Polyethylen LD ♣ Lage dichtheid polyethyleen ♠ Polyéthylène basse densité	LDPE
	MRE-0104GE -0204GE -0304GE	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ Low density polyethylene ♦ Polyethylen LD ♣ Lage dichtheid polyethyleen ♠ Polyéthylène basse densité	PE-LD
	MRE-0104FR -0204FR -0304FR	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ Low density polyethylene ♦ Polyethylen LD ♣ Lage dichtheid polyethyleen ♠ Polyéthylène basse densité	PE-BD
	MRE-0105 -0205 -0305	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ Polypropylene ♦ Polypropylen ♣ Polypropyleen ♠ Polypropylène	PP
	MRE-0106 -0206 -0306	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ Polystyrene ♦ Polystyrol ♣ Polystyreen ♠ Polystyrène	PS
	MRE-0107 -0207 -0307	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ All other resins ♦ Andere Plastik-Arten ♣ Alle andere plastic ♠ Tout autre matière plastique	Other
	MRE-0107GE -0207GE -0307GE	10 16 20	12 14 16	1	M5 M6 M6	6 10 12	♥ All other resins ♦ Andere Plastik-Arten ♣ Alle andere plastic ♠ Toute autre matière plastique	O

♥ Drawings are not in mirror image - ♣ Tekeningen zijn niet in spiegelbeeld voorgesteld

♦ Zeichnungen sind seitenrichtig dargestellt - ♠ Les dessins ne sont pas présentés en miroir

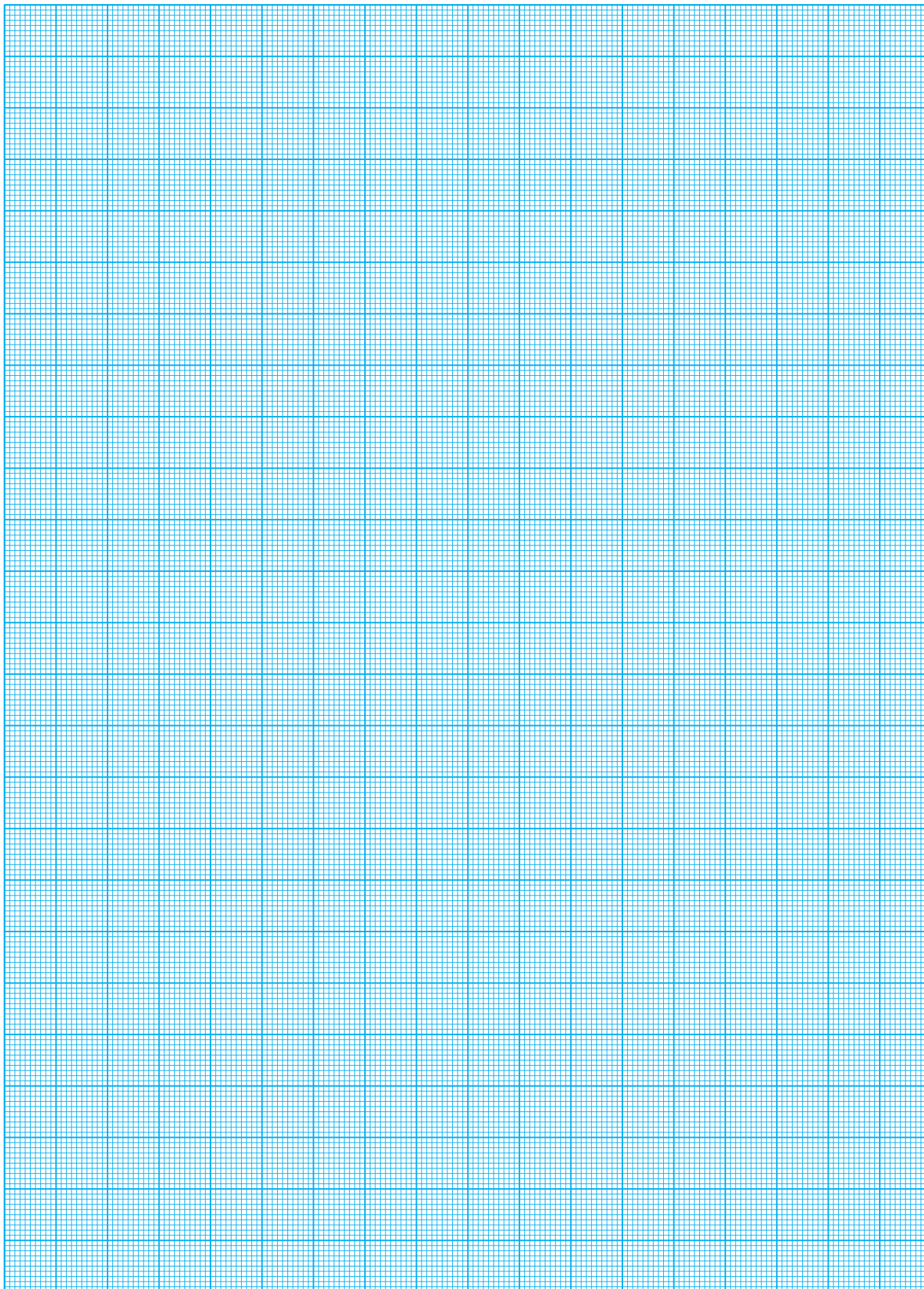
♥ Mold components

♦ Formenzubehör

Matrijshuiskomponenten ♣

Composants de moules ♠

NOTES - NOTIZEN - NOTA'S - NOTES



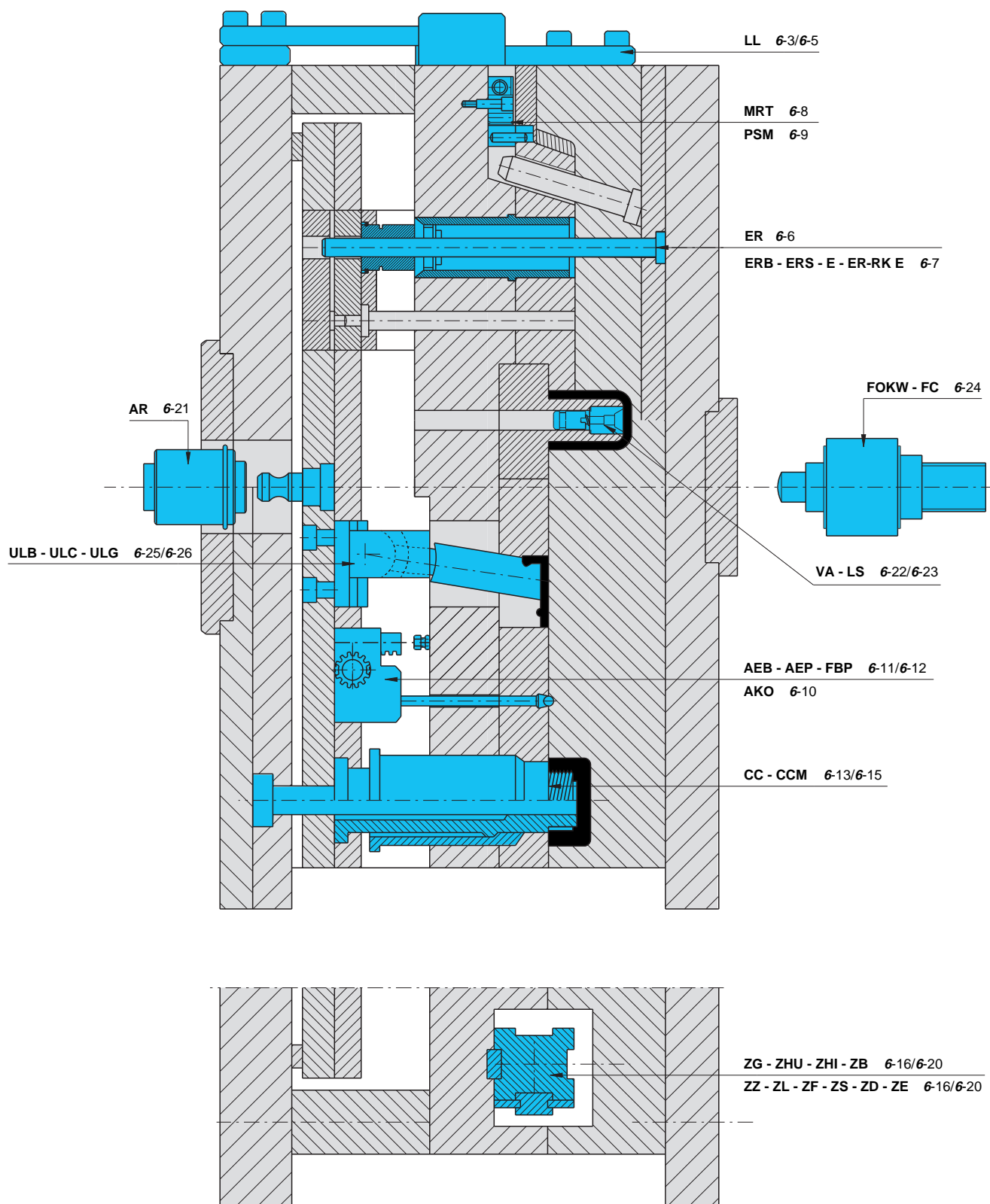
Index

p.

Info: Tableau synoptique

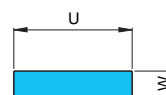
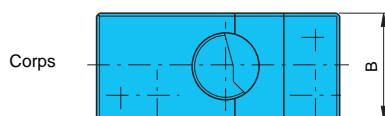
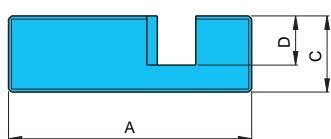
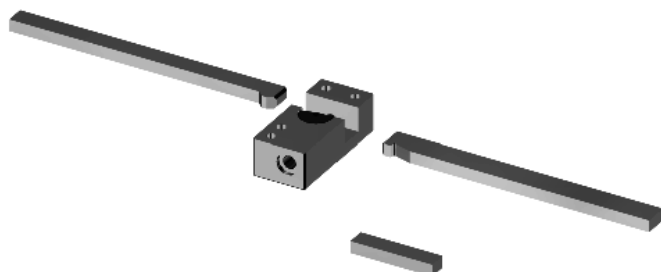
6- 2

REF.	p.
AEB	6-11 /6-12
AEP	6-11 /6-12
AKO	6-10
AR	6-21
CC	6-14 /6-15
CCM	6-13
E	6-7
ER	6-6 /6-7
ERB	6-7
ER RK E	6-7
ERS	6-7
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PSM	6-9
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ULG	6-25 /6-26
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ZB	6-16 /6-18
ZD	6-16 /6-17
ZE	6-16 /6-17
ZF	6-16 /6-18
ZG	6-16
ZHI	6-16
ZHU	6-16
ZL	6-16 /6-18
ZS	6-16 /6-17
ZZ	6-16 /6-18



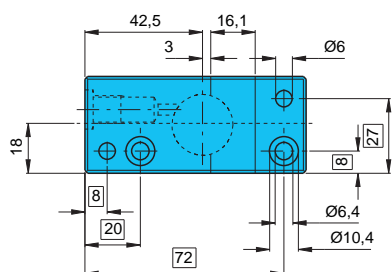
LL

Loquets jiffy

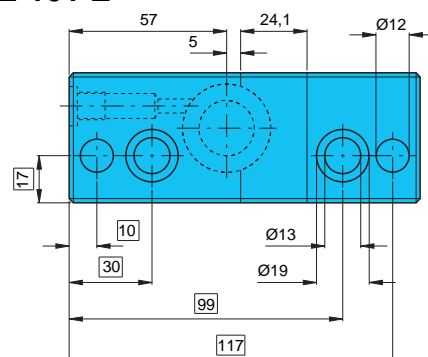


Entretoise

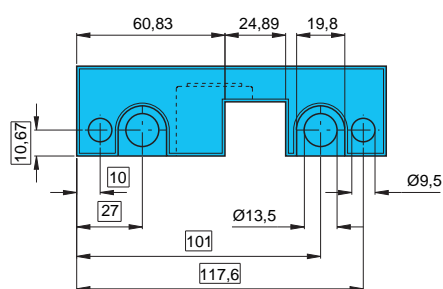
LL-051 E



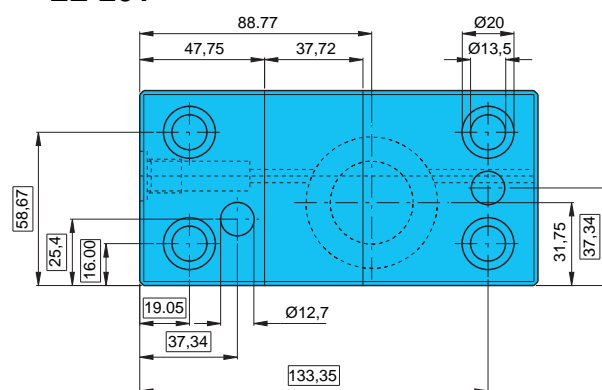
LL-101 E



LL-151



LL-201



REF.	Corps				Barre de verrouillage						
	A	B	C	D NOM.	E	F	G1 NOM.	G2 NOM.	H	I NOM.	L RAD.
LL-051 E	80	35	25	16,2	180	7,9	16	16	3,4	6	1
LL-101 E	127	47	37	22,2	254	11,9	24	24	3,5	12	1
LL-151	127	49,2	36,5	22,2	254	12,07	24,56	24,81	2,92	12,7	0,75
LL-201	152,5	74,6	61,9	38,1	406	24,77	37,21	37,46	4,75	15,9	1

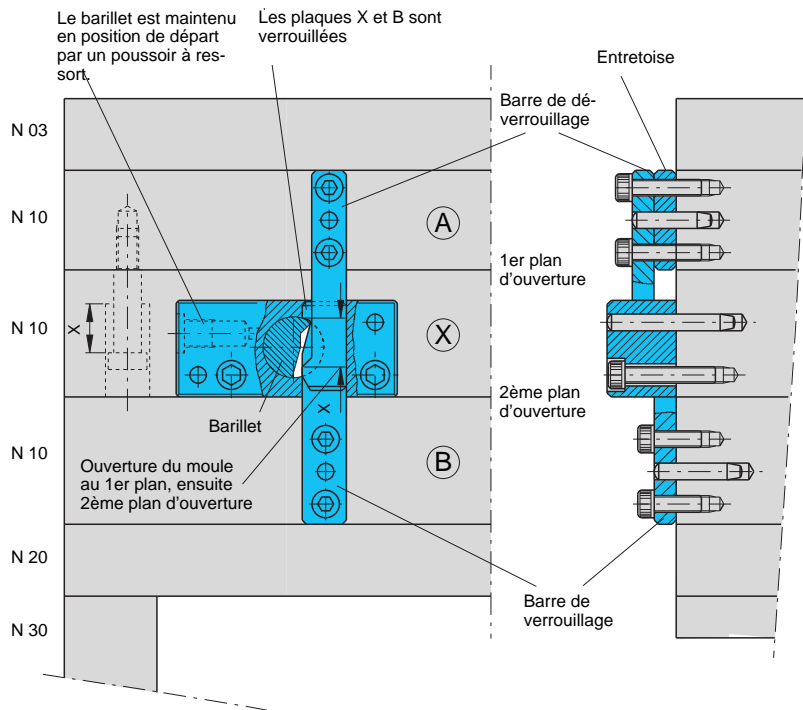
REF.	Barre de déverrouillage						Entretoise			Pièces de rechange		
	M	P	Q	R NOM.	S	T	U	V	W	Barillet Type	Barre de verrouillage Type	Barre de déverrouillage Type
LL-051 E	180	7,9	16	3	8,5	12,5	55	8	12	LL-052 E	LL-053 E	LL-054 E
LL-101 E	254	9,9	24	4	16	20	75	12	20	LL-102 E	LL-103 E	LL-104 E
LL-151	254	9	24,81	4,76	15,87	20,95	76,2	12,39	22,22	LL-152	LL-153	LL-154
LL-201	406	12,07	37,46	6,98	22,22	31,87	114,3	25,27	38,1	LL-202	LL-203	LL-204

Composants d'application technique

LL

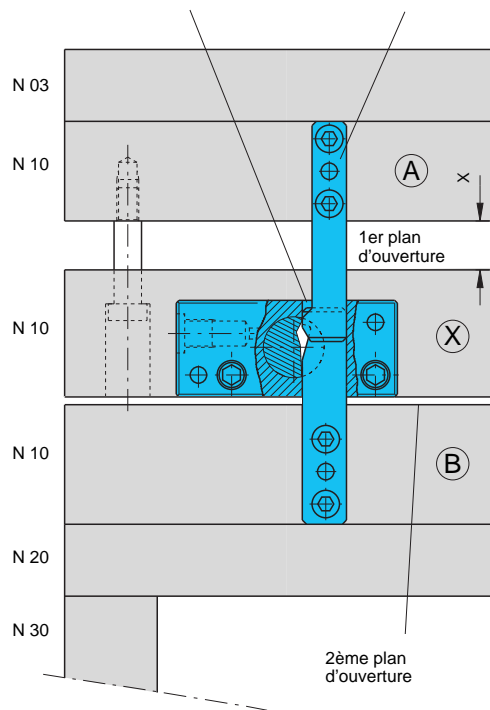
Loquets jiffy

Montage et fonctionnement LL-051, LL-101, LL-201



La barre de déverrouillage est prête pour libérer le barillet à la fin de la course d'éjection nécessaire au démoulage.

Couper la barre de déverrouillage à la longueur et la fixer avec la cale d'épaisseur.



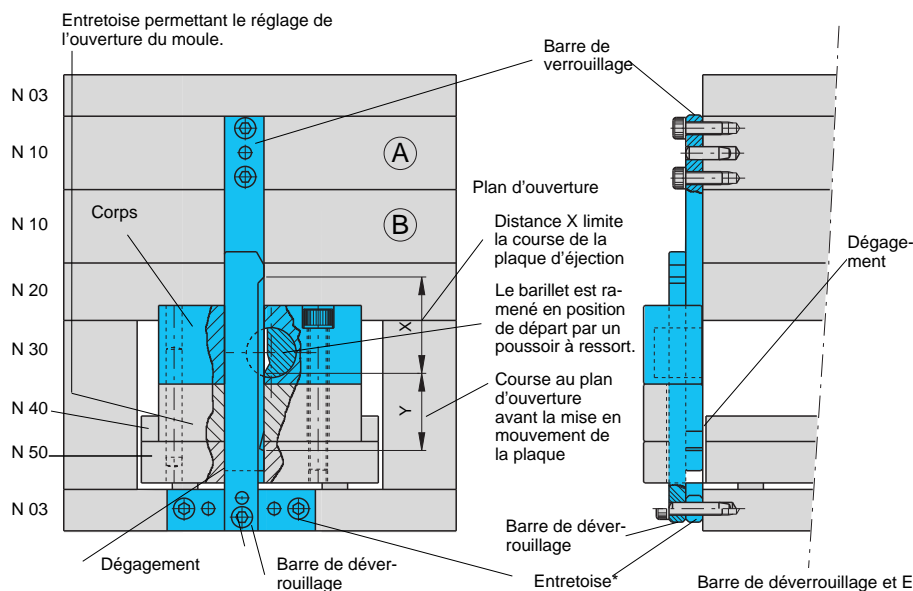
Instructions de montage:

Pour un moule il faut au moins 2 loquets jiffy montés à l'extérieur du moule dans l'axe vertical ou horizontal. Les corps doivent être parallèles, vissés et goupillés sur la plaque mobile. Les barres de verrouillage doivent être fixées perpendiculairement aux ouvertures des plaques. Ces barres doivent coulisser librement dans le corps.

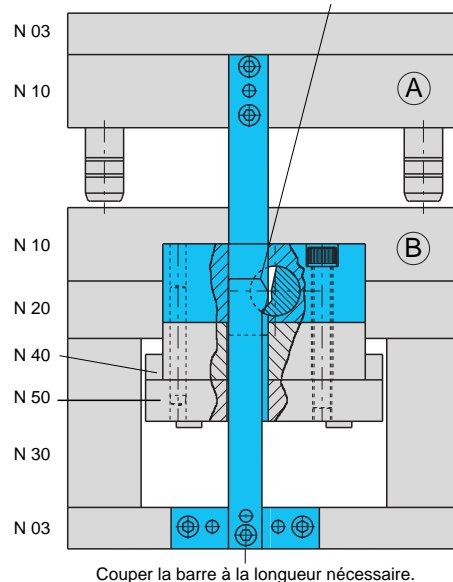
Réglage:

Les 2 loquets jiffy doivent être soigneusement ajustés. Un mauvais réglage peut coincer la plaque dévêtisseuse et casser les barres. Les barres de verrouillage et de déverrouillage doivent être montées lorsque le moule est fermé. Répéter ces mouvements jusqu'à ce que les 2 loquets jiffy fonctionnent correctement. Ensuite les 2 barres de verrouillage doivent être goupillées. Ouvrir le moule et contrôler les différentes courses des barres et de la plaque dévêtisseuse. Refermer le moule. Avant et pendant leur fonctionnement toutes les parties mobiles des loquets jiffy doivent être graissées au molykote. Pour le modèle LL-051 il est préférable d'encastrer les barres. (course de dévêtissage)

Montage et fonctionnement LL-151



La barre de déverrouillage est prête à libérer le barillet en fin de course.



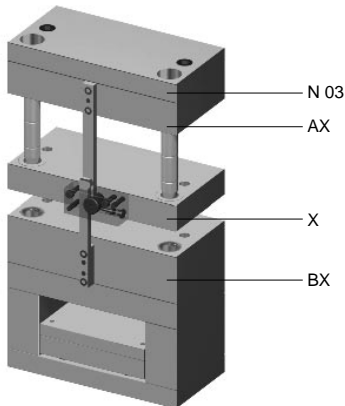
Instructions de montage:

Avec le loquet jiffy on tire la plaque d'éjection (N 50). Pour ce faire, il faut installer le LL-151 sur une entretoise débordante. La hauteur de cette entretoise nous permet de régler la course d'ouverture du moule avant le début de la course d'éjection.

Le LL-151 et l'entretoise sont vissés et goupillés sur la plaque N 50. Prévoir les dégagements pour le passage des barres. Pour tout autre réglage se conformer aux instructions des LL-051, LL-101 et LL-201.

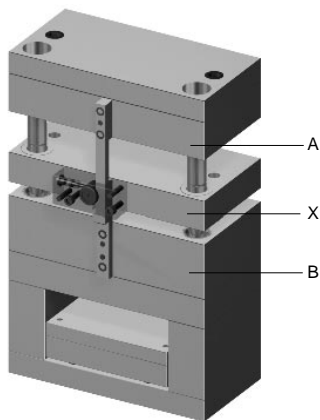
LL

Loquets jiffy Applications typiques



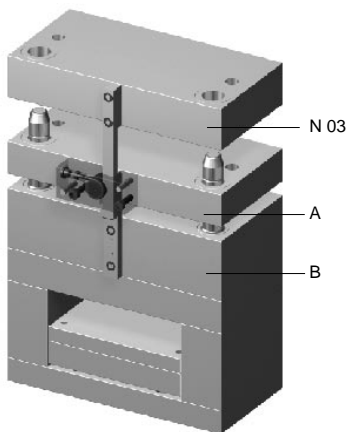
1. Manœuvre de la plaque dévêtisseuse.

La durée temps de cycle est souvent tributaire du système d'éjection de la presse. Avec l'utilisation du loquet jiffy D-M-E, comme illustré, la plaque dévêtisseuse est actionnée dans un second temps par l'ouverture du moule sans utiliser le système d'éjection de la presse. Cette utilisation permet un temps d'éjection plus court augmentant la cadence de pièces moulées.



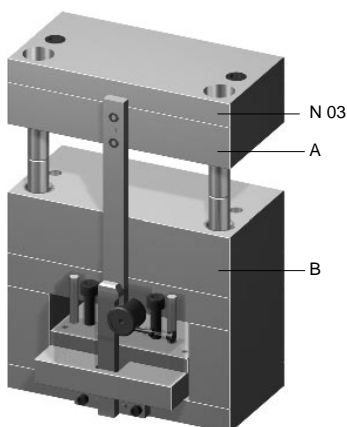
2. Verrouillage de la plaque X contre la plaque B permettant à la plaque A de s'écarter.

Dans cette application du loquet jiffy D-M-E la plaque X est maintenue contre la plaque B dans le premier temps de l'ouverture. Après cette première ouverture, dont on peut régler la course, la plaque X est déverrouillée de la plaque B et l'ouverture complète du moule s'effectue.



3. Verrouillage de la plaque A sur la plaque B permettant à la plaque porte moule côté fixe de s'écarter.

Dans la première ouverture la plaque A se décolle de la plaque porte moule côté fixe. Durant cette ouverture les plaques A et B sont verrouillées. La barre de déverrouillage vient ensuite libérer la plaque A de la plaque B.

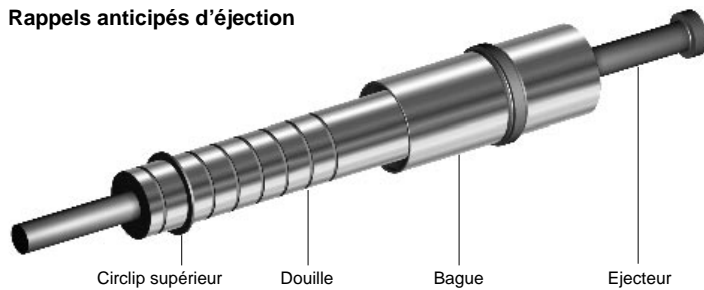


4. Action de la batterie d'éjection sans l'utilisation du système d'éjection de la presse.

Dans toutes les applications où une course d'ouverture réduite est nécessaire, on peut actionner le loquet jiffy D-M-E immédiatement après le début de l'ouverture du moule et ainsi manœuvrer la plaque d'éjection. Ce simple mouvement raccourcit la durée du cycle et accroît la productivité. Le loquet peut aussi être utilisé pour inverser l'éjection à partir de la plaque fixe du moule.

ER

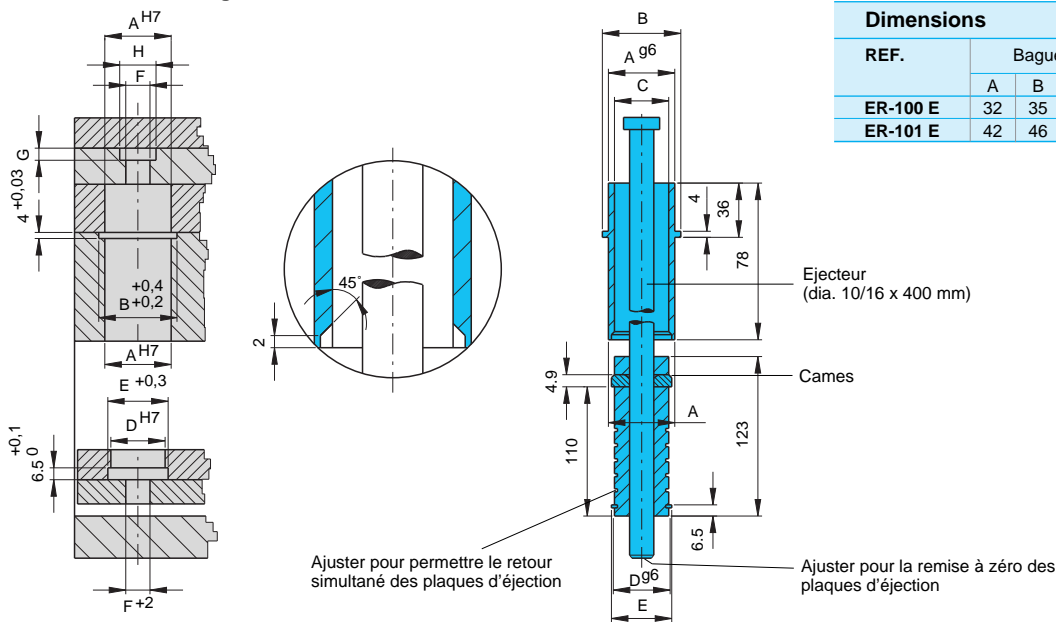
Rappels anticipés d'éjection



Utilisation:

- Moules pour l'injection et pour la coulée sous pression.
- Evite la détérioration des empreintes par les éjecteurs.
- Moules à tiroirs.
- Moules à mouvements d'éjection séquentiels.
- Le rappel anticipé d'éjection apporte un gain de temps et de productivité.
- Dessin simple réduisant les coûts.
- Longue durée grâce à l'usinage précis et au traitement des aciers.

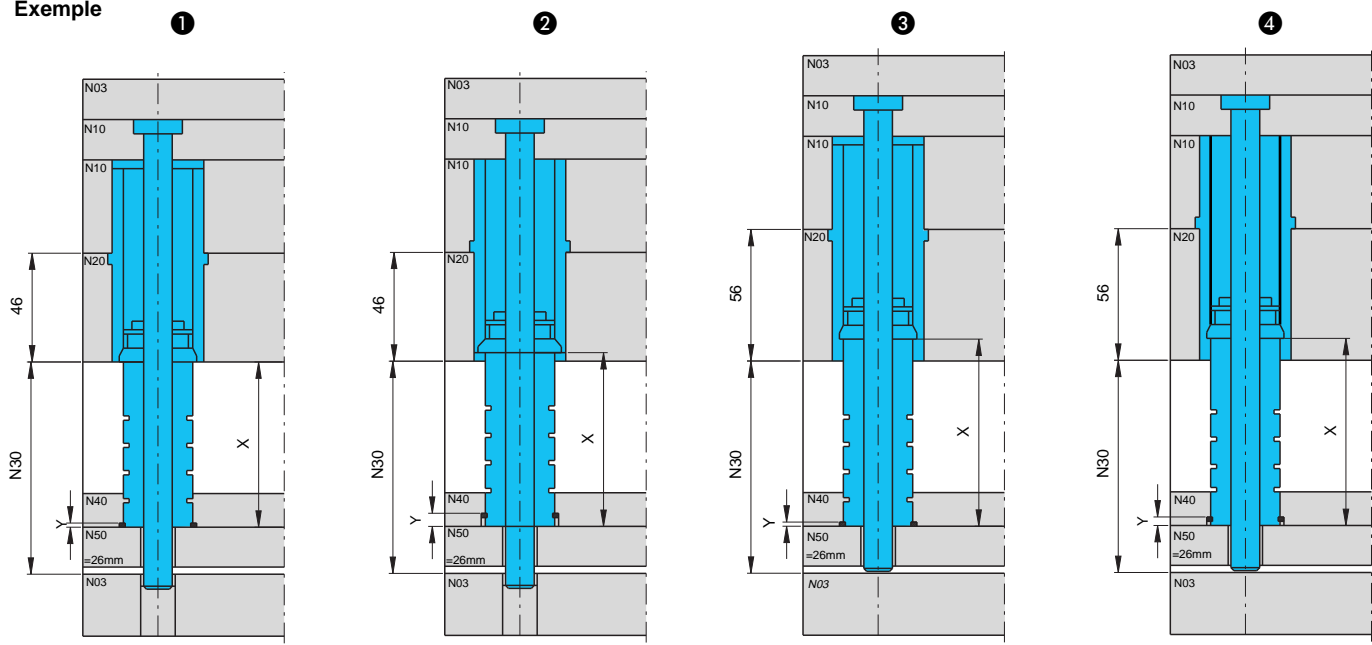
Dimensions d'alésage



Dimensions

REF.	Bague			Douille		Ejecteur		
	A	B	C	D	E	F	G	H
ER-100 E	32	35	24,2	24	27	10	5	17
ER-101 E	42	46	32,2	32	36	16	7	24

Exemple



Installation dans un moule standard

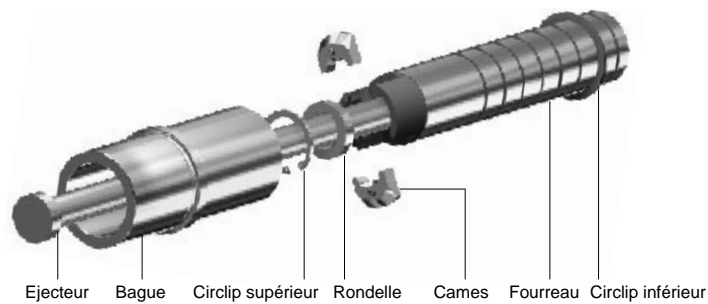
Exemple	①		②		③		④	
N30	X	Y	X	Y	X	Y	X	Y
66	36	2,5	40	6,5	46	2,5	50	6,5
86	56	2,5	60	6,5	66	2,5	70	6,5
106	76	2,5	80	6,5	86	2,5	90	6,5
126	96	2,5	100	6,5	106	2,5	110	6,5

Avant le montage les cames doivent être graissées.

Composants d'application technique

ER

Rappels anticipés d'éjection

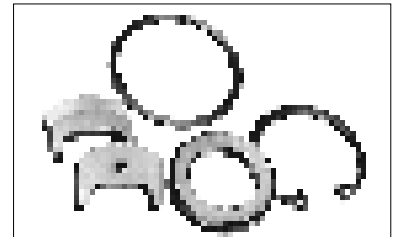


ER-RK E

ERB - ERS - E - ER-RK E

Pièces de rechange

Bague	Douille	Ejecteur	Jeu: cames, rondelles, circlips inférieur et supérieur
Type	Type	Type	Type
ERB-100 E	ERS-100 E	E 10-400	ER-100 RK E
ERB-101 E	ERS-101 E	E 16-400	ER-101 RK E



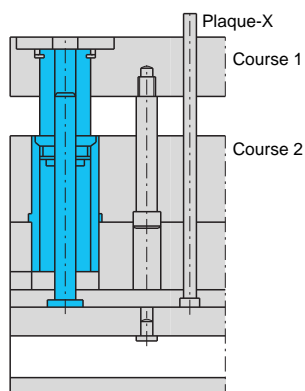
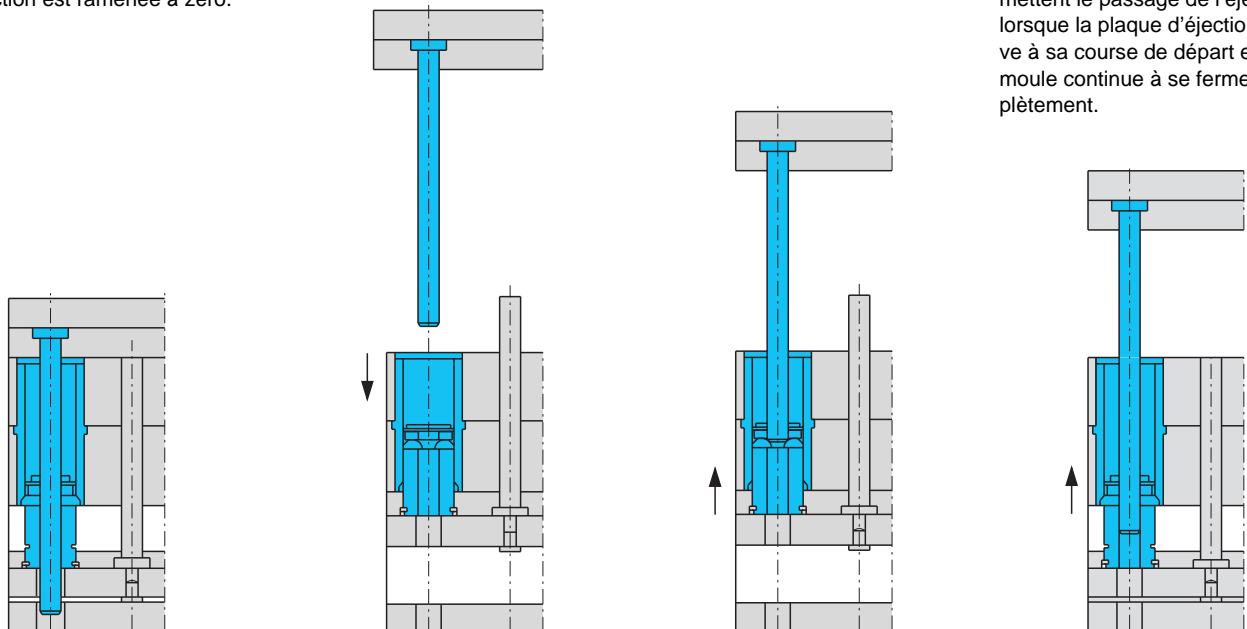
Vue A: Moule fermé, position de moulage.

Le fourreau et les cames doivent permettre le coulisement de l'éjecteur lorsque la plaque d'éjection est ramenée à zéro.

Vue B: Moule ouvert, position d'éjection maxi. Durant l'éjection les cames sont rentrées à l'intérieur de la douille et le diamètre de passage de l'éjecteur a été réduit.

Vue C: Fermeture du moule. L'éjecteur pousse sur les cames et commence le retour des plaques d'éjection.

Vue D: Le moule continue à se fermer. Les cames s'ouvrent puisqu'elles ne sont plus maintenues par la bague extérieure et permettent le passage de l'éjecteur lorsque la plaque d'éjection arrive à sa course de départ et le moule continue à se fermer complètement.

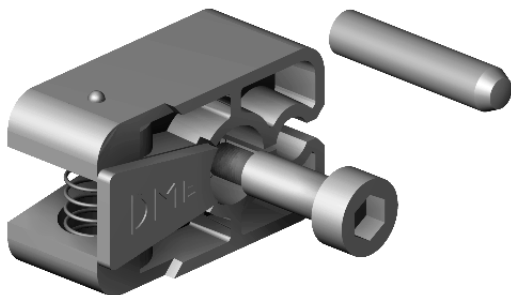


Installation dans la plaque dévêtisseuse:

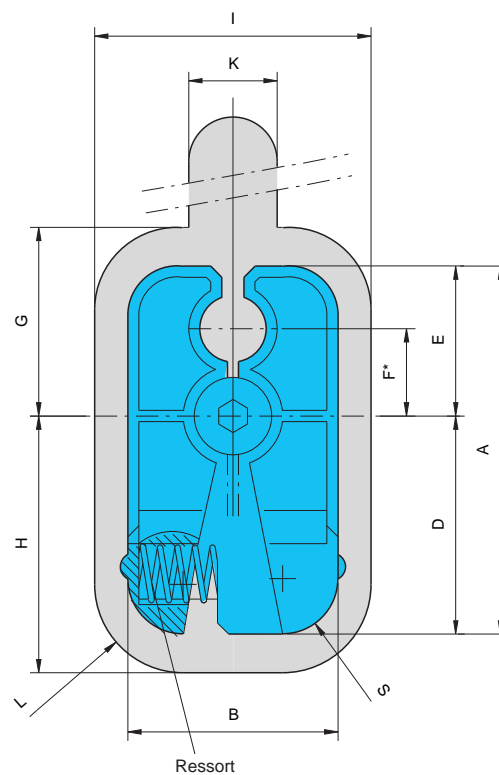
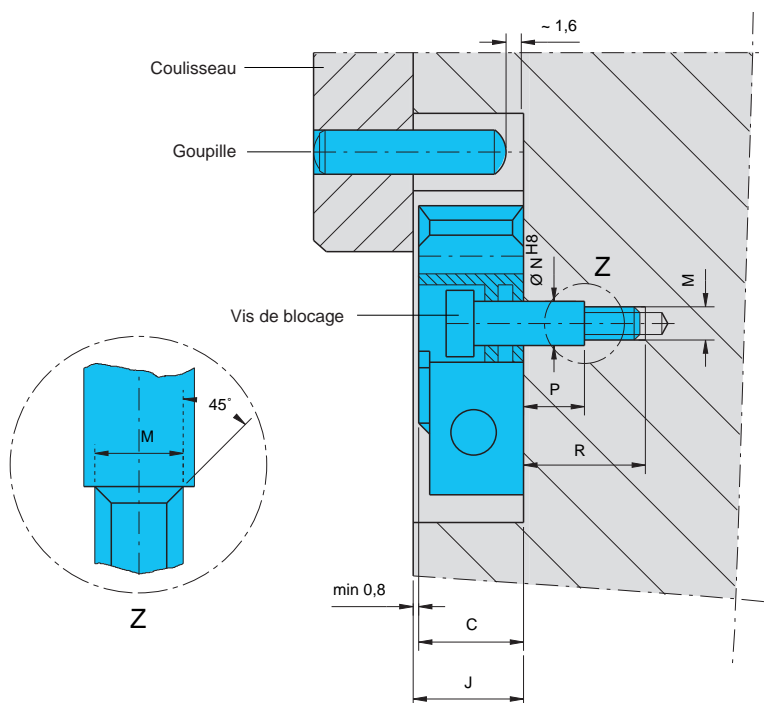
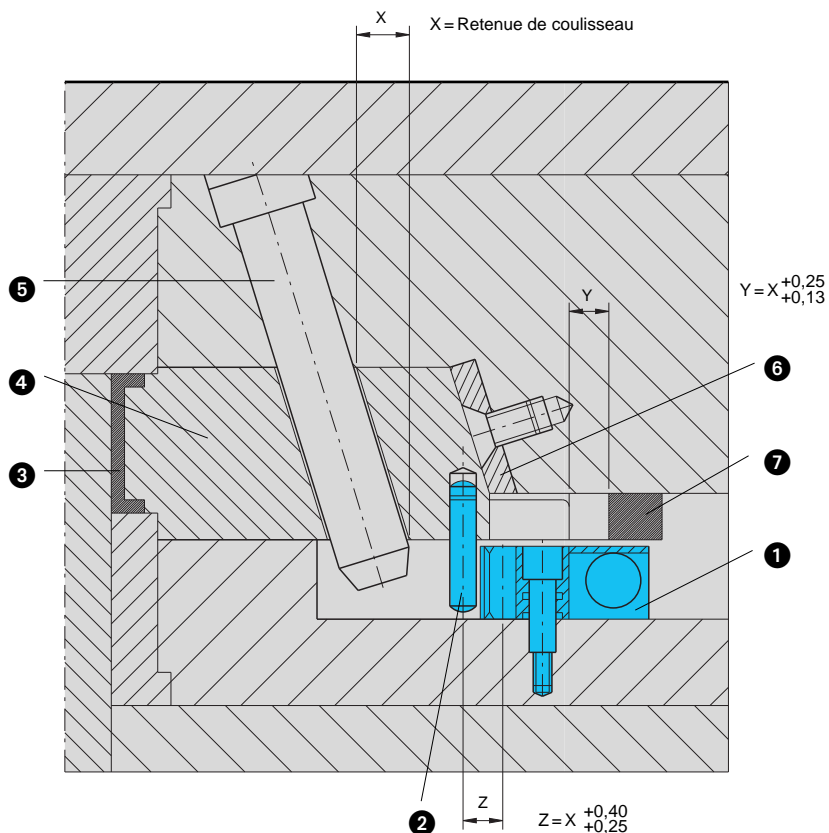
La plaque dévêtisseuse est poussée jusqu'à ce que les cames s'ouvrent dans l'alésage de la bague permettant à la plaque d'éjection de continuer sa course sans pousser la plaque dévêtisseuse.

MRT

Retenues de coulisseau



- ① Retenue de coulisseau
- ② Goupille
- ③ Pièce moulée
- ④ Coulisseau
- ⑤ Doigt de démoulage
- ⑥ Plaquette d'usure
- ⑦ Butée

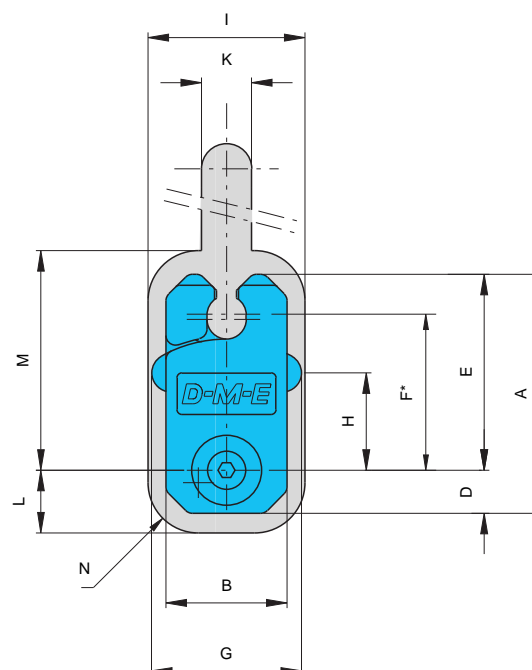
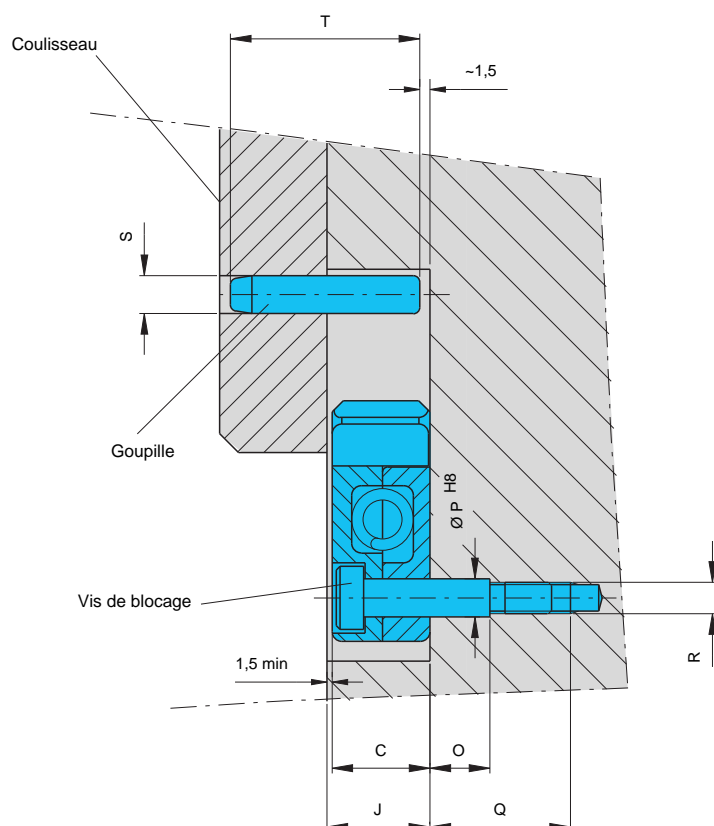
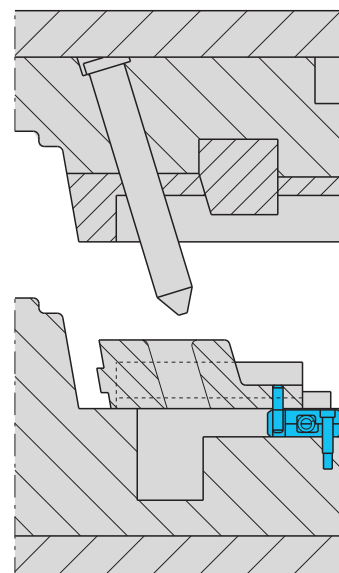
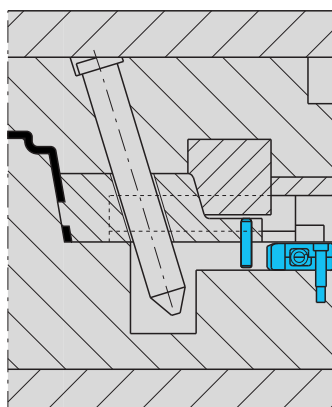


REF.	Retenue de coulisseau							Logement dans le moule										Goupille		Poids maxi du coulisseau	PM Pièces de rechange	
	A	B	C	D	E	*F	S	G	H	I	J	K	L	M	N	P	R	\varnothing	L	Newton	REF.	Moment de torsion Nm max.
MRT-10M	38	19	16	22	16	9,15	5	19	26	25	17	8	8	M 5	6	6	15,5	6	30	100	PM 5x16	10
-20M	54	32	20	33	21	12,7	6	24	36	38	21	10	10	M 6	8	8,5	20,5	8	40	200	6x20	15
-40M	86	45	30	53	33	20,3	10	36	56	51	31	12	13	M 8	10	10	25,0	10	60	400	8x30	20

*La distance du centre de la goupille au centre de la vis de blocage est à respecter rigoureusement
Disponible jusqu'à épuisement des stocks

PSM

Retenues de coulisseau

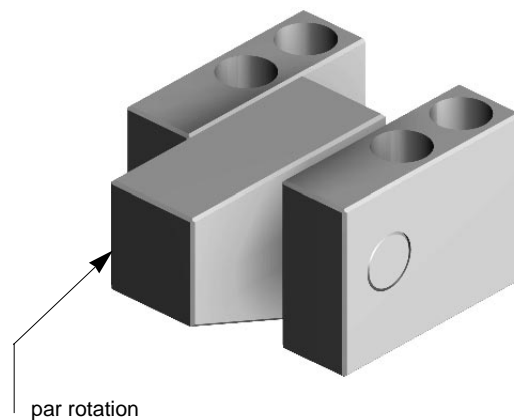
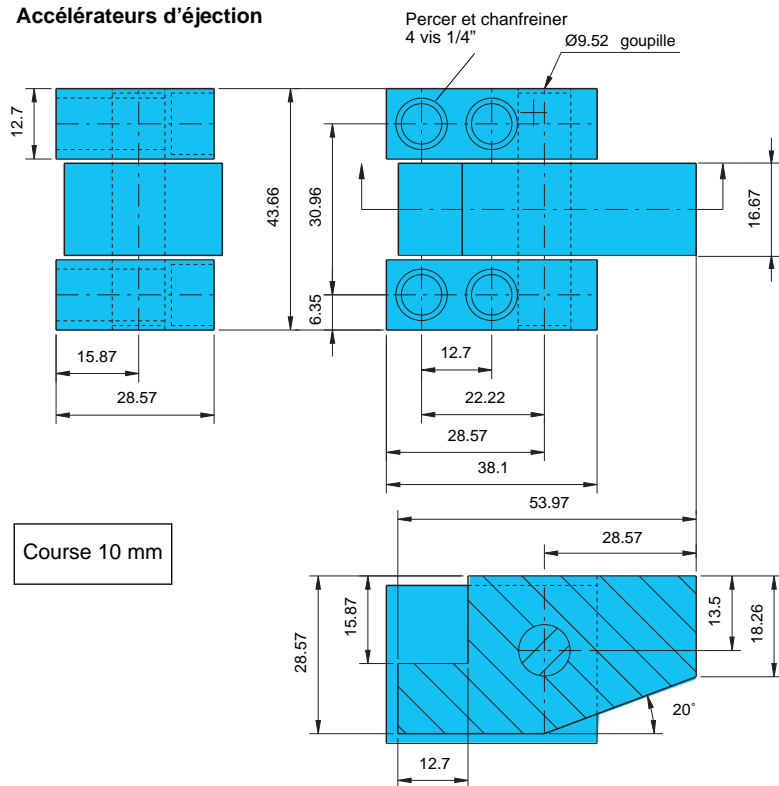


REF.	Retenue de coulisseau									Logement dans le moule									Goupille		Poids maxi coulisseau Newton	PM Pièces de rechange	
	A	B	C	D	E	F*	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		REF.	max Nm
PSM-0001	38	19	16	7	31,5	24,89	24,0	15,5	25,5	17,5	8	10,0	34,5	8	8,5	6	20	M5	6	32	100	PM5x20	10
PSM-0002	54	32	20	11	43,0	34,93	36,5	22,5	38,0	21,5	10	14,5	46,0	10	10,5	8	25	M6	8	40	200	6x25	15
PSM-0003	86	45	30	19	67,0	53,98	49,5	40,0	51,0	31,5	12	22,5	70,0	12	17,0	10	35	M8	10	60	400	8x40	20

*La distance du centre de la goupille au centre de la vis de blocage est à respecter rigoureusement.

AKO

Accélérateurs d'éjection



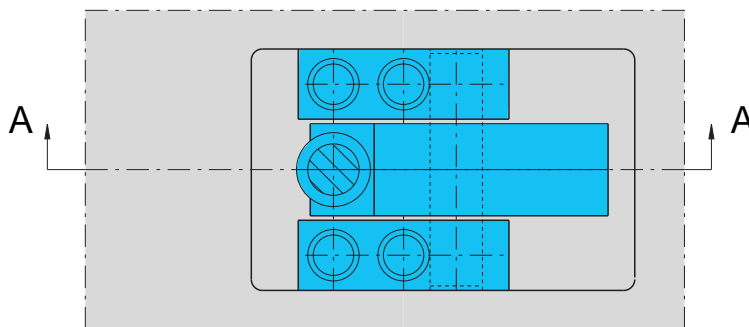
Les accélérateurs d'éjection D-M-E sont simples de conception. Ils utilisent un mouvement de pivotement pour accélérer l'éjecteur. Bras de levier 2:1. Ils peuvent s'utiliser avec des éjecteurs jusqu'à 9,5 mm (des éjecteurs avec une tête de diamètre supérieure à 15,8 mm peuvent être utilisés en réduisant le diamètre de la tête).

La simplicité de l'accélérateur D-M-E lui permet d'être facilement logé dans la plaque d'éjection (comme indiqué ci-dessous).

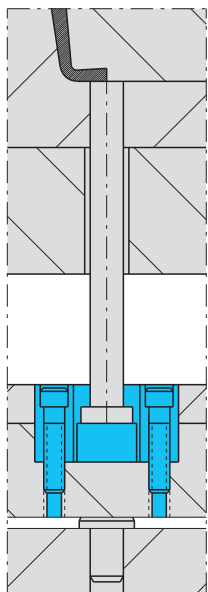
REF.

AKO-1

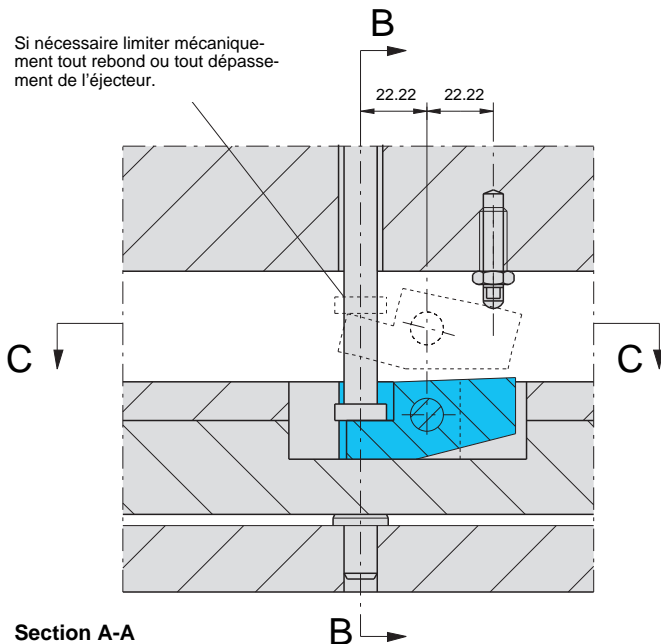
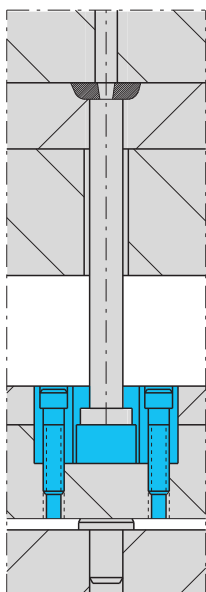
Applications typiques



Section B-B
Exemple 1



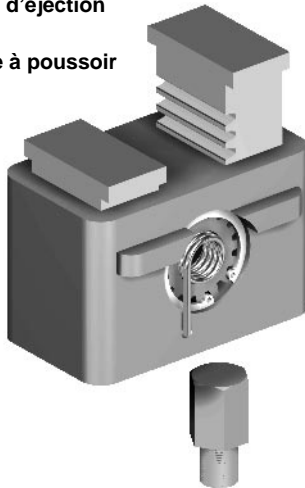
Section B-B
Exemple 2



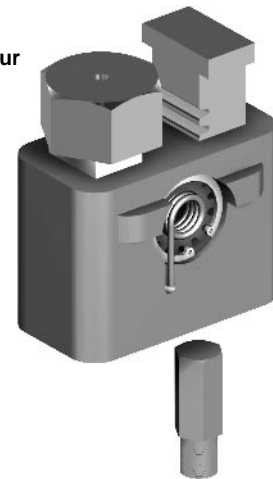
AEB - AEP

Accélérateurs d'éjection

AEB modèle à poussoir

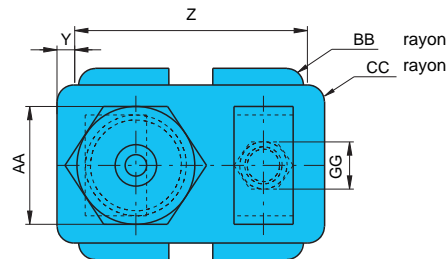


AEP modèle à éjecteur

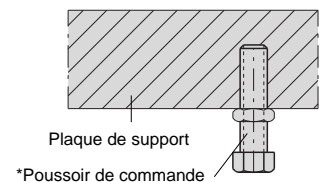
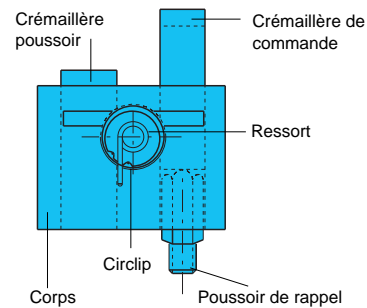


HH	
AEP-10 Modèle à éjecteur AEB-10 Modèle à poussoir	AEP-20 Modèle à éjecteur AEB-20 Modèle à poussoir
Pignon: pas 20/pouce	Pignon: pas 16/ pouce
.700 D.P. - 14 dents	1.000 D.P. - 16 dents
Angle de pression 20°	Angle de pression 20°

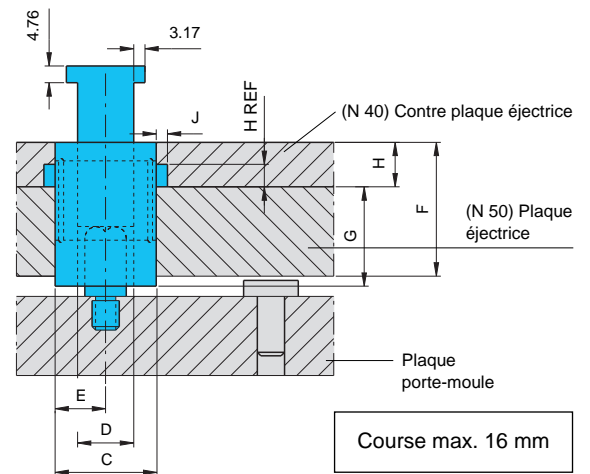
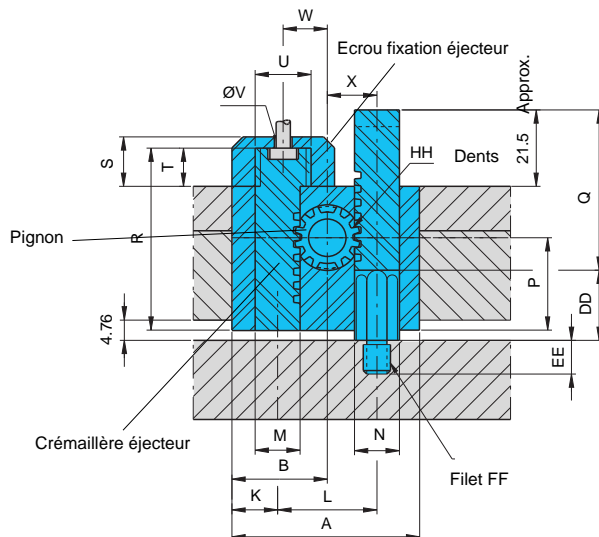
Pin type



Bumper type



brevet EU No. 3,893,644



Course max. 16 mm

REF.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	FBP Pièces de rechange	
AEP-10	+0.00 -0.05	+0.00 -0.05	+0.00 -0.05	15,87	14,28	40,64	27,94	1/2"	±0,05 3,17	12,95	28,02	12,7	12,7	26,16	45,29	Ressort pour	REF.
AEB-10																AEB/AEP-10	FBP-10
AEP-20	+0.00 -0.05	+0.00 -0.05	+0.00 -0.05	28,57	20,64	47,63	31,75	5/8"	±0,05 4,75	15,87	41,28	19,05	19,05	25,81	52,39	AEB/AEP-20	FBP-20
AEB-20																	
REF.	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	* Non fourni
AEP-10	51,44	13,97	10,80	5/8-18	3,18	12,47	14,0	6,35	41,28	15/16"	6,35	6,35	19,05	9,52	5/16-18	3/8"	
AEB-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AEP-20	60,33	17,27	12,70	1 1/8-12	6,35	15,87	20,64	6,35	60,03	1 3/8"	4,76	6,35	18,29	12,7	3/8-16	9/16"	
AEB-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

AEB - AEP

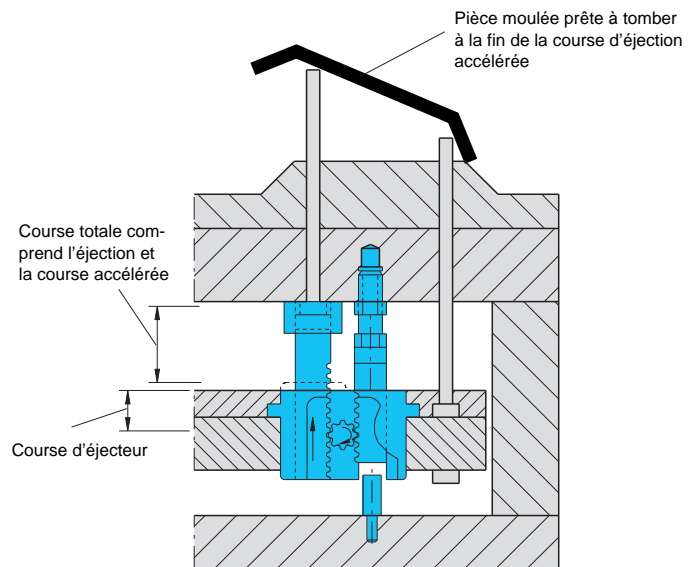
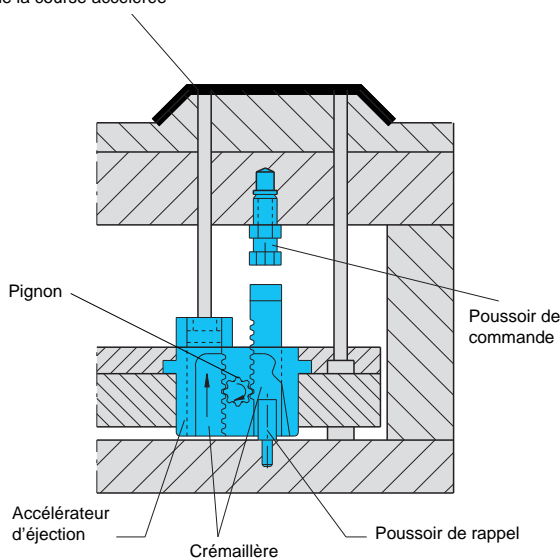
Accélérateurs d'éjection

L'**accélérateur d'éjection D-M-E** utilise un système pignon et crémaillère pour une course d'éjection additionnelle de 16 mm. Le mouvement linéaire simple peut être utilisé pour accélérer la vitesse d'éjection des éjecteurs cylindriques, éjecteurs tubulaires ou autres ensembles d'éjection. Les épaulements et angles arrondis de ces ensembles facilitent leur installation dans les plaques d'éjection. Leur section rectangulaire évite leur rotation. Chaque ensemble comprend un poussoir de rappel qui assure le retour de la crémaillère lors du rappel à zéro de la batterie.

L'accélérateur d'éjection D-M-E est disponible en **2 dimensions** (mini et standard) et **2 modèles** (à éjecteur et à poussoir). Le modèle à éjecteur est utilisé pour accélérer individuellement un éjecteur (un ensemble par éjecteur). Le modèle à poussoir est utilisé pour accélérer l'ensemble batterie dans le cas de moule à double batterie d'éjection. Un minimum de **4 ensembles** est normalement utilisé pour cette application.

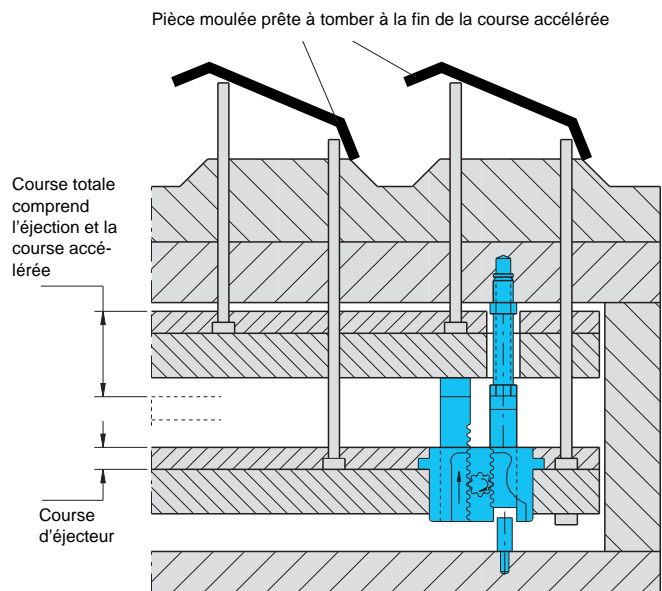
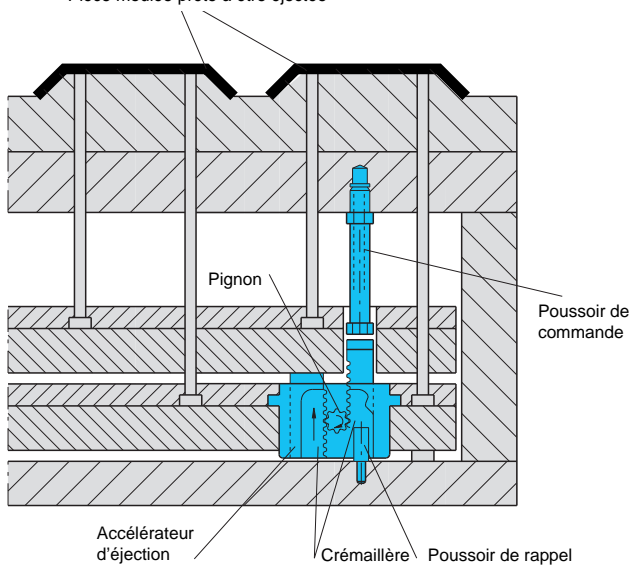
Application, modèle à éjecteur

Pièce moulée prête à être éjectée à la fin de la course accélérée



Application, modèle à poussoir

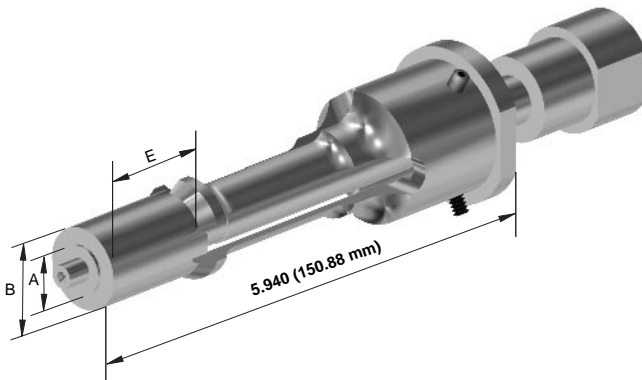
Pièce moulée prête à être éjectée



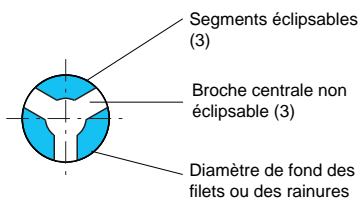
REF.	Description	Employé selon épaisseur de plaque		Ejecteur diamètre max
		Plaque éjectrice (N50)	Contre plaque éjectrice (N40)	
AEP-10	A éjecteur - MINI	26	12 mm	6,35
AEP-20	A éjecteur - STANDARD		12 ou 16 mm	12,70
AEB-10	A poussoir - MINI		12 mm	—
AEB-20	A poussoir - STANDARD		12 ou 16 mm	—

CCM

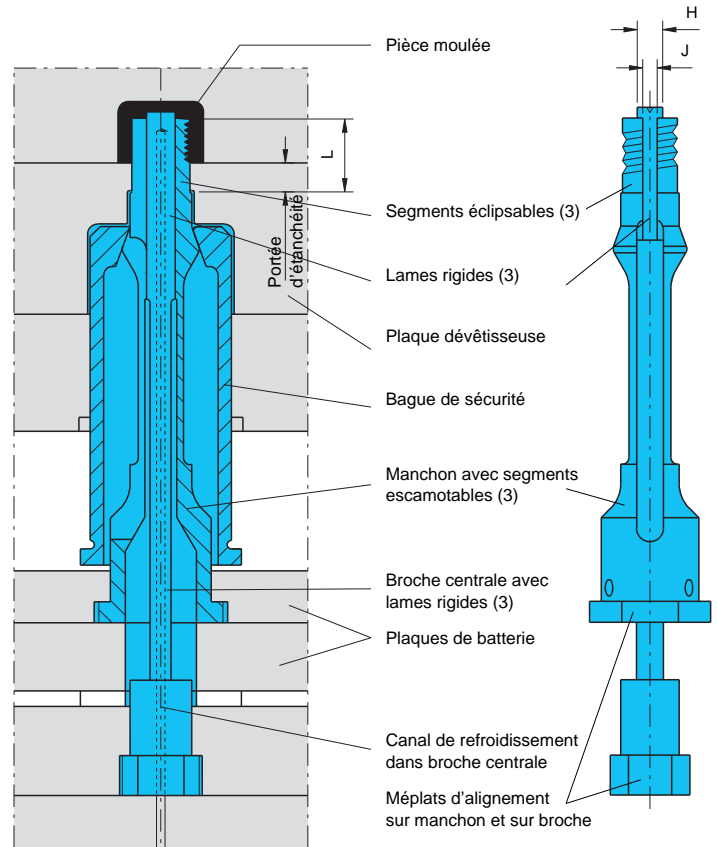
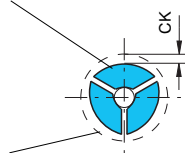
Mini noyaux éclipseables



Déployé



Eclipsé



Description des Mini noyaux éclipseables

Les mini noyaux éclipseables D-M-E élargissent le champs d'application des moules à noyau pour des pièces descendant jusqu'à 13 mm de diamètre. Pour ces petites dimensions, les mini noyaux utilisent 3 segments éclipseables larges combinés avec trois lames rigides étroites qui font parties intégrantes de la broche centrale. Il en résulte que l'on peut mouler des filets ou des rainures sur 80 % de la circonférence. La conception du noyau permet aussi d'interrompre le pas de vis à n'importe quelle hauteur de la pièce moulée, une sortie de filet en haut du noyau n'étant pas nécessaire comme pour les moules à dévissage. Si un joint est requis en haut de la fermeture, un logement en rainure peut être moulé dans la pièce pour maintenir ce joint. L'action d'éclipseage permet aussi des surfaces filetées

longues sans allonger les cycles ou nécessiter des mécanismes à crémaillère. En plus des filetages, d'autres configurations telles que dépouilles, cavités ou embrèvements, que ne permettent pas de faire les moules à dévisser, peuvent être réalisées avec succès. Trois dimensions standards de mini noyaux éclipseables sont disponibles pour 13-16 mm, 17-20 et 21-24 mm.

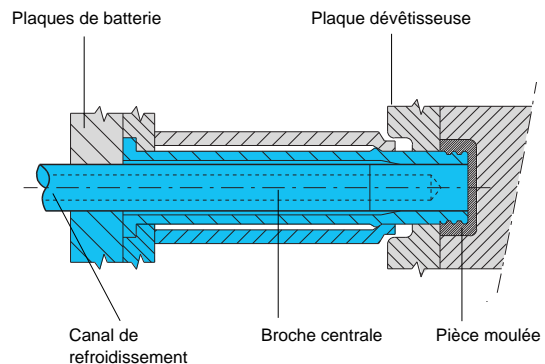
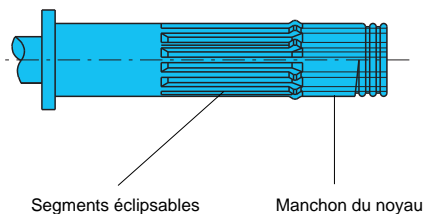
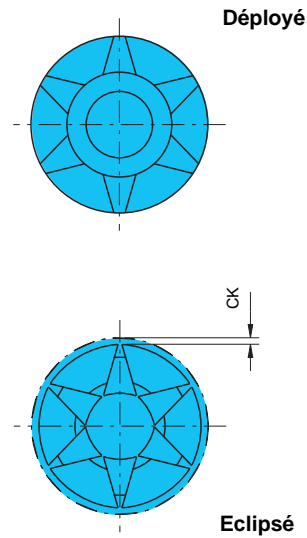
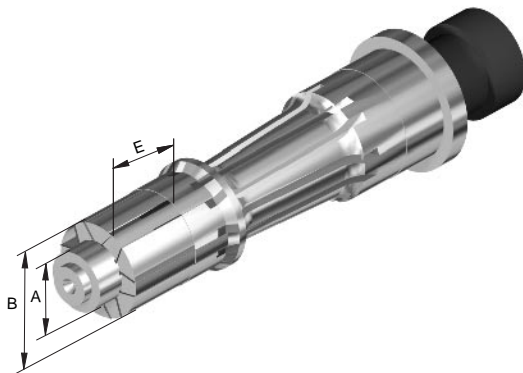
Note: Noyaux éclipseables avec des diamètres, des longueurs, des retraits et nombre de segments spéciaux seront offerts sur demande.

* Pour déterminer la profondeur maximum de dépouille, réduire la valeur de retrait indiquée au tableau de 0,05 mm par 25,4 mm de hauteur de pièce à dégager par éclipse.

REF.	Gammes de diamètre des noyaux	A Dia intérieur min. du filetage		B Dia extérieur max. du filetage		H Dia de la broche centrale		J Largeur des lames fixes (au sommet)		E Longueur maximum de moulage (y compris portée d'étanchéité)		CK Retrait par côté (au sommet)*	
		mm	pouces	mm	pouces	mm	pouces	mm	pouces	mm	pouces	mm	pouces
CCM-0001	13-16	.425	10.80	.645	16.38	.300	7.62	.170	4.32	.850	21.6	.052	1.32
CCM-0002	17-20	.560	14.22	.805	20.45	.420	10.67	.190	4.83	.850	21.6	.057	1.45
CCM-0003	21-24	.710	18.03	.965	24.51	.560	14.22	.200	5.08	.900	25.4	.059	1.50

CC

Noyaux éclipseables



Description générale des noyaux éclipseables

Les noyaux éclipseables représentent une conquête majeure dans le domaine du moulage des pièces plastiques comportant des filets intérieurs, des évidements, des protubérances ou des contre-dépouilles. Cet outil breveté se compose uniquement de 3 pièces et leur déplacement relatif utilise les mouvements conventionnels du moule.

Le fonctionnement du noyau éclipseable ne nécessite ni crémaillère, ni roues dentées, ni mécanismes compliqués. Du fait de la simplicité de la conception du noyau éclipseable, les dessins des moules et leur construction sont largement simplifiés, ce qui entraîne nécessairement une diminution de leurs coûts. Le noyau éclipseable permet de produire des pièces qui, jusqu'à ce jour, étaient considérées comme impossibles à mouler. Les pièces comportant des protubérances, des évidements, des filets interrompus ou des découpes intérieures, peuvent actuellement être produites de façon économique.

Pour les pièces filetées conventionnelles, le noyau éclipseable autorise des cycles plus rapides. Le point important est la suppression des mécanismes de dévissage, ce qui permet de réduire la durée des cycles de moulage d'au moins 30 % et engendre une réduction du prix de la pièce.

Les détails techniques complets, ainsi que la construction du moule de la plaque de dévêtissage, les indications pour la rectification de la broche centrale et usinages de la broche et du moule sont réunies dans une brochure séparée.

Le noyau éclipseable est disponible en 6 diamètres standards de 32,25 mm à 89,78 mm. 23 mm est le diamètre minimal intérieur du filetage pouvant être moulé avec un noyau éclipseable et son éclipseage effectif max. au rayon varie de 1,09 mm par côté pour le plus petit à 3,55 mm par côté pour le plus grand noyau éclipseable.

REF.	A Diamètre min. de la pièce à fond de filet		B Diamètre max. extérieur du filetage		E Longueur max. de moulage (y compris portée d'étanchéité)		CK Contre-dépouille max. de la pièce	
	mm	pouces	mm	pouces	mm	pouces	mm	pouces
CC 250 PC	23,11	.910	32,25	1.270	24,76	.975	1,09	.043
CC 252 PC	25,65	1.010	35,30	1.390	24,76	.975	1,39	.055
CC 352 PC	32,25	1.270	44,19	1.740	31,11	1.225	1,72	.068
CC 402 PC	40,46	1.593	55,42	2.182	38,98	1.535	2,28	.090
CC 502 PC	52,32	2.060	71,12	2.800	44,45	1.750	2,92	.115
CC 602 PC	66,29	2.610	89,78	3.535	53,97	2.125	3,55	.140

CC

Noyaux éclipseables Dimensions et caractéristiques

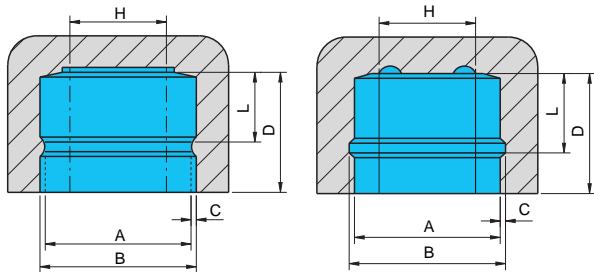


Figure 1

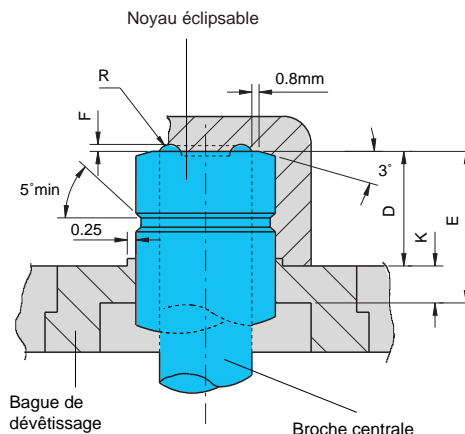


Figure 2

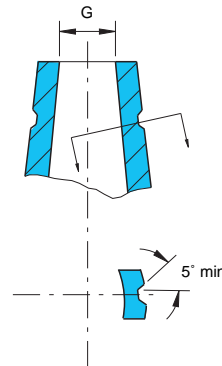


Figure 3

Tableau 1

Noyaux éclipseables	250	252	352	402	502	602
'A' Diamètre min de la pièce	23.11-'S'	25.65-'S'	32.25-'S'	40.46-'S'	52.32-'S'	66.29-'S'
'B' Diamètre max de la pièce	32.25-'S'	35.30-'S'	44.19-'S'	55.42-'S'	71.12-'S'	89.78-'S'
'C' Contre dépouille max de la pièce à la position (voir texte)	1,09- (0.02'L' + 0.5'S')	1,39- (0.02'L' + 0.5'S')	1,72- (0.02'L' + 0.5'S')	2,28- (0.02'L' + 0.5'S')	2,92- (0.02'L' + 0.5'S')	3,55- (0.02'L' + 0.5'S')
'D' Profondeur max. de la pièce (voir texte)	24.76-'K'	24.76-'K'	31.11-'K'	38.98-'K'	44.45-'K'	53.97-'K'
'E' Long. ajust. du noyau y compr. la portée d'étau. (min)	24.76	24.76	31.11	38.98	44.45	53.97
'F' Protubérance min de la tige centrale (v. texte)	0.4	0.4	0.5	0.8	0.9	1.1
'G' Diamètre nominal intérieur du noyau éclipse - Fig. 3	10.16	11.93	14.98	18.41	24.00	30.48
'H' Diamètre nominal de la face de la broche	19.93	22.47	28.06	35.25	44.45	55.24
'K' Longueur minimum de la portée d'étanchéité	4.00	4.00	4.00	5.1	6.35	6.35
'R' Rayon en bout de tige - Fig. 2	0,20-0,25	0,25-0,30	0,25-0,35	0,30-0,35	0,35-0,40	0,50-0,80
'S' Retrait de matière	'S' = Retrait de matière (%) x diamètre de la pièce (mm)					

Matière en traitement

- La broche centrale est en acier 1.2436 de haute qualité, trempé à une dureté de 60-65 HRC. Broche centrale et noyau forment un ensemble et ne sont pas interchangeables car la broche et le noyau sont assemblés et rectifiés ensemble.
- Le noyau éclipseable est fabriqué dans un acier 1.2510 (AISI 01) trempé à 55-60 HRC. Un numéro de série est gravé sur la broche et le noyau. Il faut toujours s'assurer qu'il est identique sur les deux pièces avant de procéder à leur usinage.
- La bague de sécurité est fabriquée dans un acier à outils, trempé à 55 +/- 5 HRC. La bague de sécurité est destinée à assurer l'éclipsage systématique après sortie de la broche centrale, elle assure une sécurité de fonctionnement.

Pièces en matière plastique réalisables avec le noyau éclipseable ?

Toutes les matières thermo-plastiques (excepté PVC) y compris les matières chargées, ont été moulées avec succès avec le noyau éclipseable.

Etude de la pièce

La méthode suivante est pour déterminer si la pièce peut être moulée avec un noyau éclipseable.

- Calculer le retrait de la pièce 'S' correspondant à son diamètre 'S' = diamètre de la pièce x retrait (%).
- Vérifier si le diamètre minimum de la pièce 'A' n'est pas inférieur à la valeur 'A min' (voir tableau 1, fig. 1).
- Vérifier si le diamètre 'B' de la pièce ne dépasse pas 'B max' (voir tableau 1, fig. 1).
- Déterminer si la contre-dépouille 'C' exigée par la conception de la pièce, ne dépasse pas l'éclipsage disponible standard indiqué dans le tableau 1. L'éclipsage maximum par côté, indiqué par ce tableau est celui des noyaux standards. Ces noyaux peuvent être éventuellement obtenus avec l'éclipsage CK max du tableau ci-dessous mais leur fourniture réclame un délai.

Type
CC 250 PC

CK Max
1,21 mm

CC 252 PC	1,62 mm
CC 352 PC	2,10 mm
CC 402 PC	2,61 mm
CC 502 PC	3,17 mm
CC 602 PC	3,76 mm

En position éclipsee, les segments plient vers l'intérieur à une distance d'environ 1,14° de l'extrémité. L'éclipsage disponible diminue par côté de la face du noyau vers l'arrière d'une valeur de 0,02 mm tous les mm. A l'étude de la pièce, la protubérance max. doit être calculée en utilisant la formule: $0,02 \times 'L'$. Par exemple: un noyau ayant un éclipsage de 2,03 à la face des segments, aura seulement 1,52 à 25,4 de celle-ci $[= 2,03 - (0,02 \times 25,4)]$. Sur cette base, il faut prévoir que l'éclipsage diminue en fonction de la profondeur de la pièce.

- Vérifier si la profondeur 'D' de la pièce ne dépasse pas la valeur du tableau. La dimension 'K min' du tableau doit être égale ou supérieure à 'K min' (voir tableau 1, fig. 1). Sous réserve de disponibilité 'D max' est, pour le noyau standard, la suivante:

CC 250 PC	29,21 - 'K'	CC 402 PC	43,18 - 'K'
CC 252 PC	29,21 - 'K'	CC 502 PC	48,26 - 'K'
CC 352 PC	35,56 - 'K'	CC 602 PC	60,90 - 'K'

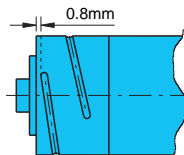
K = portée minima recommandée de la plaque de dévêtissage 'K min' est indiquée dans le tableau 1 (exemple CC 250 PC - 'K' = 4,0 mm min). Si on ne peut, en raison du dessin de votre pièce, respecter ces indications, s.v.p. contacter le bureau D-M-E le plus proche.

Il est nécessaire d'observer les détails suivants pour la bonne réalisation de la pièce.

- La broche doit dépasser la face du noyau (voir fig. 2) d'au moins la valeur 'F' (voir tableau 1). Une valeur plus importante que 'F min' est acceptable mais 'F max' est recommandée. Pour 'F min' et 'F max' voir plan resp. noyaux éclipseables. Le rayon 'R' est très important. Pour 'R min' et 'R max' (voir plan resp. noyaux éclipseables).
- Aucune gravure ou contre-dépouille ne doit être faite sur la face de la broche car ceci pourrait em-

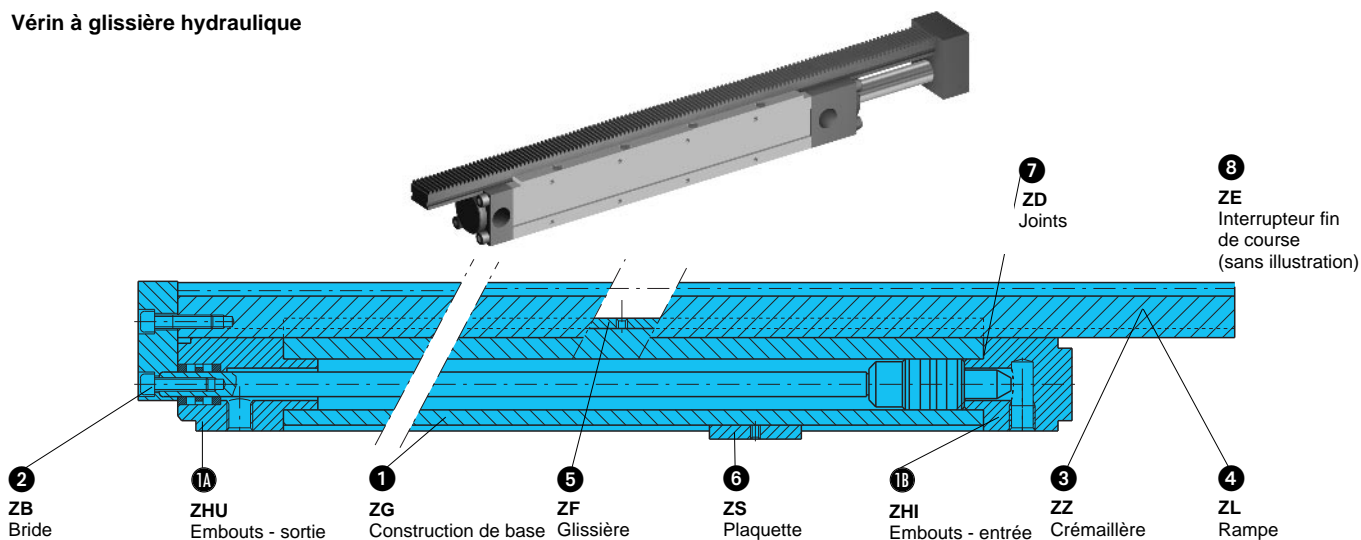
pêcher le mouvement de rétraction du noyau éclipseable.

- Néanmoins, s'il y a des gravures qui sont faites sur la face de la broche, elles ne doivent pas intervenir dans le mouvement radial des segments qui doit rester libre. Elles doivent être localisées vers l'avant de la face ou comprises dans un diamètre inférieur au diamètre 'G' du noyau rétracté (voir tableau 1, fig. 3, 4 mm max - voir plan resp. des noyaux éclipseables). Les usinages dans la broche centrale doivent tenir compte du circuit de refroidissement à moins qu'une broche spéciale ne soit fournie.
- La face du noyau doit avoir une inclinaison minimum de 3° à partir de 0,8 mm du diamètre de la broche centrale. Une inclinaison plus grande est préférable, si possible, surtout si 'B' est près de 'B max' (par exemple 4 à 5°).
- Toute gravure ou contre dépouille devrait avoir un angle de démoulage de 5° (voir tableau 1, fig. 3) ou plus si possible. Noter qu'en cas de filets interrompus, un angle de démoulage latéral est aussi recommandé d'au moins 5°.
- En fin de cycle, il faut prévoir la tenue de la pièce moulée pour qu'elle reste centrée sans glisser ni frotter sur le noyau éclipseable. Ceci peut se faire avec une collerette de centrage (0,25 x 0,25 min) sur la face de la plaque de dévêtissage. A la fin de la course de dévêtissage un choc dégage la pièce de la collerette et lui permet de tomber hors du moule. La pièce ne doit pas s'accrocher au noyau éclipseable (voir détail 'Y' du plan noyau éclipseable).
- Comme cela se fait en général, il faut supprimer les angles vifs intérieurs de façon à éviter la concentration de tension dans l'acier.



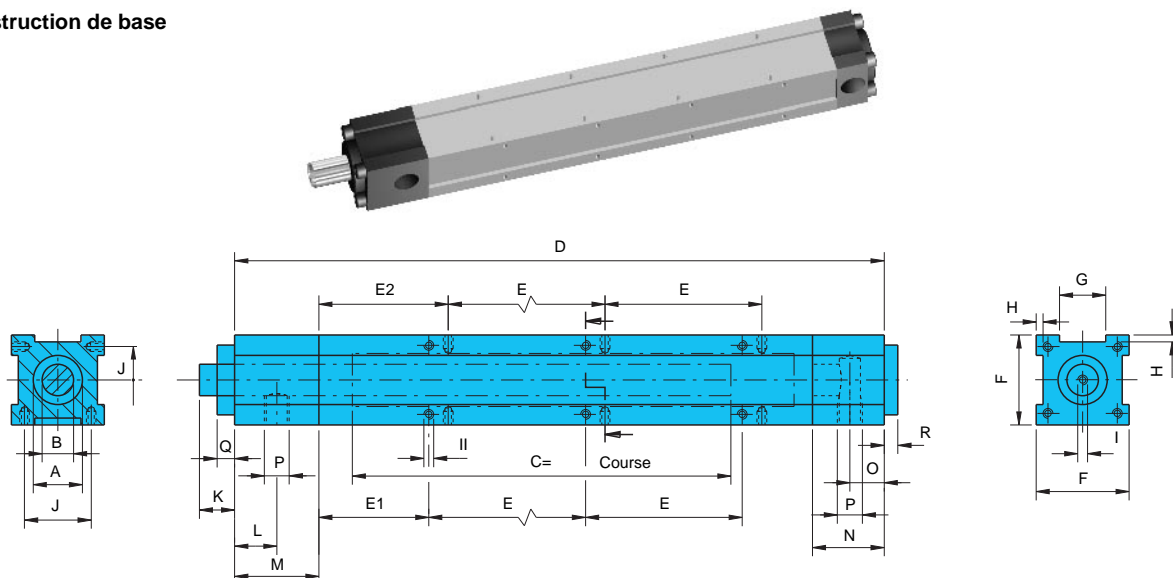
ZB - ZHU - ZG - ZF - ZS - ZHI - ZZ - ZL - ZD - ZE

Vérin à glissière hydraulique



ZG

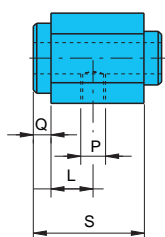
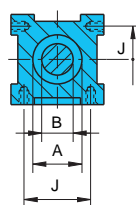
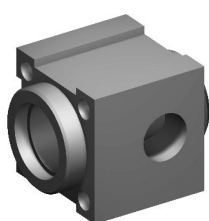
1 Construction de base



REF.	A	B	C	D	E	E1	E2	F	G	H	J	K	L	M	N	O	P	Q	R	I	II
ZG-25-300			300	424	3x80	56	66														
-400	ø 25	ø 16	400	524	3x80	106	116	46	20	3,5	34	18	21,5	43	29	11	R 1/4"	9	6	M 8x20	SM 5x10
-500			500	624	5x80	76	86														
ZG-40-300			300	432	3x80	56	66														
-400	ø 40	ø 22	400	532	3x80	106	116	56	30	3,5	44	22	34	53	27	13	R 1/2"	9	8	M 10x30	SM 5x10
-500			500	632	5x80	76	86														
ZG-63-400			400	556	3x80	114	124	96	50	8	70	38	25	52	35	16	R 3/4"	22	12	M 16x40	SM 8x16
-500	ø 63	ø 36	500	656	5x80	84	94														

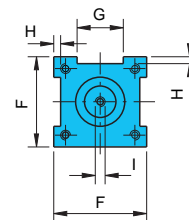
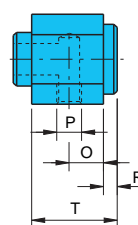
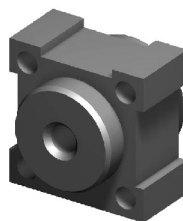
ZHU

1A Embouts - sortie



ZHI

1B Embouts - entrée



REF.	L	Q	P	S
ZHU-25	21,5	9	R 1/4"	52
-40	34	9	R 1/2"	62
-63	25	22	R 3/4"	74

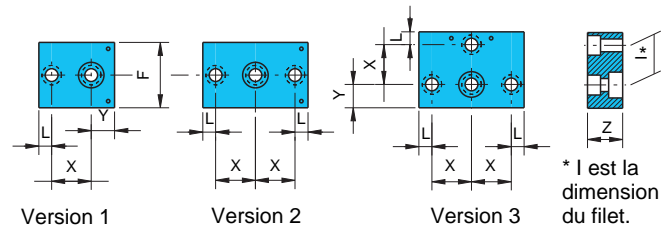
REF.	O	R	P	T
ZHI-25	11	6	R 1/4"	35
-40	13	8	R 1/2"	35
-63	16	12	R 3/4"	47

ZB - ZHU - ZG - ZF - ZS - ZHI - ZZ - ZL - ZD - ZE

Vérins à glissière hydraulique

ZB

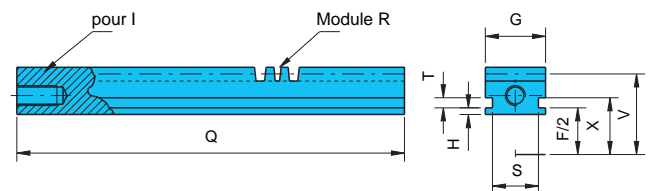
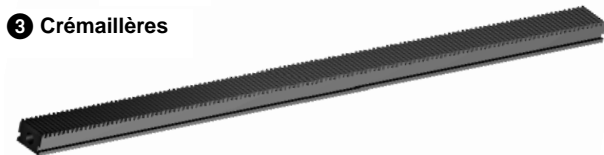
2 Brides



REF.	A	X	Y	F	Z	L	I
ZB-25-1	ø 25	27	12,5	46	20	10,5	M 8x20
-2							
-3							
ZB-40-1	ø 40	34	20	56	30	11	M 10x30
-2							
-3							
ZB-63-1	ø 63	55	30	96	40	15	M 16x40
-2							
-3							

ZZ

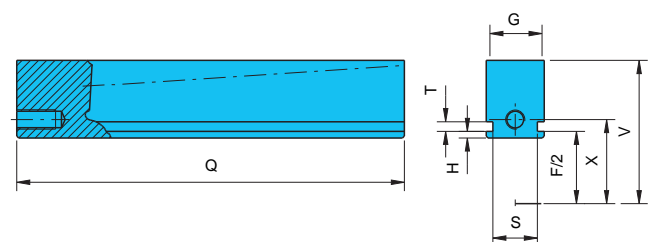
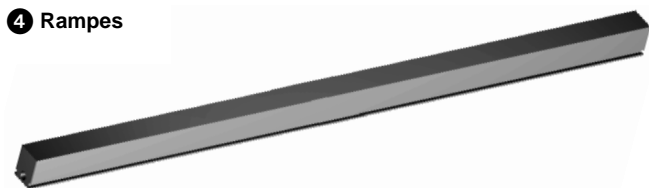
3 Crémaillères



REF.	A	F/2	G	H	Q	R	S	T	V	X	I
ZZ-25-600/1,0	ø 25	23	20	3,35	600	1,0	13	5	36,2	27	M 8x20
-800/1,0					800						
-600/1,25					600	1,25					
-800/1,25					800						
ZZ-40-600/1,5	ø 40	28	30	3,5	600	1,5	23	5	43	34	M 10x30
-800/1,5					800						
ZZ-63-600/2,0	ø 63	48	50	8	800	2,0	40	7	68	55	M 16x40
-900/2,0					900						

ZL

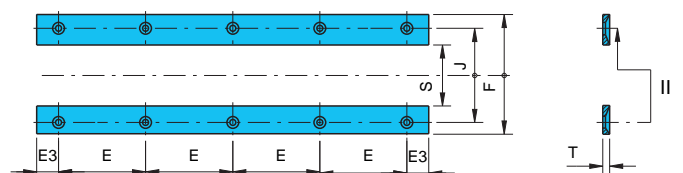
4 Rampes



REF.	A	F/2	G	H	Q	S	T	V	X	I
ZL-25-800	ø 25	23	20	3,5	800	13	5	49,5	27	M 8x20
ZL-40-800	ø 40	28	30	3,5	800	23	5	64,5	34	M 10x30
ZL-63-900	ø 63	48	50	8	900	40	7	100	55	M 16x40

ZF

5 Glissières



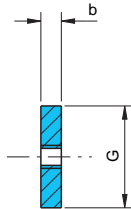
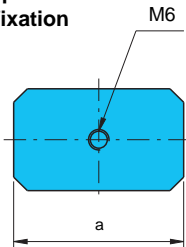
REF.	A	C	E	E3	F	J	S	T	II
ZF-25-300	ø 25	300	3x80	46	46	34	14	4	SM 5x10
-400		400	3x80	96					
-500		500	5x80	66					
ZF-40-300		300	3x80	46					
-400	ø 40	400	3x80	96	56	44	24	4	SM 5x10
-500		500	5x80	66					
ZF-63-400		400	3x80	104	96	70	42	6	SM 8x16
-500	ø 63	500	5x80	74					

ZB - ZHU - ZG - ZF - ZS - ZHI - ZZ - ZL - ZD - ZE

Vérins à glissière hydraulique

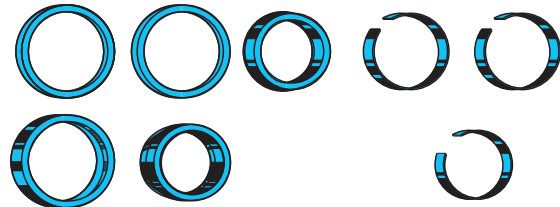
ZS

6 Plaquettes de fixation



ZD

7 Joints

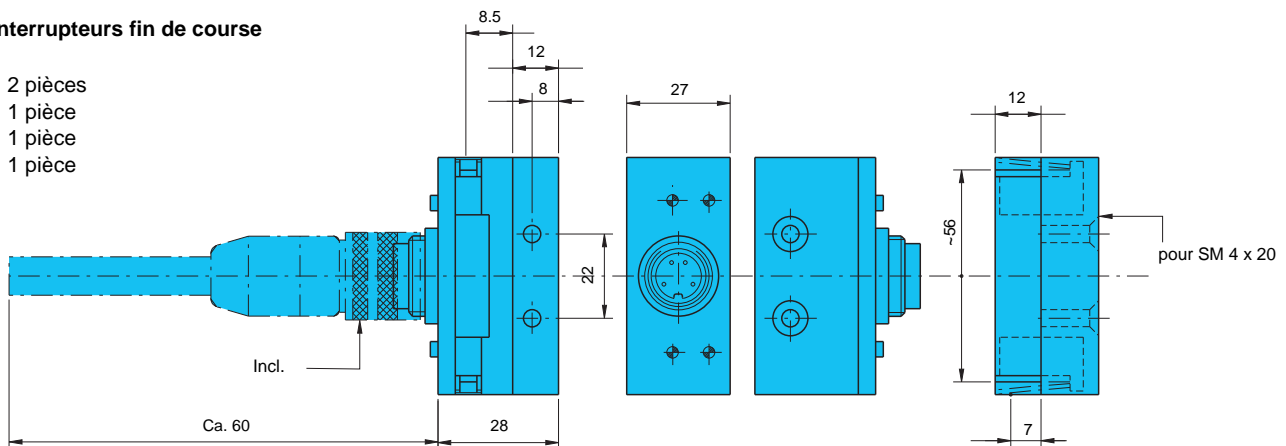


REF.	A	G	a	b	REF.
ZS-25	ø 25	20	40	6	ZD-25
ZS-40	ø 40	30	50	6	ZD-40
ZS-63	ø 63	50	80	15	ZD-63

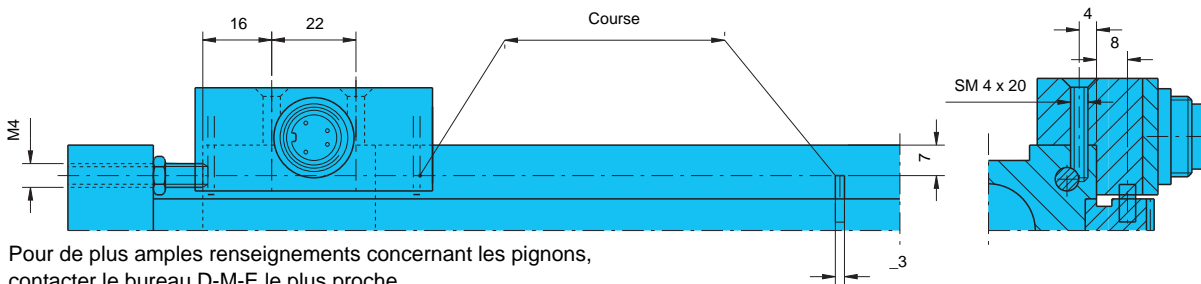
ZE

8 Interrupteurs fin de course

Incl. 2 pièces
1 pièce
1 pièce
1 pièce



Détails pour l'installation de l'interrupteur fin de course **ZE-25/40**



Pour de plus amples renseignements concernant les pignons, contacter le bureau D-M-E le plus proche.

Exemple de calcul

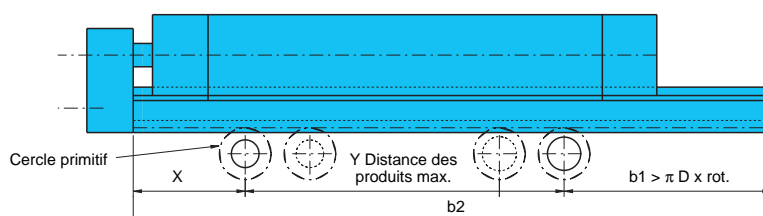
A. Course

a. Nombre de tours de noyaux dévissers
= $\frac{\text{hauteur fileté}}{\text{pas}}$ + sécurité (min. 0,5 tours)
= $\frac{12 \text{ mm}}{3 \text{ mm}}$ + 0,5 tours = 4,5 tours

b. 1. Course du vérin à glissière nécessaire (mm)
= diamètre primitif x π x tours
= 30 mm x 3,14 x 4,5 tours = 424 mm
Utiliser un pignon démultiplicateur si la course est trop grande.

2. Longueur de la crémaillère
 $b2 = X + Y + b1$

c. Course de dévissage (mm)
= course du vérin à glissière standard - course du vérin à glissière nécessaire.
= 500 mm - 424 mm = 76 mm



ZB - ZHU - ZG - ZF - ZS - ZHI - ZZ - ZL - ZD - ZE

Vérins à glissière hydraulique

B. Calcul des cames

d. Calcul de la pente de la rampe oblique (α)

$$\tan \alpha = \frac{\text{pas}}{\text{diam. cercle primitif} \times \pi}$$

$$\tan \alpha = \frac{3 \text{ mm}}{30 \text{ mm} \times 3,14} = 0,031847$$

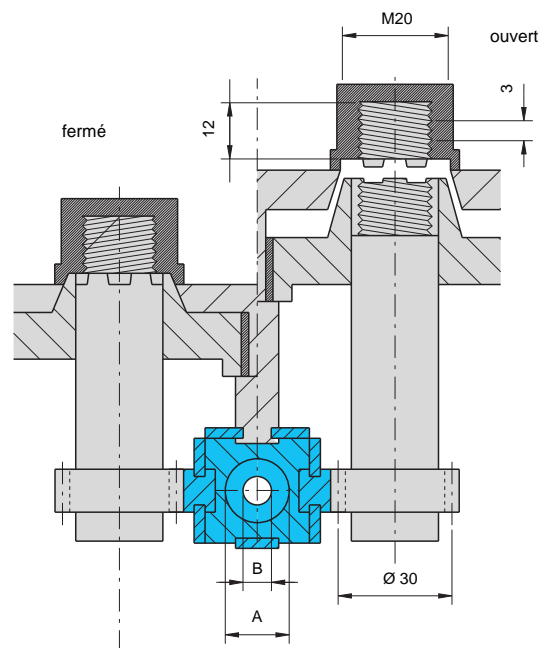
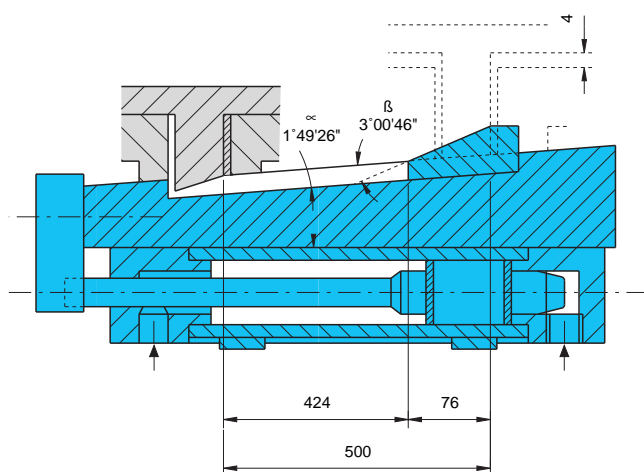
$$\alpha = 1^{\circ}49'26''$$

e. Calcul de l'angle de pente de la came (β)

$$\tan \beta = \frac{\text{hauteur de ceinture}}{\text{éjection en fin de course d'inviolabilité}}$$

$$\tan \beta = \frac{4 \text{ mm}}{76 \text{ mm}} = 0,0526315$$

$$\beta = 3^{\circ}00'46''$$



C. Coupe nécessaire pour effectuer le dévissage

Note: utiliser ces chiffres uniquement à titre indicatif car plusieurs autres éléments peuvent influencer le calcul (matériel, variation des dimensions, valeur de retrait de la matière plastique, surface moulante, température, lubrifiant etc...)

f. Pression résiduelle de moulage (bar)
1/100 de la pression d'injection affichée
 $= \frac{1000 \text{ bar}}{100} \approx 10 \text{ bar} \approx 1 \text{ N/mm}^2$

g. Surface moulante (mm²)
= diamètre filet x π x hauteur filetée x 2*
= 20 mm x 3,14 x 12 mm x 2 = 1507 mm²

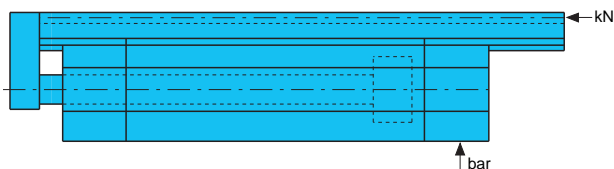
* - 2 x hauteur pour surface développée (ΛΛΛ)
- Surface frontale négligée

h. Moment résistant de dévissage (Nmm)
= Pression résiduelle de moulage x surface moulante x rayon sur sommet de filet
= 1 Nmm² x 1507 mm² x 10 mm = 15070 Nmm

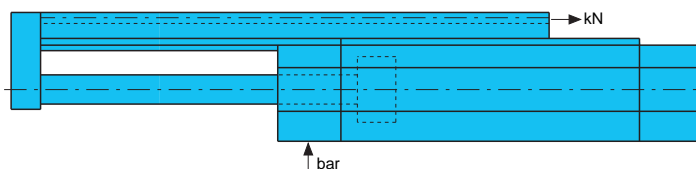
i. Effort au niveau de la crémaillère (kN)
= Mom. résist. de dévissage x nombre d'empreintes
= $\frac{15070 \text{ Nmm}}{15 \text{ mm}} \times 4 = 4019 \text{ N} = 4,02 \text{ kN}$

k. Force de poussée du vérin nécessaire (kN)
= Effort au niveau de la crémaillère x 1,5
= 4,02 kN x 1,5 = 6,03 kN (50 % facteur de sécurité, d'où x 1,5)

Course de travail



Course de retour



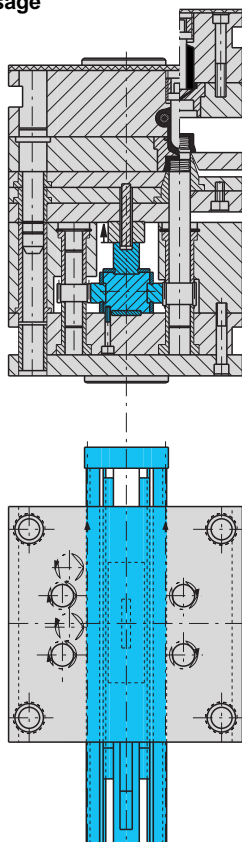
80	100	120	140	150	bar	A	B	bar	80	100	120	140	150
3,9	4,9	5,9	6,8	7,4	kN	ø 25	ø 16	kN	2,3	2,9	3,5	4,1	4,4
10,0	12,5	15,1	17,6	18,7		ø 40	ø 22		7,0	8,8	10,5	12,2	13,2
24,9	31,1	37,4	43,6	46,6		ø 63	ø 36		16,8	21,0	25,2	29,3	31,5

Les dimensions sont uniquement valables pour le présent exemple.

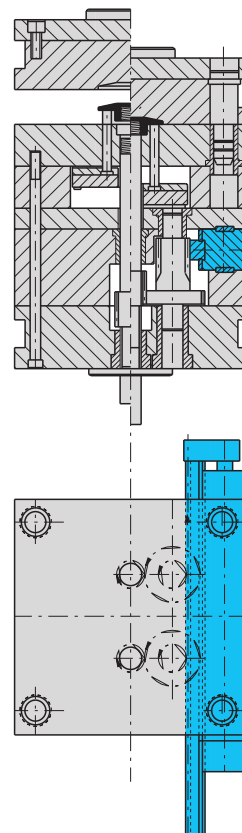
ZB - ZHU - ZG - ZF - ZS - ZHI - ZZ - ZL - ZD - ZE

Vérins à glissière hydraulique

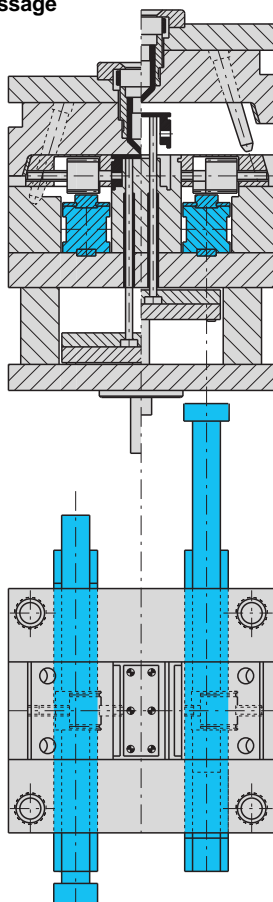
Sans recul au dévissage
avec rampe oblique



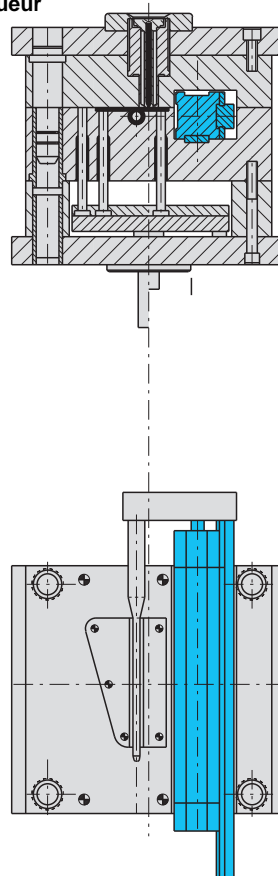
Avec recul au dévissage



Avec recul au dévissage



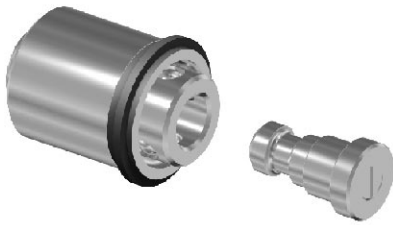
Noyau de grande longueur



Composants d'application technique

AR

Attelages rapides d'éjection hydraulique



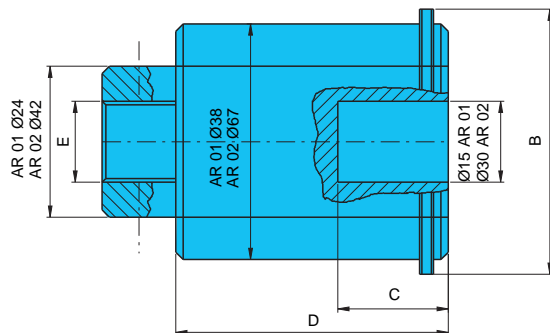
Economique

- en réduisant les temps de démontage de moules
- une seule installation par presse

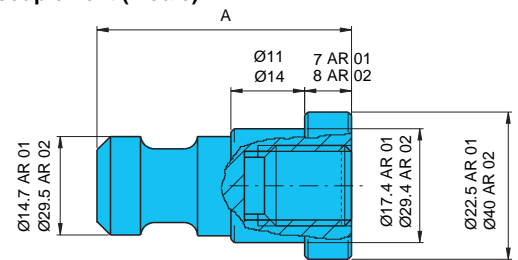
Universel

- peut être intégré dans un moule existant
- résiste jusqu'à une charge de 160 kN
- permet le rappel hydraulique
- éjection multiple possible

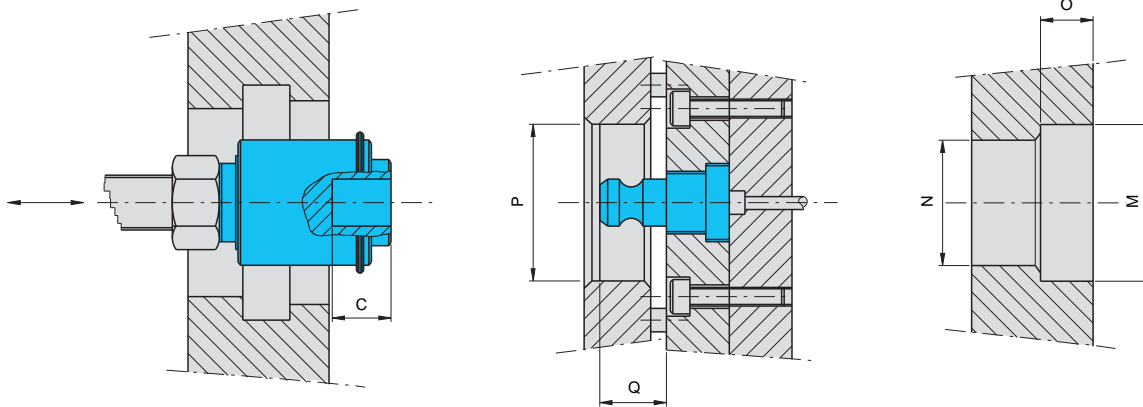
Attelage rapide (presse)



Cheville d'accouplement (moule)



REF.	Description
AR 01 resp. 02	Attelage rapide (cheville comprise)
AR 01 P resp. 02 P	Cheville d'accouplement

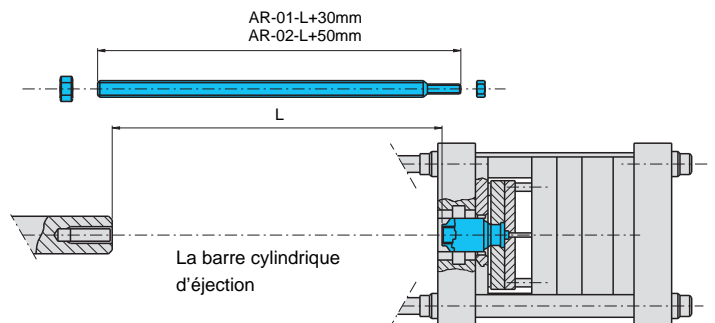


REF.	A	B	C	D	E	M	N	O	P min	Q min	kN
AR 01	38 ±0,05	43 ±0,1	18 ±0,02	43,5 ±0,1	M 12	23	18	7 ±0,05	48	C ⁺¹	40
AR 02	43 ±0,05	73 ±0,1	24 ±0,02		M 16	42	32		80	C ⁺¹	160

Installation

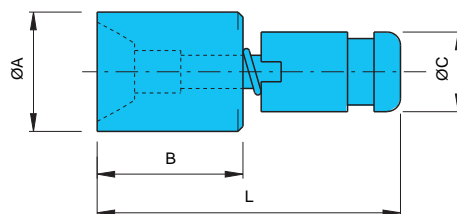
1. Placer la plaque d'éjection en position de moulage (moule fermé).
2. Placer aussi la barre cylindrique d'éjection en position complètement rétractée. Il est important de vérifier à la main que la barre soit bien poussée en arrière complètement à fond de course avant de mesurer.
3. Mesurer la distance entre l'attelage et la barre cylindrique d'éjection.
4. Repousser la barre cylindrique d'éjection avec une barre poussoir supplémentaire de la longueur mesurée + 30 mm pour AR-01 et 50 mm pour AR-02.
5. Déplacer la plaque d'éjection du moule à la position avant (moule ouvert).
6. Bloquer, et la barre poussoir supplémentaire, et à l'autre extrémité, l'attelage rapide.
7. Replacer la plaque éjectrice du moule en arrière en position moule fermé et accoupler la plaque éjectrice et la barre cylindrique d'éjection. S'assurer que la plaque et le cylindre sont tous deux en position moule fermé dès que l'accouplement se réalise. Sinon, ajuster.

Ne pas utiliser avec les systèmes de changement rapide de moule.



VA

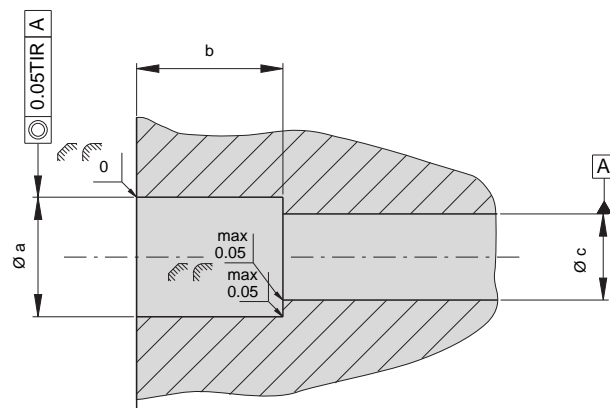
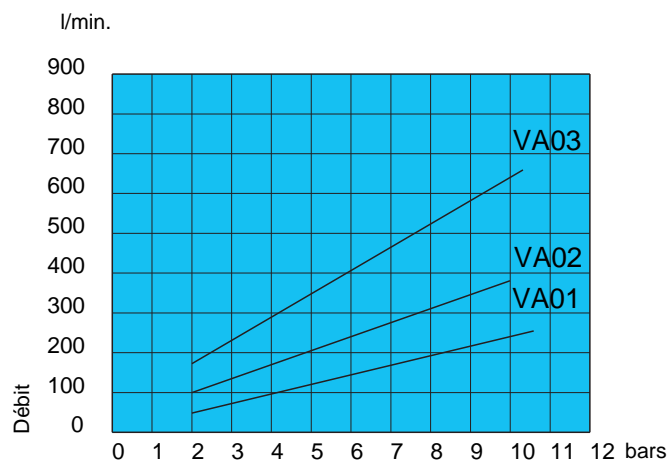
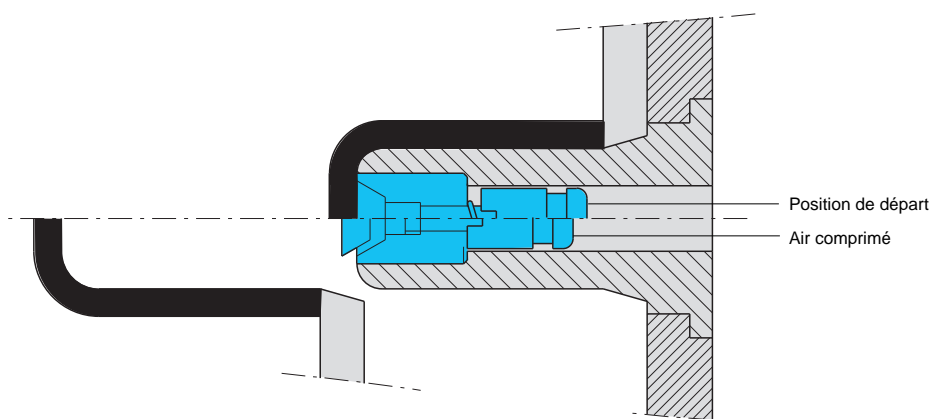
Soupapes à air



- a. S'utilise pour éviter la formation d'une sous-pression nuisible lors de l'éjection de produits allongés et fermés.
- b. De l'air comprimé peut s'utiliser pour l'éjection de produits fermés.

REF.	A	B	C	L
VA-01	8 ^{+0.018} / _{+0.007}	11 ^{+0.030} / ₀	6	24
VA-02	12 ^{+0.018} / _{+0.007}	18 ^{+0.030} / ₀	8	34
VA-03	18 ^{+0.018} / _{+0.007}	22 ^{+0.030} / ₀	12	45.5

Instructions de montage

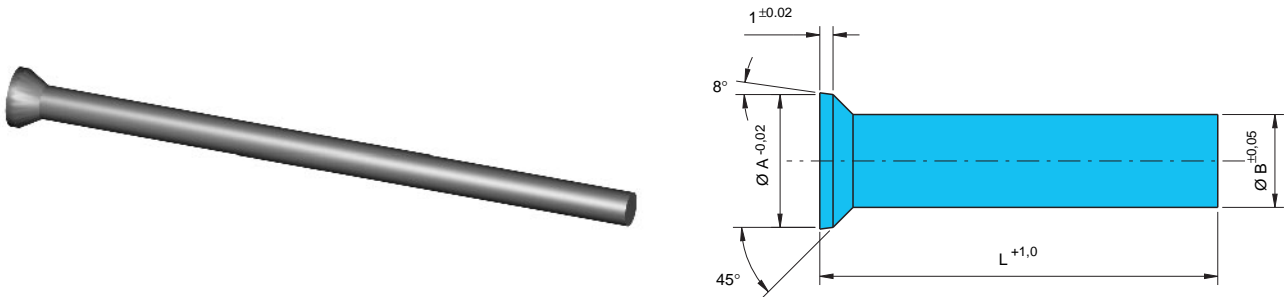


Débit d'air en fonction de la pression

REF.	a ± 0.005	b $\begin{smallmatrix} +0 \\ -0.03 \end{smallmatrix}$	c $\begin{smallmatrix} +0.2 \\ -0 \end{smallmatrix}$
VA-01	8	11	6.75
VA-02	12	18	9
VA-03	18	22	14

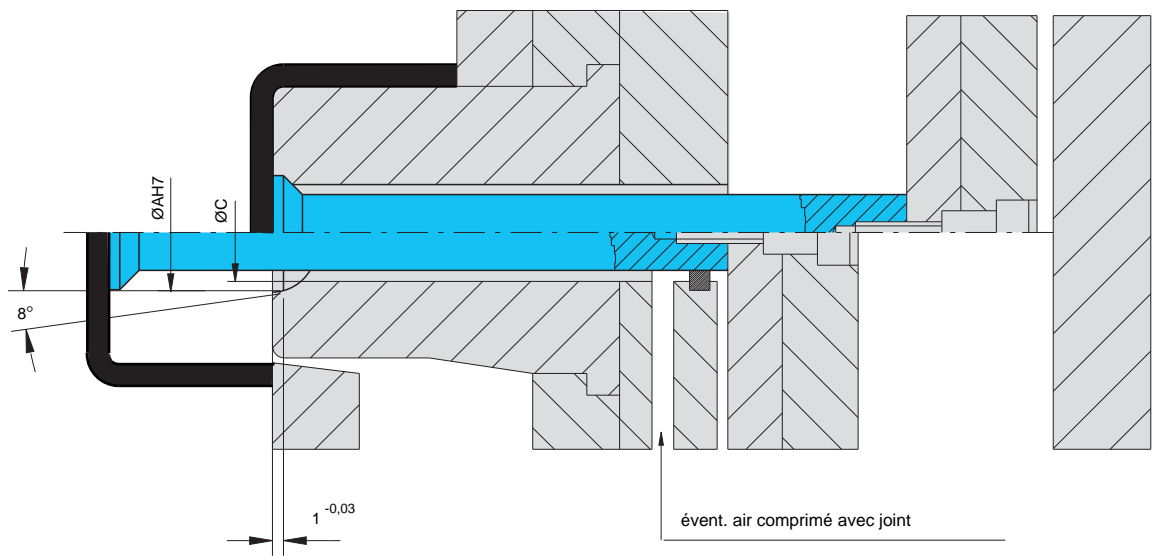
LS

Poinçons à air



Poinçon à air

- a. S'utilise pour éviter la formation d'une sous-pression nuisible lors de l'éjection de produits allongés et fermés.
- b. Eventuellement, de l'air comprimé peut s'utiliser pour l'éjection de produits fermés.



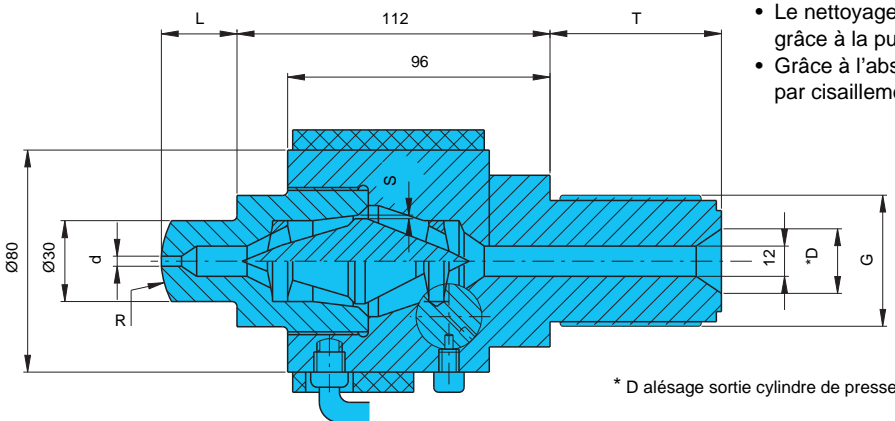
Mettre à longueur et fileter

REF.	A	B	C	L	Filet
LS-10	10	7	8	300	M 5
LS-15	15	10	11	400	M 6

FOKW-FC

Filtres buses de presse Separo

avec purge de nettoyage rapide



Applications:

- Systèmes à canaux chauds.
- Moules à 3 plaques.
- Moules avec injection 'sous-marine'.
- Plastiques chargés et ignifugés.
- Débit maximum 200 ccm/sec.

Avantages:

- Pas d'obstruction du seuil d'injection.
- Recyclage plus aisé de la matière.
- Le passage de filtrage annulaire peut être choisi de 0,2/ 0,4/0,6/0,8 à 1,0 mm.
- La chambre conique retient les impuretés et permet ainsi la continuation des opérations.
 - Les surfaces d'écoulement lisses permettent un nettoyage facile et rapide.
 - Le nettoyage est particulièrement facile sur le FOKW-FC grâce à la purge rapide.
 - Grâce à l'absence d'angles vifs, la matière n'est pas dégradée par cisaillement ou surchauffe.
 - Les changements de matière ou de couleur sont facilités par les formes simples d'écoulement.

Rapport qualité/prix

L'expérience montre que le filtre FOKW est en général amorti en six mois.

Filtre Separo non-fileté

Filtre Separo

Usiné entièrement suivant les spécifications du client.

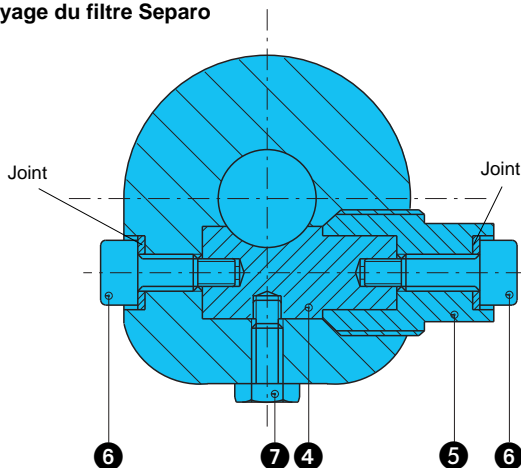
REF.	G	T	D	R	L	d	S	REF.	G	T	D	R	L	d	S
FOKW-FC-0-35 -FC-0-0	60	60	12	35 0	28 100	4	0,4	FOKW-FC-G-T-D-R-L-d-S	1)	1)	1)	1)	1)	1)	2)

1) Veuillez insérer les dimensions désirées dans le numéro de catalogue.

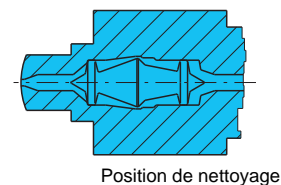
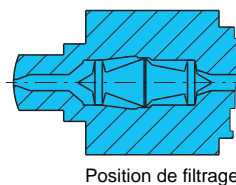
2) S = 0,2/0,4/0,6/0,8/1,0 mm

Exemple de commande: 1 Filtre Separo FOKW-FC-45 x 3-48-15-36-40-6-0,6

Nettoyage du filtre Separo



1. Défaire la vis six pans ⑥ et enlever-la.
2. Dévisser la vis d'arrêt ⑦ d'environ 4 mm.
3. A l'aide d'une clef Allen (6 mm) introduite par le trou fileté dans l'axe fileté, tourner ④ contre l'épaule en position de nettoyage (direction R).
4. Fixer l'axe en position de nettoyage en bloquant la vis supérieure ⑦ à 20 Nm.
5. Replacer la vis six pans ⑥ à 25 Nm.
6. Purger le filtre une ou deux fois.
7. Retourner en position filtre (= F) en suivant la procédure inverse.



Mise en place sur la machine:

Le filtre doit être monté avec une graisse résistante à la chaleur genre bisulfure de molybdène.
Le filtre doit être vissé à fond quand il est à température.

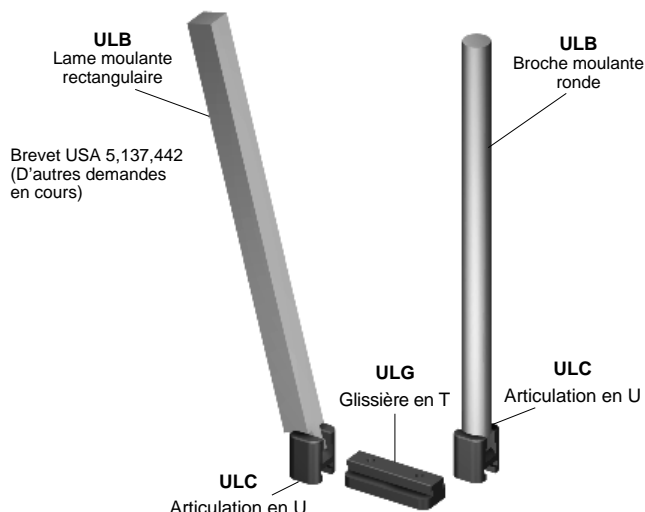
Fonctionnement:

Le filtre Separo n'est pas compliqué à l'utilisation. Ce ne peut être plus simple.
L'accumulation de déchets dans le filtre sera détectée en dernier recours, par l'apparition de défauts visibles sur les pièces. Dans ce cas, il est vivement recommandé de nettoyer le filtre, plutôt que d'augmenter la pression d'injection.

ULB - ULC - ULG

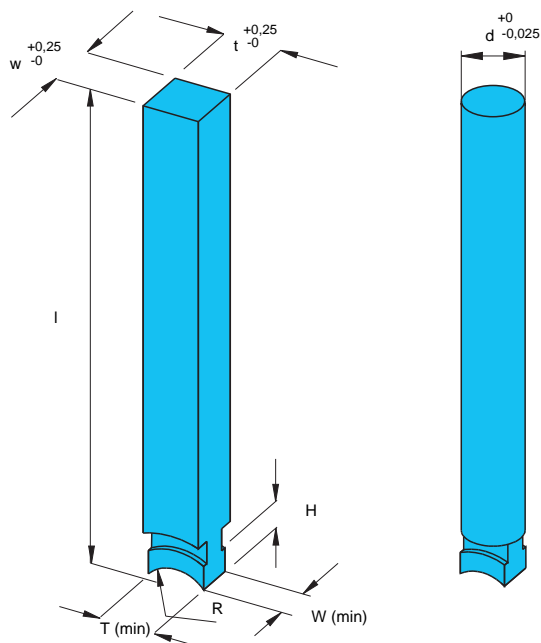
Unilifter - Système pour le démoulage de contre-dépouilles

- Ces composants standard simplifient le dessin et la construction des moules avec contre-dépouilles.
- Le concept à queue d'aronde bombée permet à la broche moulante de prendre automatiquement l'orientation requise.
- La translation de l'articulation sur la glissière est facile et rend superflue la fixation du pied de la broche.
- L'Unilifter offre une plus grande variation que d'autres systèmes similaires.
- Broche moulante en acier DME 5 (1.2344) pour un usinage facile et classique.
- Chaque Unilifter comprend une lame ou une broche moulante, une articulation en U et une glissière en T.



ULB

Lame moulante rectangulaire
Broche moulante ronde



Lame moulante rectangulaire Matière: DME 5 (1.2344, 38-42 HRC)

REF.	W min	R	H	T min	t	w	L	SERIE
ULB-1001	10	10	5	10	10	10	250	10
ULB-1002				10	15	15	250	
ULB-1003				10	20	20	400	

Broche moulante ronde Matière: DME 5 (1.2344, 38-42 HRC)

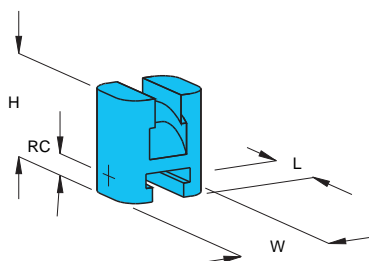
REF.	W min	R	H	T min	d	L	SERIE
ULB-1101	10	10	5	10	15	250	10

Remarques:

- L'épaisseur t et la largeur w sont fournies rectifiées avec une surépaisseur de 0,25 mm par rapport au nominal, afin de permettre l'ajustage dans un insert ou d'utiliser le nominal en cotes finies.
- Le diamètre d a une tolérance de +0/-0,025 mm afin de s'ajuster dans un trou alésé ou nominal.

ULC

Articulation en U



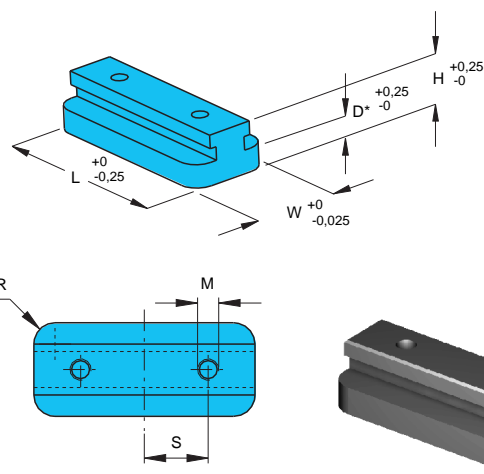
(RC: centre du rayon R)

Matière: DME 5 (1.2344) Surface: 60 - 70 HRC, dureté à cœur: 38 - 42 HRC

REF.	W	L	H	RC	R	SERIE
ULC-1001	22	18	25	6	10	10

ULG

Glissière en T



Matière: Acier 4140 traité: Surface: 60 - 70 HRC, dureté à cœur: 38 - 42 HRC

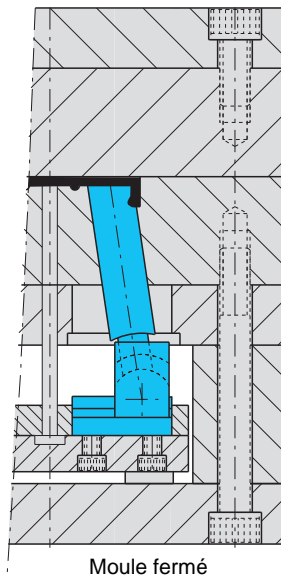
REF.	W	D*	H	R	M	S	L	SERIE	Déplacement permis
ULG-1001	22	6	13	5	M5x20	10	33	10	15
ULG-1002	22	6	13	5	M5x20	15	52	10	30

* Remarque: La glissière est livrée avec une surépaisseur de 0,25 mm sur D pour permettre l'ajustage de l'ensemble de l'Unilifter.

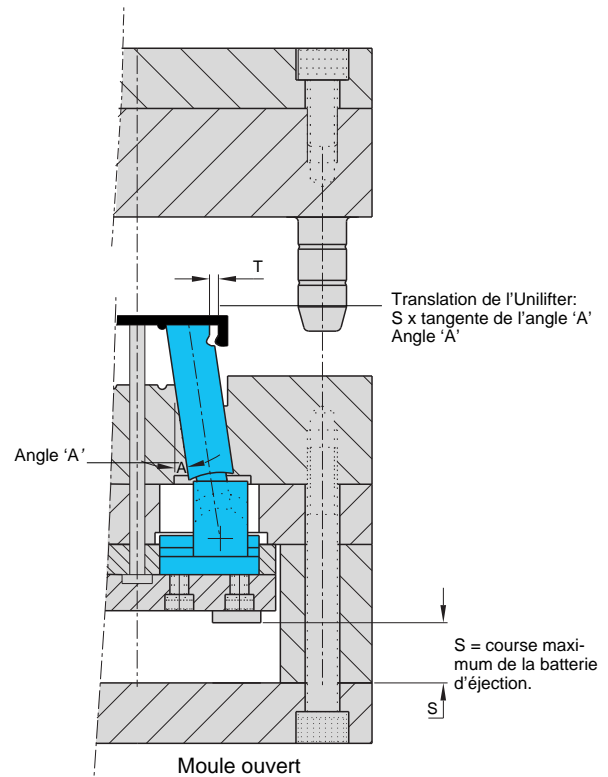
ULB - ULC - ULG

Unilifter - Système pour le démoulage de contre-dépouilles

Utilisation typique



Moule fermé



Moule ouvert

Instructions

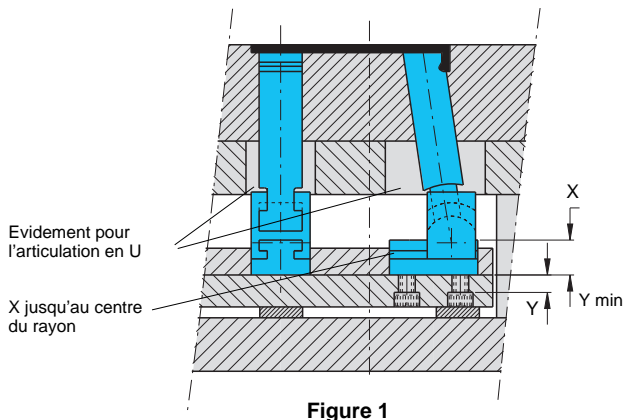


Figure 1

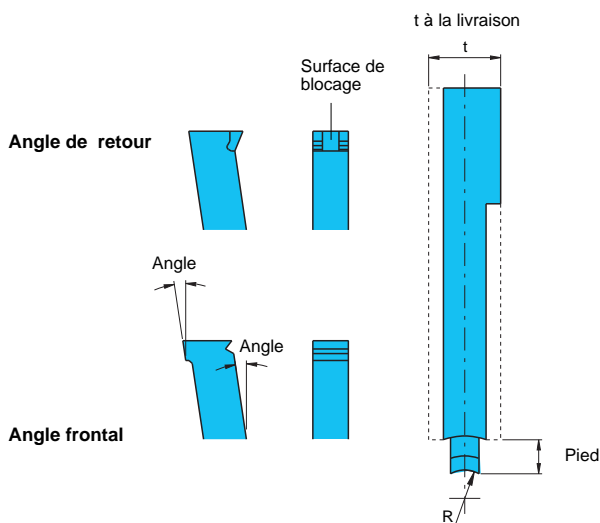


Figure 2

Exemple

1. Installation générale

Comme indiqué à la **fig. 1**, il est conseillé de monter la glissière en T sur la contre-plaque d'éjection.

Les dimensions **X** et **Y** adéquates sont les suivantes: $X=12\text{ mm}$, $Y=\text{min } 11\text{ mm}$ (**Y min** évite que les vis de montage ne bloquent le mouvement de l'articulation).

2. Inclinaison

Des inclinaisons de 5° à 10° donneront généralement les meilleurs résultats. Des angles jusqu'à 15° sont possibles en ajoutant un guidage de la broche sur le fond de la contre-plaque (guides à faire par l'outilleur).

3. Guidage de l'Unilifter

Des guides sont recommandés pour des angles de 15° (voir 2 ci-dessus), ou aussi lorsque moins de la moitié de la broche (ou lame) moulante est supportée par l'insert.

4. Guidage de l'éjection

Dans tous les cas, un guidage de la batterie d'éjection est recommandé.

5. Ajustage

Le jeu recommandé pour la broche moulante est de $0,025$ à $0,040\text{ mm}$ aux endroits appropriés.

6. Angles de blocage

Des angles ou pentes de blocage (voir **fig. 2**) peuvent être prévus afin de résister à la pression d'injection.

7. Autres dimensions sur demande.

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MCM	7-10/7-11		
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♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

Info


♥ Selection chart - ♦ Auswahltabellen - ♣ Selektietabel - ♠ Tableau de sélection

ATN




N6	ATN 9
N9	ATN 13

N




N6	N6 1/8"A
N6	N6 MA
N6	N6 1/4"A
N6	N6 3/8"A
N9	N9 1/4"A
N9	N9 3/8"A
N9	N9 MA
N9	N9 1/2"A
N16	N16 1/2"A
N16	N16 3/4"A

N



N6	N6 1/8" I
N6	N6 1/4" I
N6	N6 3/8" I
N9	N9 1/4" I
N9	N9 3/8" I
N9	N9 1/2" I


PCS



♥ For ♣ Voor
♦ Für ♠ Pour } SVK


N6	PCS 6-14-A
N6	PCS 6-38-A
N9	PCS 9-14-A
N9	PCS 9-38-A
N9	PCS 9-12-A

STN




N6	STN-9
N9	STN-13
N16	STN-19

FN



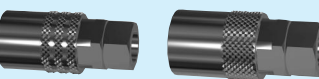
N9	FN 9 -14 A
N9	FN 9 -38 A
N16	FN 16-38 A
N16	FN 16-38 AL
N16	FN 16-12 A
N16	FN 16-12 AL

FN



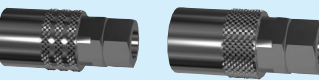
N9	FN 9 -18 I
N9	FN 9 -14 I
N16	FN 16-38 I
N16	FN 16-12 I

SVK/SK



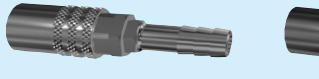
N6	SVK-200	N6	SK-200
N9	SVK-300	N9	SK-300

SVK/SK




N16	SVK-500	N16	SK-500
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SVK/SK




N6	SVK-106	N6	SK-106
N6	SVK-109	N6	SK-109
N9	SVK-111	N9	SK-111
N9	SVK-113	N9	SK-113
N16	SVK-119	N16	SK-119

SVK/SK



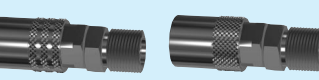
N6	SVK-206	N6	SK-206
N6	SVK-209	N6	SK-209
N9	SVK-211	N9	SK-211
N9	SVK-213	N9	SK-213
N16	SVK-219	N16	SK-219

SVK/SK




N6	SVK-306	N6	SK-306
N6	SVK-309	N6	SK-309
N9	SVK-311	N9	SK-311
N9	SVK-313	N9	SK-313
N16	SVK-319	N16	SK-319

FSVK/FSK




N6	FSVK-106 V	N6	FSK-206 V
N9	FSVK-111 V	N9	FSK-211 V
N16	FSVK-119 V	N16	FSK-219 V

SST




R 1/8"-N6	SST-12-1/8K
R 1/4"-N9	SST-14-1/4K

VL



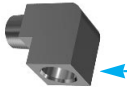
N6	VL 1/8" x 50	N9	VL 1/4" x 50
N6	VL 1/8" x 100	N9	VL 1/4" x 100
N6	VL 1/8" x 150	N9	VL 1/4" x 150
N6	VL 1/8" x 200	N9	VL 1/4" x 200

200/300




N6	200-45
N9	300-45

200/300




N6	200-90
N9	300-90

VL

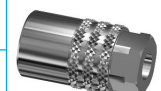


N16	VL 1/2" x 100
N16	VL 1/2" x 150
N16	VL 1/2" x 200


N/500



N16	500-19 M
-----	----------



UNEK 7/16"-N6
UNEK 5/8"-N9
Rp 1/2"-N16



UNEK 7/16"-N6
UNEK 5/8"-N9
Rp 1/2"-N16

♥Threads - ♦Gewinde - ♣Draden - ♠Filets

R = BSP ♥Tapered
♦Kegelig
♣Konisch
♠Conique

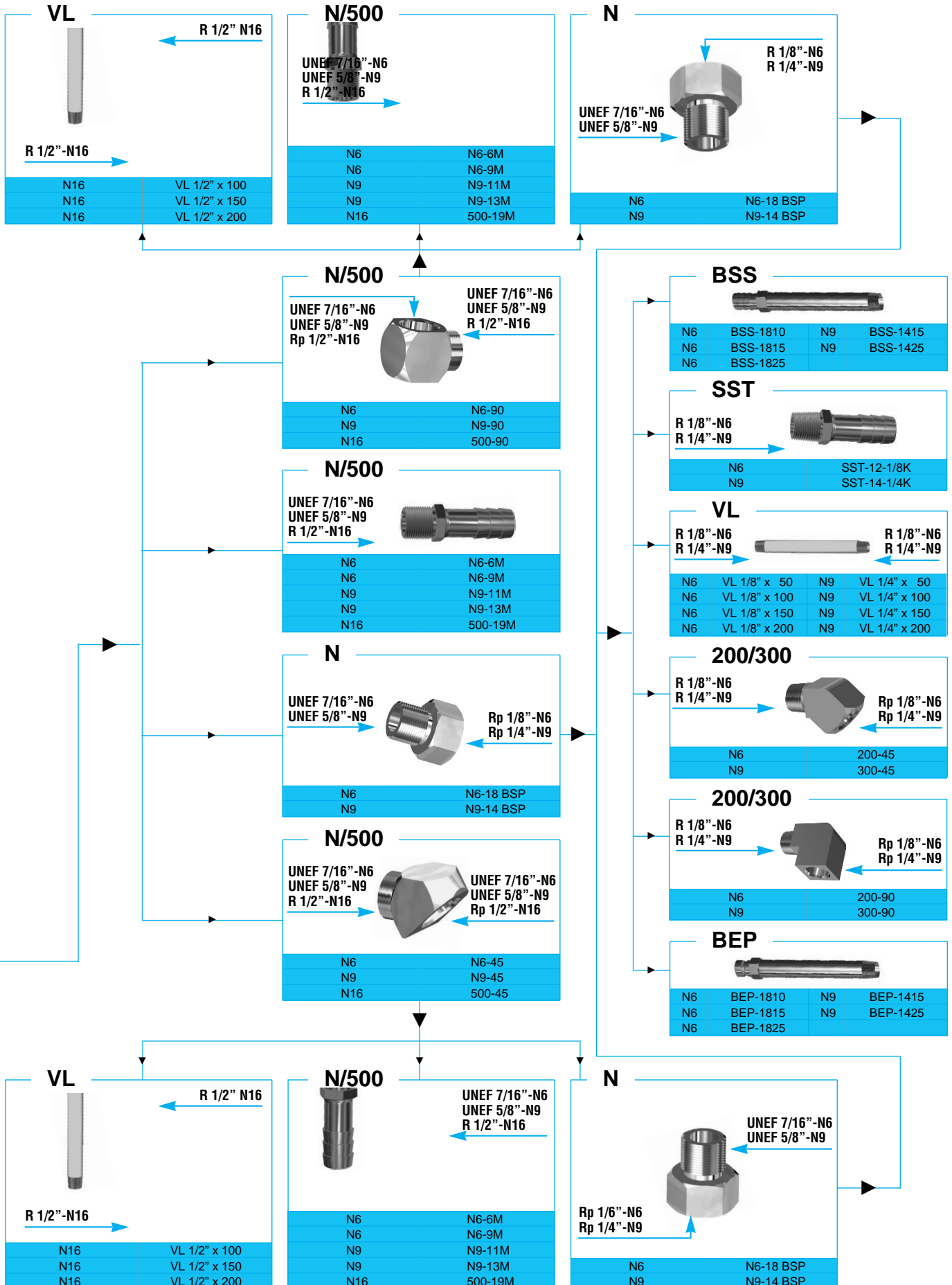
Rp= BSP ♥Cylindrical
♦Zylindrisch
♣Cilindrisch
♠Cylindrique

♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

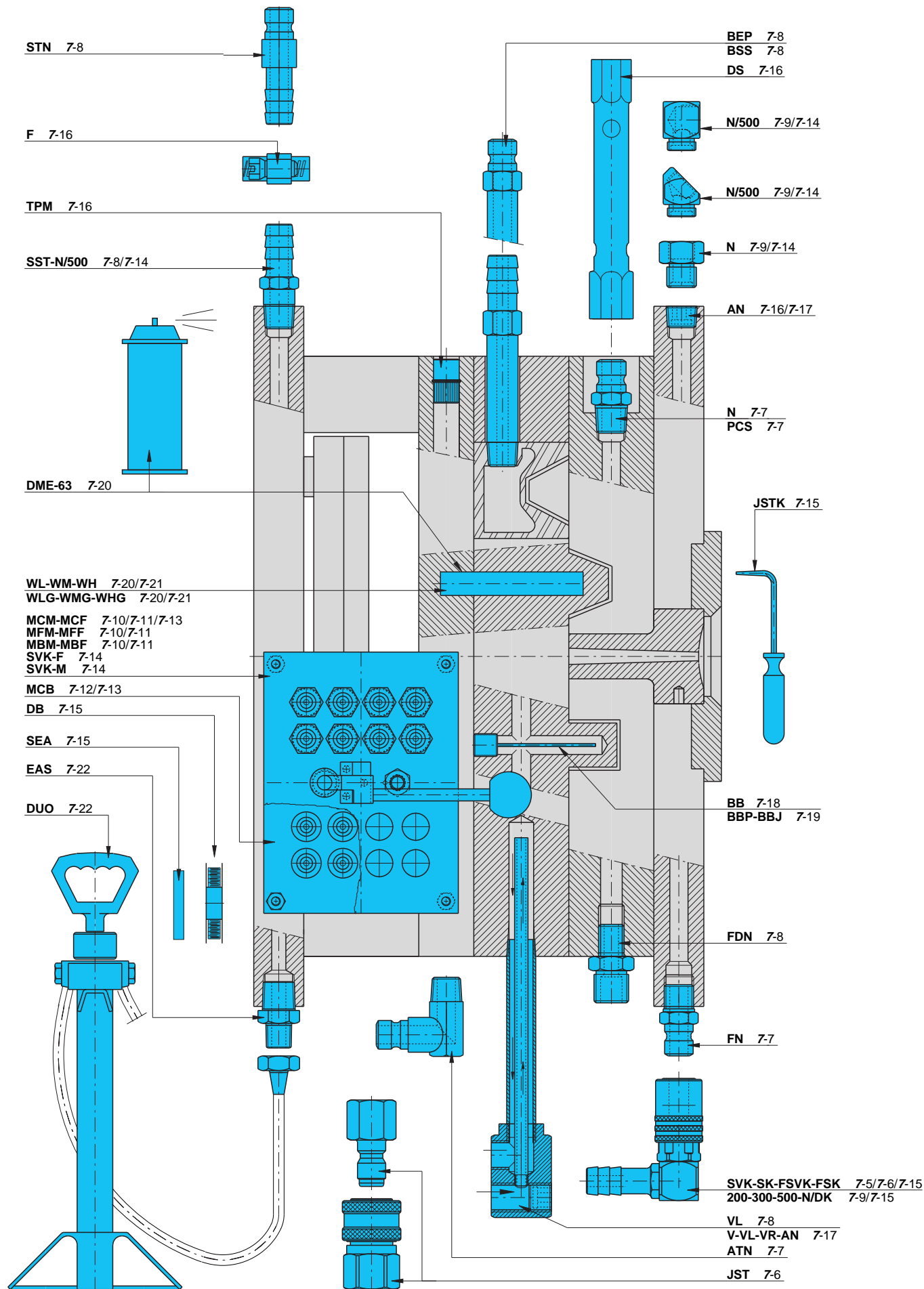
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♥ Selection chart - ♦ Auswahltabellen - ♣ Selekietabel - ♠ Tableau de sélection



♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠



♥ Cooling items

◆ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣

Accessoires de refroidissement ♠

SVK

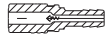
♥ Jiffy Matics - ♣ Snelafsluitkoppelingen

◆ Schnellverschlußkupplungen - ♠ Raccords rapides Jiffy Matics

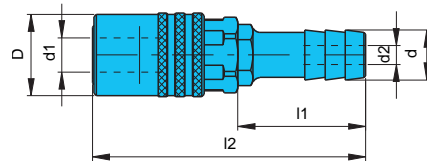
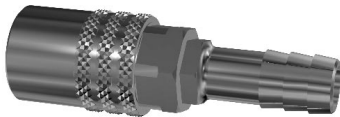
Mat. ♥ Brass-stainless steel ♣ Messing-roestbestendig staal

◆ Messing-rostfreier Stahl ♠ Laiton-acier inoxydable

SVK



♥ Straight - ◆ Gerade - ♣ Recht - ♠ Droit



REF.	d1	d2	d	D	l1	l2	SERIE(S)
SVK-106	9	5	6	17	27	57	N6
SVK-109	9	6	9	17	27	57	N6
SVK-111	13	9	11	22	27	68	N9
SVK-113	13	9	13	22	27	68	N9
SVK-119	20	16	20	30	46	103	N16

SK

♥ Jiffy Tites - ♣ Snelkoppelingen

◆ Schnellkupplungen - ♠ Raccords rapides Jiffy Tites

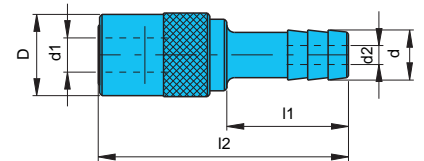
Mat. ♥ Brass-stainless steel ♣ Messing-roestbestendig staal

◆ Messing-rostfreier Stahl ♠ Laiton-acier inoxydable

SK

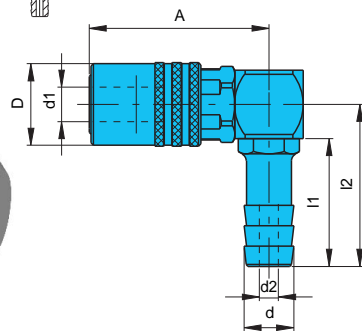
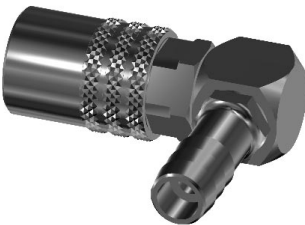


♥ Straight - ◆ Gerade - ♣ Recht - ♠ Droit



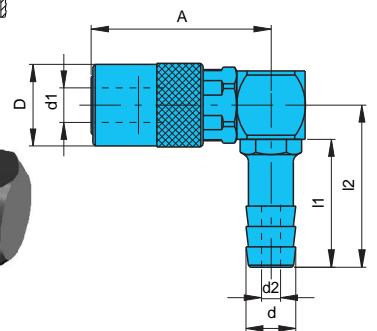
REF.	d1	d2	d	D	l1	l2	SERIE(S)
SK-106	9	5	6	17	25	52	N6
SK-109	9	6	9	17	25	52	N6
SK-111	13	9	11	22	25	62	N9
SK-113	13	9	13	22	25	62	N9
SK-119	20	16	20	30	32	77	N16

SVK (90°)



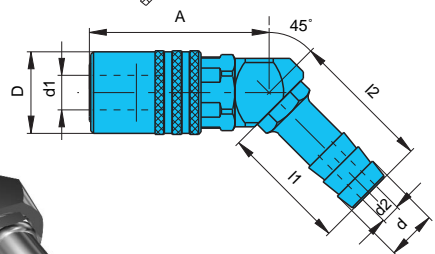
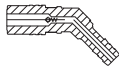
REF.	d1	d2	d	D	A	l1	l2	SERIE(S)
SVK-206	9	5	6	17	38	27	34	N6
SVK-209	9	6	9	17	38	27	34	N6
SVK-211	13	9	11	22	52	27	37	N9
SVK-213	13	9	13	22	52	27	37	N9
SVK-219	20	16	20	30	74	46	69	N16

SK (90°)



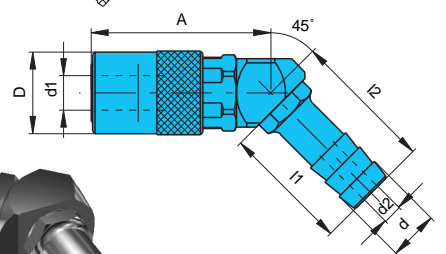
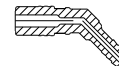
REF.	d1	d2	d	D	A	l1	l2	SERIE(S)
SK-206	9	5	6	17	38	27	34	N6
SK-209	9	6	9	17	38	27	34	N6
SK-211	13	9	11	22	52	27	37	N9
SK-213	13	9	13	22	52	27	37	N9
SK-219	20	16	20	30	68	46	69	N16

SVK (45°)



REF.	d1	d2	d	D	A	l1	l2	SERIE(S)
SVK-306	9	5	6	17	38	27	30	N6
SVK-309	9	6	9	17	38	27	30	N6
SVK-311	13	9	11	22	52	27	31	N9
SVK-313	13	9	13	22	52	27	31	N9
SVK-319	20	16	20	30	73	46	69	N16

SK (45°)



REF.	d1	d2	d	D	A	l1	l2	SERIE(S)
SK-306	9	5	6	17	38	27	30	N6
SK-309	9	6	9	17	38	27	30	N6
SK-311	13	9	11	22	52	27	31	N9
SK-313	13	9	13	22	52	27	31	N9
SK-319	20	16	20	30	67	46	69	N16

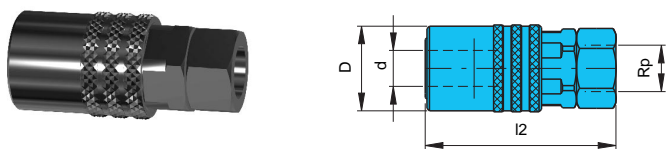
♥ Cooling items ♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣ Accessoires de refroidissement ♠

SVK 200-300-500



- ♥ Female Jiffy Matics
- ♦ Schnellverschlusskupplungen mit Innengewinde
- ♣ Snelafsluitkoppelingen met inwendige draad
- ♠ Raccords rapides femelles Jiffy Matics



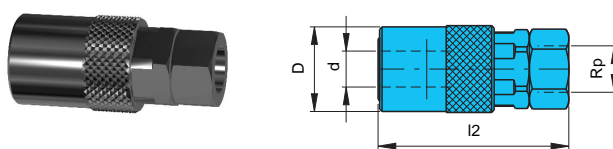
Mat. ♥Brass-stainless steel ♣Messing-roestbestendig staal
♦Messing-rostfreier Stahl ♠Laiton-acier inoxydable

REF.	d	Rp	D	L2	SERIE(S)
SVK-200	9	1/8" BSP	17	39	N6
SVK-300	13	1/4" BSP	22	53	N9
SVK-500	20	1/2" BSP	30	57	N16

SK 200-300-500



- ♥ Female Jiffy Tites
- ♦ Schnellkupplungen mit Innengewinde
- ♣ Snelkoppelingen met inwendige draad
- ♠ Raccords rapides femelles Jiffy Tites



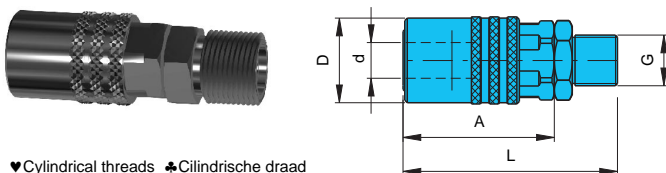
Mat. ♥Brass-stainless steel ♣Messing-roestbestendig staal
♦Messing-rostfreier Stahl ♠Laiton-acier inoxydable

REF.	d	Rp	D	L2	SERIE(S)
SK-200	9	1/8" BSP	17	39	N6
SK-300	13	1/4" BSP	22	53	N9
SK-500	20	1/2" BSP	30	57	N16

FSVK



- ♥ Jiffy Matics
- ♦ Schnellverschlusskupplungen
- ♣ Snelafsluitkoppelingen
- ♠ Raccords rapides Jiffy Matics



♥Cylindrical threads ♣Cilindrische draad
♦Zylindrisches Gewinde ♠Filet cylindrique

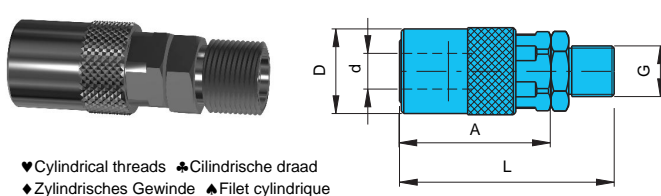
Mat. ♥Brass-stainless steel ♣Messing-roestbestendig staal
♦Messing-rostfreier Stahl ♠Laiton-acier inoxydable

REF.	d	D	A	L	G	SERIE(S)
FSVK-106 V	9	17	30,5	43	1/4"	N6
FSVK-111 V	13	22	41	57	3/8"	N9
FSVK-119 V	20	30	57	76	1/2"	N16

FSK



- ♥ Jiffy Tites
- ♦ Schnellkupplungen
- ♣ Snelkoppelingen
- ♠ Raccords rapides Jiffy Tites



♥Cylindrical threads ♣Cilindrische draad
♦Zylindrisches Gewinde ♠Filet cylindrique

Mat. ♥Brass-stainless steel ♣Messing-roestbestendig staal
♦Messing-rostfreier Stahl ♠Laiton-acier inoxydable

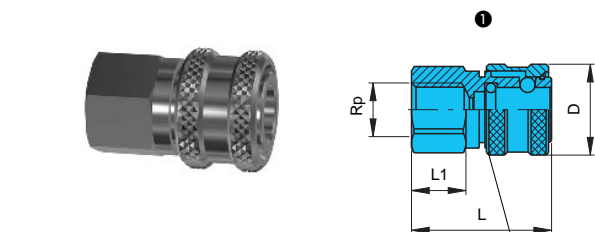
REF.	d	D	A	L	G	SERIE(S)
FSK-206 V	9	17	30,5	43	1/4"	N6
FSK-211 V	13	22	41	57	3/8"	N9
FSK-219 V	20	30	51	76	1/2"	N16

JST

- ♥ High pressure Jiffy Tites and connector plugs
- ♦ Hochdruck Schnellkupplungen und Anschlußnippel
- ♣ Hogedruk snelkoppelingen en aansluitnippels
- ♠ Raccords rapides Jiffy Tites et embouts à haute pression

♥ IMPORTANT:
Never disconnect under pressure.
Max. service temperature 205 °C.
♦ WICHTIG:
Leitung drucklos machen vor dem Entkoppeln.
Max. Betriebstemperatur 205 °C.

♣ BELANGRIJK:
Nooit ontkoppelen onder druk.
Max. bedrijfstemperatuur 205 °C.
♠ IMPORTANT:
Ne jamais déconnecter sous pression.
Température max. de service 205 °C.



♥With safety against accidental disconnection
♦Eingebauter Sicherheitsring gegen versehentliches Entkoppeln
♣Beveiligd tegen toevallig ontkoppelen
♠Avec verrouillage de sécurité

Mat. ♥Brass-stainless steel ♣Messing-roestbestendig staal
♦Messing-rostfreier Stahl ♠Laiton-acier inoxydable

REF. ①	L	L1	D	SW	Rp	Bar*	REF. ②	L	L1	d	SW	Rp	Bar*
JST-2006	37,2	14,4	ø24	21	1/4 - 19 BSP	379	JST-0252	35,6	16,5	6	18	1/4 - 19 BSP	379
JST-3009	40,6	19,4	ø29	26	3/8 - 19 BSP	241	JST-0353	41,3	19,1	9	21	3/8 - 19 BSP	241

* ♥Max. service pressure
♦Max. Betriebsdruck
♣Max. bedrijfsdruk
♠Pression max. de service

- ♥Seals
- ♦Dichtungen
- ♣Dichtingen
- ♠Joints



Mat. Viton

REF.	SERIE(S)
JST-2008	200
JST-3008	300

♥ Cooling items

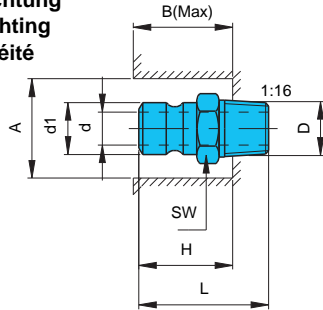
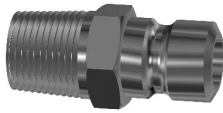
◆ Kühlmittelanschlüsse

Toebereiden voor matrijskoeling ♣

Accessoires de refroidissement ♠

N

- ♥ Connector plugs with teflon seal
- ◆ Anschlußnippel mit Teflon Dichtung
- ♣ Aansluitnippels met teflon dichting
- ♠ Embouts avec teflon d'étanchéité

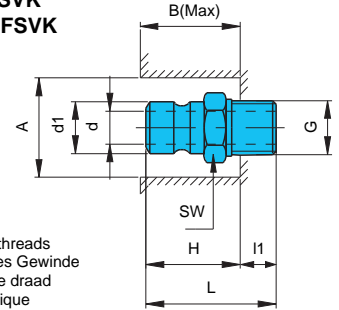


Mat.: ♥Brass ◆Messing ♣Messing ♠Laiton

REF.	D (M/R)	d1	d	L	SW	A	B	H	SERIE(S)
N 6-1/8" A	1/8"	9	6	24	13	22	18	17	N6
N 6-MA	M10 x 1			23					
N 6-1/4" A	1/4"			29	16	26	20	19	
N 6-3/8" A	3/8"	13	9	30	19	30	22	21	N9
N 9-1/4" A	1/4"			34	16	26	26	25	
N 9-3/8" A	3/8"			34	19	30	28	26	
N 9-MA	M10 x 1			6	34	16	26	25	
N 9-1/2" A	1/2"	20	16	9	39	24	37	28	N16
N 16-1/2" A	1/2"			44	22	32	38	37	
N 16-3/4" A	3/4"			45	29	38	40	38	

FN

- ♥ Connector plugs for FSK and FSVK
- ◆ Anschlußnippel für FSK & FSVK
- ♣ Aansluitnippels voor FSK & FSVK
- ♠ Embouts pour FSK & FSVK



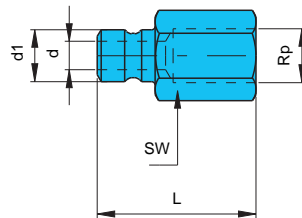
- ♥ Cylindrical threads
- ◆ Zylindrisches Gewinde
- ♣ Cilindrische draad
- ♠ Filet cylindrique

Mat.: ♥Brass ◆Messing ♣Messing ♠Laiton

REF.	A	B	H	d1	d	SW	I1	L	G	SERIE(S)
FN 9-14A	30	22	20	13	9	16	14	34	1/4"	N9
FN 9-38A						19			3/8"	
FN 16-38A	32	25	25	20	15	22	15	40	3/8"	N16
FN 16-38AL							28	53	3/8"	
FN 16-12A							20	45	1/2"	
FN 16-12AL							29	54	1/2"	

N

- ♥ Connector plugs
- ◆ Anschlußnippel
- ♣ Aansluitnippels
- ♠ Embouts

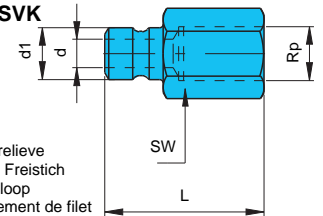


Mat.: ♥Brass ◆Messing ♣Messing ♠Laiton

REF.	Rp	d1	d	SW	L	SERIE(S)
N 6-1/8" I	1/8"	9	6	13	28	N6
N 6-1/4" I	1/4"			16	32	
N 6-3/8" I	3/8"			19	34	
N 9-1/4" I	1/4"	13	9	16	37	N9
N 9-3/8" I	3/8"			19	39	
N 9-1/2" I	1/2"			24	46	

FN

- ♥ Connector plugs for FSK and FSVK
- ◆ Anschlußnippel für FSK & FSVK
- ♣ Aansluitnippels voor FSK & FSVK
- ♠ Embouts pour FSK & FSVK



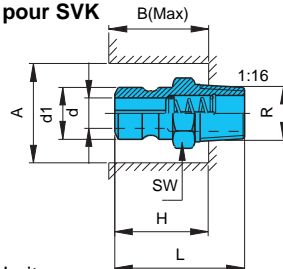
- ♥ With thread relieve
- ◆ Gewinde mit Freistich
- ♣ Met draaduitloop
- ♠ Avec dégagement de filet

Mat.: ♥Brass ◆Messing ♣Messing ♠Laiton

REF.	d1	d	L	SW	Rp	SERIE(S)
FN 9-18 I	13	9	32	16	1/8"	N9
FN 9-14 I			37	19	1/4"	
FN 16-38 I	20	15	40	22	3/8"	N16
FN 16-12 I			45	24	1/2"	

PCS

- ♥ Shut-off connector plugs for SVK
- ◆ Anschlußnippel mit automatischem Verschuß für SVK
- ♣ Nippels met automatische aansluiting voor SVK
- ♠ Embouts à fermeture automatique pour SVK

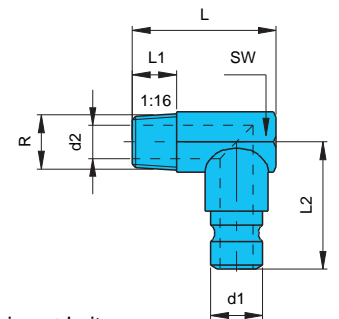
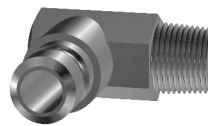


Mat.: ♥Brass ◆Messing ♣Messing ♠Laiton

REF.	A	B	H	d1	d	SW	L	R	SERIE(S)
PCS 6-14-A	28	21	20	9	6	16	29	1/4"	N6
PCS 6-38-A	30					19	29,5	3/8"	
PCS 9-14-A	28			13	9	16	34	1/4"	N9
PCS 9-38-A	30					19	34	3/8"	
PCS 9-12-A	37	28	26			24	37	1/2"	

ATN

- ♥ Angle nipples
- ◆ Winkelnippel
- ♣ Haakse aansluitnippels
- ♠ Embouts coudes



Mat.: ♥Brass ◆Messing ♣Messing ♠Laiton

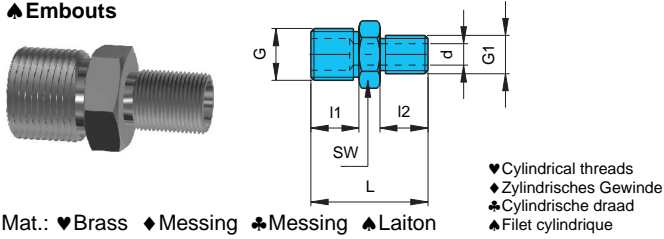
REF.	R	d1	d2	L	L1	L2	SW	SERIE(S)
ATN 9	1/8"	9	6	27	9	23	11	N6
ATN 13	1/4"	13	9	34	9	24,5	15	N9

♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

FDN

♥ Connector plugs
♦ Anschlußnippel
♣ Aansluitnippels
♠ Embouts

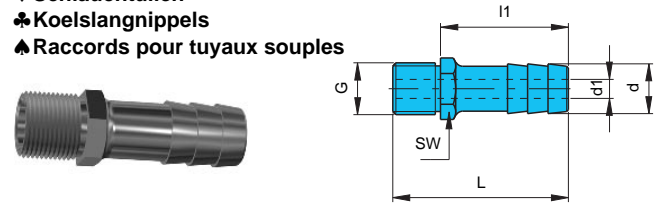


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	L	I1	I2	d	SW	G1	G
FDN-3814	27	11	11	6,5	19	1/4"	3/8"
FDN-3812	30	12	9	12	22	3/8"	1/2"
FDN-1212	33	12	12	14	22	1/2"	1/2"

N/500

♥ Hose nipples
♦ Schlauchtüllen
♣ Koelslangnippels
♠ Raccords pour tuyaux souples

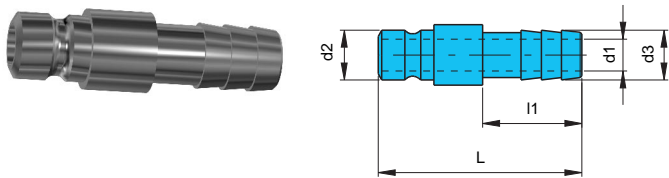


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	G	d1	d	L	I1	SW	SERIE(S)
N 6-6M	UNEF 7/16"-32	5	6	32	27	11	N6
N 6-9M	UNEF 7/16"-32	6	9	32	27	11	N6
N 9-11M	UNEF 5/8" -24	9	11	33	27	16	N9
N 9-13M	UNEF 5/8" -24	9	13	33	27	16	N9
500-19M	BSP 1/2" -14	16	19	56	46	22	N16

STN

♥ Hose nipples
♦ Schlauchtüllen
♣ Koelslangnippels
♠ Raccords pour tuyaux souples

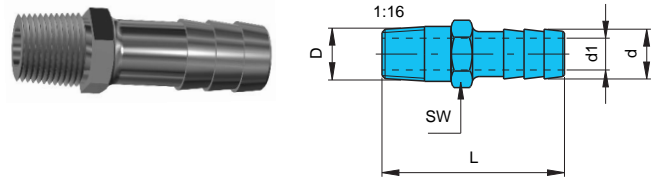


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	d1	d2	d3	I1	L	SERIE(S)
STN- 9	6	9	10	17	39	N6
STN-13	9	13	14	21	41	N9
STN-19	15,5	20	20	46	91	N16

SST

♥ Hose nipples
♦ Schlauchtüllen
♣ Koelslangnippels
♠ Raccords pour tuyaux souples

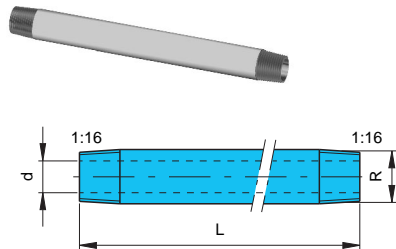


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	D	d1	d	L	SW	SERIE(S)
SST-12-1/8 K	BSP 1/8"	6	12	50	12	N6
SST-12-1 K	M 10 x 1	6	12	50	12	N6
SST-14-1/4 K	BSP 1/4"	9	14	54	14	N9

VL

♥ Extension pipes
♦ Verlängerungsnippel
♣ Verlengstukken
♠ Allonges

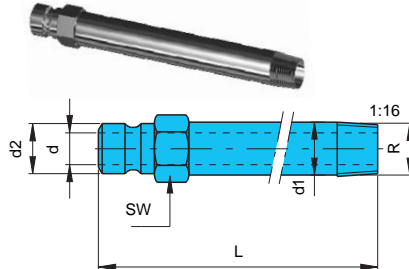


Mat.: ♥Zinc plated steel ♣Verzinkt staal
♦ Stahl verzinkt ♠Acier galvanisé

REF.	R	d	L
VL 1/8" x 50	1/8"	6	50
VL 1/8" x 100			100
VL 1/8" x 150			150
VL 1/8" x 200			250
VL 1/4" x 50	1/4"	9	50
VL 1/4" x 100			100
VL 1/4" x 150			150
VL 1/4" x 200			250

BEP

♥ Brass extension pipes
♦ Verlängerungsnippel
♣ Verlengingsnippels
♠ Allonges



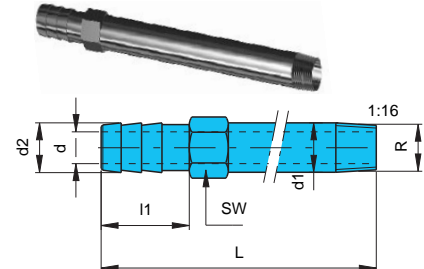
* ♥ with thread and teflon seal
♦ mit Gewinde und Teflon Dichtung
♣ met draad en teflon dichting
♠ avec filet et teflon d'étanchéité

Mat.: ♥Brass ♦Messing
♣Messing ♠Laiton

REF.	R	L	SW	d	d2	d1	SERIE(S)
BEP-1810*	1/8" BSP	100	11	6	9	10	N6
BEP-1815		150					
BEP-1825		250					
BEP-1415	1/4" BSP	150	15	9	13	14	N9
BEP-1425		250					

BSS

♥ Brass extension pipes
♦ Verlängerungsnippel
♣ Verlengingsnippels
♠ Allonges



* ♥ with thread and teflon seal
♦ mit Gewinde und Teflon Dichtung
♣ met draad en teflon dichting
♠ avec filet et teflon d'étanchéité

Mat.: ♥Brass ♦Messing
♣Messing ♠Laiton

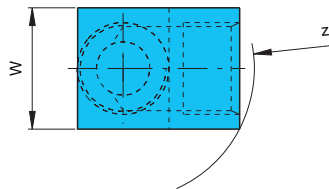
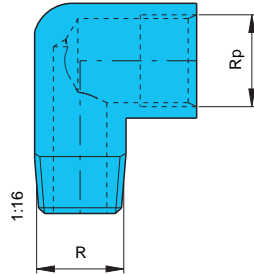
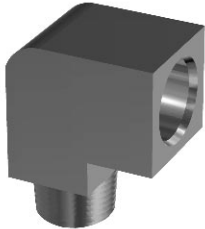
REF.	R	L	I1	SW	d	d2	d1	SERIE(S)
BSS-1810*	1/8" BSP	100	17	11	6	10	10	N6
BSS-1815		150						
BSS-1825		250						
BSS-1415	1/4" BSP	150	25	15	9	14	14	N9
BSS-1425		250						

♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

200/300

♥ 90° BSP Elbows
♦ 90° BSP Winkelstücke
♣ 90° BSP Ellebogen
♠ Coudes 90° BSP

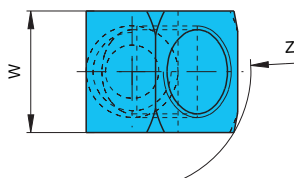
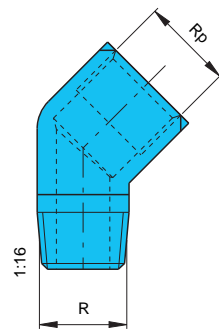


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	R, Rp	W	Z
200-90	1/8"	13	13
300-90	1/4"	18	16

200/300

♥ 45° BSP Elbows
♦ 45° BSP Winkelstücke
♣ 45° BSP Ellebogen
♠ Coudes 45° BSP

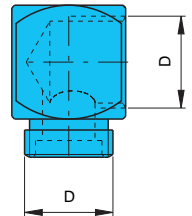


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	R/Rp	W	Z
200-45	1/8"	13	13
300-45	1/4"	18	16

N/500

♥ 90° Angles
♦ 90° Winkelstücke
♣ 90° Uitvoeringen
♠ Exécutions 90°

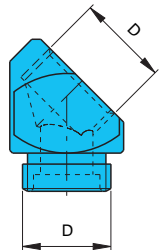


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	D	SERIE(S)
N6-90	UNEF 7/16"-32	N6
N9-90	UNEF 5/8"-24	N9
500-90	1/2"BSP	N16

N/500

♥ 45° Angles
♦ 45° Winkelstücke
♣ 45° Uitvoeringen
♠ Exécutions 45°

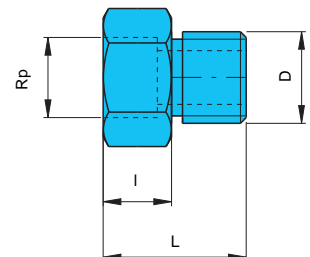
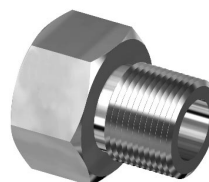


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	D	SERIE(S)
N6-45	UNEF 7/16"-32	N6
N9-45	UNEF 5/8"-24	N9
500-45	1/2"BSP	N16

N

♥ Adapters
♦ Adapter
♣ Adapters
♠ Adaptateurs



Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	D	Rp	L	I	SERIE(S)
N6-18 BSP	UNEF 7/16"-32	1/8"	13	8	N6
N9-14 BSP	UNEF 5/8" -24	1/4"	18	11	N9

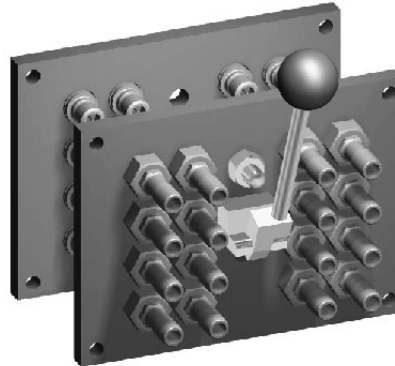
♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

MBM - MBF - MCM - MCF - MFM - MFF

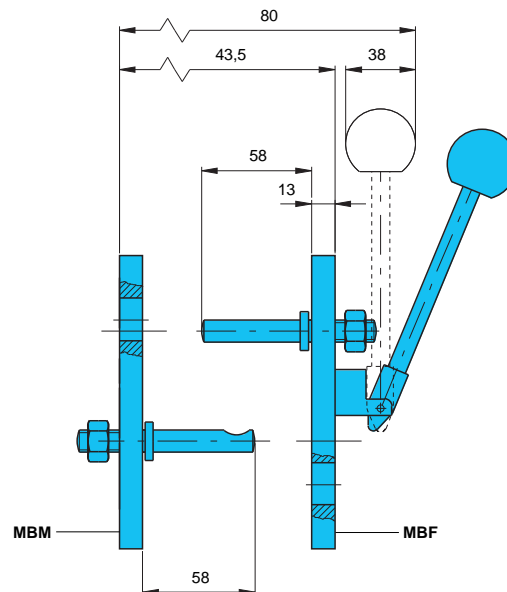
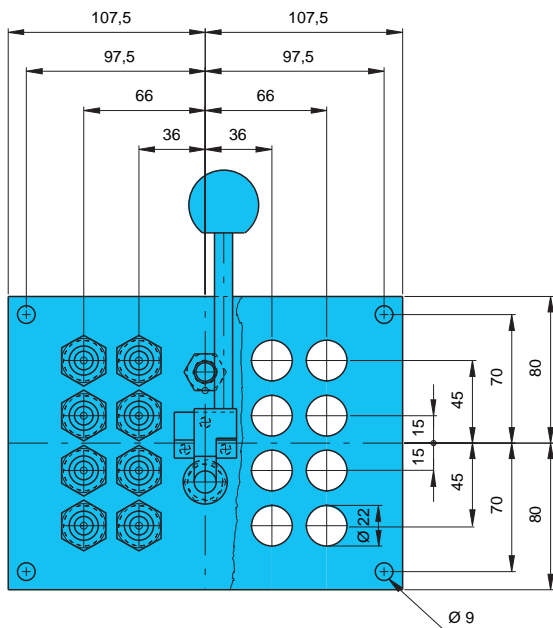
Multiflo

♥ 16 connections
♦ 16 Anschlüsse
♣ 16 aansluitingen
♠ 16 branchements



MBM - MBF

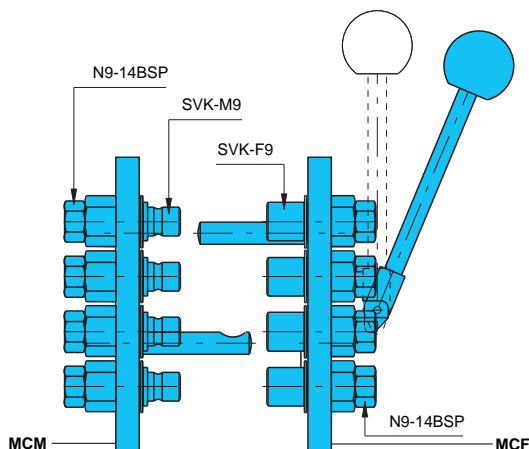
Multiflo: ♥ plates for 16 connections - ♣ platen voor 16 aansluitingen
♦ Platten für 16 Anschlüsse - ♠ plaques pour 16 branchements



REF.	
MBM-1690	MBF-1690

MCM - MCF

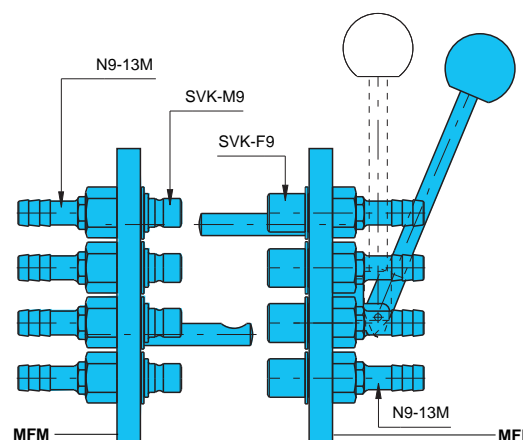
Multiflo:
♥ with 16 BSP adapters - ♣ met 16 BSP adapters
♦ mit 16 BSP Adapter - ♠ avec 16 adaptateurs BSP



REF.	
MCM-1691	MCF-1691

MFM - MFF

Multiflo:
♥ with 16 hose nippels - ♣ met 16 koelslangaansluitingen
♦ mit 16 Schlauchtüllen - ♠ avec 16 raccords pour tuyaux souples



REF.	
MFM-1692	MFF-1692

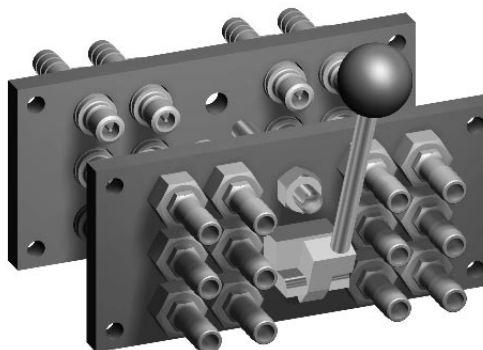
- ♥ Cooling items
♦ Kühlmittelanschlüsse

- Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

MBM - MBF - MCM - MCF - MFM - MFF

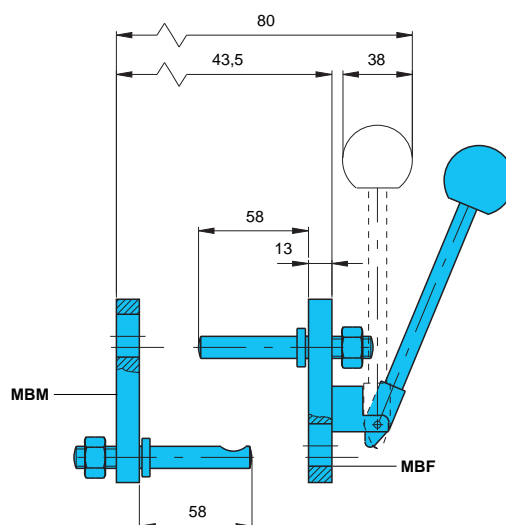
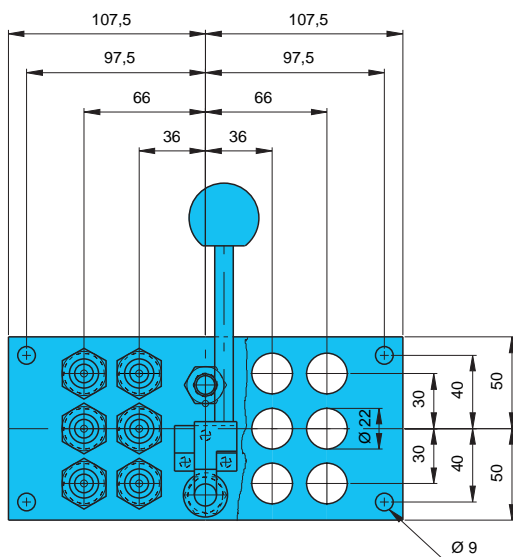
Multiflo

- ♥ 12 connections
♦ 12 Anschlüsse
♣ 12 aansluitingen
♠ 12 branchements



MBM - MBF

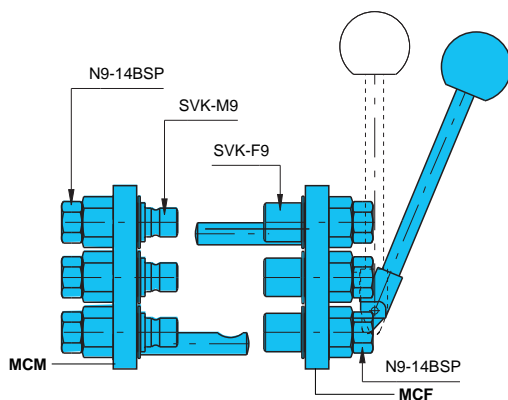
- Multiflo: ♥ plates for 12 connections - ♣ platen voor 12 aansluitingen
♦ Platten für 12 Anschlüsse - ♠ plaques pour 12 branchements



REF.	
MBM-1290	MBF-1290

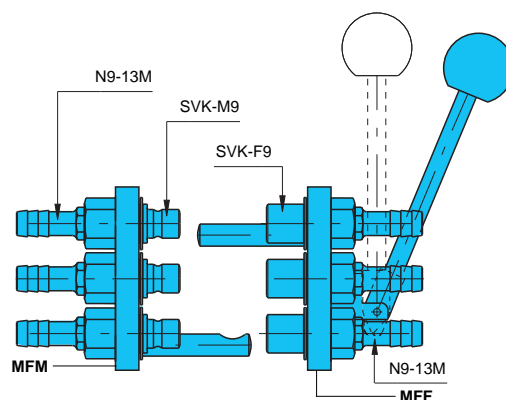
MCM - MCF

- Multiflo:
♥ with 12 BSP adapters - ♣ met 12 BSP adapters
♦ mit 12 BSP Adapter - ♠ avec 12 adaptateurs BSP



MFM - MFF

- Multiflo:
♥ with 12 hose nipples - ♣ met 12 koelslangaansluitingen
♦ mit 12 Schlauchtüllen - ♠ avec 12 raccords pour tuyaux souples



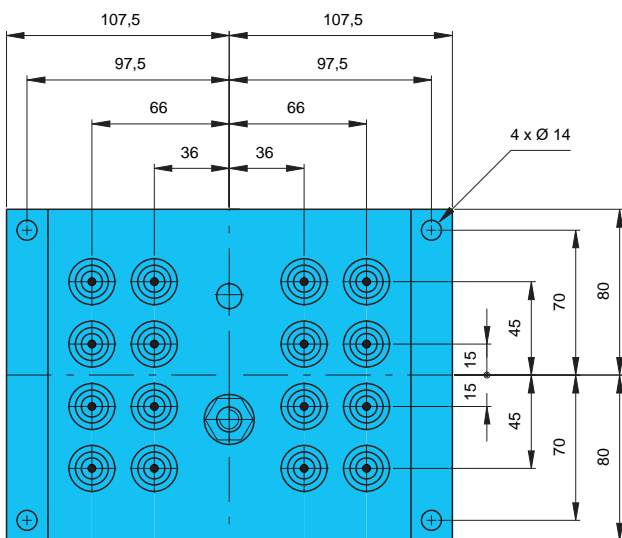
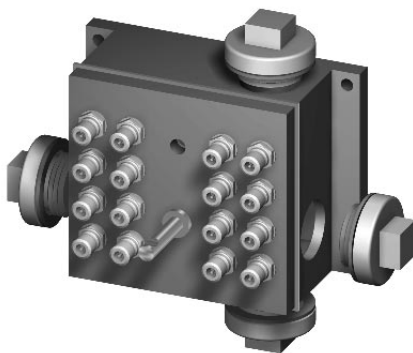
REF.		REF.	
MCM-1291	MCF-1291	MFM-1292	MFF-1292

♥ Cooling items
♦ Kühlmittelanschlüsse

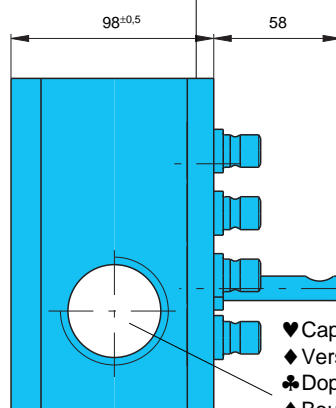
Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

MCB

♥ Waterboxes
♦ Wasserkästen
♣ Waterreservoirs
♠ Boîtes à eau



♥ Seal - ♣ Dichtung
♦ Dichtung - ♠ Joint



♥ Caps to be ordered separately
♦ Verschlusskappen-separat bestellen
♣ Doppen-separaat bestellen
♠ Bouchons à commander séparément

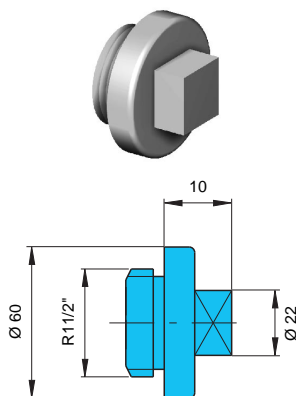
REF.
MCB-9000

MCB

♥ Replacement parts Waterbox
♦ Ersatzteile Wasserkästen
♣ Wisselstukken waterreservoirs
♠ Pièces de rechange boîtes à eau

MCB

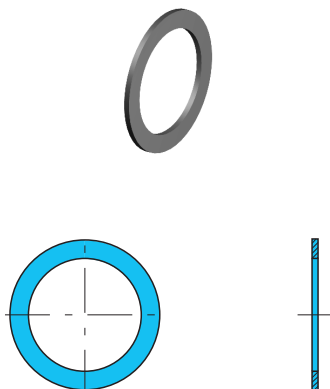
♥ Caps
♦ Verschlusskappen
♣ Doppen
♠ Bouchons



REF.
MCB-9015

MCB

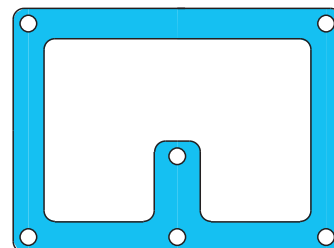
♥ Cap seals
♦ Dichtungen-Verschlusskappen
♣ Dichtungen-doppen
♠ Joints-bouchons



REF.
MCB-9016

MCB

♥ Seals Waterbox
♦ Dichtungen Wasserkästen
♣ Dichtungen waterreservoirs
♠ Joints boîtes à eau



REF.
MCB-3007

- ♥ Cooling items
♦ Kühlmittelanschlüsse

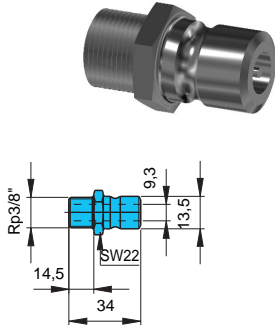
- Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

MCB - MCF

- ♥ Replacement parts Waterbox - ♣ Wisselstukken waterreservoirs
♦ Ersatzteile Wasserkästen - ♠ Pièces de rechange boîtes à eau

MCB

- ♥ Plugs
♦ Nippel
♣ Nippels
♠ Embouts

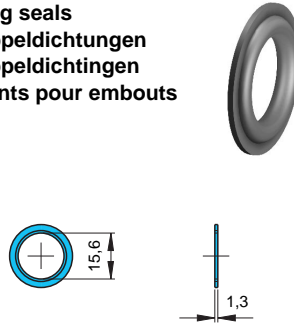


REF.

MCB-9005

MCB

- ♥ Plug seals
♦ Nippeldichtungen
♣ Nippeldichtungen
♠ Joints pour embouts

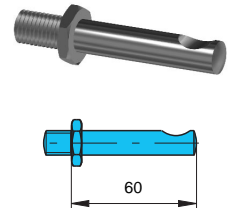


REF.

MCB-9010

MCF

- ♥ Drawbar
♦ Führungsstifte
♣ Geleidingspennen
♠ Colonnes de guidage



REF.

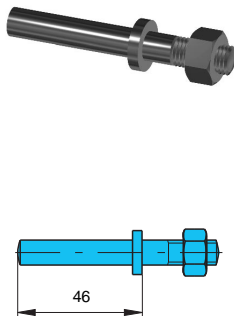
MCF-3008

MCF

- ♥ Replacement parts Multiflo - ♣ Wisselstukken Multiflo
♦ Ersatzteile Multiflo - ♠ Pièces de rechange Multiflo

MCF

- ♥ Guiding pins
♦ Führungsstifte
♣ Geleidingspennen
♠ Colonnes de guidage

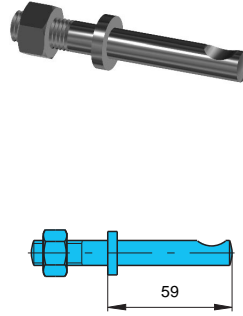


REF.

MCF-3005

MCF

- ♥ Drawbar
♦ Führungsstifte
♣ Geleidingspennen
♠ Colonnes de guidage

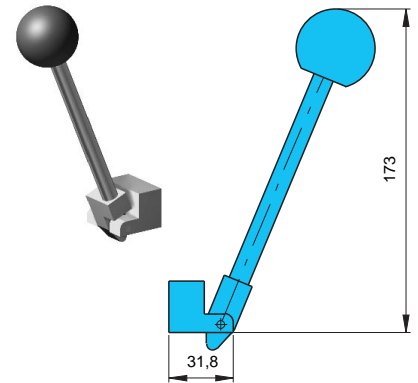


REF.

MCF-3006

MCF

- ♥ Handle
♦ Hebel
♣ Hengel
♠ Système de fermeture



REF.

MCF-9000

MCF

- ♥ Retainer rings
♦ Sicherungsringe
♣ Zekeringsringen
♠ Circlips



REF.

MCF-3004

MCF

- ♥ Seals
♦ Dichtungen
♣ Dichingen
♠ Joints



REF.

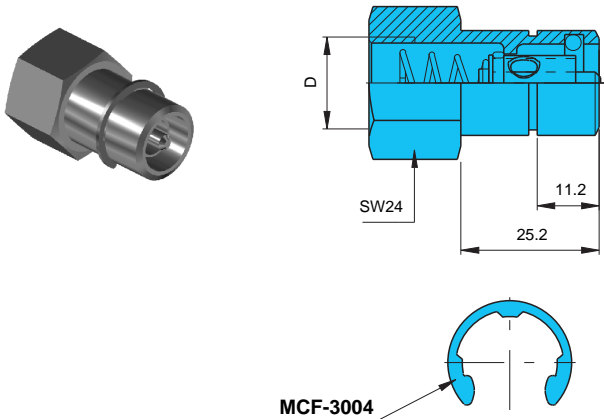
MCF-3003

♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

SVK-F

♥ Female Jiffy matics
♦ Schnellverschlußkupplungen
♣ Vrouwelijke snelafsluitkoppelingen
♠ Raccords rapides femelles Jiffy matic

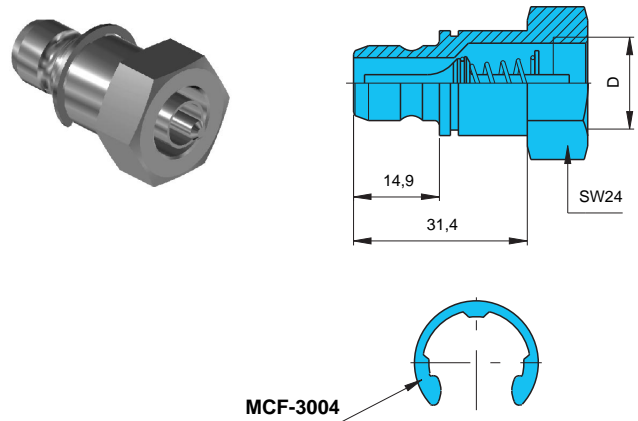


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	D
SVK-F9	UNEF 5/8"-24

SVK-M

♥ Male Jiffy matics
♦ Schnellverschlußnippel
♣ Mannelijke snelafsluitkoppelingen
♠ Raccords rapides mâles Jiffy matic

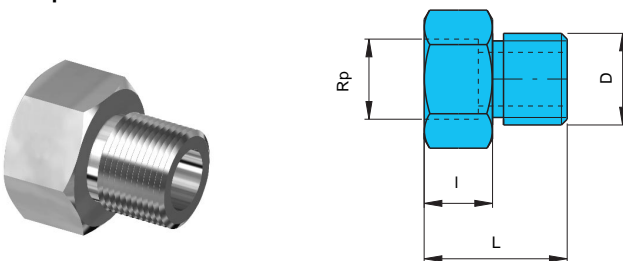


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	D
SVK-M9	UNEF 5/8"-24

N

♥ Adapters
♦ Adapter
♣ Adapters
♠ Adaptateurs

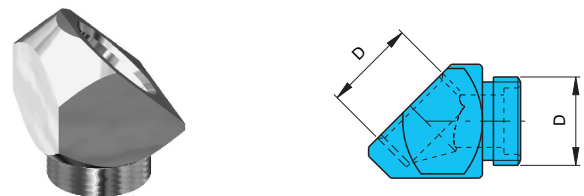


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	D	Rp	L	I
N9-14 BSF	UNEF 5/8"-24	1/4"	18	11

N/500

♥ 45° Angles
♦ 45° Winkelstücke
♣ 45° Uitvoeringen
♠ Exécutions 45°

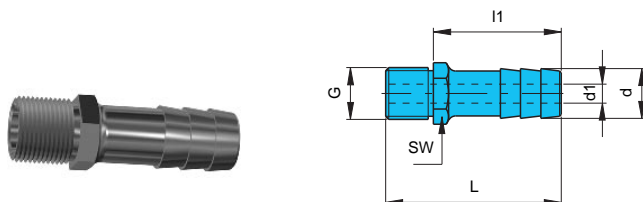


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	D
N9-45	UNEF 5/8"-24

N/500

♥ Hose nipples
♦ Schlauchtüllen
♣ Koelslangnippels
♠ Raccords pour tuyaux souples

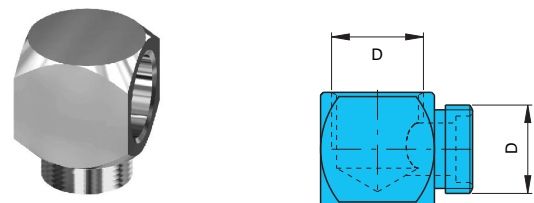


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	G	d1	d	L	I1	SW
N 9-13M	UNEF 5/8"-24	9	13	33	27	16

N/500

♥ 90° Angles
♦ 90° Winkelstücke
♣ 90° Uitvoeringen
♠ Exécutions 90°



Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	D
N9-90	UNEF 5/8"-24

♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

SVK - SK - FSVK - FSK

♥ Replacement parts - ♣ Wisselstukken
♦ Ersatzteile - ♠ Pièces de rechange

200-300-500

♥ Retainer rings
♦ Federringe
♣ Veerringen
♠ Ressorts de collet



200-300-500

♥ Stainless steel balls
♦ Stahlkugeln
♣ Staalkogels
♠ Billes d'acier



200-300-500

♥ Collar springs
♦ Aussenfedern
♣ Kraagveren
♠ Ressorts de clapet



REF.	SERIE(S)	REF.	SERIE(S)	REF.	SERIE(S)
200-4	N6	200-5	N6	200-3	N6
300-4	N9	300-5	N9	300-3	N9
500-4	N16	500-5	N16	500-3	N16

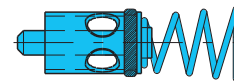
200-300-500

♥ Seals
♦ Dichtungen
♣ Dichtingen
♠ Joints



N/DK

♥ Valves + springs
♦ Ventile + Federn
♣ Ventielen + ventielveren
♠ Joints + clapets

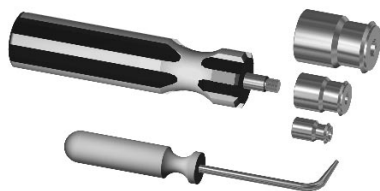


Mat.: Viton 220° C

REF.	SERIE(S)	REF.	SERIE(S)
200-8	N6	N6-601	N6
300-8	N9	N9-601	N9
500-8	N16	DK-N16 V	N16

JSTK

♥ Jiffy Tite seal removal tool kit
♦ Jiffy Tite Dichtungsmontageset
♣ Demonteergeredschap voor dichtingen
♠ Outil de démontage pour joints



SEA

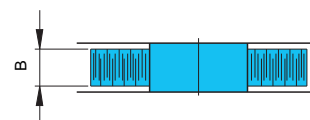
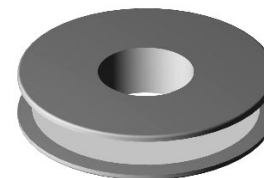
♥ Adhesives for UNEF thread
♦ Klebemittel für UNEF Gewinde
♣ Klefmiddelen voor UNEF draad
♠ Adhésifs pour filetage UNEF



Max.T 204°C
♥ Content: 10 gr
♦ Inhalt: 10 gr
♣ Inhoud: 10 gr
♠ Volume: 10 gr

DB

♥ Sealing tapes
♦ Dichtband
♣ Dichtingsbanden
♠ Rubans d'étanchéité



Mat.: Teflon

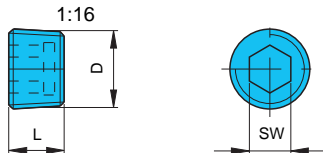
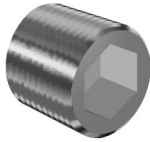
REF.	REF.	REF.	L	B
JSTK 235	SEA-03	DB 1206	12 m	6 mm
		DB 1212	12 m	12 mm

♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

AN

♥ Pressure plugs
♦ Verschlußschrauben
♣ Afsluitstoppen
♠ Bouchons filetés coniques

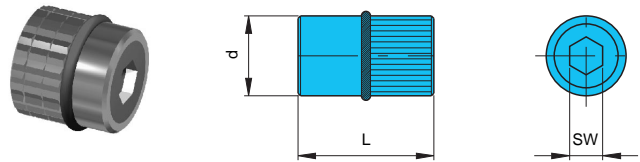


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

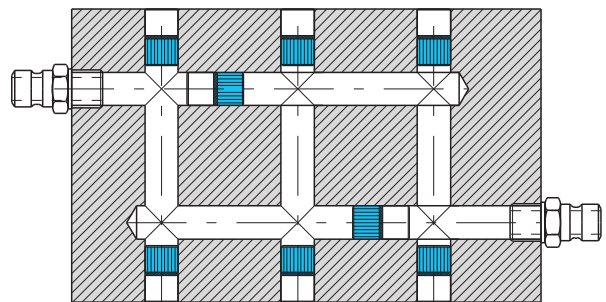
REF.	D	L	SW
AN- 8	1/8"	8	5
- 4	1/4"	10	7
- 3	3/8"	10	8
-10	M 10 x 1	8	5
- 2	1/2"	10	10

TPM

♥ Threadless brass pressure plugs
♦ Gewindefreie Messing Verschlußstopfen
♣ Draadloze afsluitstoppen
♠ Bouchons à expansion sans filetage



♥ Typical application ♣ Inbouwvoorbeeld
♦ Einbaubeispiel ♠ Application typique

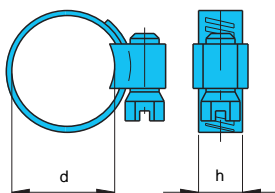


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	d	L	SW
TPM- 8	8	12,7	2,5
-10	10	14,2	3
-12	12		
-16	16	15,7	

F

♥ Hose clamps
♦ Schlauchschellen
♣ Slangklemmen
♠ Colliers de serrage

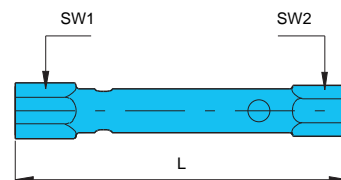


Mat.: I.4016

REF.	d	h
F 8-16	8-16	9
F 12-20	12-20	9
F 16-25	16-25	9

DS

♥ Socket wrenches
♦ Steckschlüssel
♣ Steeksleutels
♠ Clés à tube



Mat.: St. 55 Din 2391

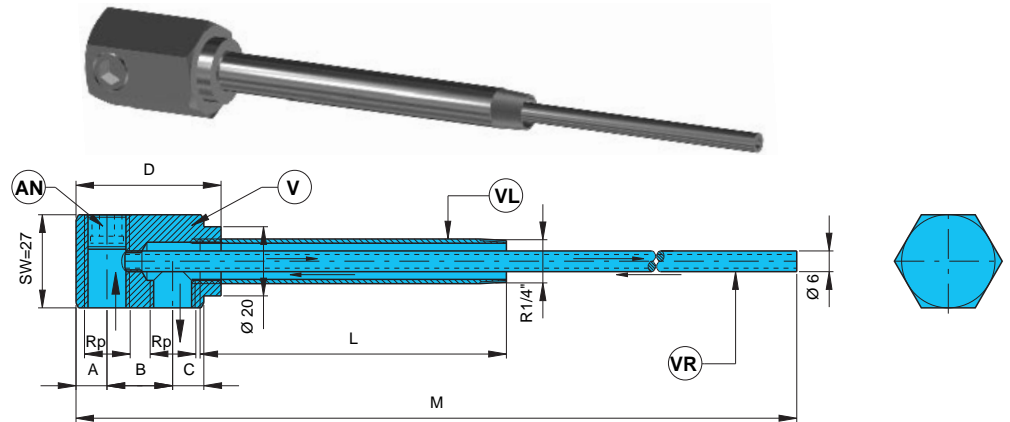
REF.	SW1	SW2	L
DS 1314	13	14	140
DS 1617	16	17	150
DS 1922	19	22	170
DS 2427	24	27	190

♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

V

♥ Cascade water junctions
♦ Kühlwasserverteiler
♣ Koelvloeistofverdelers
♠ Blocs de refroidissement



Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

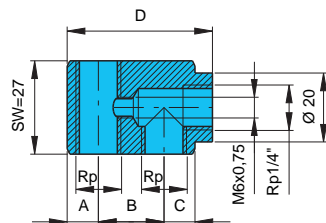
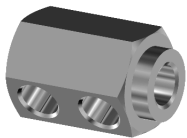
REF.	Rp	M	A	B	D	C	L	REF.	Rp	M	A	B	D	C	L	REF.	Rp	M	A	B	D	C	L
V 485	1/8"	356	9	19	42	9	50	V 4415	1/4"	356	9	19	42	9	150	V 545	1/4"	362	9	26	54	12	50
V 4810							100	V 4420							200	V 5410							100
V 4815							150	V 585	1/8"	362		26	54	12	50	V 5415							150
V 4820							200	V 5810							100	V 5420							200
V 445	1/4"						50	V 5815							150								
V 4410							100	V 5820							200								

V - VL - AN - VR

♥ Replacement parts cascade water junctions - ♣Wisselstukken koelvloeistofverdelers
♦ Ersatzteile Kühlwasserverteiler - ♠Pièces de rechange blocs de refroidissement

V

♥ Body
♦ Grundkörper
♣ Huis
♠ Corps

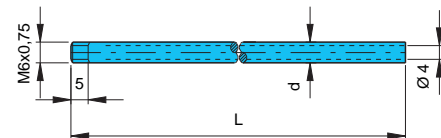


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	A	B	D	C	Rp
V 48	9	19	42	9	1/8"
V 44					1/4"
V 58		26	54	12	1/8"
V 54					1/4"

VR

♥ Feedpipes
♦ Messingrohre
♣ Sproei pijpjes
♠ Tubes d'alimentation

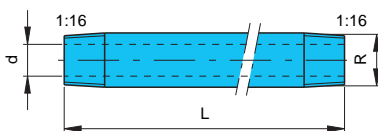


Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

REF.	d	L
VR-6 x 340	6	340

VL

♥ Extension pipes
♦ Verlängerungsnippel
♣ Verlengstukken
♠ Allonges

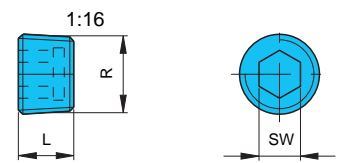
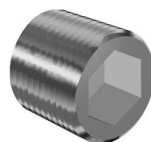


Mat.: ♥Zinc plated ♦Stahl Verzinkt ♣Verzinkt staal- ♠Acier galvanisé

REF.	R	L	d
VL 1/4" x 50	1/4"	50	9
x 100	1/4"	100	9
x 150	1/4"	150	9
x 200	1/4"	200	9

AN

♥ Pressure plugs
♦ Verschlusschrauben
♣ Afsluitstoppen
♠ Bouchons



Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

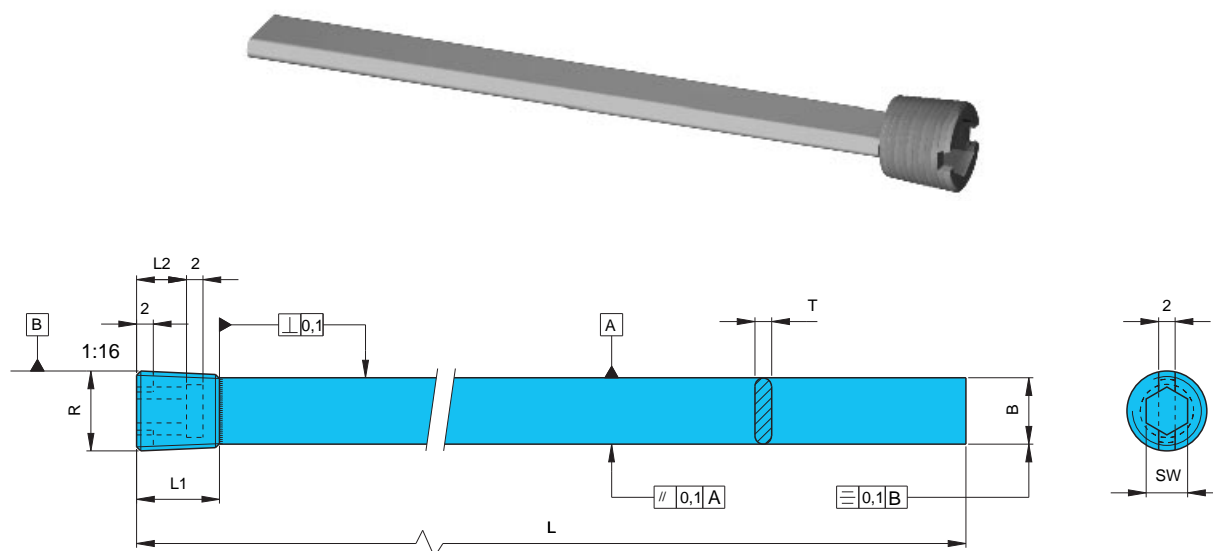
REF.	R	L	SW
AN-8	1/8"	8	5
AN-4	1/4"	10	7

♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

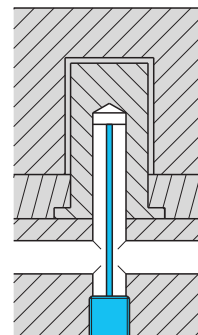
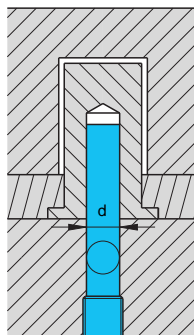
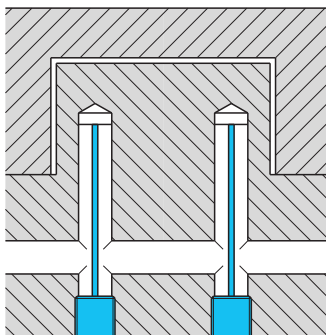
BB

- ♥ Brass plug baffles
- ♦ Umlenkstäbe
- ♣ Messing koelschotten
- ♠ Séparateurs en laiton



Mat.: ♥Brass ♦Messing ♣Messing ♠Laiton

- ♥ Typical application
- ♦ Einbaubeispiel
- ♣ Inbouwvoorbeeld
- ♠ Application typique



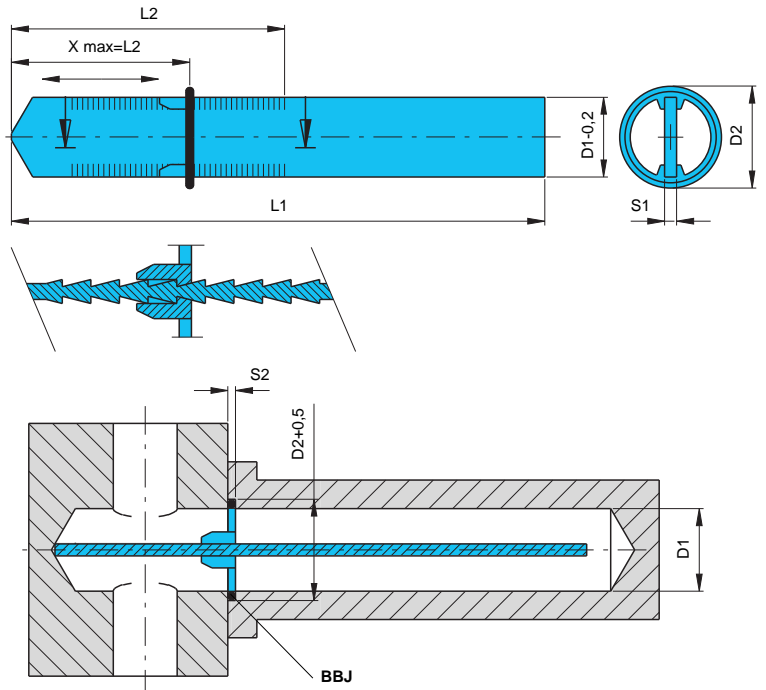
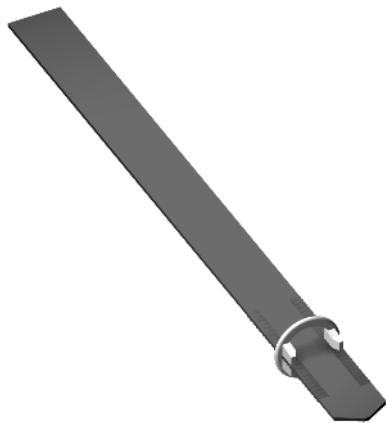
REF.	R	SW	B	L	L1	T	L2	d
BB-100-1/8	1/8"BSP	5	8,00	100	10	2,0	6	8,5
BB-200-1/8	1/8"BSP	5	8,00	200	10	2,0	6	8,5
BB-125-1/4	1/4"BSP	6	11,00	125	11	2,5	7	11,5
BB-250-1/4	1/4"BSP	6	11,00	250	11	2,5	7	11,5
BB-150-3/8	3/8"BSP	8	14,50	150	13	2,5	9	15,0
BB-300-3/8	3/8"BSP	8	14,50	300	13	2,5	9	15,0
BB-200-1/2	1/2"BSP	10	18,00	200	16	2,5	11	18,5
BB-400-1/2	1/2"BSP	10	18,00	400	16	2,5	11	18,5
BB-300-3/4	3/4"BSP	12	23,00	300	19	3,0	13	23,5
BB-500-3/4	3/4"BSP	12	23,00	500	19	3,0	13	23,5

♥ Cooling items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

BBP - BBJ

♥ Plug baffles - ♦ Umlenkstäbe - ♣ Koelschotten - ♠ Séparateurs



BBJ

Mat.: ♥ High temperature resistant plastic ♣ Hoge temperatuur bestendige kunststof
♦ Hochtemperatur beständiger Kunststoff ♠ Plastique à haute température

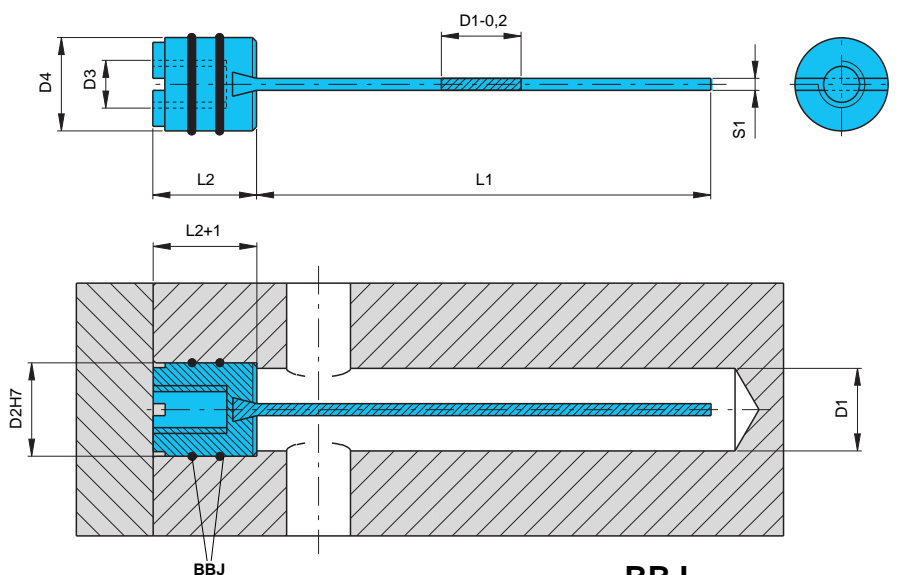
♥ O-rings ♣ O-ringen } Viton
♦ O-Ringe ♠ Joints toriques } 200 °C

REF.	D1	D2	L1	L2	S1	S2
BBP-0001	10	17	220	55	1,5	2,0
BBP-0002	15	22	300	70	1,8	2,0
BBP-0003	20	28	350	90	2,0	2,4
BBP-0004	25	33	380	115	2,2	2,4

REF.
BBJ-0001
BBJ-0002
BBJ-0003
BBJ-0004

BBP - BBJ

♥ Plug baffles - ♦ Umlenkstäbe - ♣ Koelschotten - ♠ Séparateurs



BBJ

Mat.: ♥ High temperature resistant plastic ♣ Hoge temperatuur bestendige kunststof
♦ Hochtemperatur beständiger Kunststoff ♠ Plastique à haute température

♥ O-rings ♣ O-ringen } Viton
♦ O-Ringe ♠ Joints toriques } 200 °C

REF.	D1	D2-H7	D3	D4	L1	L2	S1
BBP-0101	10	12	M6	11,7	180	13	1,5
BBP-0102	15	16	M8	15,7	250	16	1,8
BBP-0103	20	22	M12	21,7	300	20	2,0
BBP-0104	25	26	M16	25,7	390	22	2,2

REF.
BBJ-0101
BBJ-0102
BBJ-0103
BBJ-0104

♥ Cooling items
♦ Kühlmittelanschlüsse

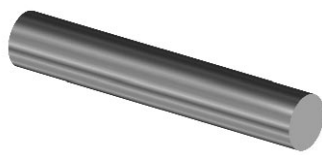
Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

WL - WM - WH

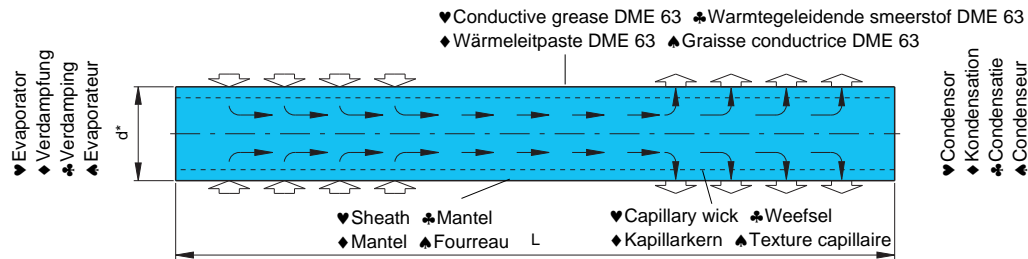
WLG - WMG - WHG

♥ Heat transfer rods
♦ Wärmeleitstifte
♣ Warmtegeleidestaven
♠ Tubes transfert de chaleur

♥ Threaded heat transfer rods
♦ Wärmeleitstifte mit Gewinde
♣ Warmtegeleidestaven met schroefdraad
♠ Tubes transfert de chaleur filetés



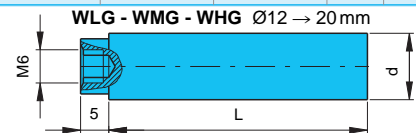
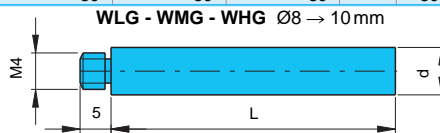
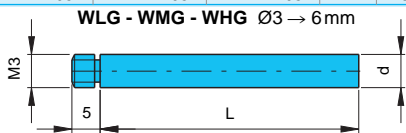
WL(G) 5° - 100°C
WM(G) 50° - 250°C
WH(G) 150° - 500°C



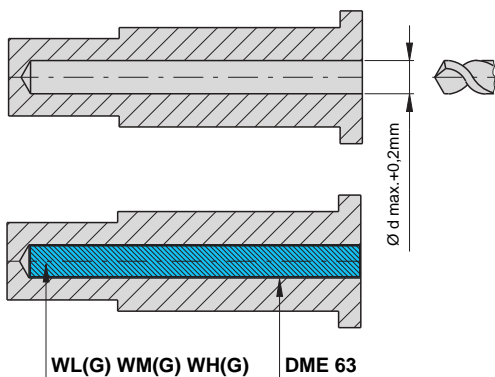
♥ Special dimensions available upon request ♣ Speciale afmetingen op aanvraag leverbaar
♦ Sonderabmessungen lieferbar auf Anfrage ♠ Dimensions spéciales disponibles sur demande

* $d \leq 12^{-0,1}$
 $d \geq 12^{-0,2}$

WL	REF.	WM	WH	d	L	WL	REF.	WM	WH	d	L	WL	REF.	WM	WH	d	L
WL-2- 50	WM-2- 50			2	50	WL- 6- 80	WM- 6- 80	WH- 6- 80		6	80	WL-12- 90	WM-12- 90	WH-12- 90		12	50
- 65	- 65				65	- 90	- 90	- 90			90	-120	-120	-120			120
- 80	- 80				80	-120	-120	-120			120	-160	-160	-160			160
- 90	- 90				90	-160	-160	-160			160	-200	-200	-200			200
-120	-120				120	-200	-200	-200			200	-270	-270	-270			270
WL-3- 50	WM-3- 50	WH-3- 50		3	50	WL- 8- 50	WM- 8- 50	WH- 8- 50		8	50	WL-16- 50	WM-16- 50	WH-16- 50		16	50
- 65	- 65	- 65			65	- 65	- 65	- 65			65	- 65	- 65	- 65			65
- 80	- 80	- 80			80	- 80	- 80	- 80			80	- 80	- 80	- 80			80
- 90	- 90	- 90			90	- 90	- 90	- 90			90	- 90	- 90	- 90			90
-120	-120	-120			120	-120	-120	-120			120	-120	-120	-120			120
WL-4- 50	WM-4- 50	WH-4- 50		4	50	WL-10- 50	WM-10- 50	WH-10- 50		10	50	WL-20- 50	WM-20- 50	WH-20- 50		20	50
- 65	- 65	- 65			65	- 65	- 65	- 65			65	- 65	- 65	- 65			65
- 80	- 80	- 80			80	- 80	- 80	- 80			80	- 80	- 80	- 80			80
- 90	- 90	- 90			90	- 90	- 90	- 90			90	- 90	- 90	- 90			90
-120	-120	-120			120	-120	-120	-120			120	-120	-120	-120			120
-160	-160	-160			160	-160	-160	-160			160	-160	-160	-160			160
-200	-200	-200			200	-200	-200	-200			200	-200	-200	-200			200
WL-5- 50	WM-5- 50	WH-5- 50		5	50	WL-12- 50	WM-12- 50	WH-12- 50		12	50	-320	-320	-320			320
- 65	- 65	- 65			65	- 65	- 65	- 65			65	-320	-320	-320			320
- 80	- 80	- 80			80	- 80	- 80	- 80			80	-320	-320	-320			320
- 90	- 90	- 90			90	- 90	- 90	- 90			90	-320	-320	-320			320
-120	-120	-120			120	-120	-120	-120			120	-320	-320	-320			320
-160	-160	-160			160	-160	-160	-160			160	-320	-320	-320			320
-200	-200	-200			200	-200	-200	-200			200	-320	-320	-320			320
WL-6- 50	WM-6- 50	WH-6- 50		6	50	- 80	- 80	- 80			80						
- 65	- 65	- 65			65	- 80	- 80	- 80			80						



♥ Installation ♣ Inbouw
♦ Einbau ♠ Installation

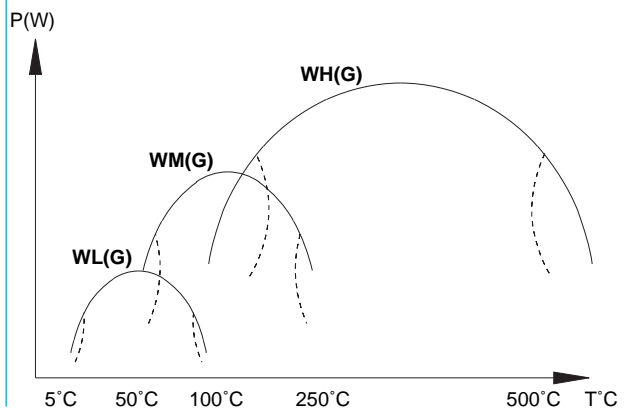


♥ Conductive grease DME 63
♦ Wärmeleitpaste DME 63
♣ Warmtegeleidende smeerstof DME 63
♠ Graisse conductrice DME 63

REF.
DME-63



♥ Operating temperature ♣ Bedrijfstemperatuur
♦ Betriebstemperatur ♠ Température de service



♥ Cooling items

♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣

Accessoires de refroidissement ♠

♥ Heat transfer rods

♦ Wärmeleitstifte

Warmtegeleidestaaf ♣

Tube de transfert de chaleur ♠

To request a calculation for HTR duplicate this form, fill out your data and fax it to D-M-E.

Questionnaire for the calculation of a D-M-E heat transfer rod.

1. Injection temperature of the material °C
2. Ejection temperature of the material °C
3. Mold temperature °C
4. Type of plastic material
5. Mold steel quality
6. Product weight kg
7. Cycle time sec.
8. DO NOT OMIT TO ADD A SKETCH

Company name:

Address:

Contact:

Tel.:

Fax:

Om een berekening van warmtegeleidestaven te bekomen, kopieer dit formulier, vul uw gegevens in en fax het naar D-M-E.

Vragenlijst voor het berekenen van een DME warmtegeleidestaaf.

1. Injektietemperatuur van de kunststof °C
2. Uitwerptemperatuur van de kunststof °C
3. Matrijstemperatuur °C
4. Type kunststof
5. Staalkwaliteit matrijs
6. Produktgewicht kg
7. Cyclustijd sec.
8. VERGEET VOORAL NIET EEN SCHETS BIJ TE VOEGEN.

Firma:

Adres:

Kontaktpersoon:

Tel.:

Fax:

Um eine Kalkulation über Wärmeleitstifte zu erhalten, machen Sie uns Ihre Angaben auf dem Fragebogen.

Fragebogen zur Kalkulation für einen D-M-E Wärmeleitstift.

1. Einspritztemperatur des Kunststoffmaterials °C
2. Ausstoßtemperatur des Kunststoffmaterials °C
3. Formtemperatur °C
4. Typ des Kunststoffmaterials
5. Stahlqualität der Form
6. Teilgewicht Kg
7. Zykluszeit Sek.
8. VERGESSEN SIE NICHT EINE ZEICHNUNG BEIZUFÜGEN.

Firma:

Adresse:

Kontaktperson:

Tel.:

Fax:

Renvoyer à D-M-E une copie dûment complétée de ce formulaire.

Questionnaire pour le calcul d'un tube de transfert de chaleur D-M-E.

1. Température d'injection de la matière °C
2. Température d'éjection de la matière °C
3. Température du moule °C
4. Type de matière plastique
5. Qualité d'acier du moule
6. Poids des pièces kg
7. Durée d'un cycle sec.
8. S.V.P. JOINDRE UN CROQUIS.

Compagnie:

Adresse:

Personne à contacter:

Tél.:

Fax:

♥ Cooling items
♦ Kühlmittelanschlüsse

♣ Toebehoren voor matrijskoeling
♠ Accessoires de refroidissement

DUO

♥ Duo Press 60, power pump,
to test cooling lines for leaks

♦ Duo Press 60, Hochdruckpumpe,
prüft Kühlbohrungen auf Leckage



♣ Duo Press 60, krachtpomp,
voor het opsporen van lekken
in koelcircuits

♠ Duo Press 60, la pompe
pour le contrôle de l'étanchéité
dans les circuits de refroidissement

REF.

DUO-0060

♥ Technical specification:

Pressure: max. 60 bar
pressure up to 100 bar upon request
Weight: 5 kg
Piston diameter: piston 1: 16 mm
piston 2: 10 mm
Test liquids: water or oil

♦ Technische Daten:

Druck: bis max. 60 bar
auf Anfrage auch für höheren Druck
(max. 100 bar)
Gewicht: 5 Kg
Kolbendurchmesser: Kolben 1: 16 mm
Kolben 2: 10 mm
Testflüssigkeiten: Wasser oder Öl

♣ Technische specificaties:

Druk: max. 60 bar
pompen voor druk tot 100 bar zijn leverbaar
op aanvraag
Gewicht: 5 kg
Zuigerdiameter: zuiger 1: 16 mm
zuiger 2: 10 mm
Testvloeistof: water of olie

♠ Caractéristiques techniques:

Pression d'utilisation: max. 60 bar
jusqu'à 100 bar sur demande
Poids: 5 kg
Diamètres des pistons: piston 1: 16 mm
piston 2: 10 mm
Liquides d'épreuve: eau ou huile

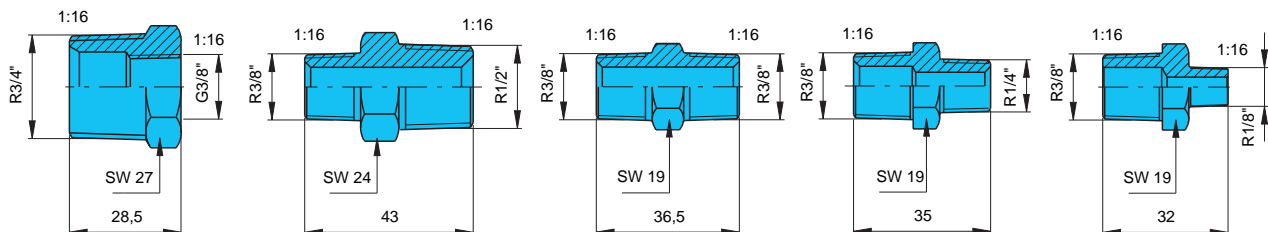
EAS

♥ Adapter for Duo-Press 60

♦ Adapter für Duo-Press 60

♣ Adapter voor Duo-Press 60

♠ Adaptateur pour Duo-Press 60



R 3/4" x 3/8"

♥ Reducing nipple
♦ Reduktionsnippel
♣ Verloopnippel
♠ Réduction

R 3/8" x 1/2"

R 3/8" x 1/4"

♥ Connector plugs
♦ Anschlußnippel
♣ Aansluitnippels
♠ Embouts

R 3/8" x 3/8"

R 3/8" x 1/2"

REF.

EAS-0001

♥ Set (5 pieces)

♣ Set (5 stuks)

♦ Satz (5 Stück)

♠ Jeu (5 pièces)

♥ Sold per complete set

♦ Verkauft als kompletter Satz

♣ Verkocht per volledige set

♠ Vendu par jeu complet

♥ Cooling Items

◆ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣

Accessoires de refroidissement ♠

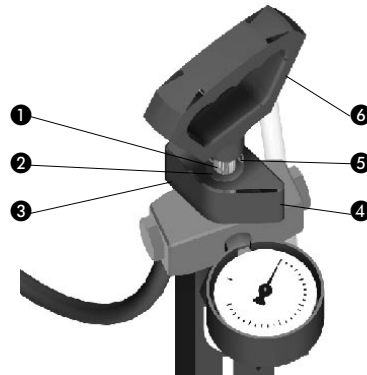
♥ Operation instructions

◆ Gebrauchsanweisung

♣ Gebruiksaanwijzing

♠ Mode d'emploi

- 1 ♥ Small piston
◆ Kleiner Kolben
♣ Kleine zuiger
♠ Petit piston
- 2 ♥ Large piston
◆ Großer Kolben
♣ Grote zuiger
♠ Grand piston
- 3 ♥ Steering unit
◆ Steuerteil
♣ Stuureenheid
♠ Élément de contrôle



- 4 ♥ Catch
◆ Arretierbolzen
♣ Vergrendeleenheid
♠ Encliquetage
- 5 ♥ Stop nut
◆ Arretiernut
♣ Stop
♠ Butée
- 6 ♥ Handle
◆ Handgriff
♣ Handgreep
♠ Poignée

♥ To check a system

1. Connect the coupling nut of the pressure hose to the system that needs to be checked. The system should then be filled with a suitable liquid.
2. Put the transparent suction hose in the liquid to be circulated.
3. Use the handle 6 to push both pistons 1 and 2 down to the stop.
4. Screw down both pistons completely by turning the handle clockwise.
5. Turn the steering unit 3 clockwise until the stop.
6. By turning the handle 6 gently to the left or right, the catch in the large piston is released, it is now possible to pump up to 15 bar.
7. In order to reach higher pressures with less effort, the handle is first pushed down completely, then turned anticlockwise. The catch engages.
8. By turning the handle further to the left both pistons 1 and 2 are separated.
9. It is now possible to reach pressures up to 60 bar effort- lessly by pumping through the smallest piston.

♥ To empty the system

1. In order to secure both pistons 1 and 2 together, the handle 6 is pushed down fully and turned clockwise.
2. Continue to turn the handle 6 gently, the pistons are now in the rest position. When the catch 4 engages, a soft click is heard.
3. Turn the steering unit 3 anticlockwise. The pressurised fluid flows through the pump system and suction hose back into the tank.

◆ Prüfen des Systems

1. Druckschlauch mit Überwurfmutter an das zu prüfende System anschließen. Das System muß mit einem geeigneten, flüssigen Medium gefüllt sein.
2. Ansaugschlauch in den Behälter mit dem einzupumpenden Medium geben.
3. Mit Handgriff 6 die beiden Kolben 1 und 2 bis zum Anschlag nach unten schieben.
4. Beide Kolben 1 und 2 durch Drehen des Handgriffes im Uhr- zeigersinn vollständig verschrauben.
5. Steuerteil 3 im Uhrzeigersinn bis zum Anschlag verdrehen.
6. Durch leichtes Links- oder Rechtsdrehen des Handgriffes 6 wird die Arretierung im großen Kolben gelöst, es kann jetzt bis ca. 15 bar gepumpt werden.
7. Um mit geringerer Kraftaufwendung einen höheren Druck zu erreichen, wird der Handgriff erst ganz nach unten gedrückt und dann gegen den Uhrzeigersinn verdreht. Die Arretierung rastet ein.
8. Durch weiteres Linksdrehen werden beide Kolben 1 und 2 getrennt.
9. Nun wird durch Pumpen mit dem kleinen Kolben 1 der gewünschte Druck (bis 60 bar) mühelos erreicht.

◆ Entleeren des Systems

1. Um die beiden Kolben 1 und 2 miteinander zu verschrauben, wird der Handgriff 6 ganz nach unten geschoben und im Uhrzeigersinn verdreht.
2. Durch leichtes Weiterdrehen des Handgriffes 6 werden die Kolben in Arretierstellung gebracht. Wenn der Arretierbolzen 4 einrastet, hören Sie ein leises Klick.
3. Steuerteil 3 nun gegen den Uhrzeigersinn verdrehen. Das unter Druck stehende flüssige Medium entweicht über das Pumpensystem und den Ansaugschlauch zurück in den Behälter.

♣ Testen van het systeem

1. Verbind het koppelstuk van de hogedrukslang met het systeem dat wordt getest. Het systeem vullen met een geschikte vloeistof.
2. Hang de transparante aanzuigslang in het recipiënt van de testvloeistof.
3. Gebruik de handgreep 6 om beide zuigers 1 en 2 volledig naar beneden te duwen.
4. Schroef beide zuigers vast door de handgreep rechtsom te draaien.
5. Draai de stuureenheid 3 rechtsom tot aan de stop.
6. Beweeg de handgreep 6 zachtjes naar links of rechts. De vergrendeling in de grote zuiger ontkoppelt, wat het mogelijk maakt tot 15 bar te pompen.
7. Om nu moeiteloos hogere druk te verkrijgen, de handgreep volledig omhoog duwen en vervolgens naar links draaien. Het systeem wordt aldus vergrendeld.
8. Door de handgreep nu verder naar links te draaien komen beide zuigers 1 en 2 los van elkaar.
9. Door middel van de kleine zuiger kan nu moeiteloos tot 60 bar druk gerealiseerd worden.

♣ Ledigen van het systeem

1. Schroef beide zuigers 1 en 2 samen door de handgreep 6 volledig naar beneden te duwen en rechtsom te draaien.
2. Blijf zachtjes draaien, de zuigers zijn nu in rustpositie. Bij vergrendeling 4 is een zachte klik hoorbaar.
3. Draai de stuureenheid 3 naar links. De onder druk gehouden vloeistof loopt nu via het pompsysteem en de aanzuigslang terug in het recipiënt van de testvloeistof.

♠ Procédure de mise sous pression d'un système

1. Raccorder l'embout du tuyau de refoulement au système à tester. Le système doit être rempli du liquide adéquat.
2. Plonger le tuyau transparent d'aspiration dans le liquide à pomper.
3. Par la poignée 6 pousser les 2 pistons 1 et 2 jusqu'à la butée inférieure.
4. Bloquer les pistons au point mort bas en tournant la poignée dans le sens des aiguilles d'une montre.
5. Tourner l'élément de contrôle 3 dans le sens des aiguilles d'une montre jusqu'à la butée.
6. En tournant délicatement la poignée 6 à gauche ou à droite, l'encliquetage du grand piston se libère et il devient possible de pomper jusqu'à 15 bar.
7. Pour atteindre des pressions supérieures, il faut d'abord pousser la poignée à fond vers le bas et la tourner dans le sens contraire aux aiguilles d'une montre jusqu'à l'encliquetage.
8. En continuant à tourner la poignée dans le sens antihorlogique, les deux pistons 1 et 2 sont séparés.
9. Il est dès lors possible d'atteindre 60 bar sans effort en pompant avec le petit piston.

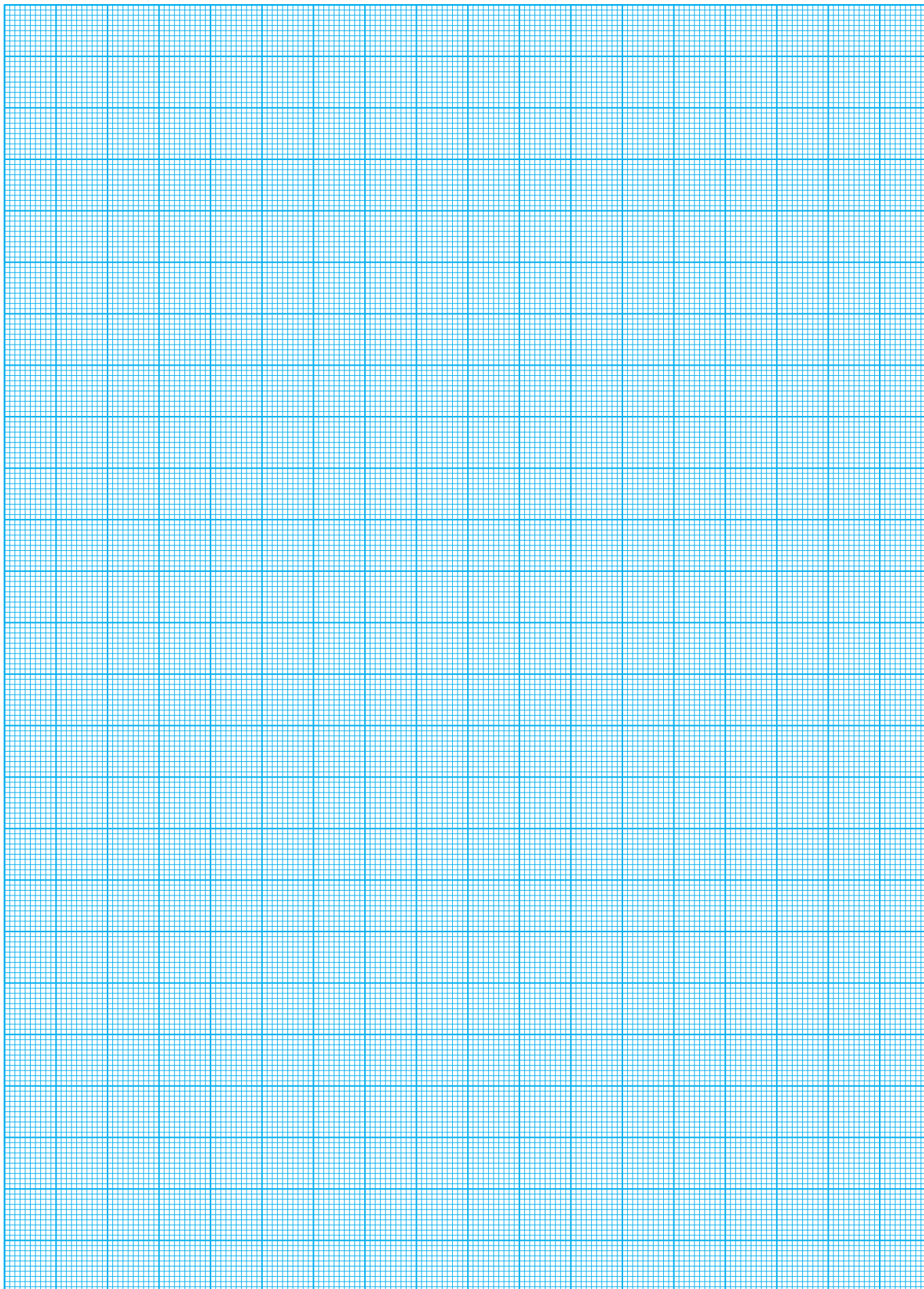
♠ Vidange du système

1. Pour solidariser les 2 pistons 1 et 2 pousser la poignée 6 à fond vers le bas et la tourner dans le sens horlogique.
2. Continuer à tourner délicatement la poignée. Les pistons atteignent leur position de repos. L'encliquetage 4 est audible.
3. Tourner l'élément du contrôle dans le sens antihorlogique. Le liquide sous pression retourne dans le réservoir au travers de la pompe et par le tuyau d'aspiration.

♥ Cooling Items
♦ Kühlmittelanschlüsse

Toebehoren voor matrijskoeling ♣
Accessoires de refroidissement ♠

NOTES - NOTIZEN - NOTA'S - NOTES

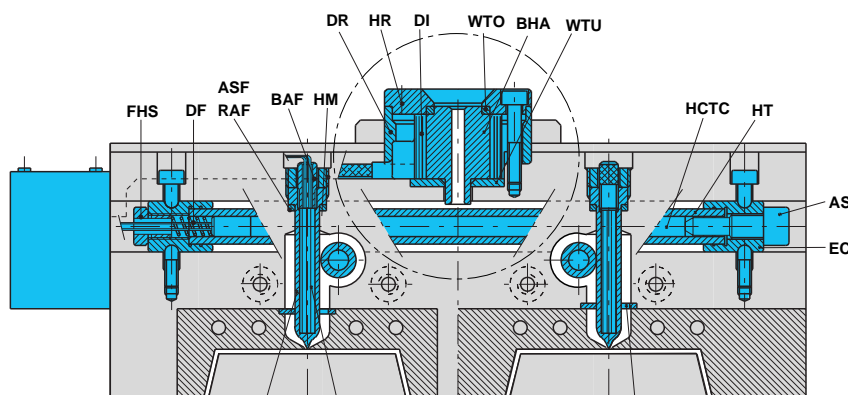
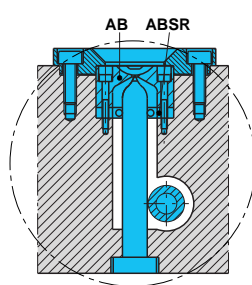
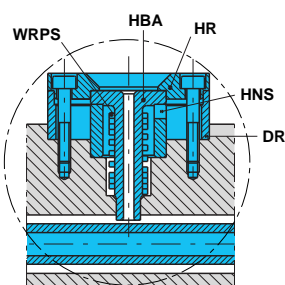
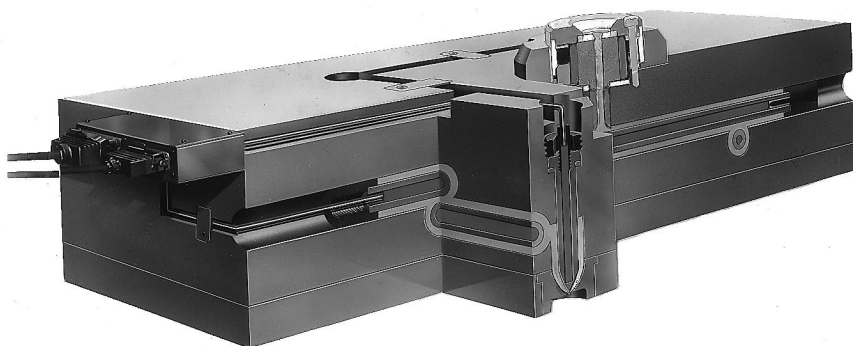


Index

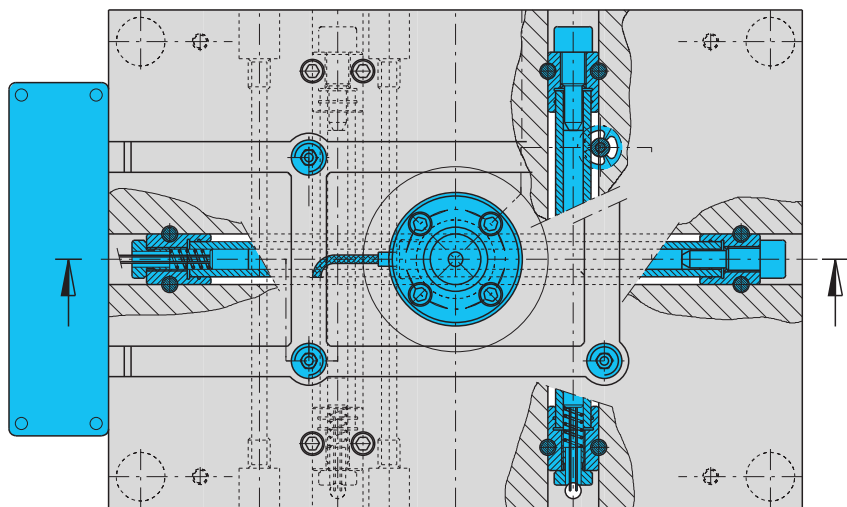
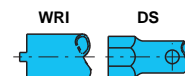
	p.	REF.	p.
Info: Système 'Cool-One'- Conception de base	8a-2	AB	8a- 8
		ABSR	8a- 8
Info: Système 'Cool-One' - Moule à étages	8a-3	AFIP	8a- 6
		AFIP 3-4-5	8a- 6
Info: Busettes et accessoires	8a-4	AFM	8a- 7
		AFP	8a- 5
Info: Système de distribution 'Cool-One'	8a-9	AFR	8a- 4
		AFTC	8a- 5/8a- 7
Info: Adaptateurs chauffants	8a-11/8a-12	AS	8a- 9
		ASF	8a- 4
Info: Directives pour la construction d'un bloc à canaux chauds 'Cool-One'	8a-13/8a-14/8a-15	BAF	8a- 8
		BHA	8a-11
		DF	8a- 9
		DI	8a-11
		DR	8a-11/8a-12
		DS	8a- 8
		EC	8a- 9
		FHS	8a- 9
		HBA	8a-12
		HCTC	8a-10
		HM	8a- 8
		HNS	8a-12
		HR	8a-11/8a-12
		HT	8a-10
		MPT	8a- 7
		P	8a- 5
		RAF	8a- 4
		TC	8a- 6
		WRI	8a- 8
		WRPS	8a-12
		WTO	8a-11
		WTU	8a-11

Info

Système 'Cool-One' - Conception de base



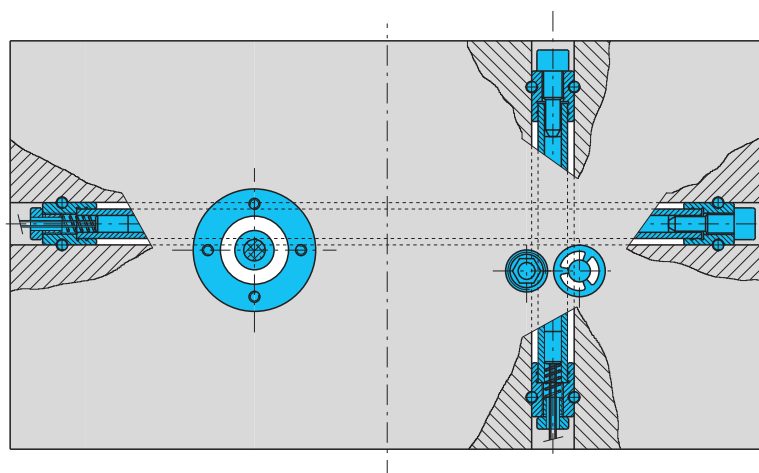
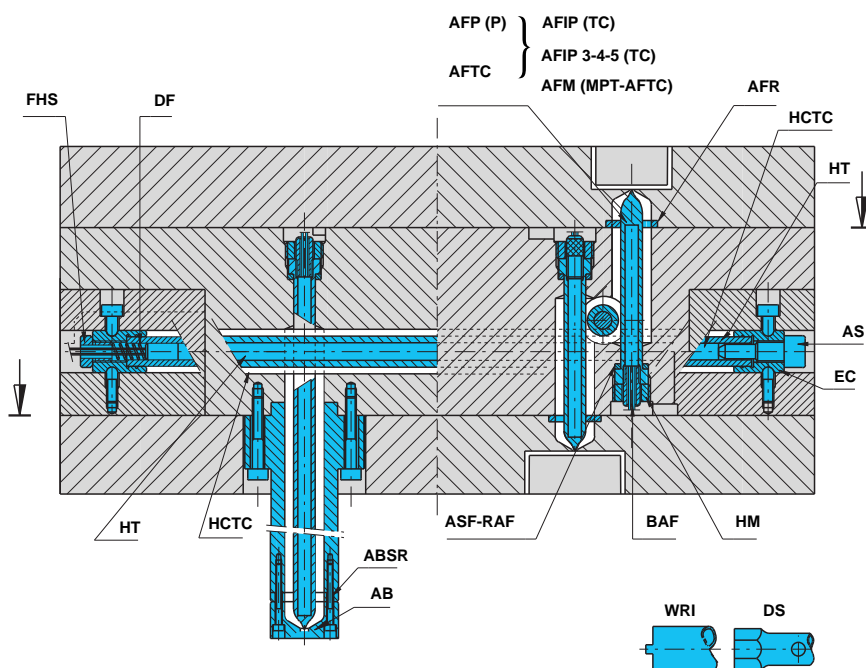
AFP(P) AFTC
AFIP (TC)
AFIP 3-4-5 (TC)
AFM (MPT + AFTC)



AB	Buse d'injection pour busette inversée	8a- 8
ABSR	Anneau de centrage pour busette inversée	8a- 8
AFIP	Busette à élément chauffant intégré 'Auto-fixed®'	8a- 6
AFIP 3-4-5	Busette à élément chauffant intégré 'Auto-fixed®'	8a- 6
AFM	Busette à pointes multiples - complète	8a- 7
AFP	Busette conventionnelle - complète	8a- 5
AFR	Anneau de centrage	8a- 4
AFTC	Cartouche chauffante à thermocouple type 'J'	8a- 5/8a- 7
AS	Butée pour cartouche chauffante	8a- 9
ASF	Rondelle d'épaisseur	8a- 4
BAF	Vis de retenue de cartouche chauffante	8a- 8
BHA	Corps adaptateur chauffant	8a-11
DF	Ressort	8a- 9
DI	Collier chauffant à thermocouple type 'J' pour adaptateur chauffant	8a-11
DR	Entretoise pour adaptateurs chauffants	8a-11/8a-12
DS	Clé pour vis de fixation	8a- 8
EC	Embout	8a- 9
FHS	Butée à vis	8a- 9
HBA	Corps adaptateur chauffant	8a-12
HCTC	Cartouche chauffante à thermocouple type 'J'	8a-10
HM	Vis de fixation	8a- 8
HNS	Anneau d'épaisseur pour adaptateur chauffant	8a-12
HR	Anneau de centrage pour adaptateurs chauffants	8a-11/8a-12
HT	Tube de distribution	8a-10
MPT	Pointe pour busette à pointes multiples	8a- 7
P	Busette conventionnelle	8a- 5
RAF	Rondelle d'épaisseur	8a- 4
TC	Thermocouple type 'J'	8a- 6
WRI	Clé pour vis de fixation	8a- 8
WRPS	Élément hélicoïdal à section carrée à thermocouple type 'J' pour adaptateur chauffant	8a-12
WTO	Bague isolante (supérieure) pour adaptateur chauffant	8a-11
WTU	Bague isolante (inférieure) pour adaptateur chauffant	8a-11

Info

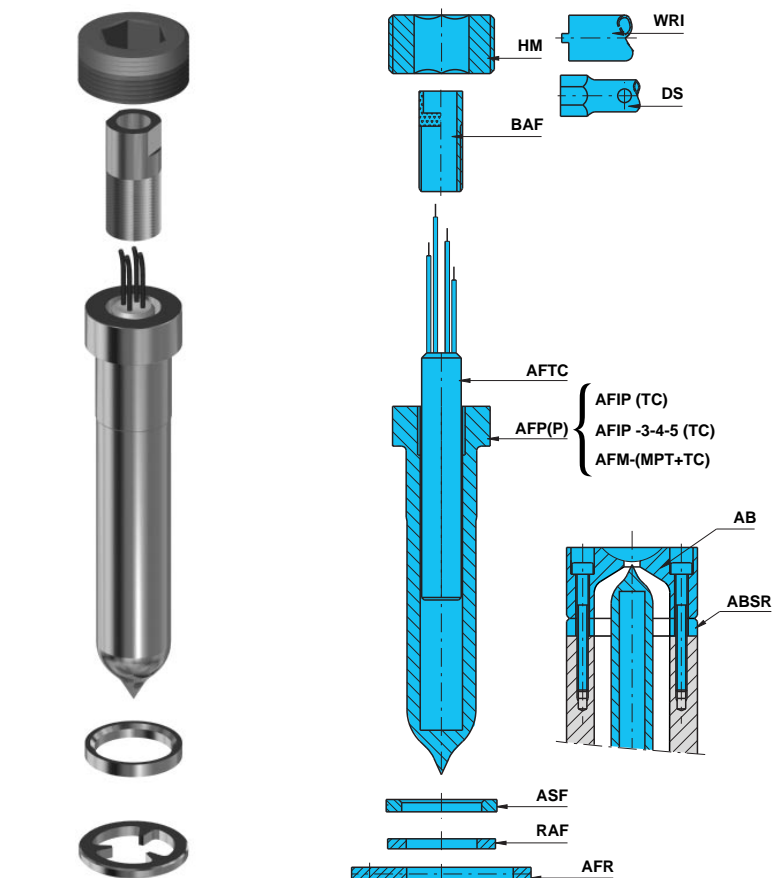
Système 'Cool-One' - Moule à étage



AB	Busette d'injection pour busette inversée	8a- 8
ABSR	Anneau de centrage pour busette inversée	8a- 8
AFIP	Busette à élément chauffant intégré 'Auto-fixed'® - complète	8a- 6
AFIP 3-4-5	Busette à élément chauffant intégré 'Auto-fixed'® - complète	8a- 6
AFM	Busette à pointes multiples - complète	8a- 7
AFP	Busette conventionnelle - complète	8a- 5
AFR	Anneau de centrage	8a- 4
AFTC	Cartouche chauffante à thermocouple type 'J'	8a- 5/8a- 7
AS	Butée pour cartouche chauffante	8a- 9
ASF	Rondelle d'épaisseur	8a- 4
BAF	Vis de retenue de cartouche chauffante	8a- 8
DF	Ressort	8a- 9
DS	Clé pour vis de fixation	8a- 8
EC	Embout	8a- 9
FHS	Butée à vis	8a- 9
HCTC	Cartouche chauffante à thermocouple type 'J'	8a-10
HM	Vis de fixation	8a- 8
HT	Tube de distribution	8a-10
MPT	Pointe pour busette	8a- 7
P	Busette conventionnelle	8a- 5
RAF	Rondelle d'épaisseur	8a- 4
TC	Thermocouple type 'J'	8a- 6
WRI	Clé pour vis de fixation	8a- 8

Info

Busettes et accessoires

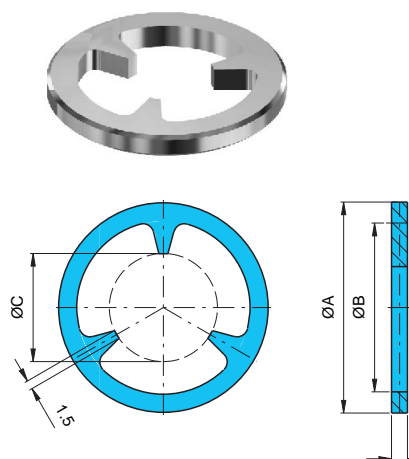


Instructions pour l'installation voir page **8a-13/8a-14/8a-15**

AB	Buse d'injection pour busette inversée	8a-8
ABSR	Anneau de centrage pour busette inversée	8a-8
AFIP	Busette à élément chauffant intégré 'Auto-fixed®' - complète	8a-6
AFIP 3-4-5	Busette à élément chauffant intégré 'Auto-fixed®' - complète	8a-6
AFM	Busette à pointes multiples - complète	8a-7
AFP	Busette conventionnelle - complète	8a-5
AFR	Anneau de centrage	8a-4
AFTC	Cartouche chauffante à thermocouple type 'J'	8a-5/8a-7
ASF	Rondelle d'épaisseur	8a-4
BAF	Vis de retenue de cartouche chauffante	8a-8
DS	Clé pour vis de fixation	8a-8
HM	Vis de fixation	8a-8
MPT	Pointe pour busettes	8a-7
P	Busette conventionnelle	8a-5
RAF	Rondelle d'épaisseur	8a-4
TC	Thermocouple type 'J'	8a-6
WRI	Clé pour vis de fixation	8a-8

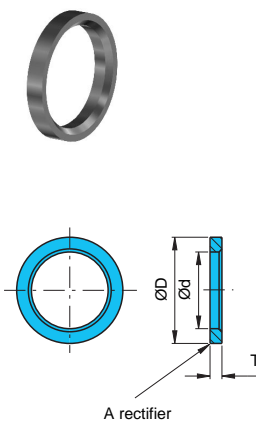
AFR

Anneaux de centrage



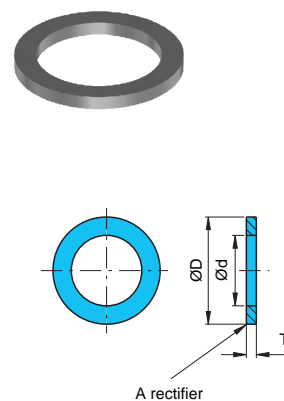
ASF

Rondelles d'épaisseur



RAF

Rondelles d'épaisseur

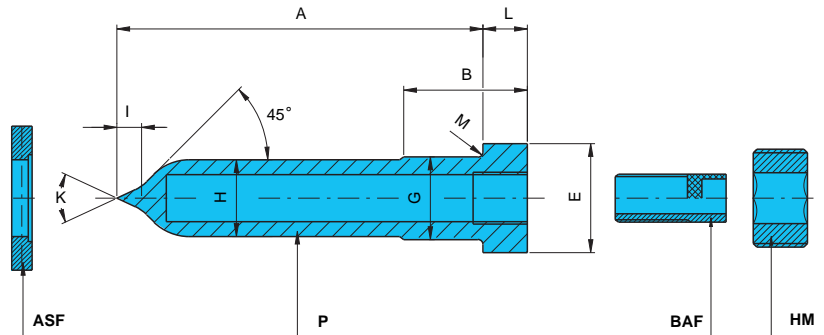


REF.	A	B	C	D	pour	REF.	D	d	T	REF.	D	d	T	pour
AFR-2508	25,40	20,62	7,95	3,0	AFIP-3	ASF-1 N	15,5	10,5	2	RAF 3-062	15,6	11,6	1,57	AFIP-3
-2710	26,97	22,00	9,88	3,0	-4	-2 N	18	13,0	2	4-062	18,14	11,9	1,57	-4
-3013	30,15	23,80	12,59	3,0	-5	-3 N	18	14,5	3	5-062	18,14	14,3	1,57	-5
-3114	31	23	13,50	3,0	AFP	-4 N	22	16,5	4					
-3414	34	26	13,50	3,0	Mini	-5 N	28	22,5	4					
-3416	34	26	15,50	3,0	AFP									
-4016	40	32	15,50	3,0	Standard									
-4022	40	32	21,50	3,0	AFP Maxi									
-4023	40	32	22	3,0	AFM									

Busettes et accessoires

AFP - P

Busettes conventionnelles - complètes



	REF. complètes *	REF. busettes	A	B	E	G	H	I	K	L	M
MINI	AFP- 201 N	P- 201 N	58	20	18	14,0	13,5	4	40°	7	0,5
	- 251 N	P- 251 N	73								
	- 271 N	P- 271 N	93								
	- 291 N	P- 291 N	118								
STANDARD	AFP- 301 N	P- 301 N	74	25	22	15,9	15,5	5	50°	9	1,0
	- 401 N	P- 401 N	91								
	- 501 N	P- 501 N	118								
	- 601 N	P- 601 N	143								
MAXI	AFP- 502 N	P- 502 N	115	35	28	22,0	21,5	7	60°	12	1,0
	- 602 N	P- 602 N	140								
	- 702 N	P- 702 N	168								
	- 802 N	P- 802 N	198								
	- 902 N	P- 902 N	248								
	-1002 N	P-1002 N	320								
	-1102 N	P-1102 N	370								

* Complètes
inclus:

ASF: rondelle d'épaisseur

P: busette conventionnelle

BAF: vis de retenue de cartouche chauffante

HM: vis de fixation

A commander séparément:

AFTC: Cartouche chauffante à thermocouple type 'J'

Instructions pour l'installation voir page **8a-13/8a-15**

Fait d'acier fin inoxydable de très bonne conductivité.
Convient pour la plupart des thermoplastiques, chargés ou non.
Revêtement nitrure de titane sur demande.

AFTC

Cartouches chauffantes à thermocouple - type 'J'



	REF.	d	max. L	Watt 230 V	Amp.	
MINI	AFTC-0825 E	8,00	50	140	0,6	Longueur du câble 850 mm Câble noir 230 V Câble noir 230 V Câble blanc + } thermocouple type 'J' Câble rouge - }
	-0826 E		65	185	0,8	
	-0827 E		85	215	0,9	
	-0828 E		110	300	1,3	
STANDARD	AFTC-302-2 E	9,52	66	190	0,8	
	-303-2 E		83	240	1,0	
	-304-2 E		110	310	1,4	
	-305-2 E		136	390	1,7	
MAXI	AFTC-1210 E	12,50	104	305	1,4	
	-1212 E		130	365	1,6	
	-1215 E		162	440	1,9	
	-1218 E		190	515	2,2	
	-1223 E		242	645	2,8	
	-1230 E		312	930	4,1	
	-1236 E		362	1300	5,5	

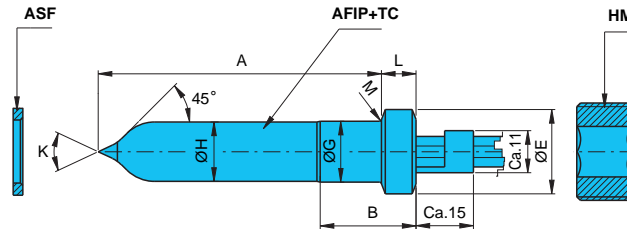
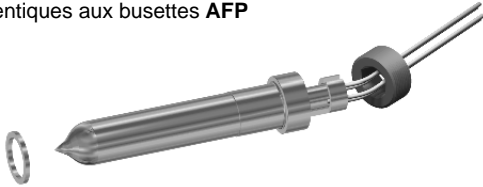
Systèmes de moulage - à canaux chauds 'Cool-One'

Busettes et accessoires

AFIP

Busettes à élément chauffant intégré 'Auto-fixed'® - complètes

Note: La teinte bleutée de la busette est due au test de contrôle et ne modifie en rien son bon fonctionnement. Toutes les dimensions extérieures sont identiques aux busettes **AFP**



	REF. complètes * droit	A	B	E	G	H	K	L	M	Watt 230 V
MINI	AFIP-201	58	20	18	14,0	13,5	40°	7	0,5	165
	-251	73								185
	-271	93								250
STANDARD	AFIP-301	74	25	22	15,9	15,5	50°	9	1,0	220
	-401	91								275
	-501	118								360
	-601	143								445

* Complètes

inclus:

ASF: rondelle d'épaisseur

AFIP: busette 'Auto-fixed'®

HM: vis de fixation

TC: thermocouple type 'J'

Longueur du câble 850 mm

Câble noir 230 V

Câble noir 230 V

Câble blanc + } thermocouple

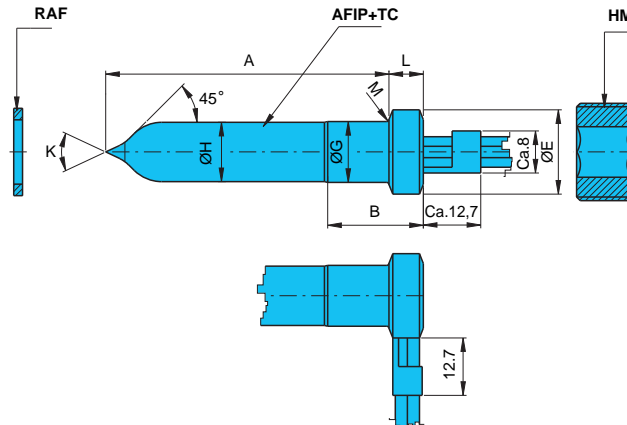
Câble rouge - } type 'J'

Instructions pour l'installation voir page 8a-13/8a-15

AFIP 3-4-5

Busettes à élément chauffant intégré 'Auto-fixed'®

Note: La teinte bleutée de la busette est due au test de contrôle et ne modifie en rien son bon fonctionnement.



	REF. complètes * droit	REF. complètes * 90°	A	B	E	G	H	K	L	M	Watt 230 V
MICRO		AFIP 3-310-90	69,1	25,4	15,75	10	7,92	40°	9,5	0,76	100
		-360-90	81,8								120
		-410-90	94,5								140
		-460-90	107,2								155
	AFIP 4-322	AFIP 4-322-90	69,1	28,7	18,3	10	9,76	40°	12,7	0,76	125
	-372	-372-90	81,8								145
MINI	-422	-422-90	94,5								170
	-472	-472-90	107,2								195
	AFIP 5-372	AFIP 5-372-90	81,8	28,7	18,3	12,7	12,45	40°	12,7	0,76	185
	-422	-422-90	94,5								210
	-472	-472-90	107,2								245
	-522	-522-90	119,9								270
	-572	-572-90	132,6								300
	-622	-622-90	145,3								330

* Complètes

consistent de:

RAF: rondelle

d'épaisseur

AFIP 3-4-5: busette

'Auto-fixed'®

HM: vis de fixation

TC: thermocouple

type 'J'

Longueur du câble 850 mm

Câble noir 230 V

Câble noir 230 V

Câble blanc + } thermocouple

Câble rouge - } type 'J'

Instructions pour l'installation voir page 8a-13/8a-15

TC

Pièces de rechange

Thermocouples type 'J'



REF.	L
TC 9900	1,2 m

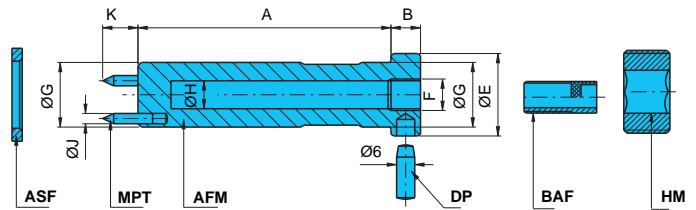
Câble blanc + } thermocouple
Câble rouge - } type 'J'

Systèmes de moulage - à canaux chauds 'Cool-One'

Busettes et accessoires

AFM

Busettes à pointes multiples



REF. complètes *	A	B	E	F	G	H	K max.	J	Nbr. des pointes	Mat. des pointes
AFM-0012	86	10	28	M12x1	22	9,52	10	3,5	2	anti-usure
-0013									3	
-0014									4	
-0015									5	
-0016									6	
-0017									7	
-0018									8	
AFM-0022									2	Standard
-0023									3	
-0024									4	
-0025									5	
-0026									6	
-0027									7	
-0028									8	

Complètes *

inclus:

ASF: rondelle d'épaisseur

AFM: busette à pointes multiples

MPT: pointes montées

BAF: vis de retenue de cartouche chauffante

HM: vis de fixation

DP: goupille cylindrique Ø6 x 16

Comment commander:

Spécifier:

REF.

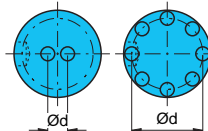
Dimension d, n'importe laquelle entre 5 mm et 18 mm

orientation de la goupille cylindrique

Exemples de position des pointes

2 pointes

8 pointes



d	pointes
Min 5 mm	Min 2
Max 18 mm	Max 8

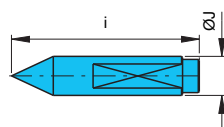
A commander séparément:

AFTC: cartouche chauffante à thermocouple type 'J'

MPT

Pièces de rechange

Pointes pour busettes à pointes multiples



AFTC

Cartouches chauffantes à thermocouple type 'J'



Longueur du câble 850 mm

Câble noir 230 V

Câble noir 230 V

Câble blanc + } thermocouple

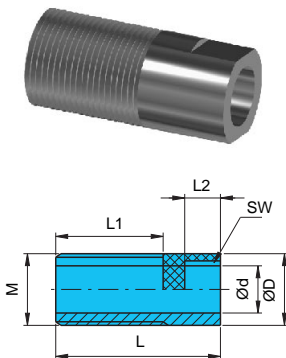
Câble rouge - } type 'J'

REF.	Mat.	i	ØJ	REF.	d	L	Watt 230 V.	Amp.
MPT-01	anti-usure	22	3,5	AFTC-303-2F	9,52	85	345	1,50
MPT-02	Standard	22	3,5					

Busettes et accessoires

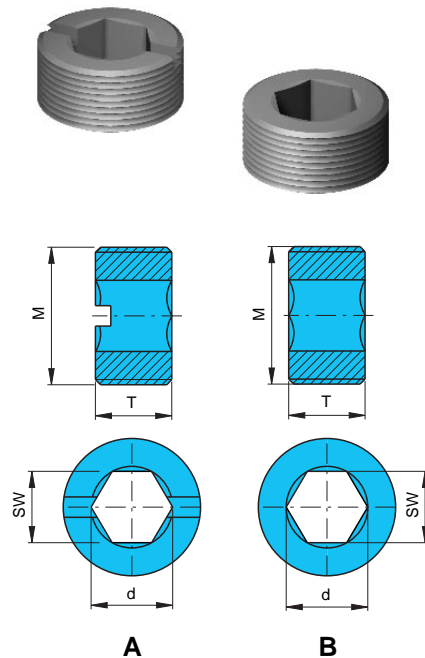
BAF

Vis de retenue de cartouche chauffante



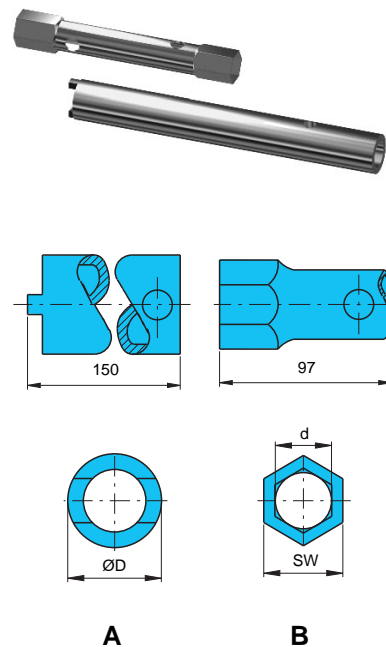
HM

Vis de fixation



WRI - DS

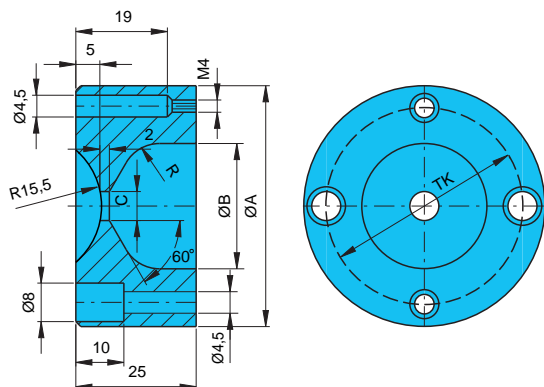
Clés pour vis de fixation



REF.	D	d	M	L	L ₁	L ₂	SW	REF.	TYPE	M	T	d	SW	REF.	D	d	TYPE	REF.	SW	d	TYPE
BAF 10 N	10	6	M 10 x 1	23	15	5	9	HM-22	A	M 22	12,5	14,0	12	WRI-92	18	12	A	DS-1011	14	7	B
12 N	12	8	M 12 x 1	30	16	8	10	HM-27	B	M 27	15,0	16,0	14					-1314	17	9	
16 N	16	10	M 16 x 1	35	20		14	HM-32 x 1,5	B	M 32 x 1,5		19,5	17								

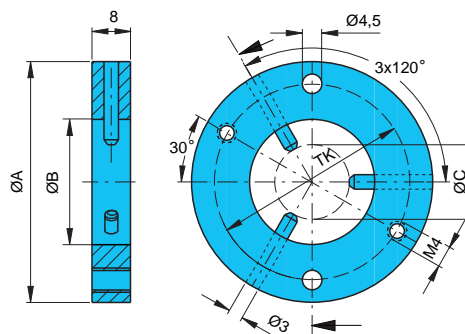
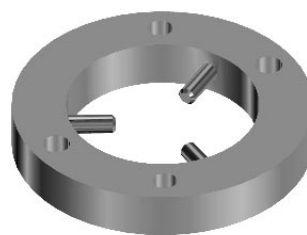
AB

Buses d'injection pour busette inversée



ABSR

Anneaux de centrage pour busette inversée

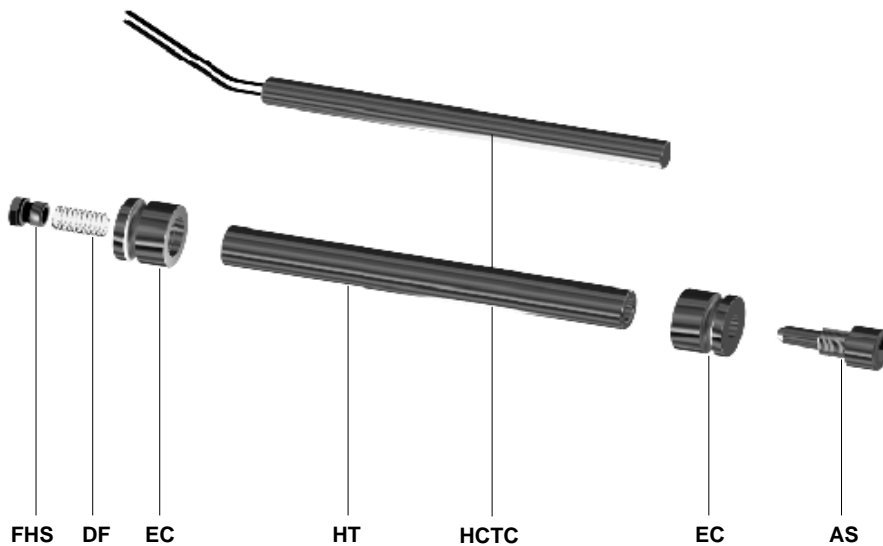


REF.	A	B	C	R	TK	REF.	A	B	C	TK
AB-14 N		23		6		ABSR-14 N		23	13,5	
-16 N	50	26	6	8	41	-16 N	50	26	15,5	41
-22 N		32	8	13		-22 N		32	21,5	

Systèmes de moulage - à canaux chauds 'Cool-One'

Info

Système de distribution 'Cool-One'

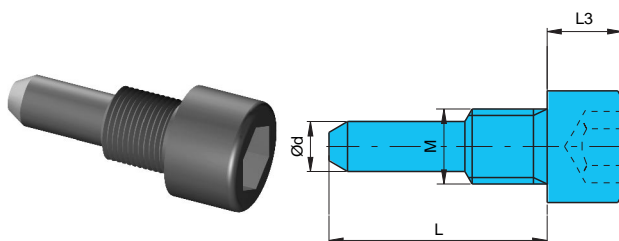


Instructions pour l'installation voir page **8a-13/8a-14/8a-15**

AS	Butée pour cartouche chauffante	8a- 9
DF	Ressort	8a- 9
EC	Embout	8a- 9
FHS	Butée à vis	8a- 9
HCTC	Cartouche chauffante à thermocouple type 'J' (Fermeture étanche en teflon)	8a-10
HT	Tube de distribution	8a-10

AS

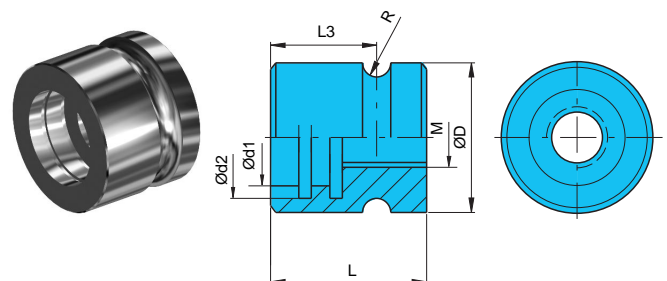
Butées pour cartouche chauffante



REF.	L	M	d	L3
AS-12 N	35	M 12	8	12
-16 N	50	M 16	11	16
-20 N	50	M 20	14	20

EC

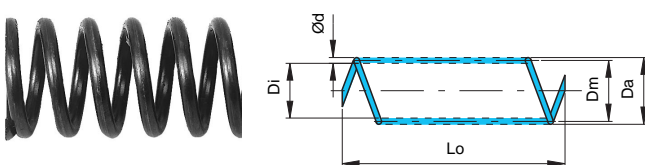
Embouts



REF.	D	d1	d2	L	L3	R	M
EC- 03 N	24	16	18	25	17	4,5	M 12
-03/5 N	32						
EC- 04 N	32	22,22	24	38	26	4,5	M 16
-04/5 N	40						
EC- 05 N	50	41,27	43	38	26	4,5	M 20
-05/5 N	50						

DF

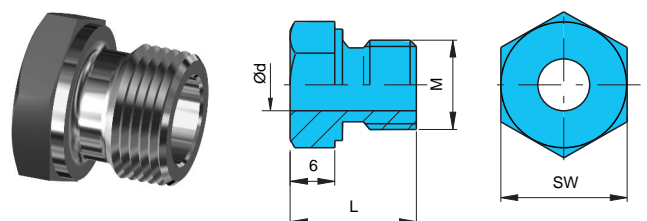
Ressorts



REF.	Da	Lo	Di	Dm	d
DF 9 x 30	9	30	7,4	8,2	0,8
12 x 55	12	55	9	10,5	1,5
15 x 55	15	55	12	13,5	1,5

FHS

Butées à vis



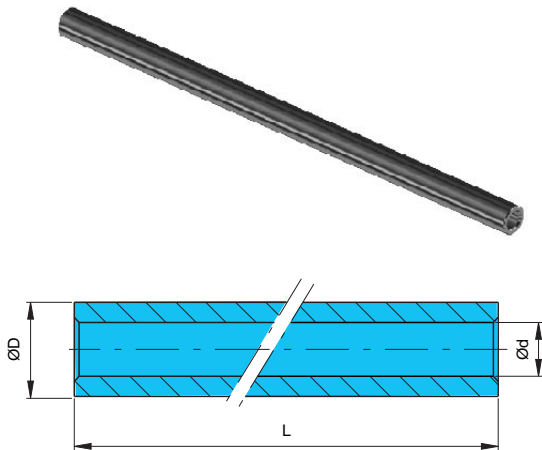
REF.	L	M	d	SW
FHS-12	17	M 12	7	17
-16	20	M 16	10	19
-20	23	M 20	13	24

Systèmes de moulage - à canaux chauds 'Cool-One'

Systèmes de distribution 'Cool-One'

HT

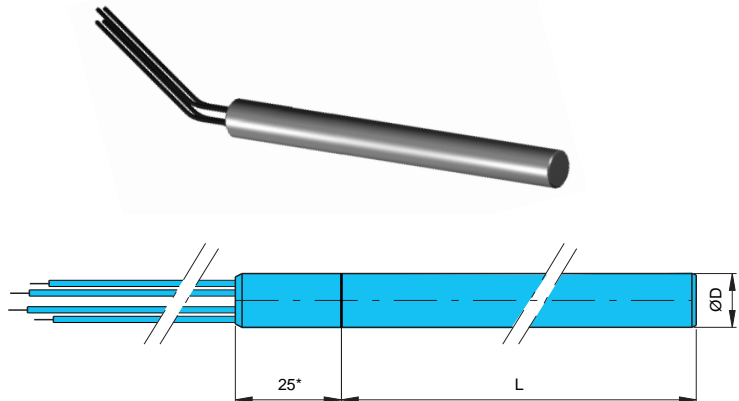
Tubes de distribution



HCTC

Cartouches chauffantes à thermocouple type 'J' (Fermeture étanche en teflon)

Longueur du câble 850 mm
Câble noir 230 V
Câble noir 230 V
Câble blanc + } thermocouple
Câble rouge - } type 'J'



* Zone non chauffée - L tot. = L + 25 mm

Instructions pour l'installation voir page 8a-13/8a-14/8a-15

	REF.	D	d	L	REF.	D	L	Watt 230 V	Amp.	REF.	D	L	Watt 230 V	Amp.
MINI + MICRO	HT-03- 30 N	16,00	9,52	300	HCTC-03- 4 E	9,52	102	350	1,6	HCTC-04-30 E	12,70	762	2940	12,8
	- 40 N			400	-45 E		114	370	1,6	-31 E		787	3150	13,7
	- 50 N			500	- 5 E		127	435	1,9	HCTC-05- 6 E		152	570	2,5
	- 60 N			600	-55 E		140	470	2,1	- 7 E		178	670	3,0
STANDARD + MINI	HT-04- 20 N	22,22	12,70	200	- 6 E	12,70	152	490	2,1	- 8 E	15,87	203	810	3,6
	- 30 N			300	-65 E		165	515	2,2	- 9 E		229	930	4,1
	- 40 N			400	- 7 E		178	525	2,3	-10 E		254	1060	4,6
	- 50 N			500	- 8 E		203	600	2,6	-11 E		279	1190	5,2
	- 60 N			600	- 9 E		229	710	3,1	-12 E		305	1310	5,7
	- 70 N			700	-10 E		254	775	3,3	-13 E		330	1440	6,3
	- 80 N			800	-11 E		279	785	3,5	-14 E		356	1560	6,8
	- 90 N			900	-12 E		305	830	3,7	-15 E		381	1690	7,3
MAXI + STANDARD	HT-05- 30 N	41,27	15,87	300	-13 E	12,70	330	885	3,9	-16 E	15,87	406	1815	7,8
	- 40 N			400	-14 E		356	905	4,0	-17 E		432	1935	8,4
	- 50 N			500	-15 E		381	1200	5,2	-18 E		457	2065	9,0
	- 60 N			600	-16 E		406	1310	5,7	-19 E		483	2200	9,5
	- 70 N			700	-17 E		432	1420	6,2	-20 E		508	2320	10,0
	- 80 N			800	-18 E		457	1530	6,7	-21 E		533	2450	10,7
	-100 N			1000	HCTC-04- 5 E		127	425	1,9	-22 E		559	2570	11,2
	-120 N			1200	- 6 E		152	435	1,9	-23 E		584	2690	11,7
					- 7 E		178	480	2,1	-24 E		610	2820	12,2
					- 8 E		203	600	2,6	-25 E		635	2940	12,8
					- 9 E		229	710	3,1	-26 E		660	3070	13,4
					-10 E		254	765	3,3	-27 E		686	3190	13,9
					-11 E		279	850	3,7	-28 E		711	3320	14,4
					-12 E		305	940	4,1	-29 E		737	3475	15,2
					-13 E		330	1040	4,5	-30 E		762	3550	15,5
					-14 E		356	1110	4,8	-31 E		787	3700	16,1
					-15 E		381	1200	5,2	-32 E		813	3825	16,6
					-16 E		406	1310	5,7	-33 E		838	3945	17,1
					-17 E		432	1420	6,2	-34 E		864	4065	17,7
					-18 E		457	1475	6,4	-35 E		889	4200	18,3
					-19 E		483	1575	6,8	-36 E		914	4330	18,8
					-20 E		508	1660	7,2	-37 E		940	4480	19,4
					-21 E		533	1750	7,6	-38 E		965	4590	20,0
					-22 E		559	1870	8,2	-39 E		991	4700	20,4
					-23 E		584	1980	8,6	-40 E		1016	4820	20,9
					-24 E		610	2200	9,6	-41 E		1041	4950	21,5
					-25 E		635	2280	9,9	-42 E		1067	5000	21,7
					-26 E		660	2450	10,7	-43 E		1092	5070	22,1
					-27 E		686	2550	11,1	-44 E		1118	5070	22,1
					-28 E		711	2635	11,5	-45 E		1143	5070	22,1
					-29 E		737	2840	12,3					

Important !

Jeu à respecter entre l'embout et le tube de distribution:

Longueur ≤ 600 mm = 1,5 mm

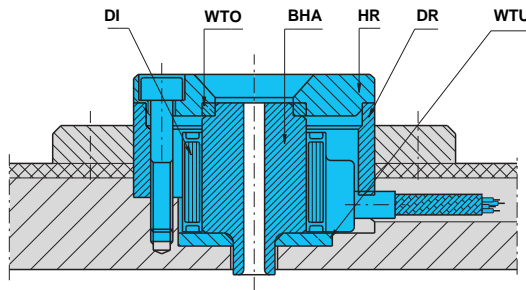
Longueur ≥ 600 mm = 3,0 mm

Après découpe, ébavurer les bouts.

Info

Adaptateurs chauffants

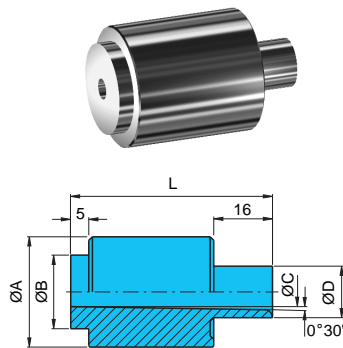
Instructions pour l'installation voir page **8a-13/8a-14/8a-15**



BHA	Corps adaptateur chauffant	8a-11
DI	Collier chauffant à thermocouple type 'J' pour adaptateur chauffant	8a-11
DR	Entretoise pour adaptateurs chauffants	8a-11
HR	Anneau de centrage pour adaptateurs chauffants	8a-11
WTO	Bague isolante (supérieure) pour adaptateur chauffant	8a-11
WTU	Bague isolante (inférieure) pour adaptateur chauffant	8a-11

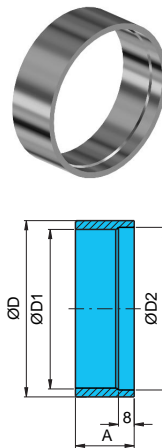
BHA

Corps adaptateur chauffant



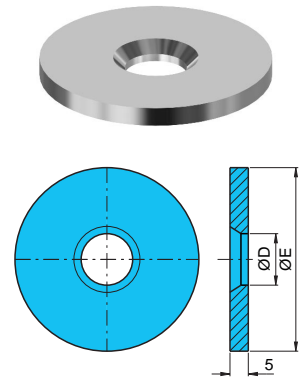
DR

Entretoises



WTU

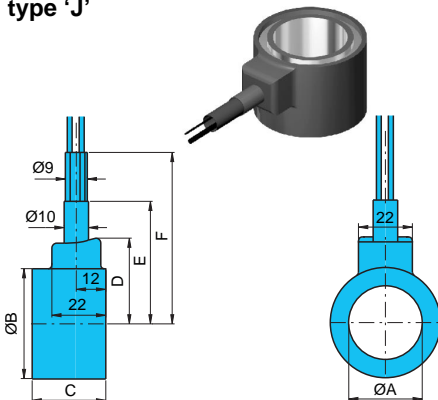
Bagues isolantes (inférieure)



REF.	A	B	C	D	L	REF.	A	D	D1	D2	REF.	E	D
BHA 30 x 30 N	30	20	6	14	55	DR-40	30	90	81	83	WTU-50	50	14
40 x 30 N	40	30	8	16	65	-90	60				-60	60	16
40 x 40 N													

DI

Colliers chauffants à thermocouple type 'J'

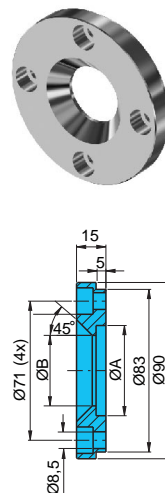


Longueur du câble 850 mm
 Câble noir 230 V
 Câble noir 230 V
 Câble blanc + thermocouple type 'J'
 Câble rouge -

Note: Chauffer avant d'assembler

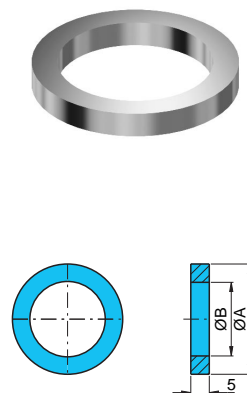
HR

Anneaux de centrage



WTO

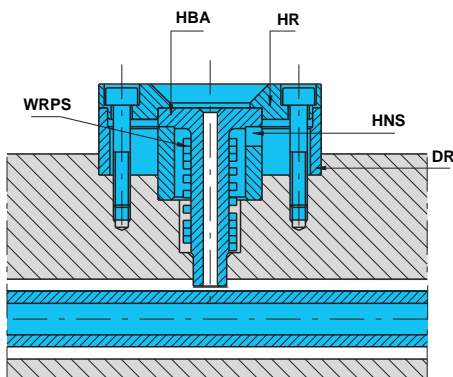
Bagues isolantes (supérieure)



REF.	A	B	C	D	E	F	Watt 230 V	REF.	A	B	REF.	A	B
DI 30 x 30	30	45	30	35	50	70	330	HR-30	30	20	WTO-30	30	20
40 x 30	40	55	30	40	55	75	380	-40	40	30	-40	40	30
40 x 40							490						

Info

Adaptateurs chauffants

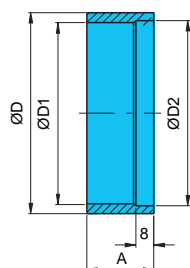


DR	Entretoise pour adaptateurs chauffants	8a-12
HBA	Corps adaptateur chauffant	8a-12
HNS	Anneau d'épaisseur pour adaptateur chauffant	8a-12
HR	Anneau de centrage pour adaptateurs chauffants	8a-11/8a-12
WRPS	Élément hélicoïdal à section carrée à thermocouple type 'J' pour adaptateur chauffant	8a-12

Instructions pour l'installation voir page 8a-13/8a-14/8a-15

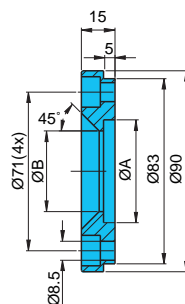
DR

Entretoises



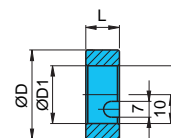
HR

Anneaux de centrage



HNS

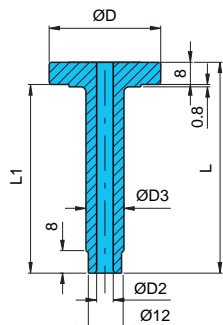
Anneaux d'épaisseur



REF.	A	D	D1	D2	REF.	A	B	REF.	D	D1	L
DR 40	30	90	81	83	HR 30	30	20	HNS 40	40	26	15
					HR 40	40	30	HNS-40-50	40	26	50

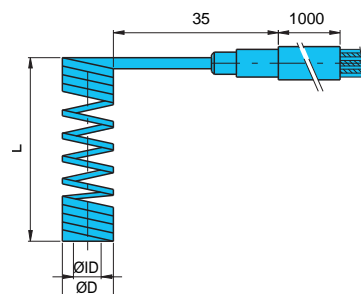
HBA

Corps



WRPS

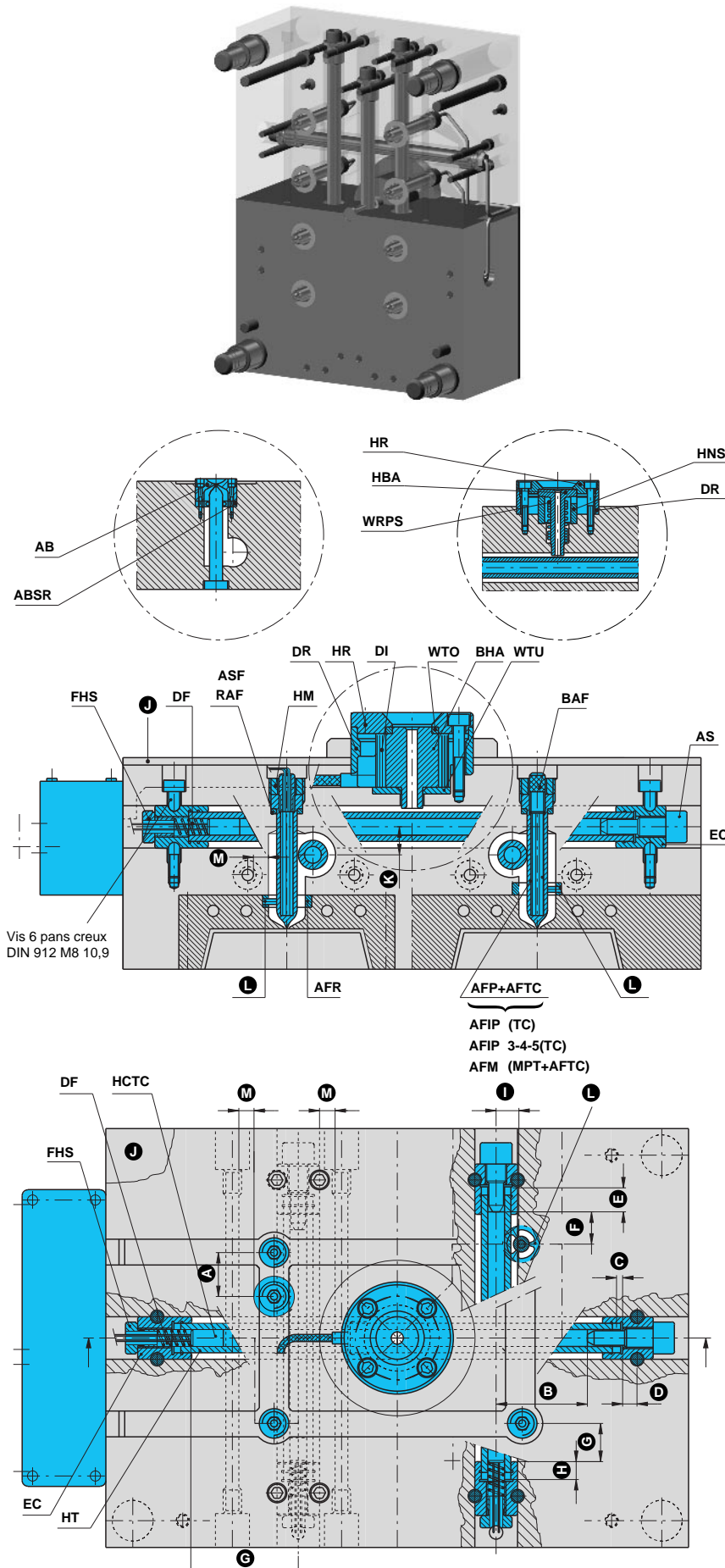
Éléments hélicoïdaux à section carrée à thermocouple type 'J'



REF.	L	L ₁	D	D2	D3	REF.	L	ID	D	Watt 230 V
HBA 7640	75,5	67,5	40	6	12	WRPS 42/91	57	11,98	18,4	300 W

Info

Directives pour la construction d'un système de distribution 'Cool-One'



A

Entraxe minimal:

sans AFR

Min. 23 mm (Micro)

Min. 27 mm (Mini)

Min. 30 mm (Standard)

Min. 40 mm (Maxi)

avec AFR

Min. 27,5 mm (Micro)

Min. 32 mm (Mini)

Min. 35 mm (Standard)

Min. 41 mm (Maxi)

B

45 mm (Micro)

45 mm (Mini)

55 mm (Standard)

90 mm (Maxi)

Consulter **D-M-E** selon l'application

C

Jeu à respecter entre l'embout et le tube de distribution:

longueur ≤ 600 mm = 1,5 mm

longueur ≥ 600 mm = 3,0 mm

D

5,5 mm (Mini)

11,0 mm (Standard)

11,0 mm (Maxi)

E

20 mm (Mini)

25 mm (Standard)

25 mm (Maxi)

F

45 mm (Micro)

45 mm (Mini)

55 mm (Standard)

90 mm (Maxi)

Consulter **D-M-E** selon l'application

G

70 mm (Micro)

70 mm (Mini)

80 mm (Standard)

115 mm (Maxi)

H

20 mm (Mini)

25 mm (Standard)

25 mm (Maxi)

I

Entraxe à respecter entre les canaux de distribution et les busettes:

Busettes Micro

AFIP 3

13 mm pour système Mini
16 mm pour système Standard

AFIP 4

14 mm pour système Mini
17 mm pour système Standard

Busettes Mini

AFIP 5

15,3 mm pour système Mini
18,4 mm pour système Standard

AFIP (201-271)

16 mm pour système Mini

AFP(201-291N)

19 mm pour système Standard

Busettes Standard

AFIP (301-601)

17 mm pour système Mini

AFP (301-601N)

20 mm pour système Standard

29,5 mm pour système Maxi

Busettes Maxi

AFP(502-1102N)

23 mm pour système Standard

32,5 mm pour système Maxi

J

Plaque isolante pour protection des câbles:
épaisseur 6 - 10 mm

K

Entraxe à respecter entre les canaux de distribution:

- 17 \pm 0,5 mm pour tubes de distribution diamètre 16

- 23,5 \pm 0,5 mm pour tubes de distribution diamètre 22,22

- 42,5 \pm 0,5 mm pour tubes de distribution diamètre 41,27

- 20 \pm 0,5 mm en combinaison de diamètre 16 avec diamètre 22,22

- 33 \pm 0,5 mm en combinaison de diamètre 22,22 avec diamètre 41,27

L

Anneau de centrage.

Installation: 1 goupille toujours en face du tube de distribution

M

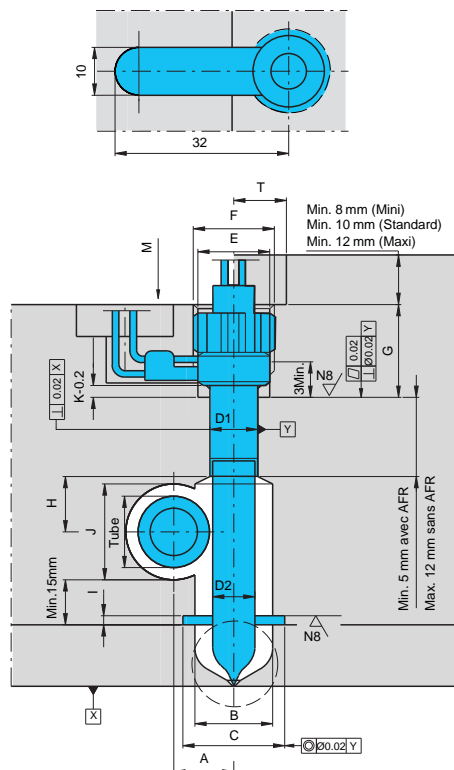
Distance minimale entre les canaux de refroidissement et canaux de distribution et/ou logement pour busettes:

min 10 mm.

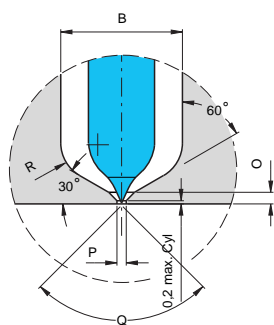
Info

Directives pour la construction d'un système de distribution 'Cool-One'
Cotes d'usinage à respecter pour busettes 'Auto-fixed®' AFP, AFIP et AFIP 3-4-5.

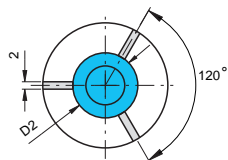
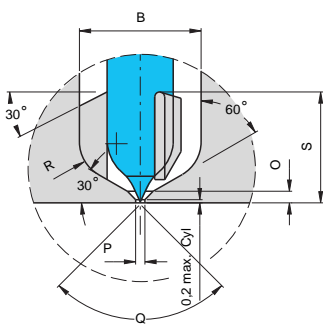
Fraisage pour sortie de câble
(M = vue du dessus)



Sans centrage
(Eventuellement avec AFR)



Avec centrage



REF.	MICRO			MINI		STANDARD		MAXI
	AFIP-3 (310-460)	AFIP-4 (322-472)	AFIP-5 (372-622)	AFIP (201-271)	AFP (201-291N)	AFIP (301-601)	AFP (301-601N)	AFP (502-1102N)
A Tube Ø 16	13	14	15,3	16	16	17	17	—
A Tube Ø 22,22	16	17	18,4	19	19	20	20	23
A Tube Ø 41,27	—	—	—	—	—	29,5	29,5	32,5
B* Min.	16	18	21	23	23	26	26	32
C H7	Ø 25,4	Ø 26,97	Ø 30,15	Ø 31	Ø 31	Ø 34	Ø 34	Ø 40
D1 H7	Ø 10	Ø 10	Ø 12,7	Ø 14	Ø 14	Ø 15,9	Ø 15,9	Ø 22
D2	Ø 7,92	Ø 9,76	Ø 12,45	Ø 13,5	Ø 13,5	Ø 15,5	Ø 15,5	Ø 21,5
E	Ø 15,75	Ø 18,3	Ø 18,3	Ø 19,5	Ø 19,5	Ø 24	Ø 24	Ø 30,5
F	M 22	M 22	M 22	M 22	M 22	M 27	M 27	M 32 x 1,5
T Min.	27	27	27	27	27	30	30	36
G Min.	25	25	25	25	25	25	27,5	27,5
H Tube Ø 16	13	13	13	14,5	14,5	14,5	14,5	—
H Tube Ø 22,22	17	17	17	18,5	18,5	18,5	18,5	27,5
H Tube Ø 41,27	—	—	—	—	—	27,5	27,5	27,5
I AFR + 0,02 0	3,0	3,0	3,0	3,0	3,0	3,0	3,0	3,0
J* Tube Ø 16	24	24	24	24	24	—	—	—
J* Tube Ø 22,22	32	32	32	32	32	32	32	32
J* Tube Ø 41,27	—	—	—	—	—	50	50	50
K	2	2	2	3	3	4	4	4
M Sortie de cable	90°	90° Droit	90° Droit	Droit	Droit	Droit	Droit	Droit
O	1,5	1,5	1,5	1,5	1,5	2	2	2
P Min.	0,6	0,6	0,8	0,8	0,8	1,0	1,0	1,0
Q	80°	80°	80°	80°	80°	80°	80°	90°
R	4	6	6	6	6	8	8	13
S	14	14	14	15	15	17	17	22

* Consulter **D-M-E** selon l'application
B* = plus grand avec AFR

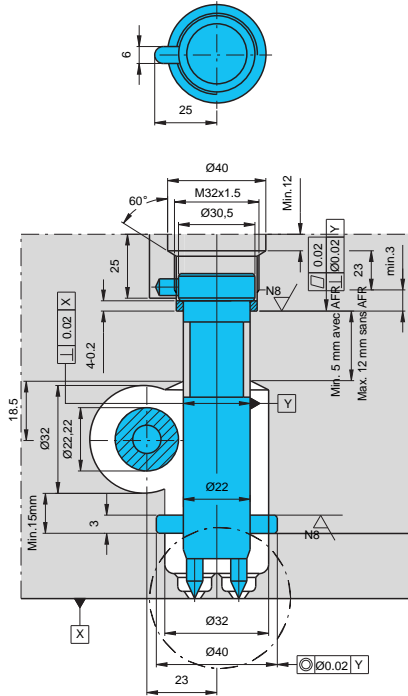
Info

Directives pour la construction d'un système de distribution 'Cool-One'
Cotes d'usinage à respecter

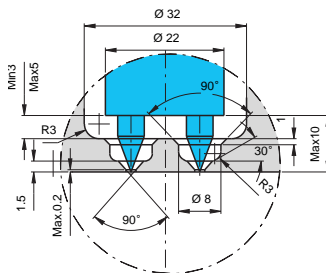
AFM

Busettes à pointes multiples

Vue du dessus

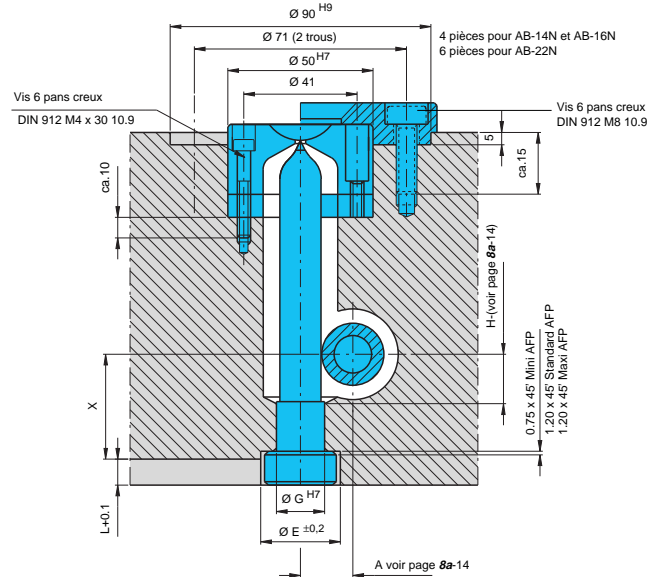


Seuil



AB - ABSR

Cotes d'usinage à respecter pour busettes AFP renversées

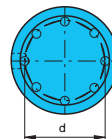
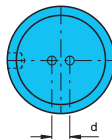


Pour	E	G	L	X min. Ø canal de distribution
AFP-201/291 N	19,5	14	7	Ø 24 X = 19 mm Ø 32 X = 23 mm
AFP-301/601 N	23,5	15,9	9	Ø 32 X = 23 mm Ø 50 X = 32 mm
AFP-502/1120 N	30,5	22	12	Ø 50 X = 39 mm Ø 32 X = 30 mm

Position des pointes

2 pointes

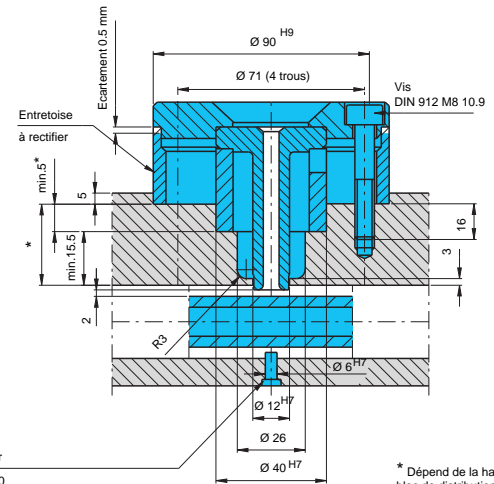
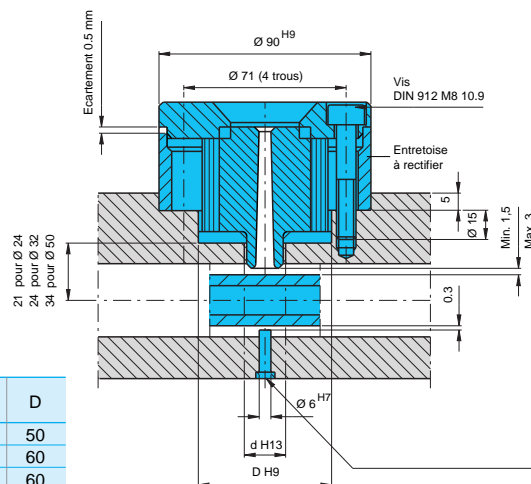
8 pointes



d	pointes
Min 5 mm	Min 2
Max 18 mm	Max 8

BHA - HBA

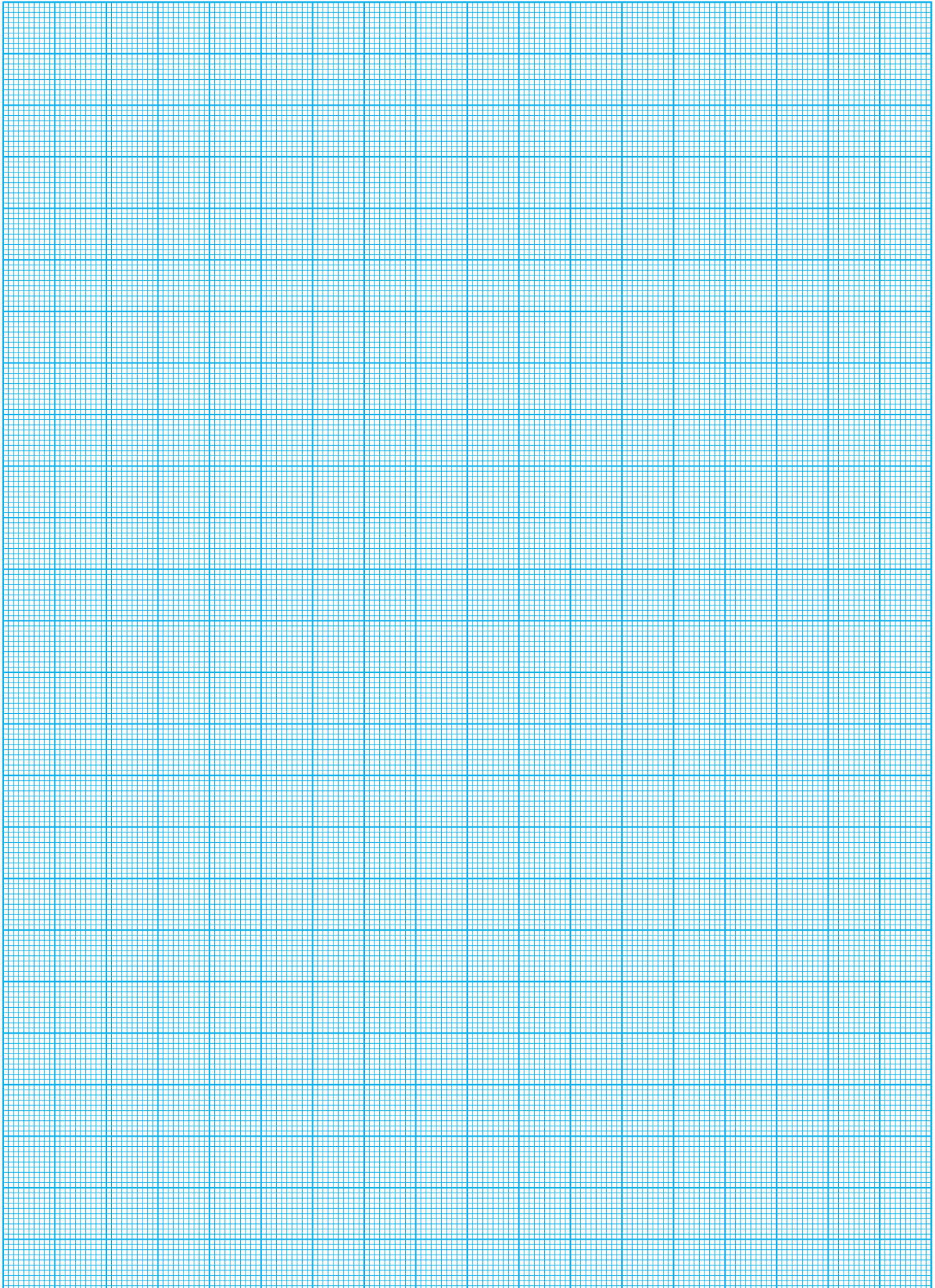
Adaptateurs chauffants



REF.	d	D
BHA 30 x 30 N	16	50
BHA 40 x 30 N	18	60
BHA 40 x 40 N	18	60

Rev.: 05/97

NOTES

A large grid of blue graph paper, consisting of 20 columns and 30 rows of small squares, intended for taking notes.

Index

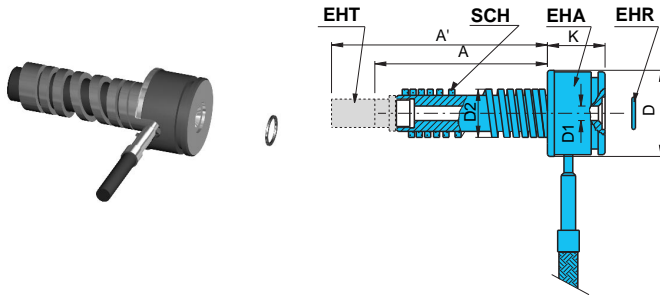
	p.	REF.	p.
Info: Système à bloc chaud et moule à étage 'Hot-One' avec buses conventionnelles	8b- 2	EHP	8b-28
Info: Sélection des buses conventionnelles	8b- 6	EHR	8b-25/8b-31
Info: Système à bloc chaud et moule à étage avec Gate Mate 4 TM et Mini Gate Mate	8b- 7	EHT	8b- 5
Info: Système à bloc chaud 'Micro Hot-One' avec buses à tête à visser et buses à joint	8b-13	ERP	8b-31
Info: Système à bloc chaud et moule à étage 'Micro Hot-One' avec buses multi-pointes	8b-18	ESR	8b-31
Info: Système à obturateur Osco®	8b-20	ETC	8b-30
Info: Sélection des buses à obturateur Osco®	8b-24	FBV	8b-21/8b-22
Info: Blocs chauds 'Hot-One'	8b-27	GMB	8b- 8/8b-10/8b-11/8b-12
Info: Eléments chauffants tubulaires	8b-29	GMT	8b- 9/8b-11
REF.	p.	GSI	8b-11
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CIH	8b- 4/8b-11	MSO	8b-15/8b-17
DEO	8b-16	MSP	8b-15/8b-17
DEP	8b-16	MSR	8b-16
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ECB	8b-31	TC	8b-30
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EDR	8b-32	VG-BLT	8b-26
EEP	8b-32	VG-FBT	8b-26
EHA	8b- 3/8b- 6	VG-HCA	8b-22/8b-26
EHL	8b-31	VG-VPR	8b-25
EHM	8b-32	VP	8b-25
EHN	8b-31	WTO	8b-33

Systèmes de moulage - à bloc chaud 'Hot-One'

Buses

EHA

Buses conventionnelles Séries 250 & 375



Inclus:

EHR: Bagues d'étanchéité (EHR-0154 pour séries 250)
(EHR-0155 pour séries 375)

EHA: Corps de buses conventionnelles

SCH: Eléments chauffants hélicoïdaux à section carrée avec TC type 'J'

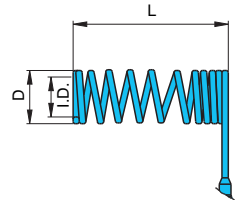
EHT: Nez à commander séparément

REF. Sous-ensemble	A	A'	D	D1	D2	K	SERIES
EHA 0001 EX	50,79	69,84	38,0	6,3	21	25,4	250
0002 EX	63,49	82,54					
0003 EX	76,19	95,24					
0004 EX	88,89	107,94					
0005 EX	101,59	120,64					
0006 EX	126,99	146,04					
0007 EX	152,39	171,44					
EHA 0008 EX	50,79	69,84	50,0	9,5	27	25,4	375
0009 EX	63,49	82,54					
0010 EX	76,19	95,24					
0011 EX	88,89	107,94					
0012 EX	101,59	120,64					
0013 EX	126,99	146,04					
0014 EX	152,39	171,44					
0015 EX	177,79	196,84					

SCH

Pièces de rechange

Eléments chauffants hélicoïdaux à section carrée avec TC type 'J'



Longueurs des câbles: 850 mm

Câble noir 230 V

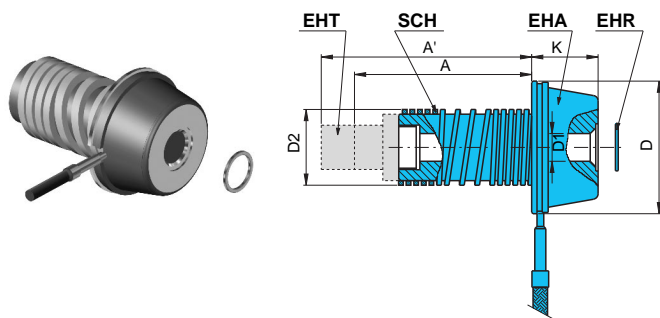
Câble noir 230 V

Câble blanc + } thermocouple type 'J'
Câble rouge - }

REF.	Pour	L	I.D.	D	Watt 230 V	SERIES
SCH 0081	EHA 0001 EX	51	15,37	21	275	250
0082	EHA 0002 EX	63,5			320	
0083	EHA 0003 EX	76			370	
0084	EHA 0004 EX	89			390	
0085	EHA 0005 EX	101,5			460	
0086	EHA 0006 EX	127			460	
0087	EHA 0007 EX	152,5			500	
SCH 0088	EHA 0008 EX	54	21,72	27	370	375
0089	EHA 0009 EX	66,5			415	
0090	EHA 0010 EX	79,5			500	
0091	EHA 0011 EX	92			640	
0092	EHA 0012 EX	105			735	
0093	EHA 0013 EX	130			825	
0094	EHA 0014 EX	156,5			920	
0095	EHA 0015 EX	181			1000	

EHA

Buses conventionnelles Séries 625



Inclus:

EHR: Bagues d'étanchéité EHR-0156

EHA: Corps de buses conventionnelles

SCH: Eléments chauffants hélicoïdaux à section carrée avec TC type 'J'

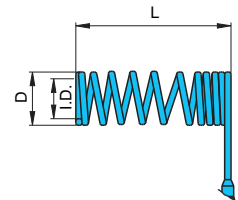
EHT: Nez à commander séparément

REF. Sous-ensemble	A	A'	D	D1	D2	K	SERIES
EHA 0016 EX	101,60	120,65	76,0	15,9	43	38,1	625
0017 EX	127,00	146,05					
0018 EX	152,40	171,45					
0019 EX	177,80	196,85					
0020 EX	203,20	222,25					
0021 EX	228,60	247,65					
0022 EX	254,00	273,05					

SCH

Pièces de rechange

Eléments chauffants hélicoïdaux à section carrée avec TC type 'J'



Longueurs des câbles: 850 mm

Câble noir 230 V

Câble noir 230 V

Câble blanc + } thermocouple type 'J'
Câble rouge - }

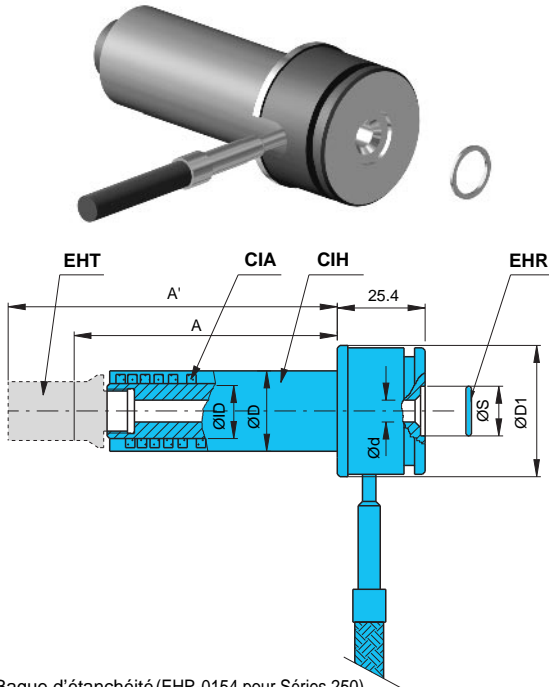
REF.	Pour	L	I.D.	D	Watt 230 V	SERIES
SCH 0096	EHA 0016 EX	101,5	37,47	43	920	625
0097	EHA 0017 EX	127			950	
0098	EHA 0018 EX	152,5			1000	
0099	EHA 0019 EX	178			1000	
0100	EHA 0020 EX	203			1100	
0101	EHA 0021 EX	228,5			1100	
0102	EHA 0022 EX	254			1100	

Systèmes de moulage - à bloc chaud 'Hot-One'

Buses

CIA

Buses à haute performance



Inclus:
EHR: Bague d'étanchéité (EHR-0154 pour Série 250)
(EHR-0155 pour Série 375)

CIA: Corps de buses à haute performance

CIH: Élément chauffant hélicoïdal surmoulé à thermocouple type 'J'

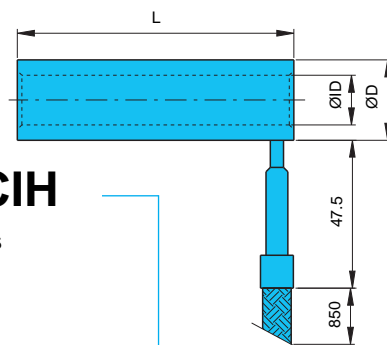
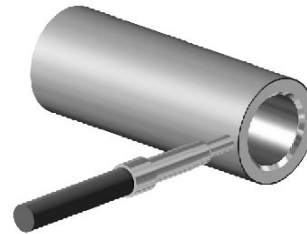
EHT: Nez à commander séparément

REF. Sous-ensemble	A	A'	I.D.	D	d	D1	S	SERIES
CIA 0001 EX	50,79	69,84	15,85	26,97	6,35	Ø38	14,35	250
0002 EX	63,49	82,54						
0003 EX	76,19	95,24						
0004 EX	88,89	107,94						
0005 EX	101,59	120,64						
0006 EX	126,99	146,04						
0007 EX	152,39	171,44						
CIA 0008 EX	50,79	69,84	22,20	33,32	9,52	Ø50	17,55	375
0009 EX	63,49	82,54						
0010 EX	76,19	95,24						
0011 EX	88,89	107,94						
0012 EX	101,59	120,64						
0013 EX	126,99	146,04						
0014 EX	152,39	171,44						
0015 EX	177,79	196,84						

CIH

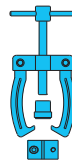
Pièces de rechange

Éléments chauffants hélicoïdaux surmoulés à thermocouple type 'J'



CIH

Extracteurs



REF.

CIH 9000

Longueurs des câbles: 850 mm

Câble noir 230 V

Câble noir 230 V

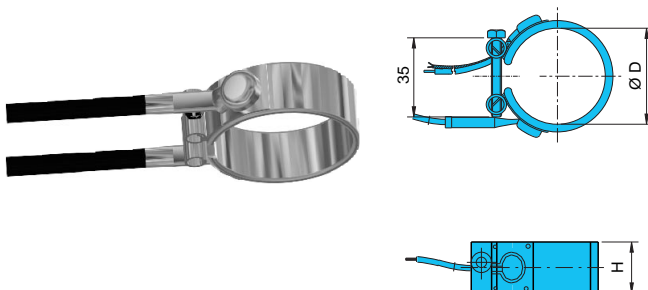
Câble blanc + } thermocouple type 'J'

Câble rouge - }

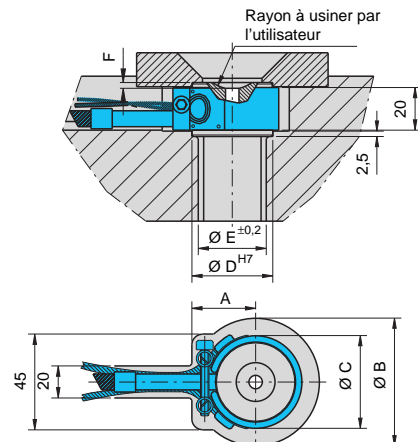
REF.	Pour	L	I.D.	D	Watt 230 V	SERIES
CIH 0081	CIA 0001 EX	52,37	15,85	26,97	275	250
0082	CIA 0002 EX	65,07			320	
0083	CIA 0003 EX	77,77			370	
0084	CIA 0004 EX	90,47			390	
0085	CIA 0005 EX	103,17			460	
0086	CIA 0006 EX	128,57			460	
0087	CIA 0007 EX	153,97			500	
CIH 0088	CIA 0008 EX	55,42	22,20	33,32	370	375
0089	CIA 0009 EX	68,12			415	
0090	CIA 0010 EX	80,82			500	
0091	CIA 0011 EX	93,52			640	
0092	CIA 0012 EX	106,20			735	
0093	CIA 0013 EX	131,62			825	
0094	CIA 0014 EX	157,02			920	
0095	CIA 0015 EX	182,42			1000	

BHF

Colliers chauffants à thermocouple type 'J' pour tête de buse (option pour EHA & CIA-séries 250 & 375)



Installation

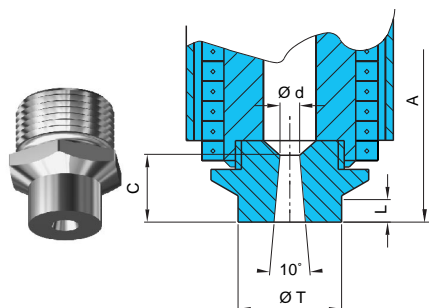


REF.	H	D	Watt 230 V	SERIES	SERIES	A	B	C	D	E	F
BHF 2038	20	38	170	250	250	45	60	44	38	30	3
BHF 2050	20	50	190	375	375	55	75	55	50	40	2

Buses

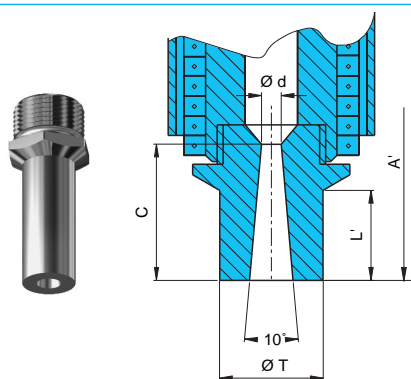
EHT

Nez pour EHA et CIA



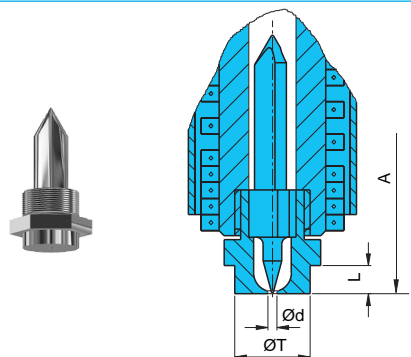
Nez carotte courte

SERIES 250					SERIES 375					SERIES 625				
REF.	d	T	L	C	REF.	d	T	L	C	REF.	d	T	L	C
EHT 0010 EX	2,00	12,5	6,35	9,52	EHT 0016 EX	3,20	12,5	6,35	9,52	EHT 0022 EX	4,75	25,0	6,35	12,7
0011 EX	2,00	19,0	6,35	9,52	0017 EX	3,20	19,0	6,35	9,52					
0012 EX	2,00	25,0	2,54	9,52	0018 EX	3,20	25,0	6,35	9,52					



Nez carotte longue

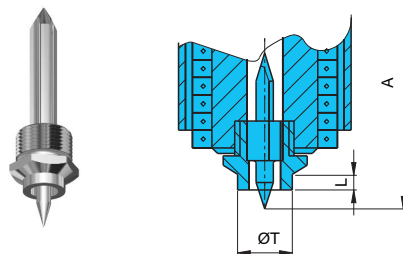
SERIES 250					SERIES 375					SERIES 625				
REF.	d	T	L'	C	REF.	d	T	L'	C	REF.	d	T	L'	C
EHT 0013 EX	2,00	12,5	25,4	28,6	EHT 0019 EX	3,20	12,5	25,4	28,6	EHT 0023 EX	4,75	25,0	25,4	31,75
0014 EX	2,00	19,0	25,4	28,6	0020 EX	3,20	19,0	25,4	28,6					
0015 EX	2,00	25,0	21,6	28,6	0021 EX	3,20	25,0	25,4	28,6					



Nez injection annulaire

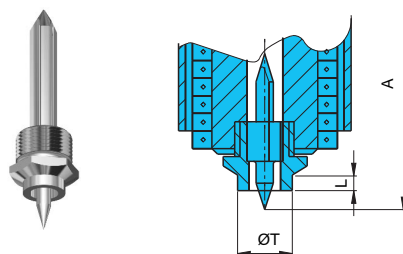
SERIES 250				SERIES 375				SERIES 625			
REF.	d	T	L	REF.	d	T	L	REF.	d	T	L
EHT 1001 EX	1,50	9,5	4,75	EHT 1006 EX	2,00	12,5	5,85	EHT 1040 EX	3,20	25,0	6,35
1002 EX	2,00	9,5	4,75	1007 EX	2,50	12,5	5,85				
1003 EX	1,50	12,5	4,75	1008 EX	2,00	19,0	5,85				
1004 EX	2,00	12,5	4,75	1009 EX	2,50	19,0	5,85				
				1037 EX	2,00	25,0	5,85				
				1038 EX	2,50	25,0	5,85				

Nez injection type pointe



SERIES 250			SERIES 375		
REF.	T	L	REF.	T	L
EHT 0005 EX	9,5	2,5	EHT 0039 EX	12,5	2,5

Nez injection type pointe en carbure



SERIES 250			SERIES 375		
REF.	T	L	REF.	T	L
EHT 0041 EX	9,5	2,5	EHT 0042 EX	12,5	2,5

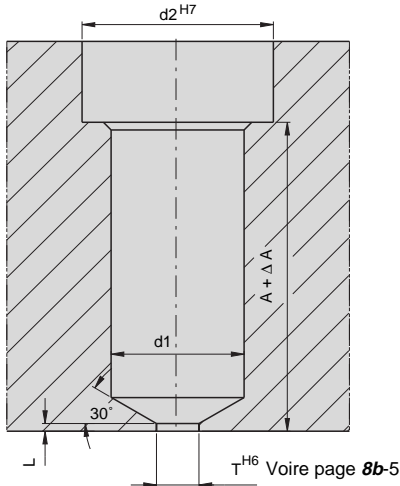
Buses

EHA - CIA

Installation

Nez carotte courte et injection annulaire

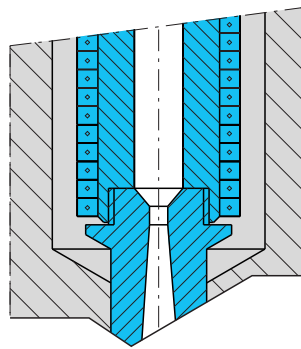
$$\Delta A = A \times (11,4 \times 10^{-6}) \times \Delta t$$



d1	d2	L ≥	SERIES
30	38	2	250
40	50	2	375
54	76	4	625

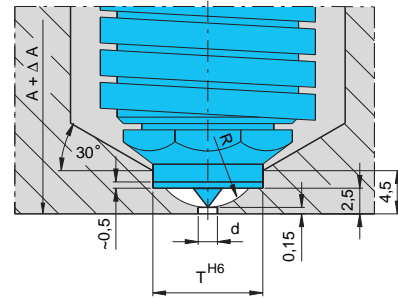
Nez carotte longue

avec surlongueur pour usinage



Nez pour injection type pointe

$$\Delta A = A \times (11,4 \times 10^{-6}) \times \Delta t$$



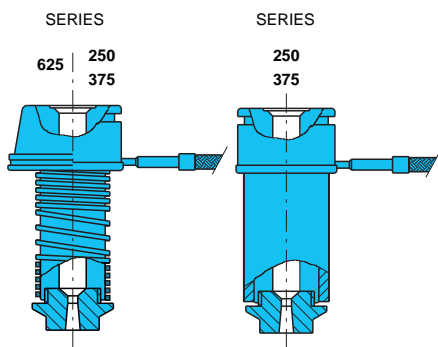
d	T	R	SERIES
1,5-3	9,5	3,2	250
2,0-4	12,5	4,7	375

Info

Sélection des buses Hot-One

Il est important de tenir compte de: la longueur de l'écoulement, le taux de cisaillement de la matière, l'épaisseur de paroi et la configuration de la pièce à mouler.

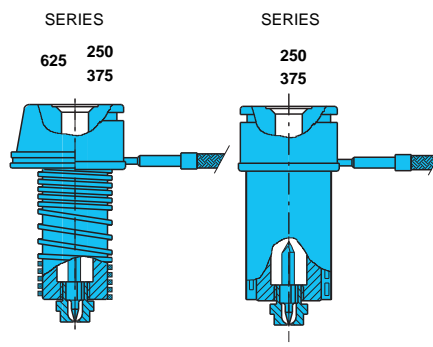
Nez carotte courte et longue



Nez carotte

Ils sont spécifiquement recommandés dans les cas où des carottes ou picots d'injection minimales ne dérangent guère. Le canal à passage direct est recommandé pour l'injection des matériaux chargés ainsi que pour les grandes pièces nécessitant un débit maximum. Le nez est surdimensionné en longueur (face avant) pour l'adaptation au profil des canaux ou à la forme de la pièce moulée.

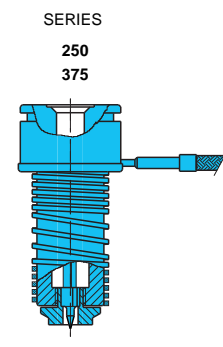
Nez pour injection annulaire



Nez pour injection annulaire

Il est à utiliser si une marque circulaire est permise. La torpille est en cuivre-béryllium nickelé, régularise l'écoulement, garde la température constante et améliore la qualité du point d'injection.

Nez pour injection type pointe



Nez pour injection type pointe

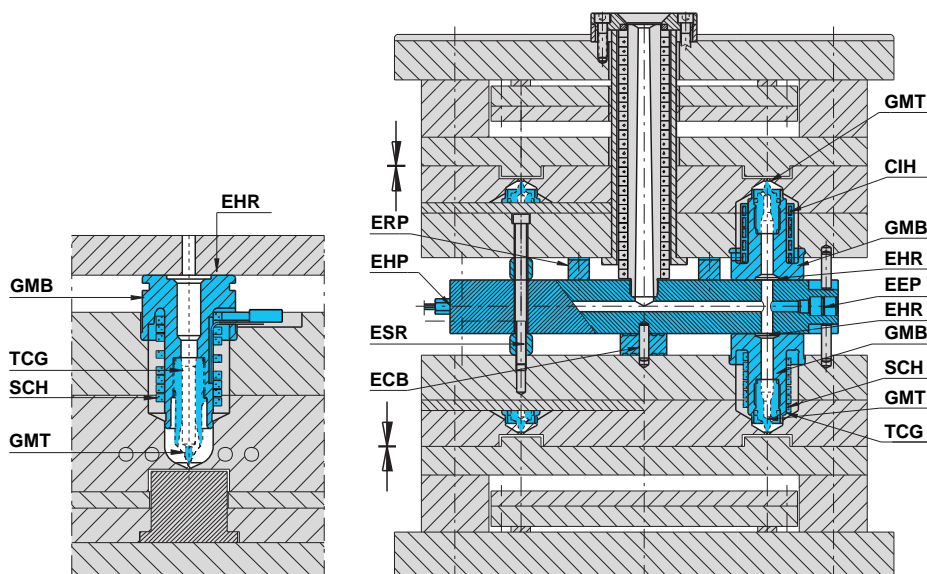
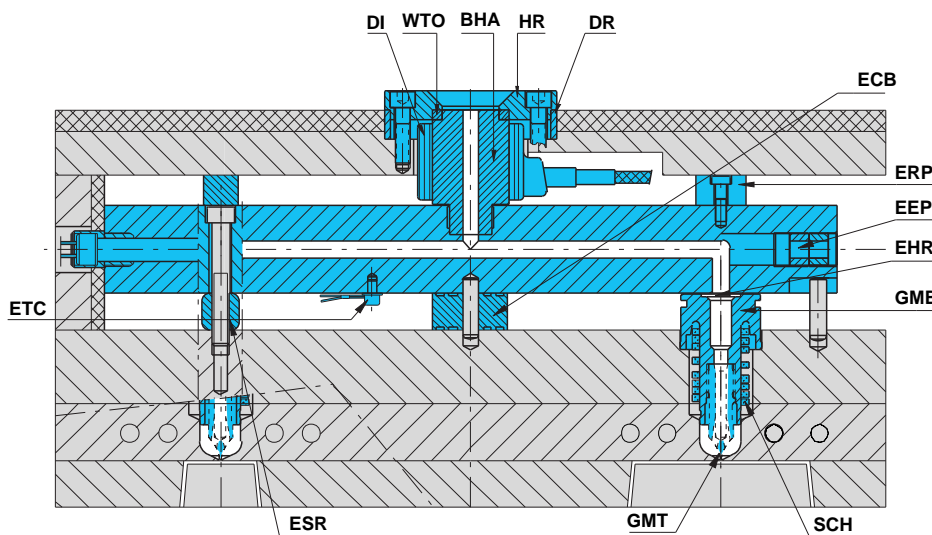
Il évite les traces circulaires et améliore la qualité esthétique du point d'injection. La pointe est fabriquée en cuivre-béryllium nickelé ou en carbure.

Capacité d'injection en gr				Capacité d'injection en gr				Capacité d'injection en gr			
Diamètre de l'orifice	SERIES 250	SERIES 375	SERIES 625	Diamètre de l'orifice	SERIES 250	SERIES 375	SERIES 625	Diamètre de l'orifice	SERIES 250	SERIES 375	
	2,0 2,5* 3,2*	3,2 4,7* 6,4*	4,7 6,4* 8,0*		1,5 2,0 2,0 2,5 3,2 3,8*				1,5 2,0 3,2 2,0 3,2 3,8*		
forte	1000 1500 2000	2000 3000 4000 3000 4000 5000	4000 5000 6000	forte	200 250 300 500 750 1000			forte	100 200 300 200 300 500		
Viscosité moyenne	1500 2000 2500	3000 4000 5000 4000 5000 6000	6000 7000	Viscosité moyenne	250 400 500 750 1000 1500			Viscosité moyenne	200 300 500 300 500 750		
faible	2000 2500 3000	4000 5000 6000 5000 6000 7000		faible	400 500 750 1000 1500 2000			faible	300 500 750 500 750 1000		

* Les nez standard de ces diamètres sont disponibles sur demande.

Info

Système à bloc chaud et moule à étage avec Gate Mate 4™ et Mini Gate Mate

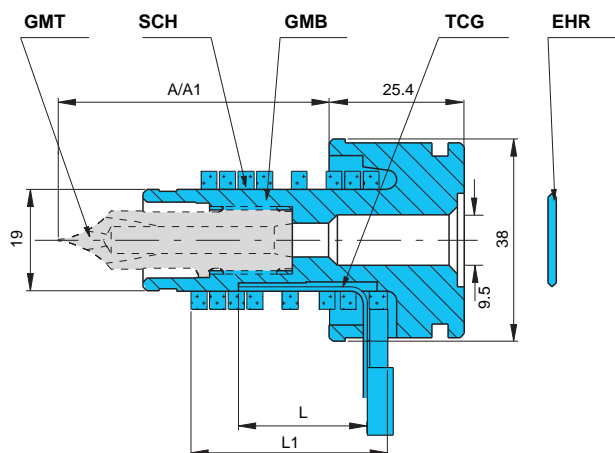
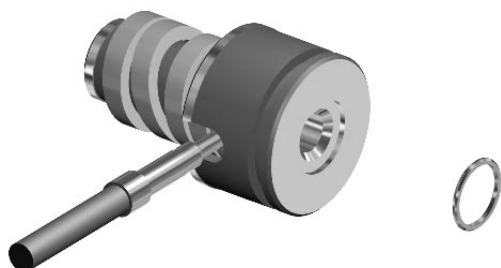


BHA	Corps d'adaptateur	8b-33
CIH	Eléments chauffants hélicoïdaux surmoulés avec thermocouple type 'J'	8b- 4 8b-12
DI	Colliers chauffants à thermocouple type 'J'	8b-33
DR	Entretoises	8b-33
ECB	Rondelles entretoises	8b-31
EEP	Embout	8b-32
EHP	Extracteurs de cartouches	8b-28
EHR	Bagues d'étanchéité	8b-25/8b-31
ERP	Semelles entretoises	8b-31
ESR	Bagues entretoises	8b-31
ETC	Thermocouples plats	8b-30
GMB	Gate Mate 4™ Mini Gate Mate	8b- 8/8b-11 8b-11/8b-12
GMT	Nez pour Gate Mate 4™ Nez pour Mini Gate Mate	8b- 9 8b-12
HR	Anneaux de centrage	8b-33
SCH	Eléments chauffants hélicoïdaux à section carrée avec TC type 'J'	8b- 3/8b- 8 8b-11/8b-25
TCG	Thermocouples type 'J'	8b- 8/8b-11
WTO	Bagues isolantes	8b-33

Gate Mates 4™

GMB

Gate Mates 4™



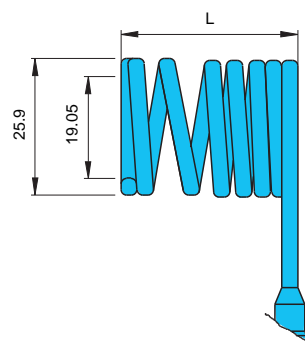
Inclus:
EHR: Bague d'étanchéité EHR-0155
TCG: Thermocouple type 'J'
GMB: Corps de Gate Mate 4™
SCH: Élément chauffant hélicoïdal à section carrée
GMT: Nez à commander séparément

* à température ambiante

REF.	A*	A1* (GMT 0302)	L	L1
Sous-ensemble				
GMB 0150 EX	50,8	49,8	25	36,5
GMB 0151 EX	63,5	62,5	37,5	49
GMB 0152 EX	76,2	75,2	50	62
GMB 0153 EX	88,9	87,9	63	74,5
GMB 0154 EX	101,6	100,6	75,5	87,5
GMB 0155 EX	127,0	126,0	101	113
GMB 0156 EX	152,4	151,4	136,5	138

SCH

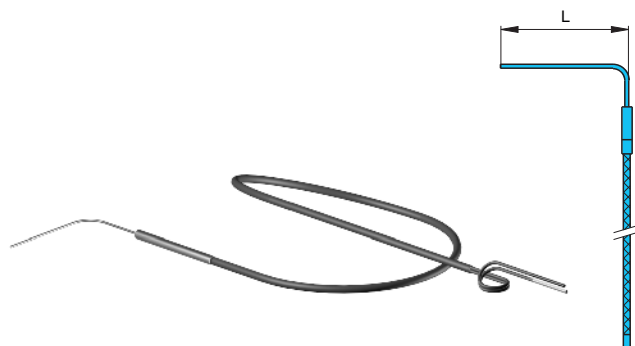
Pièces de rechange
 Éléments chauffants hélicoïdaux à section carrée



REF.	L	Watt 230 V
SCH 0060	36,5	230
SCH 0061	49	275
SCH 0062	62	320
SCH 0063	74,5	370
SCH 0064	87,5	390
SCH 0065	113	460
SCH 0066	138	460

TCG

Pièces de rechange
 Thermocouples type 'J'



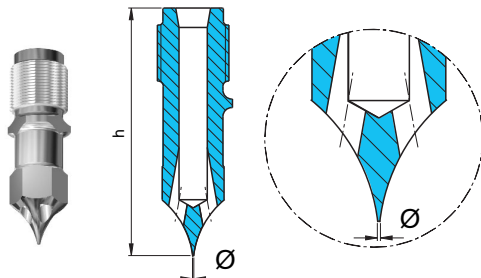
REF.	L	Pour
TCG-0060	25	GMB 0150 EX
TCG-0061	37,5	GMB 0151 EX
TCG-0062	50	GMB 0152 EX
TCG-0063	63	GMB 0153 EX
TCG-0064	75,5	GMB 0154 EX
TCG-0065	101	GMB 0155 EX
TCG-0066	136,5	GMB 0156 EX

Gate Mates 4™

GMT

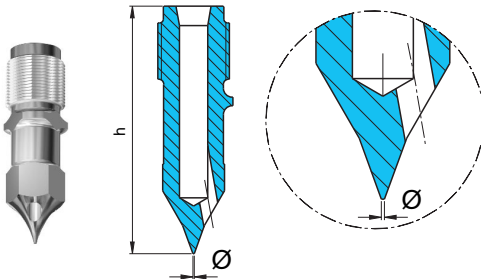
Nez pour Gate Mate 4™

Nez standard



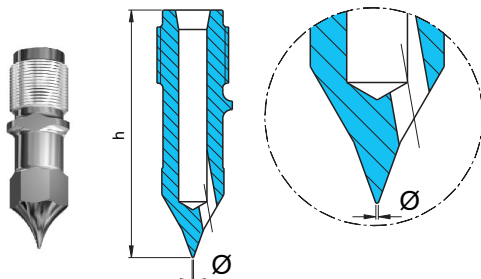
REF.	h	Ø	Mat
GMT 2	44	0.61	Alliage de cuivre

Nez à pointe dure



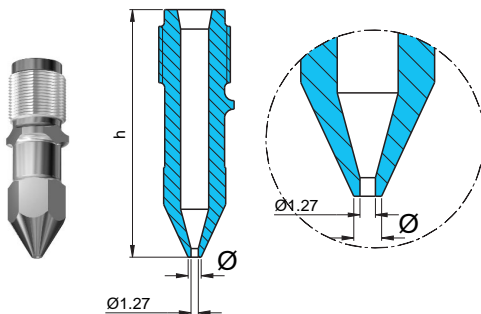
REF.	h	Ø	Mat
GMT 0300	44	0.61	Carbure

Nez extra pointu



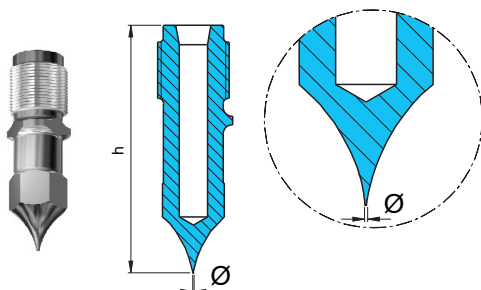
REF.	h	Ø	Mat
GMT 0301	44	0.25	Alliage de cuivre

Nez à passage direct



REF.	h	Ø	Mat
GMT 0302	43	2.29	Alliage de cuivre

Nez à forer

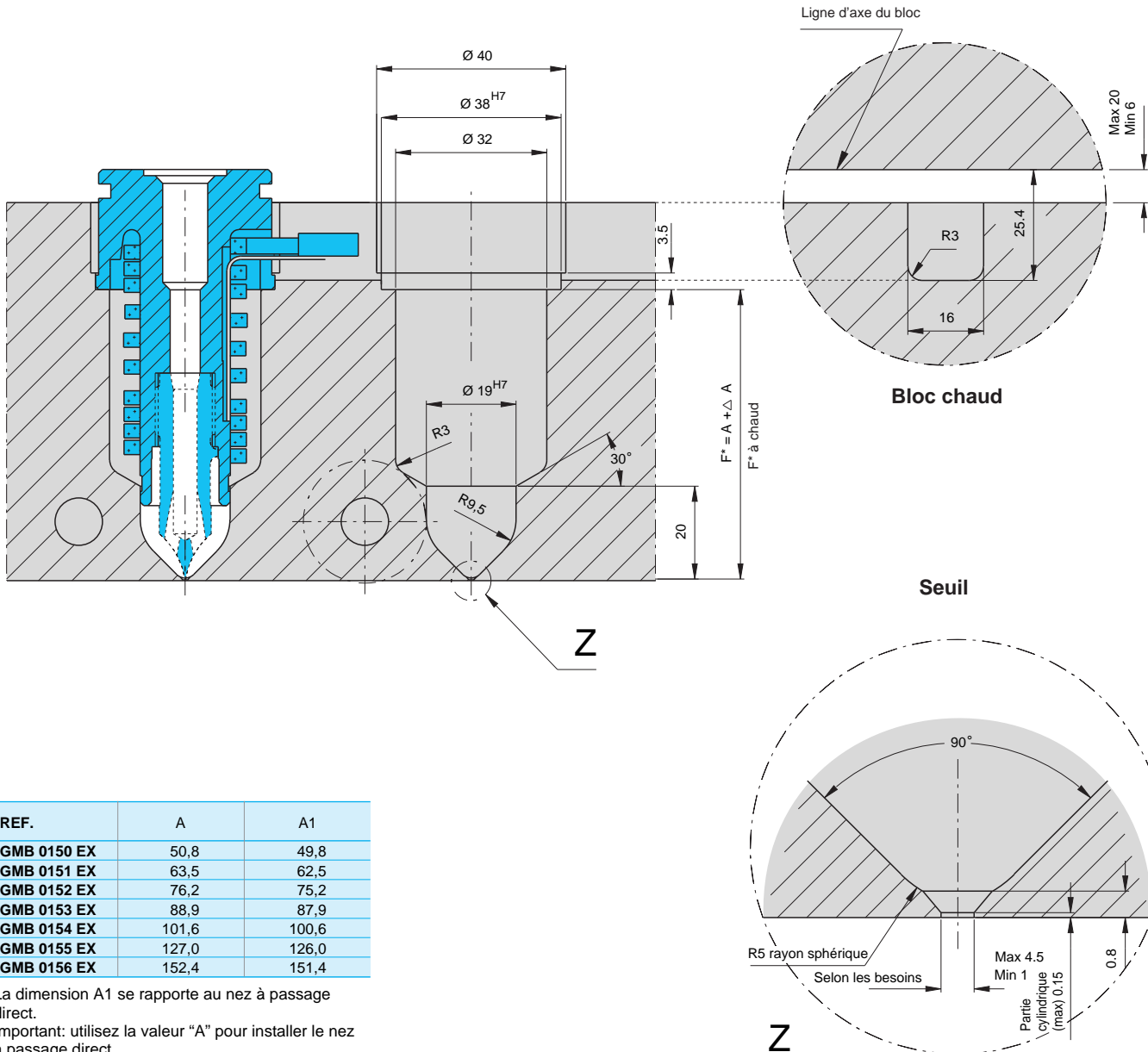


REF.	h	Ø	Mat
GMT 0303	44	0.61	Alliage de cuivre

Gate Mates 4™

GMB

Installation



REF.	A	A1
GMB 0150 EX	50,8	49,8
GMB 0151 EX	63,5	62,5
GMB 0152 EX	76,2	75,2
GMB 0153 EX	88,9	87,9
GMB 0154 EX	101,6	100,6
GMB 0155 EX	127,0	126,0
GMB 0156 EX	152,4	151,4

La dimension A1 se rapporte au nez à passage direct.
Important: utilisez la valeur "A" pour installer le nez à passage direct.

Note:

La dilatation thermique doit être prise en compte avant l'usinage et l'installation des buses.

$$\Delta A = A \times \alpha_c \times 10^{-6} \times \Delta T$$

$$(\alpha_c = 16.8 - 0.026 \times A)$$

$$(\Delta T = \text{température de réglage de buse} - 20 \text{ °C})$$

(ne pas valable pour GMT 0300)

Exemple:

Soit une longueur A = 127 mm, et une température de consigne de 260 °C.

$$\Delta A = 127 \times (16.8 - 0.026 \times 127) \times 10^{-6} \times (260 - 20 \text{ °C}) = 0.41 \text{ mm}$$

$$\text{alors } F^* = 127 + 0.41 \approx 127.41 \text{ mm}$$

Ce calcul n'est présenté qu'à titre d'exemple n'est pas valable pour GMT 0300. Utiliser la moitié de la valeur pour le nez à pointe dure. Des différences sont possibles selon la géométrie du moule et le système de refroidissement. Dans certains cas, il peut être nécessaire de déterminer un coefficient de dilatation empirique.

Instructions de montage:

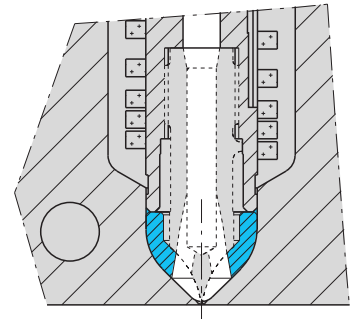
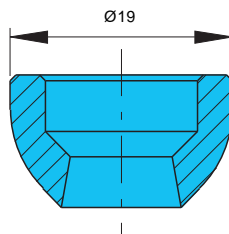
1. Pour de meilleurs résultats, usiner le siège de la buse directement dans le moule.
2. Pour des pièces d'aspect sans picot ou avec un picot minimum, la pointe doit, à température ambiante, être en retrait de 0 à 0,13 mm par rapport au seuil. A chaud, un jeu radial de 0,25 mm minimum doit être maintenu entre la pointe et le seuil. Pour un débit de matière optimal, la pointe doit être en retrait de 0,5 mm maximum. Le picot sera alors plus important.
3. Prévoir un refroidissement énergique de l'empreinte autour du seuil.
4. Le lamage pour le siège de buse doit être usiné avec soin. Le diamètre 19^{H7} assure l'étanchéité et doit être respecté.
5. Réduire au minimum les ponts thermiques entre la buse et le moule, en particulier sous la tête de buse.
6. Le passage de câbles se fera par des gorges usinées dans la plaque support.
7. Usiner sur le noyau, au droit du seuil, une cuvette pour favoriser l'écoulement de la matière.

Systèmes de moulage - à bloc chaud 'Hot-One'

Gate Mates 4™

GSI

Isolants pour pré-chambre



Matériau: Polyimide
Température maximale d'utilisation en continu: 288°C
Pour changement de couleur plus facile
Résistant à l'usure pour matières non-abrasives

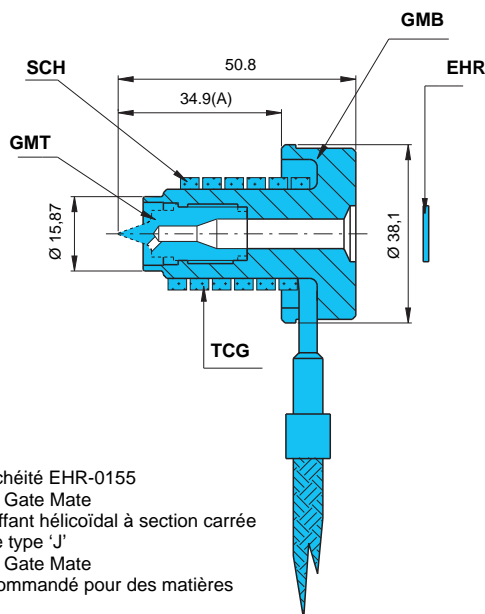
REF.

GSI 0001

Mini Gate Mates

GMB

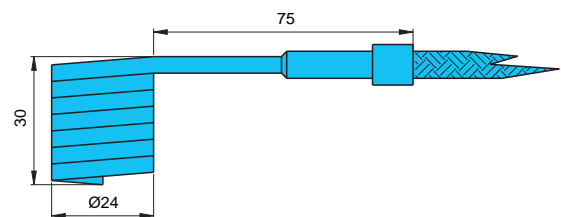
Mini Gate Mates avec élément chauffant hélicoïdal à section carrée



Inclus:
EHR: Bague d'étanchéité EHR-0155
GMB: Corps de Mini Gate Mate
SCH: Elément chauffant hélicoïdal à section carrée
TCG: Thermocouple type 'J'
GMT: Nez pour Mini Gate Mate
(n'est pas recommandé pour des matières abrasives)

SCH

Pièces de rechange
Eléments chauffants hélicoïdaux à section carrée



REF.

Volt

Watt

Pour

SCH 0004

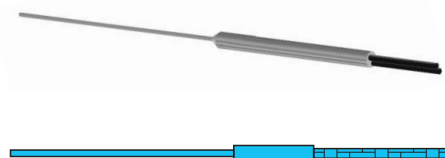
230

230

GMB 0108

TCG

Pièces de rechange
Thermocouples type 'J'



REF.

GMB 0108

REF.

TCG 0100

Pour

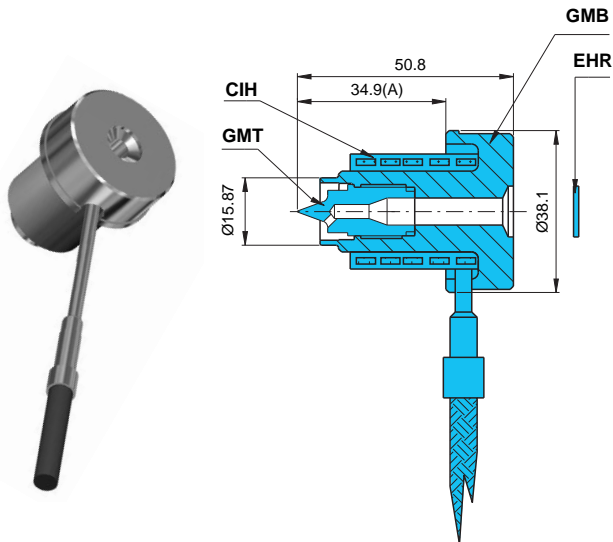
GMB 0108

Systèmes de moulage - à bloc chaud 'Hot-One'

Mini Gate Mates

GMB

Mini Gate Mates avec élément chauffant hélicoïdal surmoulé avec thermocouple type 'J'

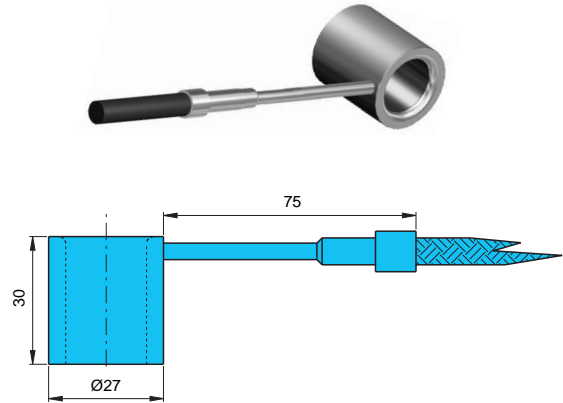


Inclus:
EHR: Bague d'étanchéité EHR-0155
GMB: Corps de Mini Gate Mate
CIH: Elément chauffant hélicoïdal surmoulé avec thermocouple type 'J'
GMT: Nez pour Mini Gate Mate
 (n'est pas recommandé pour des matières abrasives)

REF.
GMB 0100

CIH

Pièces de rechange
 Eléments chauffants hélicoïdaux enrobés avec thermocouple type 'J'



REF.	Volt	Watt	Pour
CIH 0100	230	230	GMB 0100

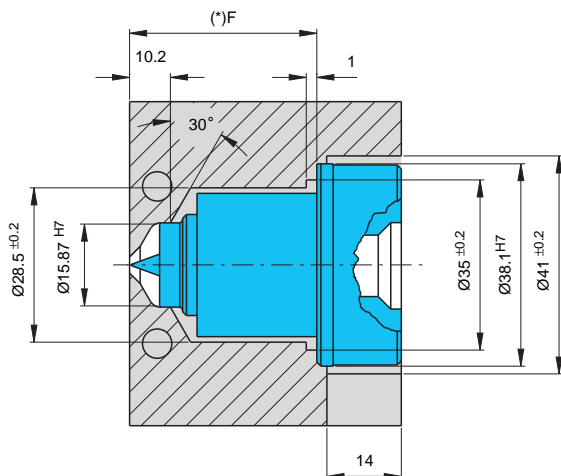
GMT

Pièces de rechange
 Nez pour Mini Gate Mate
 (n'est pas recommandé pour matières abrasives)



REF.	Pour
GMT 0100	GMB 0108 GMB 0100

Installation

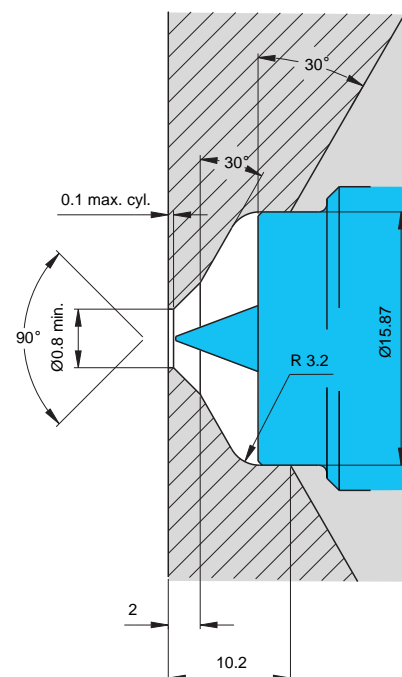


$$(*) F = A + \Delta A$$

$$\Delta A = A \times (11,4 \times 10^{-6}) \times \Delta T$$

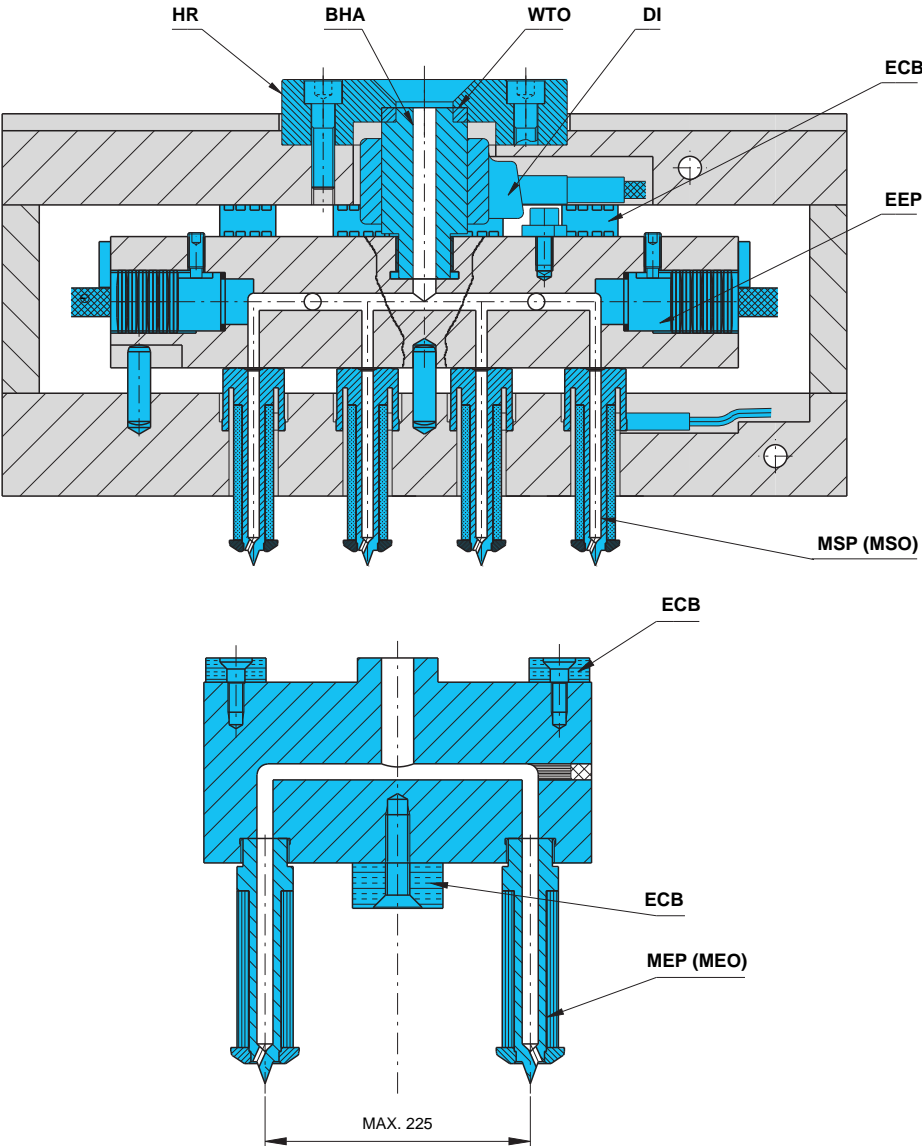
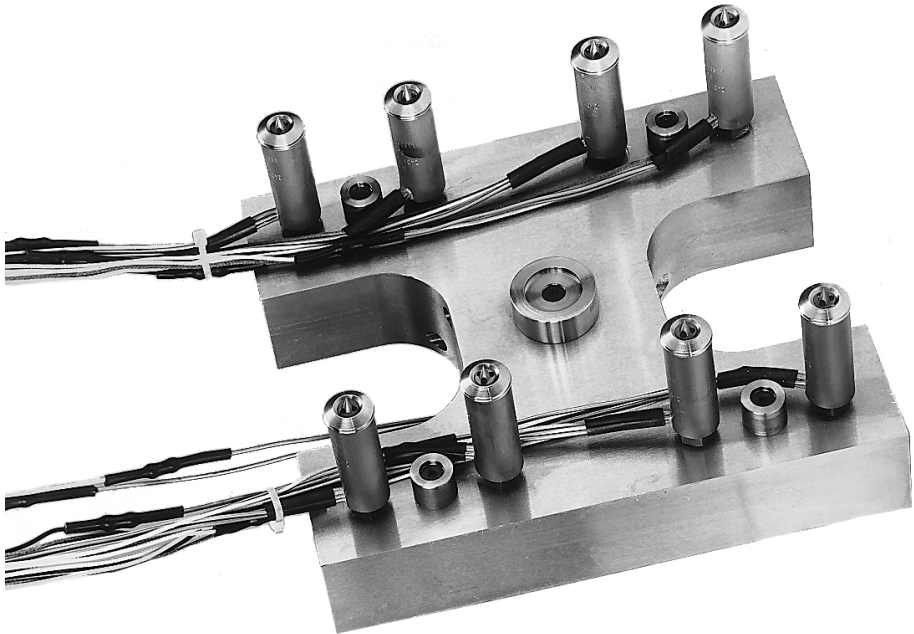
$$\Delta T = T \text{ max. } ^\circ\text{C} - 20^\circ\text{C}$$

Seuil



Info

Système à bloc chaud 'Micro Hot-One' avec buses à visser et buses à joint



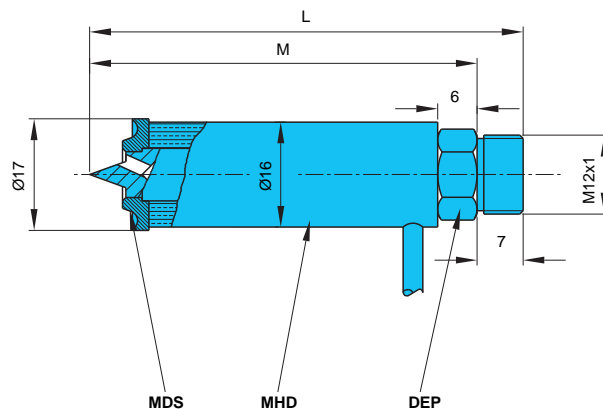
BHA	Corps d'adaptateur	8b-33
DI	Colliers chauffants à thermocouple type 'J'	8b-33
DR	Entretoises	8b-33
ECB	Rondelles entretoises	8b-31
EEP	Embouts	8b-32
HR	Anneaux de centrage	8b-33
MEO	Buses à visser, à passage direct	8b-14
MEP	Buses à visser, type pointe	8b-14
MSO	Buses à joint, à passage direct	8b-15
MSP	Buses à joint, type pointe	8b-15
WTO	Bagues isolantes	8b-33

Systèmes de moulage - à bloc chaud 'Hot-One'

Système à bloc chaud 'Micro Hot-One'

MEP

Buses à visser
Type pointe



REF. Assemblage	L ^{+0,02}	M	Watt 230 V	Mat.
MEP 0060	66	59	175	Standard
MEP 0070	76	69	190	Standard
MEP 0080	86	79	200	Standard
MEP 1060	66	59	175	Résistant à l'usure
MEP 1070	76	69	190	Résistant à l'usure
MEP 1080	86	79	200	Résistant à l'usure

Inclus:

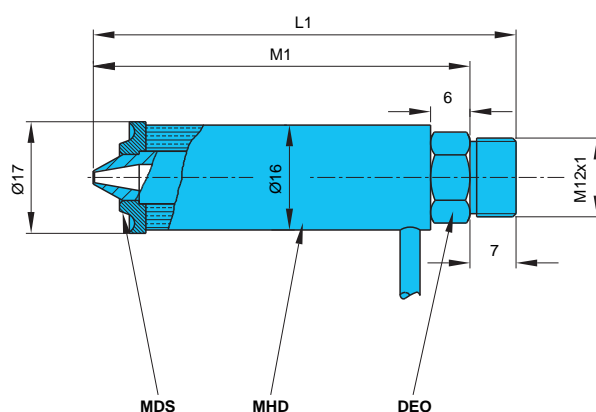
MDS: Rondelle

MHD: Élément chauffant hélicoïdal surmoulé avec thermocouple type 'J'

DEP: Corps de buse à visser, type pointe

MEO

Buses à visser
Type à passage direct



REF. Assemblage	L1 ^{+0,02}	M1	Watt 230 V	Mat.
MEO 0060	65	58	175	Standard
MEO 0070	75	68	190	Standard
MEO 0080	85	78	200	Standard

Inclus:

MDS: Rondelle

MHD: Élément chauffant hélicoïdal surmoulé avec thermocouple type 'J'

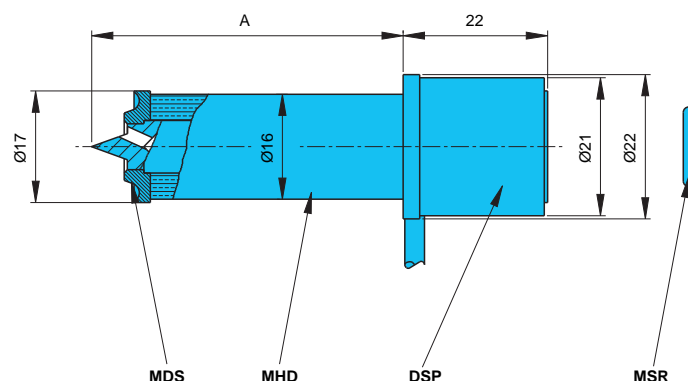
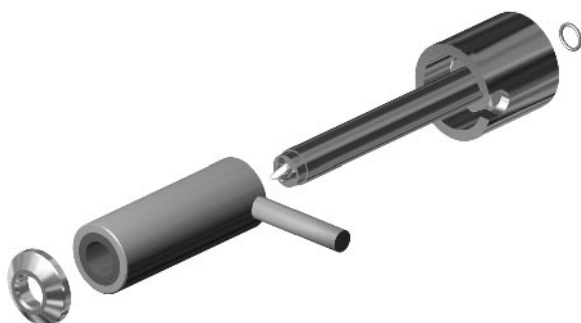
DEO: Corps de buse à visser, à passage direct

Systèmes de moulage - à bloc chaud 'Hot-One'

Système à bloc chaud 'Micro Hot-One'

MSP

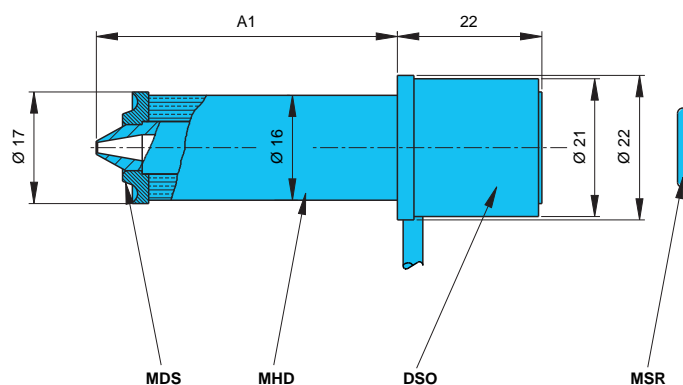
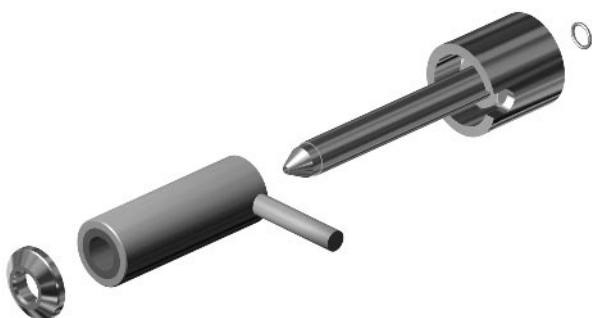
Buses à joint
Type pointe



REF. Assemblage	A ^{+0,03} _{-0,01}	Watt 230 V	Mat.	Inclus:
MSP 0060	47,5	175	Standard	MDS: Rondelle
MSP 0070	57,5	190	Standard	MHD: Élément chauffant hélicoïdal surmoulé avec thermocouple type 'J'
MSP 0080	67,5	200	Standard	DSP: Corps de buse à joint, type pointe
MSP 1060	47,5	175	Résistant à l'usure	MSR: Bague d'étanchéité
MSP 1070	57,5	190	Résistant à l'usure	
MSP 1080	67,5	200	Résistant à l'usure	

MSO

Buses à joint
Type à passage direct



REF. Assemblage	A1 ^{+0,03} _{-0,01}	Watt 230 V	Mat.	Inclus:
MSO 0060	46,5	175	Standard	MDS: Rondelle
MSO 0070	56,5	190	Standard	MHD: Élément chauffant hélicoïdal surmoulé avec thermocouple type 'J'
MSO 0080	66,5	200	Standard	DSO: Corps de buse à joint, à passage direct
				MSR: Bague d'étanchéité

Systèmes de moulage - à bloc chaud 'Hot-One'

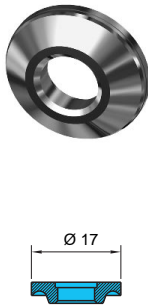
Système à bloc chaud 'Micro Hot-One'

MSP - MSO - MEP - MEO

Pièces de rechange pour buses à visser et buses à joint

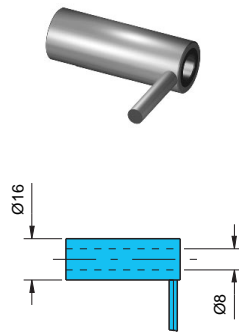
MDS

Rondelles



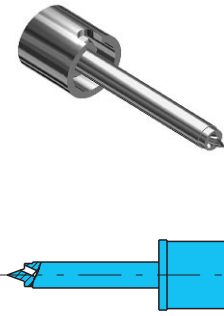
MHD

Éléments chauffants hélicoïdaux sur-moulés avec thermocouple type 'J'



DSP

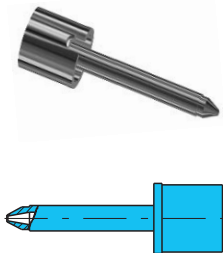
Corps de buse à joint, type pointe



REF.	Pour	REF.	Watt	Pour MSP MEP	Pour MSP - MSO MEP - MEO	REF.	Pour	Mat.
MDS 0001	MSP - MSO	MHD 0044	230	1060	0060	DSP 0060	MSP 0060	Standard
	MEP - MEO		175	1070	0070	DSP 0070	MSP 0070	Standard
		MHD 0054	190	1080	0080	DSP 0080	MSP 0080	Standard
		MHD 0064	200			DSP 1060	MSP 1060	Résistant à l'usure
						DSP 1070	MSP 1070	Résistant à l'usure
						DSP 1080	MSP 1080	Résistant à l'usure

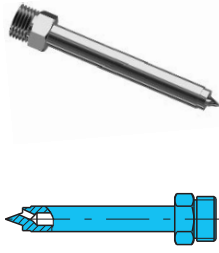
DSO

Corps de buse à joint, à passage direct



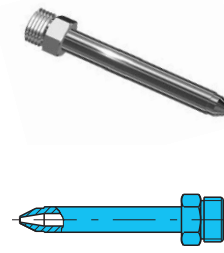
DEP

Corps de buse à visser, type pointe



DEO

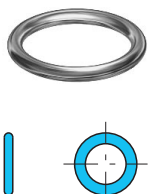
Corps de buse à visser, à passage direct



REF.	Pour	REF.	Pour	Mat.	REF.	Pour
DSO 0060	MSO 0060	DEP 0060	MEP 0060	Standard	DEO 0060	MEO 0060
DSO 0070	MSO 0070	DEP 0070	MEP 0070	Standard	DEO 0070	MEO 0070
DSO 0080	MSO 0080	DEP 0080	MEP 0080	Standard	DEO 0080	MEO 0080
		DEP 1060	MEP 1060	Résistant à l'usure		
		DEP 1070	MEP 1070	Résistant à l'usure		
		DEP 1080	MEP 1080	Résistant à l'usure		

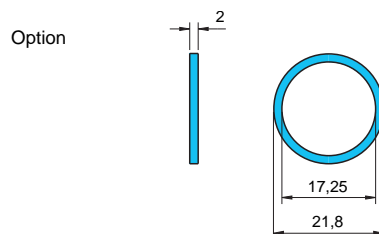
MSR

Bagues d'étanchéité

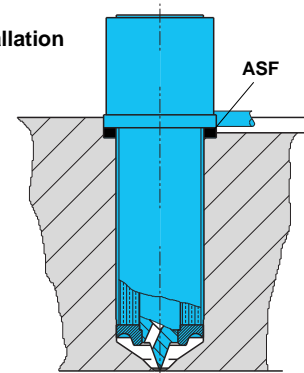


ASF

Rondelles d'épaisseur



Installation



REF.	Pour	REF.	Pour
MSR 6408	MSP - MSO	ASF 0218	MSP - MSO

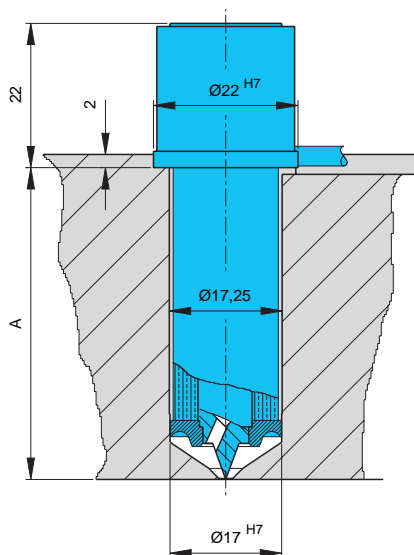
Système à bloc chaud 'Micro Hot-One'

MSP - MSO - MEP - MEO

Buses à visser et buses à joints, type pointe et type à passage direct

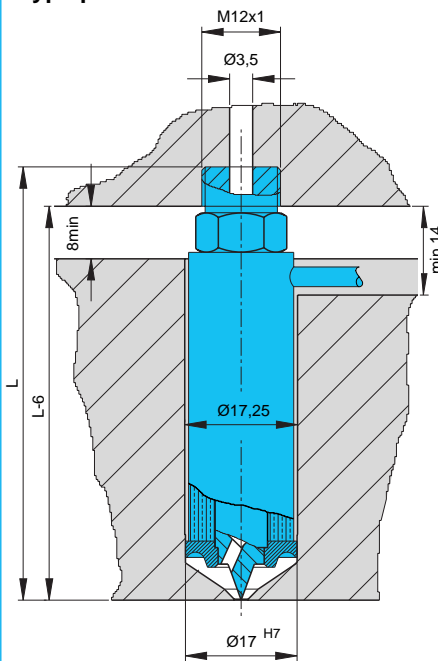
Installation

Buses à joint
Type pointe



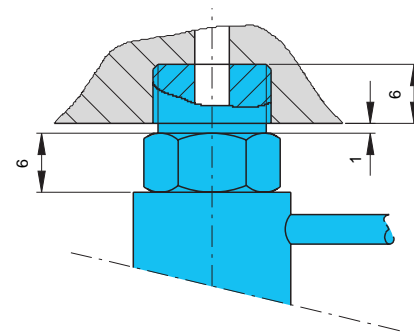
REF.	A
MSP 0060	47,5
MSP 0070	57,5
MSP 0080	67,5

Buses à visser
Type pointe

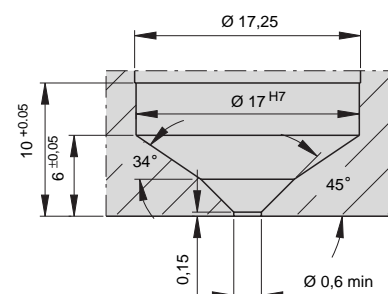


REF.	L
MEP 0060	66
MEP 0070	76
MEP 0080	86

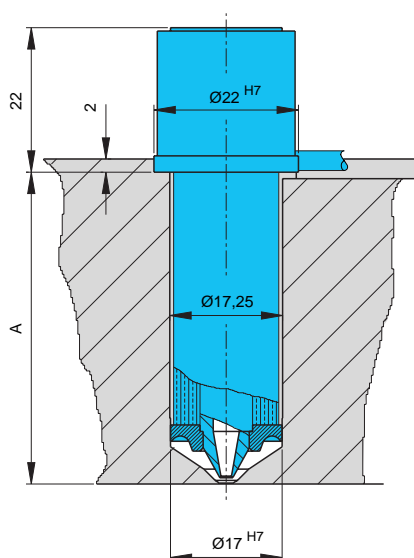
Détails tête à visser



Seuil - type pointe

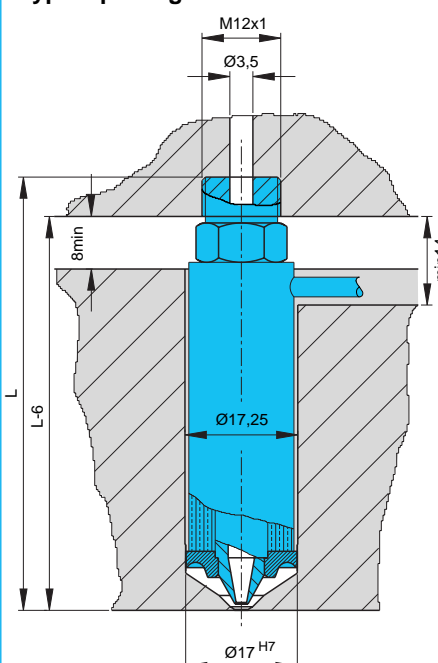


Buses à joint
Type à passage direct



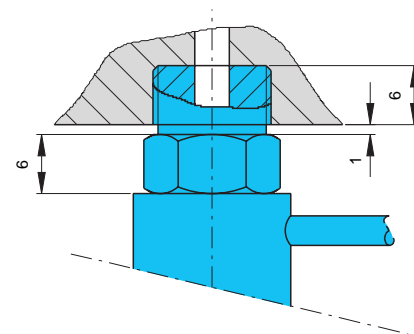
REF.	A
MSO 0060	47,5
MSO 0070	57,5
MSO 0080	67,5

Buses à visser
Type à passage direct

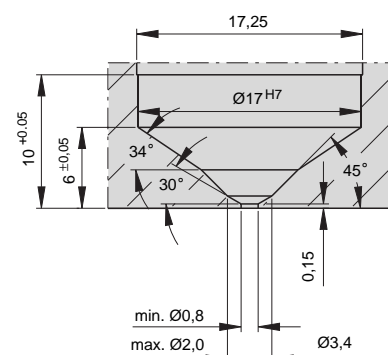


REF.	L
MEO 0060	66
MEO 0070	76
MEO 0080	86

Détails tête à visser

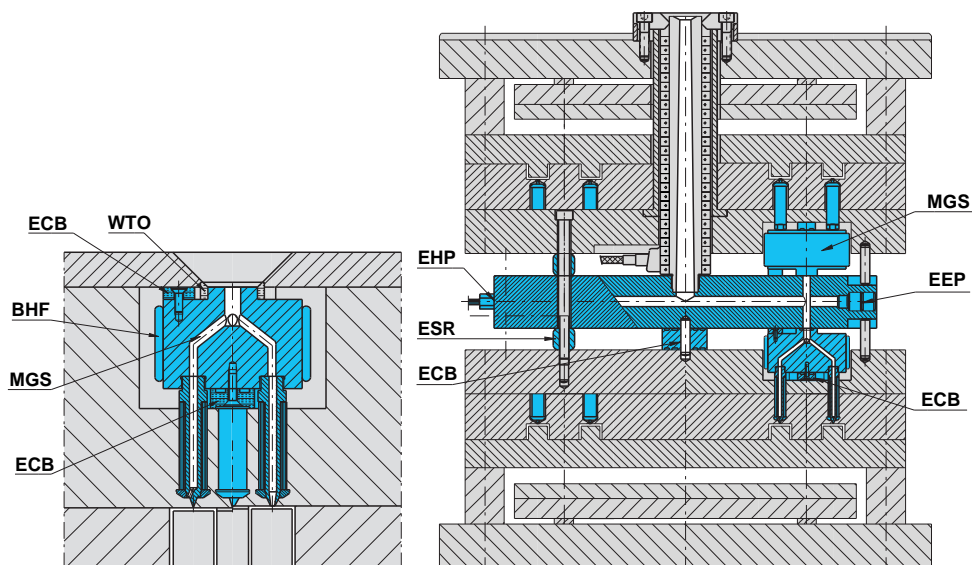
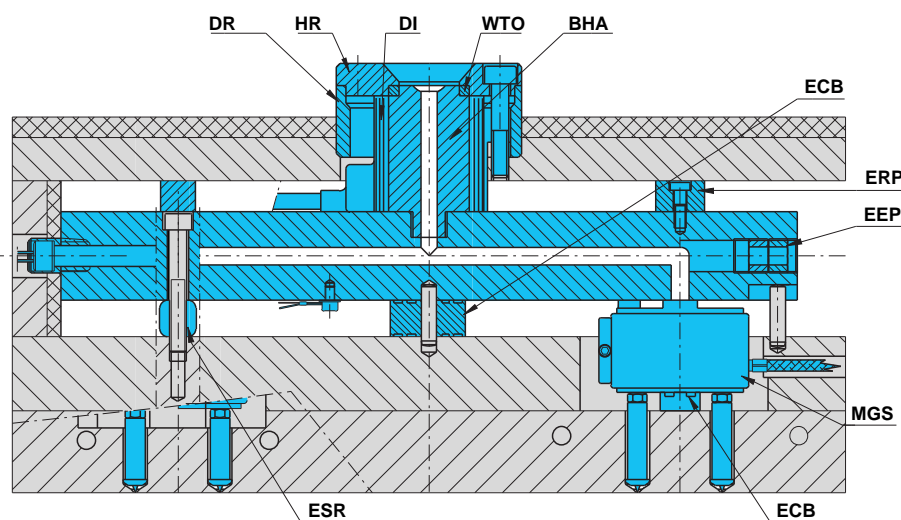
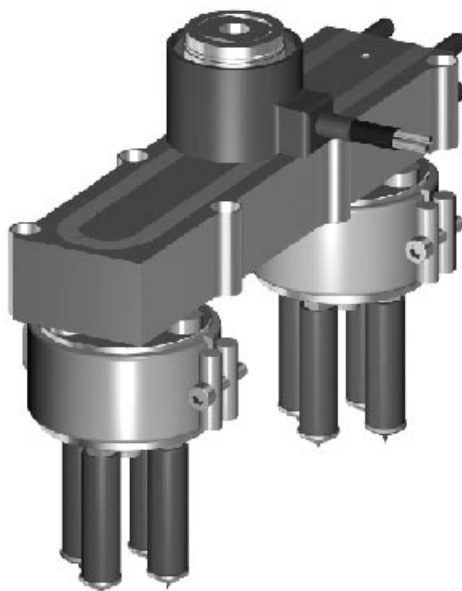


Seuil - type à passage direct



Info

Système à bloc chaud et moule à étage 'Micro Hot-One' avec buses multi-pointes



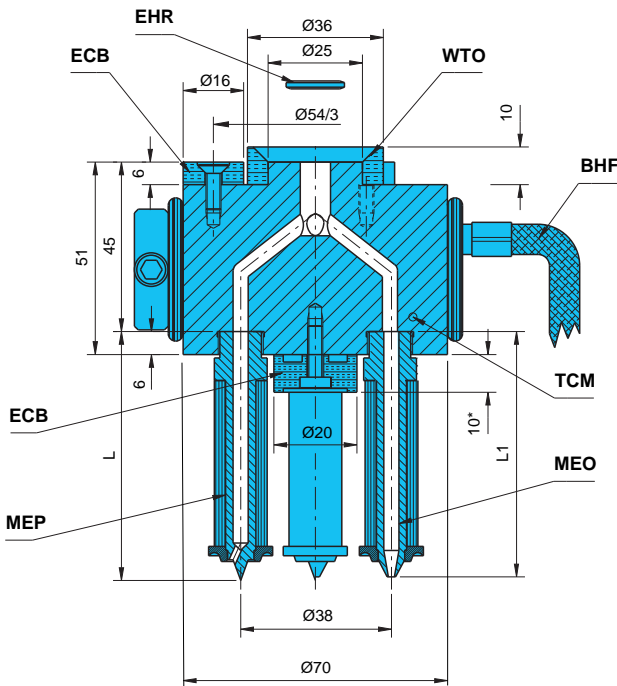
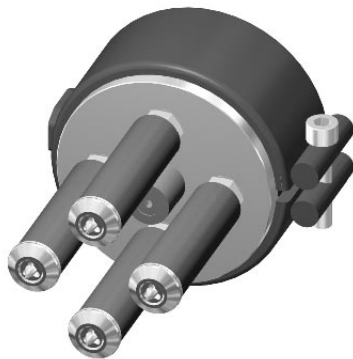
BHA	Corps d'adaptateur	8b-33
BHF	Colliers chauffants à thermocouple type 'J'	8b-19
DI	Colliers chauffants à thermocouple type 'J'	8b-33
DR	Entretoises	8b-33
ECB	Rondelles entretoises	8b-31
EEP	Embouts	8b-32
EHP	Extracteurs de cartouches	8b-28
EHR	Bagues d'étanchéité	8b-25/8b-31
ERP	Semelles entretoises	8b-31
ESR	Bagues entretoises	8b-31
HR	Anneaux de centrage	8b-33
MGS	Buses multi-pointes	8b-19
WTO	Bagues isolantes	8b-33
WTO	Bagues isolantes	8c-18

Systèmes de moulage - à bloc chaud 'Hot-One'

Système à bloc chaud 'Micro Hot-One'

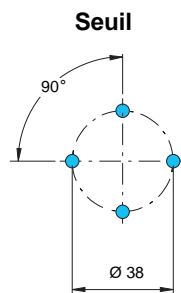
MGS

Buses multi-pointes



L	L1
66	65
76	75
86	85

REF. Sous-ensemble	Nr. de buses
MGS 3802	2
MGS 3804	4

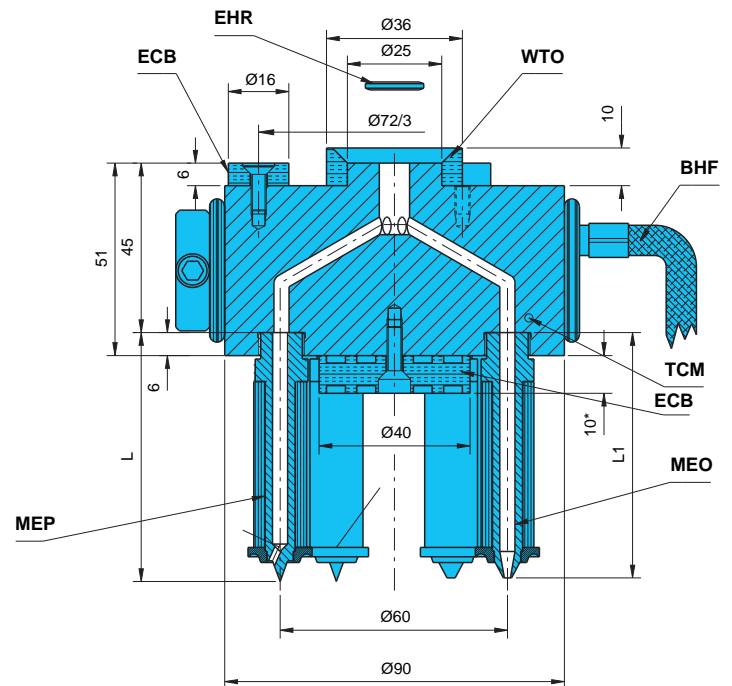


Inclus:

MGS: Buse multi-pointes
BHF: Collier chauffant
WTO: Bague isolante
ECB: Rondelles entretoises
TCM: Thermocouple type 'J'
EHR: Bague d'étanchéité

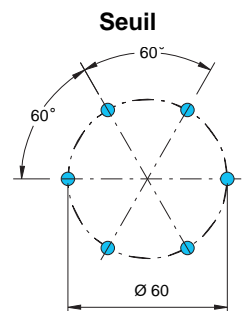
A commander séparément:

MEP: Buse à visser - type pointe (**8b-14**)
MEO: Buse à visser - à passage direct (**8b-14**)



L	L1
66	65
76	75
86	85

REF. Sous-ensemble	Nr. de buses
MGS 6003	3
MGS 6006	6



Inclus:

MGS: Buse multi-pointes
BHF: Collier chauffant
WTO: Bague isolante
ECB: Rondelles entretoises
TCM: Thermocouple type 'J'
EHR: Bague d'étanchéité

A commander séparément:

MEP: Buse à visser - type pointe (**8b-14**)
MEO: Buse à visser - à passage direct (**8b-14**)

* à température ambiante

Comment passer une commande:

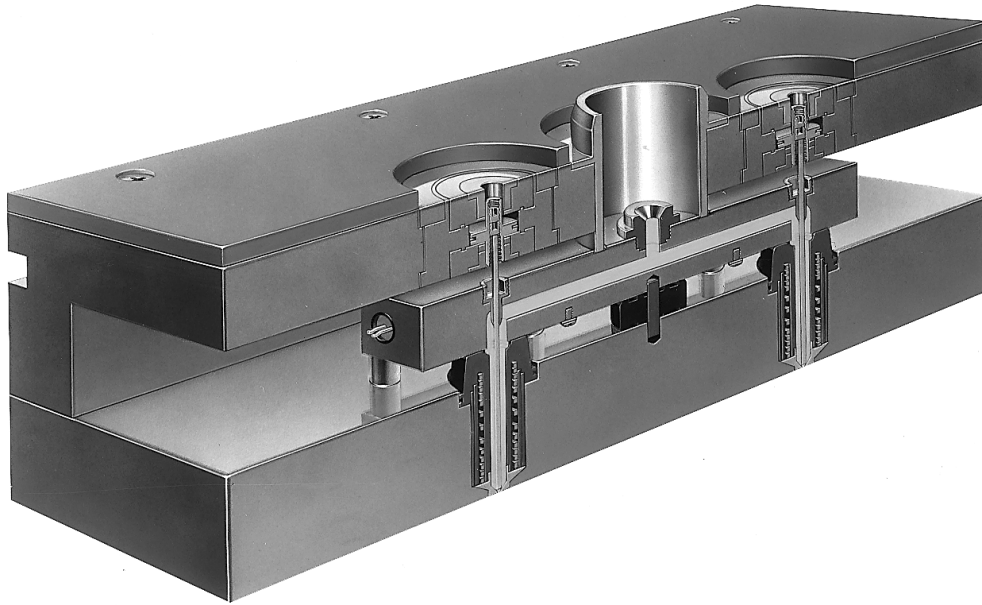
Pour commander une buse multi-pointes complète:
 1. Sélectionner la référence d'un des quatre sous-ensembles disponibles.
 2. Sélectionner l'une des buses disponibles (**8b-14**).
 Il faut ajouter 1. et 2. lors de la commande.

Remarque: Utiliser la rondelle entretoise WTO 3000 pour une application mono-emprente. Rayon à faire par l'outilleur. Pour application sous un bloc chaud, utiliser la bague d'étanchéité.

Pour des informations plus détaillées (installation, buses, pièces de rechanges etc.) voir section **8c-16/8c-19**

Info

Système à obturateur Osco®



Fonctionnement:

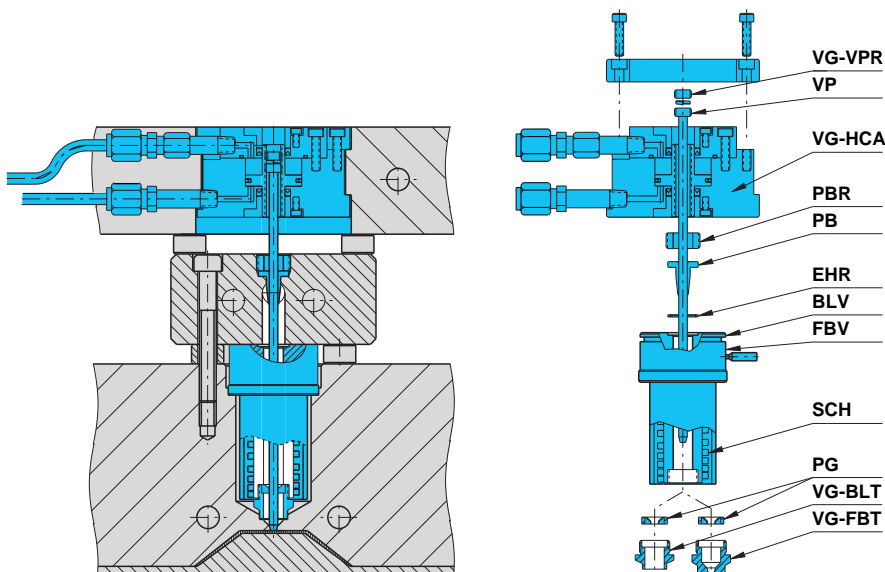
Le principe de base du système repose sur la méthode employée pour ouvrir et fermer chaque seuil d'injection.

Au moulage, chaque seuil est ouvert et fermé indépendamment des autres par un vérin hydraulique, et seulement pendant le temps optimum nécessaire.

Ce système permet d'éliminer les sur-compactages rencontrés dans les systèmes où tous les obturateurs fonctionnent simultanément.

L'emploi de la buse à seuil rapporté est suggéré lorsqu'une marque circulaire est tolérée. Que ce soit en injectant sur la pièce ou dans un canal d'alimentation, le remplacement commode du nez permet une durée de vie plus longue de la buse.

La buse à fermeture sur empreinte, sans seuil rapporté, garantit une esthétique optimale par injection directe sur la pièce.



BLV	Buses à fermeture sur empreinte	8b-23/8b-24
EHR	Bagues d'étanchéité	8b-25/8b-31
FBV	Buses à seuil rapporté	8b-21/8b-22
PB	Joints d'obturateur	8b-25
PBR	Ecrous de blocage	8b-25
PG	Guides d'obturateurs	8b-25
SCH	Eléments chauffants hélicoïdaux à section carrée avec TC type 'J'	8b- 3/8b- 8 8b-11/8b-25
VG-BLT	Nez pour buses à fermeture sur empreinte	8b-26
VG-FBT	Nez pour buses à seuil rapporté	8b-26
VG-HCA	Vérins hydrauliques	8b-22/8b-26
VG-VPR	Ecrous de blocage	8b-25
VP	Obturateurs	8b-25

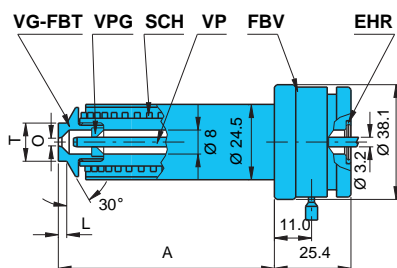
Système à obturateur Osco®

FBV

Buses à obturateur - à seuil rapporté



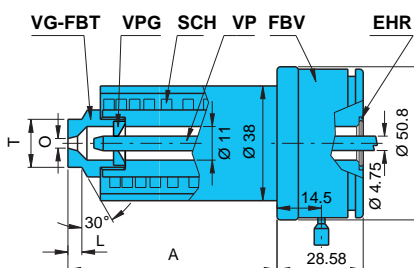
SERIES 50



Inclus:

EHR: Bagues d'étanchéité EHR-0154
FBV: Corps de buse à obturateur - à seuil rapporté
SCH: Élément chauffant à section carrée à thermocouple type 'J'
PG: Guide d'obturateur
VP: Obturateur
VG-VPR: Ecrin de blocage
VG-FBT: Nez pour buse à seuil rapporté
PBR: Ecrin de blocage
PB: Joint d'obturateur
VG-HCA: Vérin hydraulique

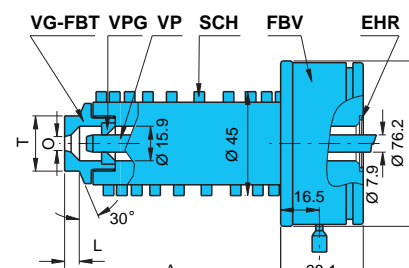
SERIES 100



Inclus:

EHR: Bagues d'étanchéité EHR-0155
FBV: Corps de buse à obturateur - à seuil rapporté
SCH: Élément chauffant à section carrée à thermocouple type 'J'
PG: Guide d'obturateur
VP: Obturateur
VG-VPR: Ecrin de blocage
VG-FBT: Nez pour buse à seuil rapporté
PBR: Ecrin de blocage
PB: Joint d'obturateur
VG-HCA: Vérin hydraulique

SERIES 200



Inclus:

EHR: Bagues d'étanchéité EHR-0156
FBV: Corps de buse à obturateur - à seuil rapporté
SCH: Élément chauffant à section carrée à thermocouple type 'J'
PG: Guide d'obturateur
VP: Obturateur
VG-VPR: Ecrin de blocage
VG-FBT: Nez pour buse à seuil rapporté
PBR: Ecrin de blocage
PB: Joint d'obturateur
VG-HCA: Vérin hydraulique

REF.	A	Eléments chauffants à section carrée Watt 230 V	SERIES	REF.	A	Eléments chauffants à section carrée Watt 230 V	SERIES	REF.	A	Eléments chauffants à section carrée Watt 230 V	SERIES
FBV 520	50,8	SCH 0081 275	50	FBV 1020	50,8	SCH 0088 370	100	FBV 2040	101,6	SCH 0096 920	200
525	63,5	0082 320		1025	63,5	0089 415		2050	127,0	0097 950	
530	76,2	0083 370		1030	76,2	0090 500		2060	152,4	0098 1000	
535	88,9	0084 390		1035	88,9	0091 640		2070	177,8	0099 1000	
540	101,6	0085 460		1040	101,6	0092 735		2080	203,2	0100 1100	
550	127,0	0086 460		1050	127,0	0093 825		2090	228,6	0101 1100	
560	152,4	0087 500		1060	152,4	0094 920		2100	254,0	0102 1100	
				1070	177,8	0095 1000					

T	L	O
9,52	2,29	1,27 Min. 2,03 Max.
12,70	3,17	
19,05	4,95	

T	L	O
12,70	3,17	2,03 Min. 3,81 Max.
19,05	4,95	
25,40	9,11	

T	L	O
12,70	3,17	3,81 Min. 6,35 Max.
19,05	4,75	
25,40	9,11	

Comment passer commande !

Pour commander un buse à obturateur Osco®:

1. Sélectionner et spécifier la référence d'une des buses à obturateur Osco® à seuil rapporté.
2. Spécifier le diamètre T de l'orifice.
3. Spécifier le diamètre O, compris entre Min. et Max.
4. Préciser la hauteur si l'on dévie de la valeur 'A + nom'.

Il faut ajouter 1. 2. et 3. lors de la commande.

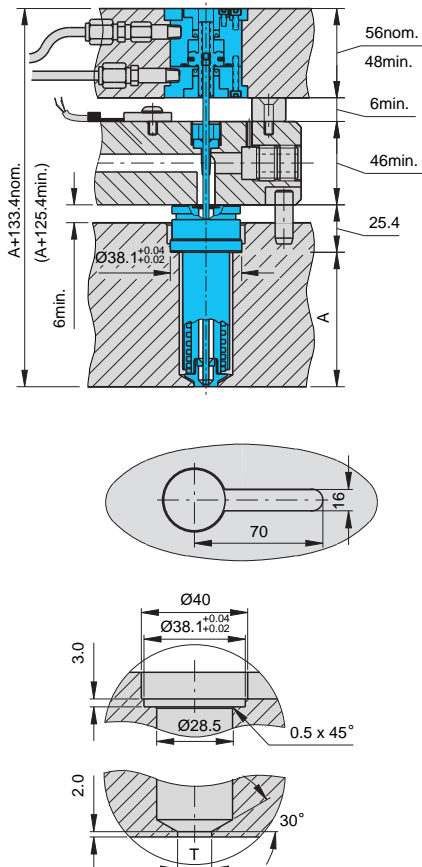
Système à obturateur Osco®

FBV

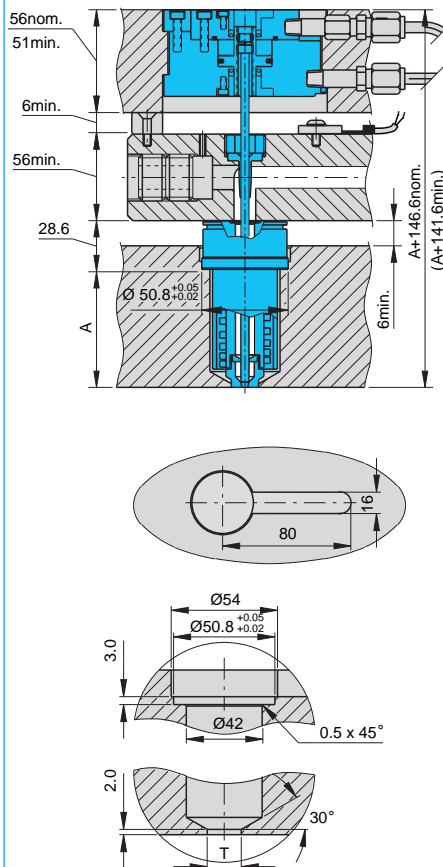
Buses à obturateur - à seuil rapporté

Installation

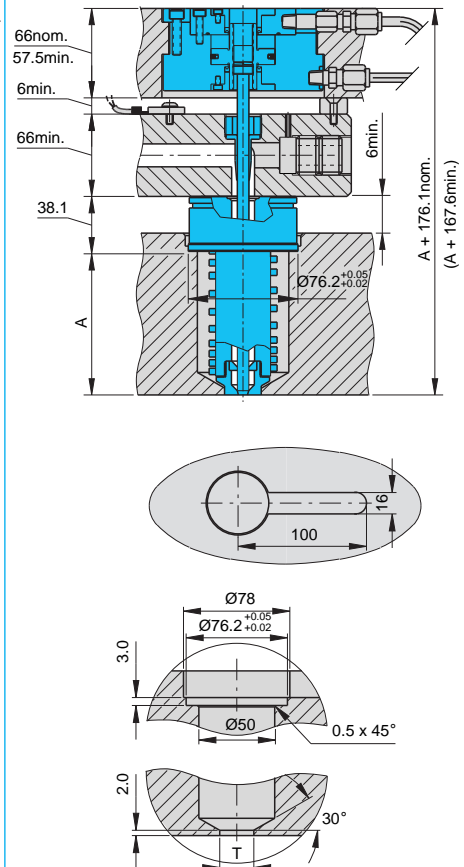
SERIES 50



SERIES 100



SERIES 200

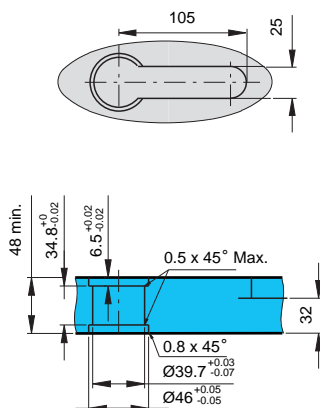


VG-HCA

Vérins hydrauliques pour buses à obturateur Osco® à seuil rapporté et à fermeture sur empreinte

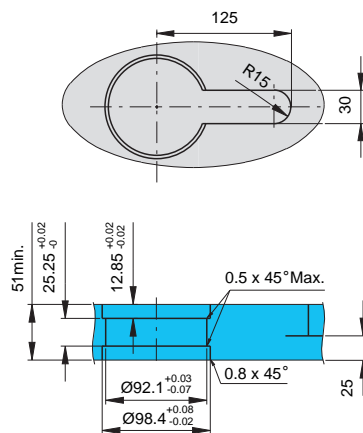
Installation

SERIES 50



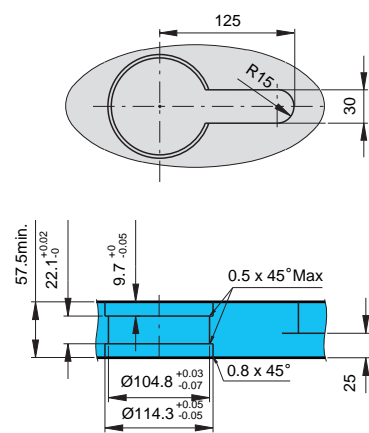
REF. VG50HCA

SERIES 100



REF. VG100HCA

SERIES 200



REF. VG200HCA

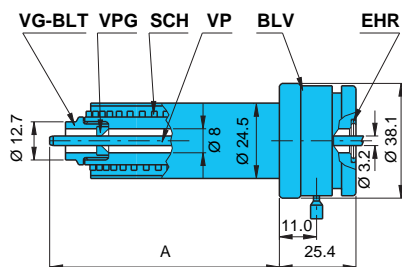
Système à obturateur Osco®

BLV

Buses à obturateur - à fermeture sur empreinte



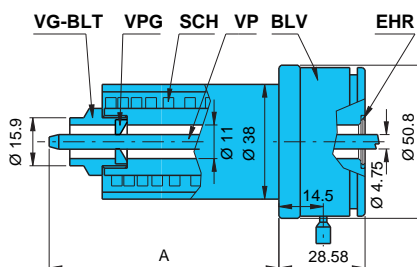
SERIES 50



Inclus:

EHR: Bague d'étanchéité EHR-0154
FBV: Corps de buse à obturateur - à fermeture sur empreinte
SCH: Élément chauffant à section carrée à thermocouple type 'J'
PG: Guide d'obturateur
VP: Obturateur
VG-VPR: Ecrin de blocage
VG-BLT: Nez pour buse à fermeture sur empreinte
PBR: Ecrin de blocage
PB: Joint d'obturateur
VG-HCA: Vérin hydraulique

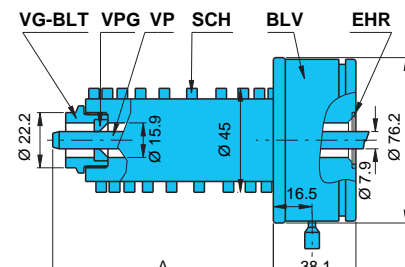
SERIES 100



Inclus:

EHR: Bague d'étanchéité EHR-0155
FBV: Corps de buse à obturateur - à fermeture sur empreinte
SCH: Élément chauffant à section carrée à thermocouple type 'J'
PG: Guide d'obturateur
VP: Obturateur
VG-VPR: Ecrin de blocage
VG-BLT: Nez pour buse à fermeture sur empreinte
PBR: Ecrin de blocage
PB: Joint d'obturateur
VG-HCA: Vérin hydraulique

SERIES 200



Inclus:

EHR: Bague d'étanchéité EHR-0156
FBV: Corps de buse à obturateur - à fermeture sur empreinte
SCH: Élément chauffant à section carrée à thermocouple type 'J'
PG: Guide d'obturateur
VP: Obturateur
VG-VPR: Ecrin de blocage
VG-BLT: Nez pour buse à fermeture sur empreinte
PBR: Ecrin de blocage
PB: Joint d'obturateur
VG-HCA: Vérin hydraulique

REF.	A	Eléments chauffants à section carrée Watt 230 V	SERIES	REF.	A	Eléments chauffants à section carrée Watt 230 V	SERIES	REF.	A	Eléments chauffants à section carrée Watt 230 V	SERIES
BLV 520	50,8	SCH 0081	275	BLV 1020	50,8	SCH 0088	370	BLV 2040	101,6	SCH 0096	920
525	63,5	0082	320	1025	63,5	0089	415	2050	127,0	0097	950
530	76,2	0083	370	1030	76,2	0090	500	2060	152,4	0098	1000
535	88,9	0084	390	1035	88,9	0091	640	2070	177,8	0099	1000
540	101,6	0085	460	1040	101,6	0092	735	2080	203,2	0100	1100
550	127,0	0086	460	1050	127,0	0093	825	2090	228,6	0101	1100
560	152,4	0087	500	1060	152,4	0094	920	2100	254,0	0102	1100
				1070	177,8	0095	1000				

Diamètre d'orifice (p. 8b-24)

O
1,27 Min.
2,03 Max.

Diamètre d'orifice (p. 8b-24)

O
2,03 Min.
3,81 Max.

Diamètre d'orifice (p. 8b-24)

O
3,81 Min.
6,35 Max.

Comment passer commande !

Pour commander un buse à obturateur Osco®:

1. Sélectionner et spécifier la référence d'une des buses à obturateur Osco® à fermeture sur empreinte.
2. Spécifier le diamètre O, compris entre Min. et Max.
3. Préciser la hauteur si l'on dévie de la valeur 'A + nom'.

Il faut ajouter 1. et 2. lors de la commande.

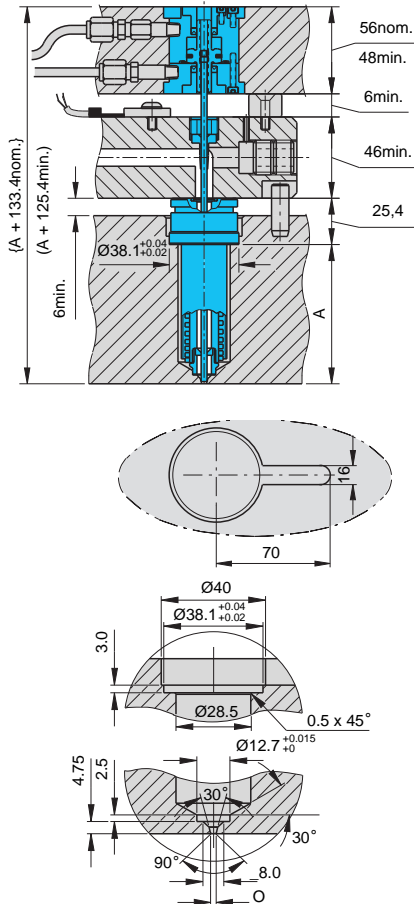
Système à obturateur Osco®

BLV

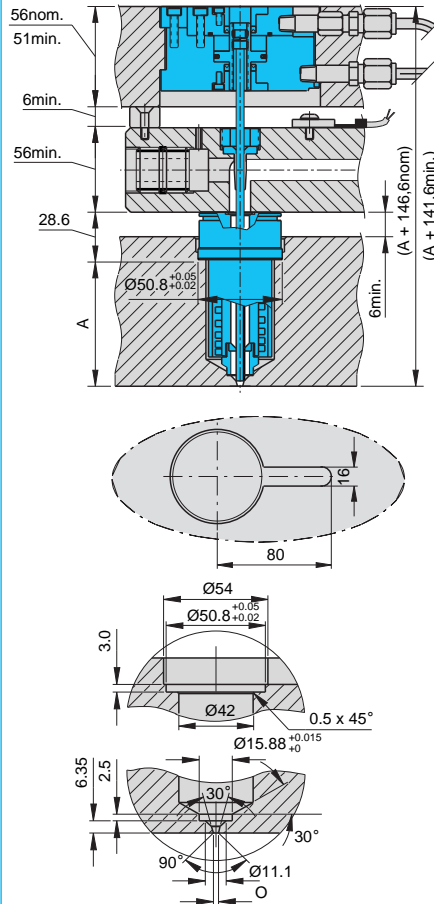
Buses à obturateur - à fermeture sur empreinte

Installation

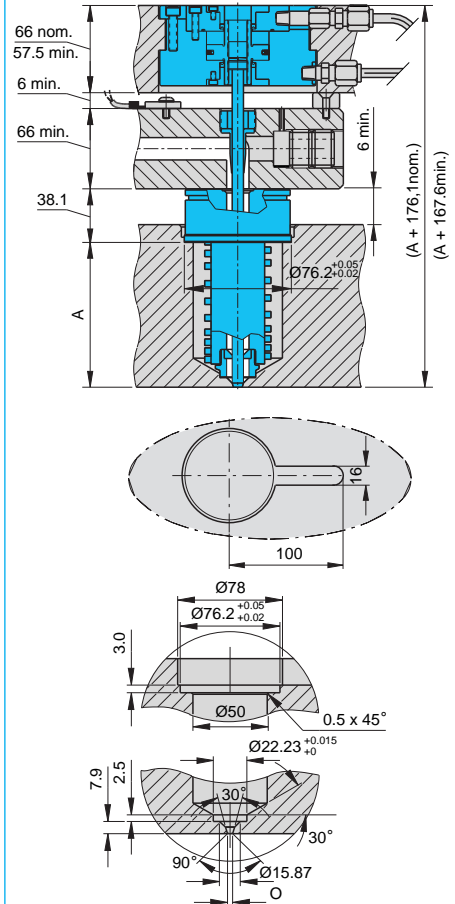
SERIES 50



SERIES 100



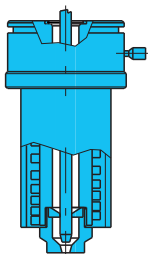
SERIES 200



Info

Sélection des buses à obturateur Osco®

FBV

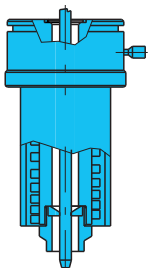


Buses à obturateur - a seuil rapporté

Conçue pour injecter sur la pièce ou sur un canal d'alimentation, lorsqu'un contrôle maximum du remplissage de l'empreinte est requis. Le tableau montre la capacité en grammes de chaque buse avec des seuils standard, selon la viscosité.

Capacité d'injection en grs						
Diamètre du seuil	SERIES 50		SERIES 100		SERIES 200	
	1,3	2,0	2,0	3,8	3,8	6,4
forte	500	1000	1500	2000	2000	4000
moyenne	1000	1500	2000	3000	4000	6000
faible	1500	2000	3000	4000	6000	8000

BLV



Buses à obturateur - à fermeture sur empreinte

Conçue pour les cas où la marque circulaire du seuil rapporté n'est pas admissible.

Capacité d'injection en grs						
Diamètre du seuil	SERIES 50		SERIES 100		SERIES 200	
	1,3	2,0	2,0	3,8	3,8	6,4
forte	150	250	500	1000	2000	3000
moyenne	250	500	1000	2000	3000	4000
faible	500	1000	2000	3000	4000	6000

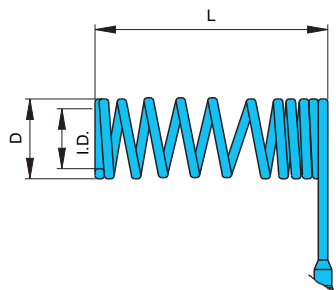
Système à obturateur Osco®

SCH - EHR - VG-VPR - VP - PBR - PB - PG

Pièces de rechange

SCH

Eléments chauffants hélicoïdaux à section carrée à thermocouple type 'J'

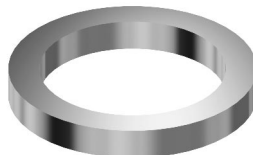


Longueur du câble: 850 mm
Câbel noir 230 V
Câble noir 230 V
Câble blanc + } Thermocouple type 'J'
Câble rouge - }

REF.	pour FBV/BLV	L	I.D.	D	Watt 230 V
SCH 0081	520	50,80	15,37	20,70	275
0082	525	63,50			320
0083	530	76,20			370
0084	535	88,90			390
0085	540	101,60			460
0086	550	127,00			460
0087	560	152,40			500
SCH 0088	1020	53,97	21,72	27,05	370
0089	1025	66,68			415
0090	1030	79,38			500
0091	1035	92,07			640
0092	1040	104,77			735
0093	1050	130,17			825
0094	1060	156,58			920
0095	1070	180,99			1000
SCH 0096	2040	101,60	37,47	42,80	920
0097	2050	127,00			950
0098	2060	152,40			1000
0099	2070	177,80			1000
0100	2080	203,20			1100
0101	2090	228,60			1100
0102	2100	254,00			1100

EHR

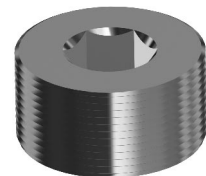
Bagues d'étanchéité



REF.	D	ID	T	SERIES
EHR 0154	14,25	11,10	1,57	50
0155	17,42	14,72	1,57	100
0156	26,97	23,80	1,57	200

VG-VPR

Ecrous de blocage



REF.	SERIES
VG 50-VPR	50
100	100
200	200

VP

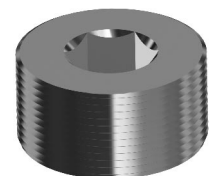
Obturbateurs



REF.	SERIES
VP 50x14	50
100x14	100
200x14	200

PBR

Ecrous de blocage



REF.	SERIES
PBR 50	50
100	100
200	200

PB

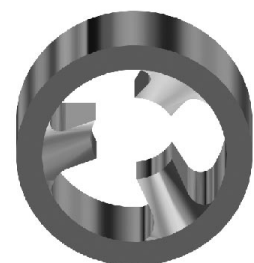
Joint d'obturbateur



REF.	SERIES
PB 50	50
100	100
200	200

PG

Guides d'obturbateur



REF.	SERIES
PG 50	50
100	100
200	200

Système à obturateur Osco®

VG-FBT - VG-BLT - VG-HCA - HCU

Pièces de rechange

VG-FBT

Nez à seuil rapporté

**VG-BLT**

Nez à fermeture sur empreinte

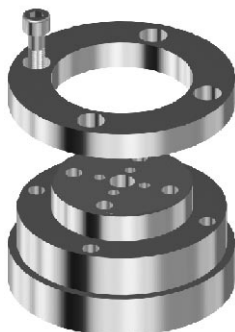


REF.	SERIES
VG 50-FBT	50
VG 100-FBT	100
VG 200-FBT	200

REF.	SERIES
VG 50-BLT	50
VG 100-BLT	100
VG 200-BLT	200

VG-HCA

Vérins hydrauliques



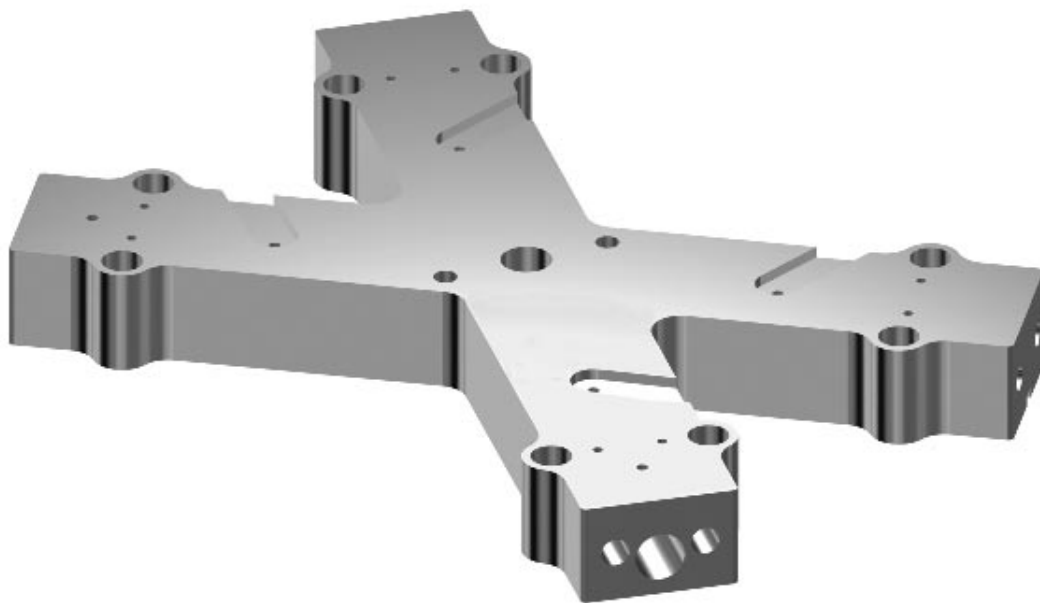
REF.	SERIES
VG 50-HCA	50
VG 100-HCA	100
VG 200-HCA	200

HCUAppareil de contrôle pour vérins hydrauliques
Séquence injection

Pour plus de renseignements, contacter D-M-E

Info

Blocs chauds 'Hot-One'

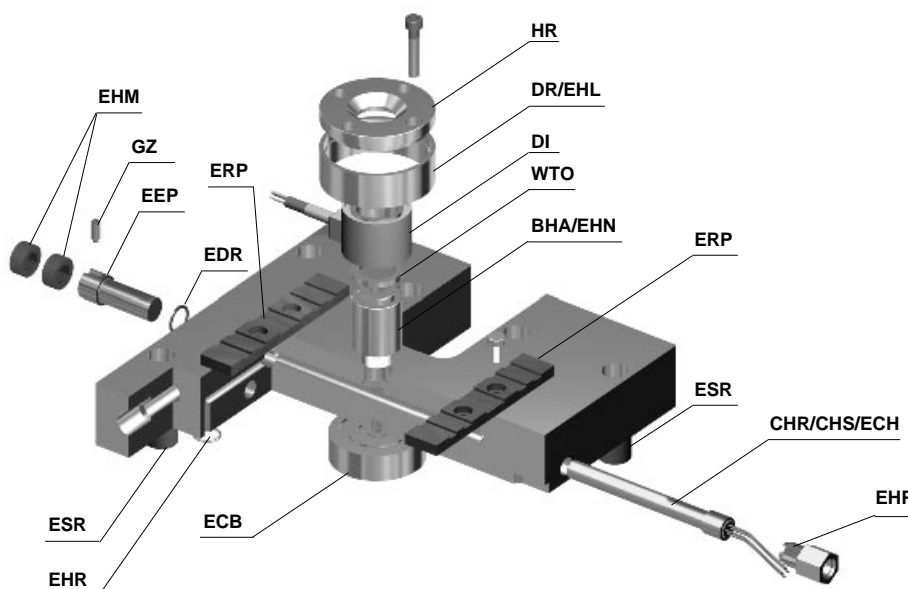


Construction

D-M-E réalise un bloc de distribution aux spécifications du client comme suit:

1. Dimensions extérieures suivant plan.
2. Alésages pour cartouches chauffantes.
3. Alésages des canaux d'écoulement.
4. Bloc de distributeur complet suivant dessin du client.

Exemple d'un bloc chaud 'Hot-One'



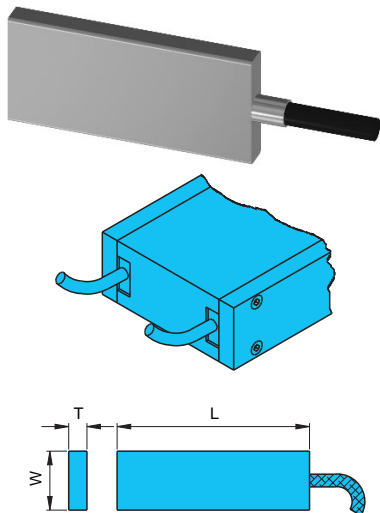
BA	Adaptateurs à baïonnette	8b-30
BHA	Corps d'adaptateurs	8b-33
CHR	Cartouches chauffantes rectangulaires	8b-28
CHS	Cartouches chauffantes à bague	8b-28
DI	Colliers chauffants à thermocouple type 'J'	8b-33
DR	Entretoises	8b-33
ECB	Rondelles entretoises	8b-31
ECH	Cartouches chauffantes standard	8b-28
EDR	Bague d'étanchéité	8b-32
EEP	Embouts	8b-32
EHL	Bagues de centrage	8b-31
EHN	Reçus de buse	8b-31
EHP	Extracteurs de buse	8b-28
EHR	Bagues d'étanchéité	8b-25/8b-31
ERP	Semelles entretoises	8b-31
ESR	Bagues entretoises	8b-31
GZ	Vis de réglage	8b-32
HR	Anneaux de centrage	8b-33
WTO	Bagues isolantes	8b-33
-	Eléments chauffants tubulaires	8b-29

Systèmes de moulage - à bloc chaud 'Hot-One'

Accessoires blocs chauds 'Hot-One'

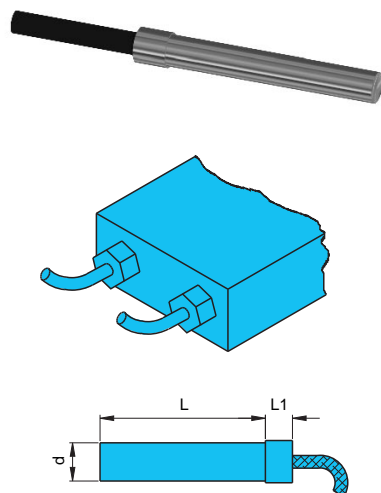
CHR

Cartouches chauffantes rectangulaires



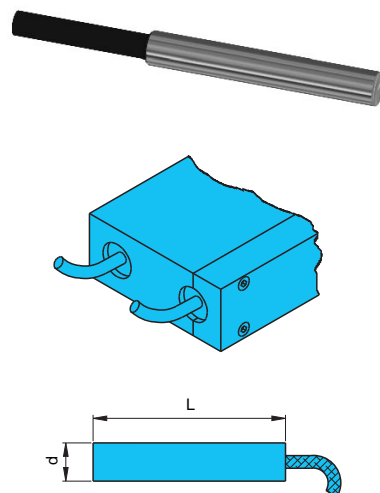
CHS

Cartouches chauffantes à bague

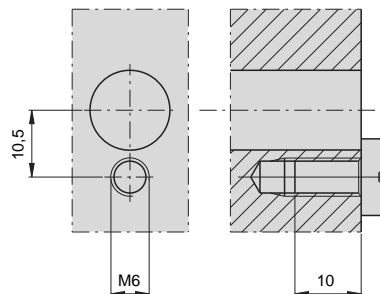


ECH

Cartouches chauffantes standard



Installation

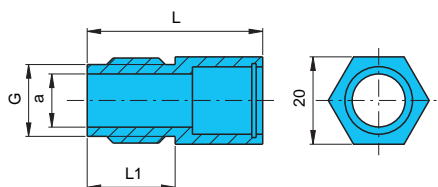
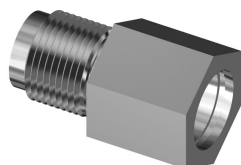


REF.	L	W	T	Watt 230 V	REF.	L	L1	d	Watt 230 V	REF.	L	d	Watt 230 V
CHR 0135	51,0	25,4	6,35	185	CHS 1119	85	15	12,5	460	ECH 1103	100	12,5	460
0136	76,0			275	1120	100			530	1104	115		530
0137	101,5			370	1121	115			600	1105	130		600
0138	127,0			460	1122	125			665	1106	140		665
0139	152,5			550	1123	135			735	1107	150		735
0140	178,0			640	1124	150			800	1108	165		800
0141	203,0			735	1125	165			870	1109	180		870
0142	228,5			825	1126	175			940	1110	190		940
0143	254,0			920	1127	190			1000	1111	205		1000
0144	279,5			1000	1128	200			1080	1112	215		1080
0145	305,0			1100	1129	215			1100	1113	230		1100
0146	406,5			1470	1130	235			1240	1114	250		1240
0147	457,0			1650	1131	265			1380	1115	280		1380
0148	610,0			2200	1132	285			1500	1116	300		1500
					1133	365			1880	1117	380		1880
					1134	445			2300	1118	460		2300

Pour le bon choix, contacter le centre de service D-M-E

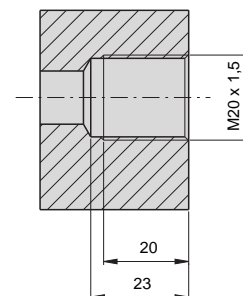
EHP

Extracteurs de cartouches



REF.	G	a	L	L1
EHP 0167 X	M20x1,5	12,5	41,3	20,7

Installation



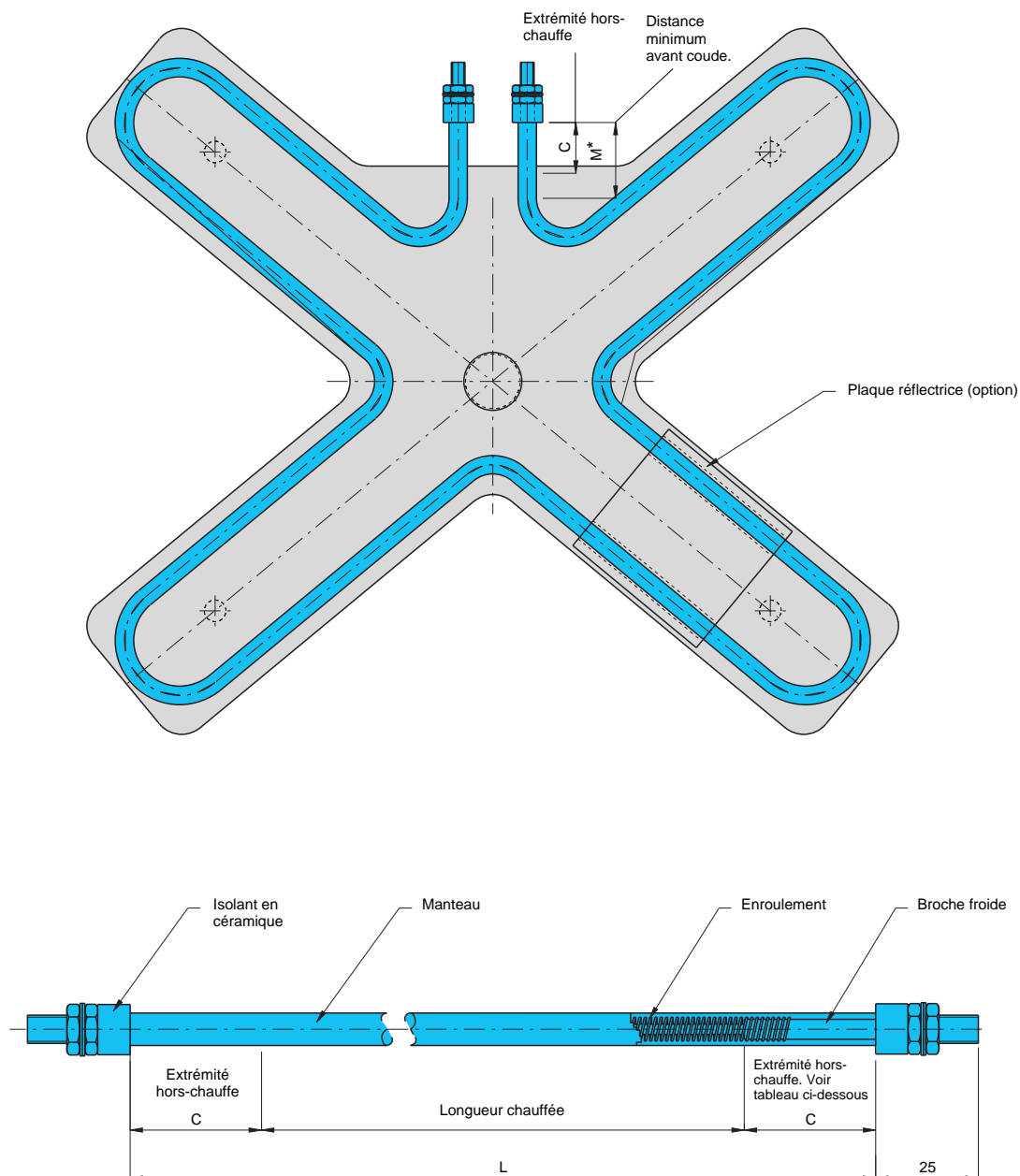
Systèmes de moulage - à bloc chaud 'Hot-One'

Accessoires blocs chauds 'Hot-One'

Éléments chauffants tubulaires

- Toutes formes et dimensions possibles.
- Blocs de distribution équilibrés.
- Éléments chauffants à longue durée de vie.
- Consulter D-M-E.

Attention: une section chauffée de l'élément ne peut jamais dépasser du bloc.



L mm	< 500	< 1000 ≥ 500	< 2000 ≥ 1000	< 2800 ≥ 2000	< 3600 ≥ 2800	< 4300 ≥ 3600
C	25	32	38	42	44	51

$*M = C + 13 + 0,005 \times L$

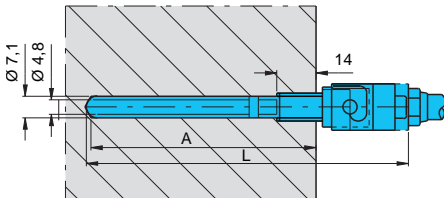
Accessoires blocs chauds 'Hot-One'

TC - ETC - BA

Thermocouples et Adaptateurs à baïonnette

TC

Installation

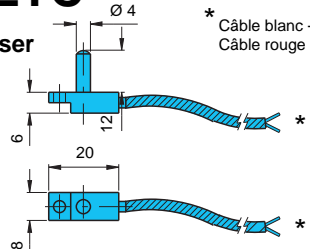


* = Longueur d' adaptateur

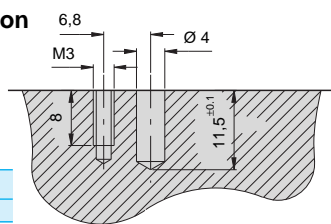
L	A	
	22,2*	34,9*
63,5	25,4- 34,9	12,7- 22,2
88,9	50,9- 60,3	38,1- 47,6
152,4	114,3-123,8	101,6-111,1
266,7 max.	12,7-266,7	12,7-266,7

ETC

Type à visser 90°



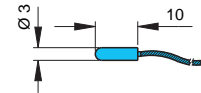
Installation



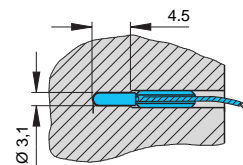
REF.
ETC 0170

TCM

Thermocouple cylindrique



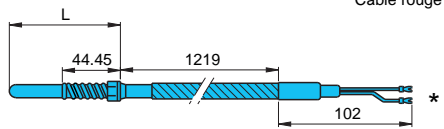
Installation



REF.
TCM 0003

TC

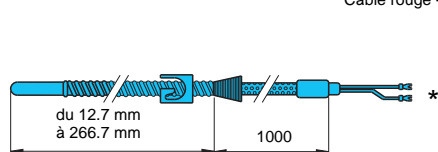
Type droit



REF.	L
TC 2500	63,5
TC 3500	88,9
TC 6000	152,4

TC

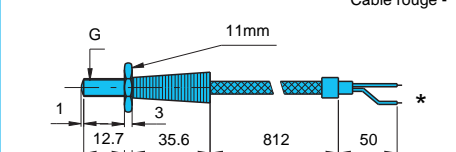
Type ajustable



REF.	L
TC 8000	1000

ETC

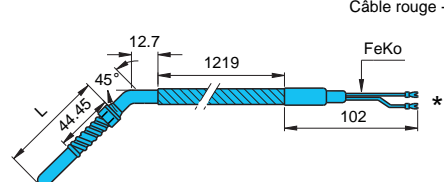
Type fileté



REF.	G
ETC 0251	1/4-28 UNF
ETC 0251 M	M6

TC

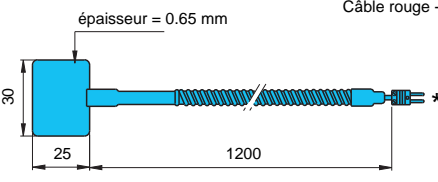
Type 45°



REF.	L
TC 2545	63,5
TC 3545	88,9
TC 6045	152,4

TC

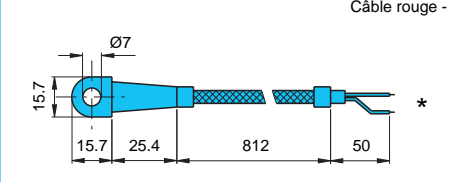
Type à spatule



REF.	L
TC 9000	1200

ETC

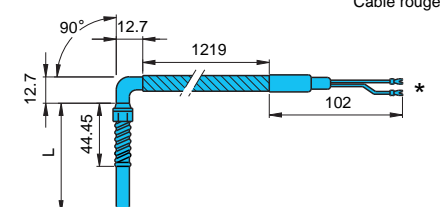
Type à rondelle



REF.	L
ETC 0168	812

TC

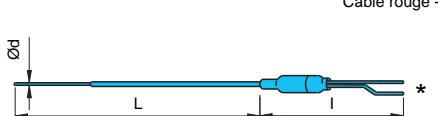
Type 90°



REF.	L
TC 2590	63,5
TC 3590	88,9
TC 6090	152,4

TC

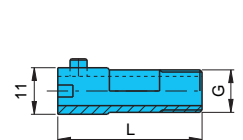
Type à broche



REF.	L	I	d
TC 8500	63,5	330,2	0,5
TC 9900	203,2	1250,0	0,5
TC 19	70,0	1000,0	1,6

BA

Adaptateur à baïonnette

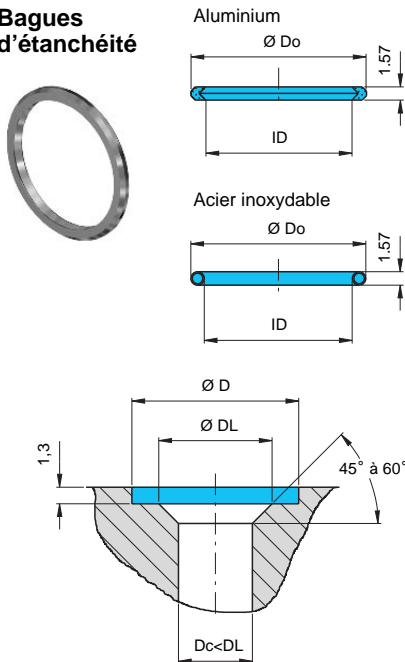


REF.	L	G
BA 1007	22,2	1/8-27 NPT
BA 1013	34,9	1/8-27 NPT
BA 4007	22,2	3/8-24 UNF
BA 4013	34,9	3/8-24 UNF

Accessoires à bloc chaud 'Hot-One'

EHR

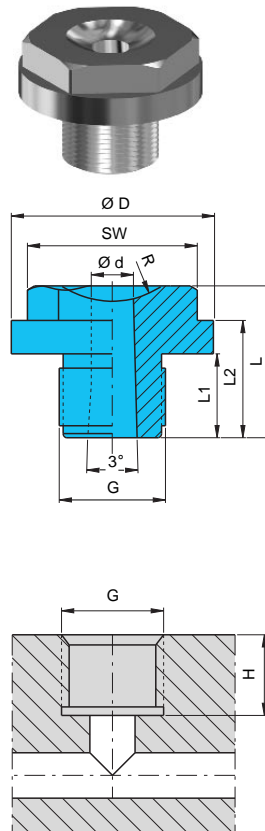
Bagues d'étanchéité



REF.	Dc nom.	ID	Do	D	DL max.	Mat.
EHR 0154	6,3	11,10	14,25	14,35	11,10	Aluminium
0155	9,5	14,27	17,42	17,55	12,70	
0156	22,20	23,80	26,97	27,08	23,80	
0160	12,70	17,45	20,62	20,80	16,00	
0162	16,00	19,05	22,22	22,37	17,50	
1145	4,0	6,70	9,50	9,55	5,20	Acier inoxydable
1150	5,25	9,56	12,70	12,75	8,0	
1154	8,0	11,10	14,25	14,35	9,50	
1155	9,5	14,27	17,42	17,55	12,70	
1156	18,00	23,80	26,97	27,08	23,80	
1160	12,70	17,45	20,62	20,80	16,00	
1162	16,00	19,05	22,22	22,37	17,50	
1165	17,50	21,00	24,14	24,20	18,00	
1168	22,20	26,97	30,18	30,25	25,40	

EHN

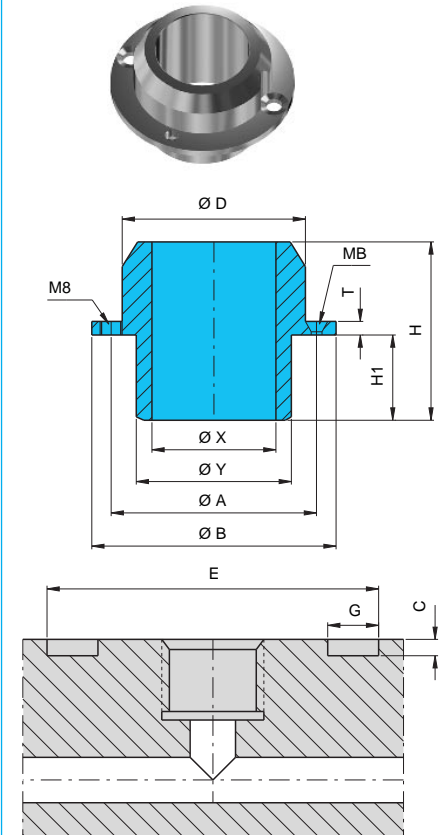
Reçus de buse



REF.	D	SW	G	L	L1	L2	d	R	H
EHN 0001 EX	38,1	32	M20x1,5	28,6	15,8	22,1	7,9	15,5	15,0
0002 EX	38,1	32	M20x1,5	28,6	15,8	22,1	7,9	0	15,0
0003 EX	47,6	38	M24x1,5	44,5	19,0	34,8	9,5	15,5	18,5
0004 EX	47,6	38	M24x1,5	44,5	19,0	34,8	9,5	0	18,5

EHL

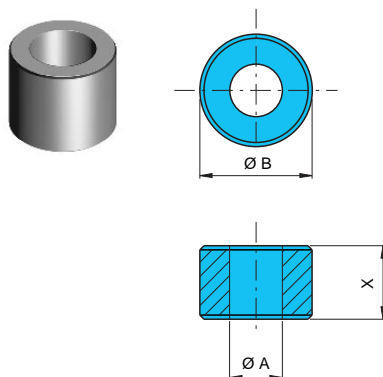
Bagues de centrage



REF.	H	H1	T	A	B	D	X	Y	E	D	C
EHL 0252 EX	73	34,9	5,53	84,1	100	75	50,8	63,5	65	10	3,2
0253 EX	73	34,9	5,53	117,5	140	100	82,6	95,2	98	10	3,2

ESR

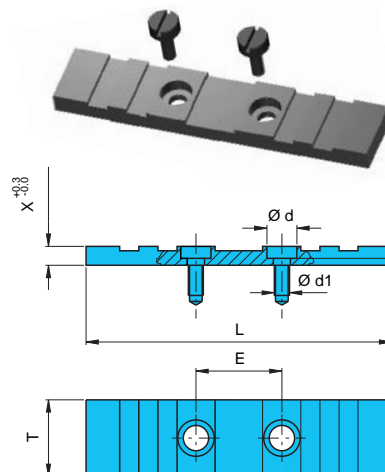
Bagues entretoises



REF.	A	B	X	Mat.
ESR 0157	10,30	22	6,35	Acier
0163	10,30	22	10,00	
0164	10,30	22	20,00	
0166	13,50	22	20,00	
0463	10,30	22	10,00	Titane
0464	10,30	22	20,00	
0466	13,50	22	20,00	

ERP

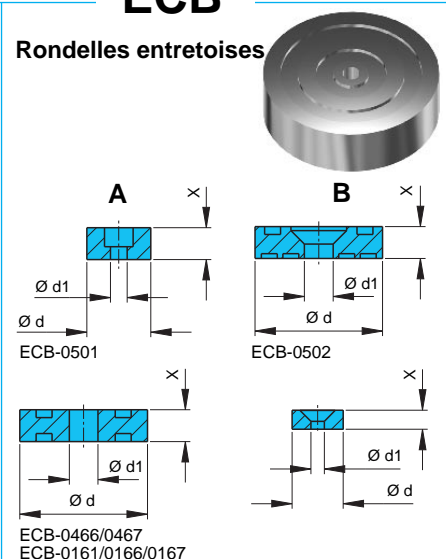
Semelles entretoises



REF.	L	X	T	d	d1	S	E
ERP 0161	50	10,00	15,0	10	5,7	4,5	28,6
0162	50	20,00	15,0	10	5,7	4,5	28,6
0163	101,6	9,50	25,4	10	5,7	4	28,6
0164	101,6	19,00	25,4	10	5,7	4	28,6

ECB

Rondelles entretoises



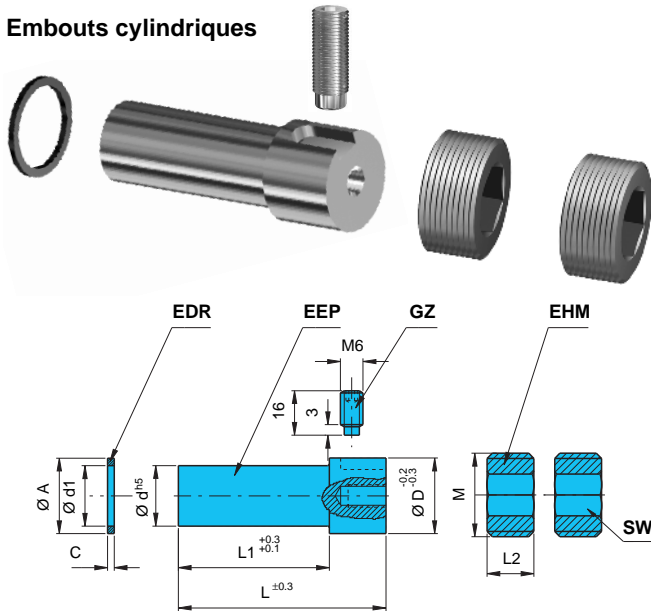
REF.	d	d1	X	Mat.
ECB 0161	63,5	6,35	6,35	Acier
0166	30	8,0	20,00	
0167	40	8,0	10,00	
0466	30	8,2	20,00	
0467	30	8,2	10,00	Titane
0500	16	4,2	6,00	
0501	20	5,2	10,00	
0502	40	8,2	10,00	

Systèmes de moulage - à bloc chaud 'Hot-One'

Accessoires bloc chaud 'Hot-One'

EEP

Embout cylindriques

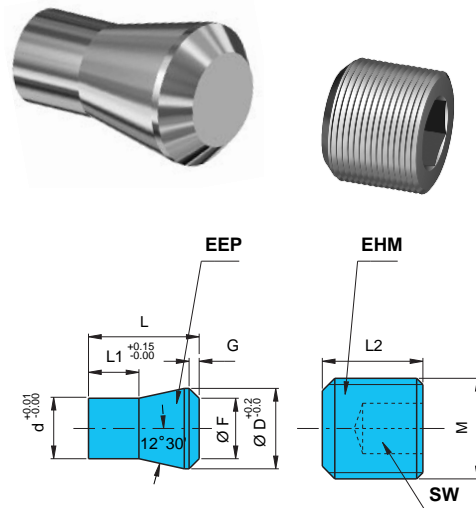


REF.	A	C	d1	L	L1	D	d	M	L2	SW
EEP-2440	30	2,0	24	60	40	30	24	32 x 1,5	15	17
EEP-1630	20	1,5	16	45	30	20	16	22 x 1,5	12,5	10
EEP-1018	14	1,0	10	28	18	14	10	16 x 2,0	9	8
EEP-0815	12	1,0	8	25	15	12	8	14 x 2,0	16	6
EEP-0612	10	1,0	6	19,5	12	10	6	12 x 1,75	16	6

Inclus:
EEP: Corps d'embout cylindrique
EHM: Ecrou de blocage cylindrique
EDR: Bague d'étanchéité
GZ: Vis de réglage

EEP

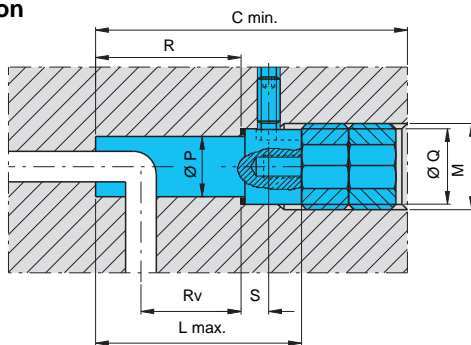
Embout coniques



REF.	d	D	L1	L	F	G	M	L2	SW
EEP 2001	6	9,0	6	15	6	6	M12 x 1,75	16	6
EEP 2002	9	13,5	8	20	10	9	M16 x 2	20	8
EEP 2003	12	16,0	10	22	14	12	M20 x 2,5	20	10

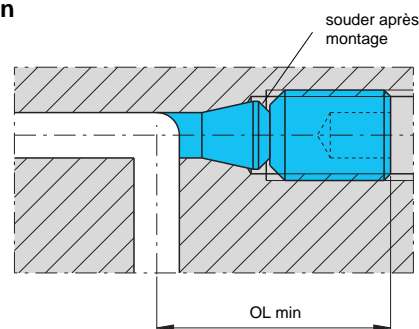
Inclus:
EEP: Corps d'embout conique
EHM: Ecrou de blocage conique

Installation



REF.	EEP-2440	EEP-1630	EEP-1018	EEP-0815	EEP-0612
Ø P (H7)	24	16	10	8	6
Ø Q (+0.2/-0.1)	30	20	14	12	10
R	38	28,5	17	14	11
S	12	10	6	6	6
C min.	L + 30	L + 25	L + 18	L + 16	L + 16
M	32 x 1,5	22 x 1,5	16 x 2,0	14 x 2,0	12 x 1,75
L max.	60	45	28	25	19,5
Rv min.	14	10	7	6	5

Installation



REF.	OL min.
EEP 2001	31
EEP 2002	40
EEP 2003	42

EHM - EDR - GZ

Pièces de rechange embouts cylindriques

① Ecrus de blocage - ② Bague d'étanchéité - ③ Vis de réglage

① REF.	M	L2	SW	② REF.	A	d1	C	③ REF.
EHM 3215	32 x 1,5	15	17	EDR 2420	30	24	2,0	GZ 6 x 16
EHM 2215	22 x 1,5	12,5	10	EDR 1615	20	16	1,5	
EHM 1620	16 x 2,0	9	8	EDR 1010	14	10	1,0	
EHM 1420	14 x 2,0	16	6	EDR 0810	12	8	1,0	
EHM 1217	12 x 1,75	16	6	EDR 0610	10	6	1,0	

EHM

Pièces de rechange Ecrus de blocage

REF.	Pour
EHM 1217	EEP 2001
EHM 1621	EEP 2002
EHM 2025	EEP 2003

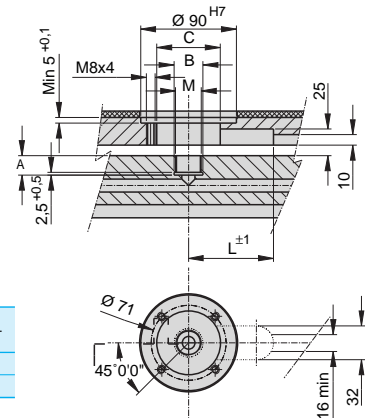
Systèmes de moulage - à bloc chaud 'Hot-One'

Accessoires bloc chaud 'Hot-One'

Adaptateurs chauffants



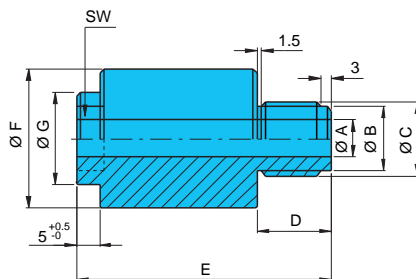
Installation



REF.	M	A ^{+0,02}	ØB ^{+0,2}	ØC ^{+0,2}	L ^{+1min.}
BHA M20	M20 x 1,5	14,8	24	Ø50	75
BHA M24	M24 x 1,5	18	27	Ø60	80

BHA

Corps d'adaptateur

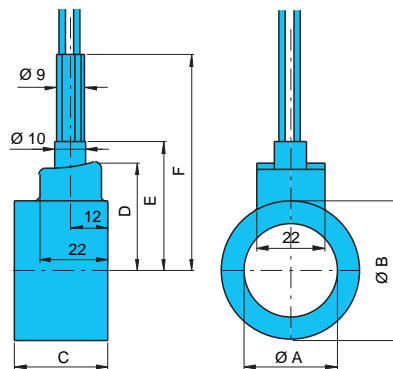
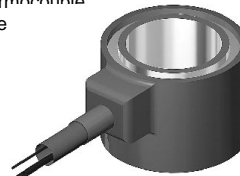


DI

Colliers chauffants à thermocouple type 'J'

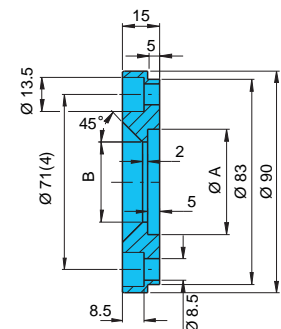
Câble noir: 230 V
Câble noir: 230 V
Câble blanc + } thermocouple
Câble rouge - } type

Note: chauffer avant d'assembler



HR

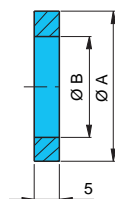
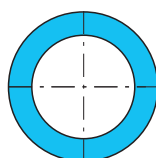
Anneaux de centrage



REF.	A	B	C	D	E	F	SW	G _{f17}	REF.	A	B	C	D	E	F	Watt 230 V	REF.	A	B
BHA M20	Ø 8	Ø18	M20x1,5	15,8	60	30 ^{+0,08} _{+0,12}	16	20	DI 30 x 30	30	45	30	35	50	70	330	HR 30	30	20
BHA M24	Ø12	Ø22	M24x1,5	19	68	40 ^{+0,08} _{+0,12}	24	30	DI 40 x 30	40	55	30	40	55	75	380	HR 40	40	30
									DI 40 x 40	40	55	40	40	55	75	490			

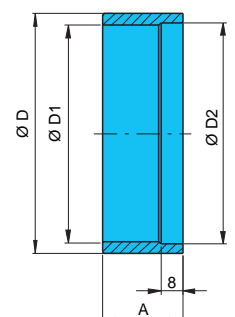
WTO

Bagues isolantes (supérieures)



DR

Entretoises



REF.	A	B	REF.	A	D	D1	D2
WTO 30	30	20	DR 40	30	90	81	83
WTO 40	40	30	DR 90	60	90	81	83

NOTES

A large grid of blue graph paper, consisting of 20 columns and 30 rows of small squares, intended for taking notes.

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Info: Diversité	8c- 2/8c- 3/8c- 4	SCH	8c-12
Info: Buses chauffantes et matière transformée	8c- 4	SCV-AR	8c-26
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BLT	8c-26	SSBT-séries E	8c- 8/8c- 9
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DEP	8c-18/8c-28	SSBU-Mini	8c- 5/8c- 6/8c- 7
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MDS	8c-18/8c-28		
MEK	8c-28		
MEO	8c-17		
MEP	8c-17		
MGS	8c-16/8c-17/8c-18/8c-19		
MHD	8c-18/8c-28		
MIS	8c-28		
MPP	8c-27/8c-28/8c-29		
NBH	8c-26		
SCB	8c-25/8c-26		

Info

Avantages de l'utilisation des buses chauffantes:

L'injection directe permet une injection sans marques sur la pièce moulée et élimine l'opération de coupe des carottes.

La qualité des pièces est améliorée grâce au trajet d'injection plus court.

Les traces d'injection réduites donnent un meilleur aspect aux pièces moulées.

Une gamme complète de buses de différents types pour l'injection des pièces, quelle que soient leur masse.

Un large choix de configurations du seuil permettant de s'adapter aux exigences des matières moulées.

Les buses sont équipées d'éléments chauffants hélicoïdaux à section carrée de conception avancée ou d'éléments hélicoïdaux surmoulés dans un alliage de haute conductibilité, ce qui garantit un profil de température idéal et une longue durée de vie.

Info

Diversité:

Pour toute application, toute matière, toute masse de pièce il y a toujours une buse chauffante D-M-E appropriée.

SSBU

Straight Shots



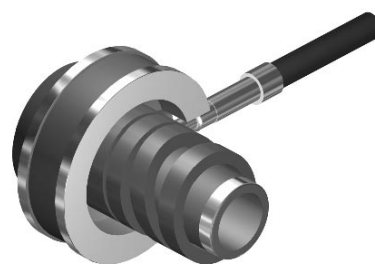
Les buses Straight Shot ont un canal d'écoulement direct, libre de tout étranglement. Fournies en acier trempé, résistantes à l'abrasion, elles conviennent pour l'injection des matériaux courants.

Les types Pico et Pico-long possèdent un élément chauffant hélicoïdal surmoulé dans un alliage de haute performance thermique. Elles ont été testées avec succès pour une large gamme de matériaux techniques exigeant un profil de la température rigoureux, comme les PC, POM, PA, PETP etc..

Le diamètre du seuil peut être ajusté facilement par une opération de rectification frontale. (8c-5/8c-9)

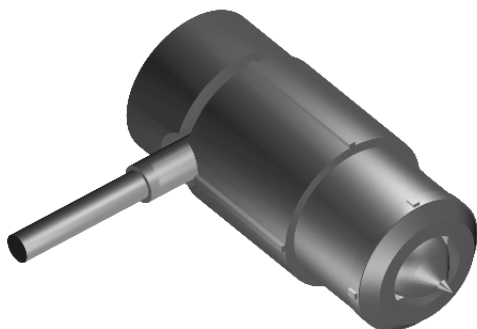
GM (GMC - GMD - GME - GMF)

Gate Mates



La famille étendue des buses Gate Mate possède un canal d'écoulement construit dans un matériau caractérisé par sa haute conductibilité thermique. Ceci autorise des masses injectées importantes. Grâce au nez d'injection type pointe, les traces sont limitées. D-M-E offre pour ce produit une gamme variée de diamètres de canaux d'écoulement et de nombreuses configurations du nez d'injection.

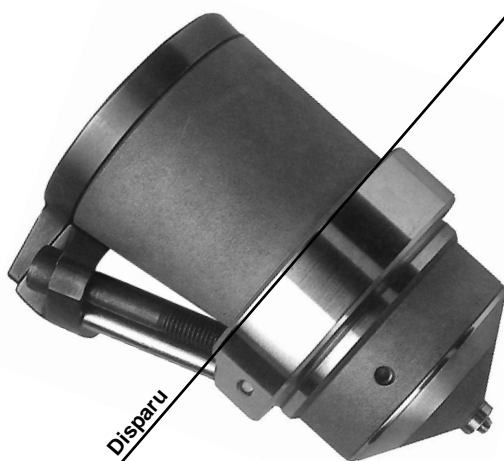
D'autres configurations sont disponibles, comme le nez à passage direct, pour éliminer les lignes de flux éventuelles. Les nez d'injection sont construits en alliage cuivre-béryllium nickelé ou dans un matériau insensible à l'abrasion. Il combine une dureté extrême avec une haute conductibilité thermique. (8c-10/8c-13)

Info**HD-GV - HD-OV****Thermag**

La buse Thermag de construction acier a été conçue principalement pour l'injection directe des matières usuelles dans des moules mono-empainte. La pointe aigüe et trempée garantit un point d'injection très net. Elle ne laisse qu'un picot d'injection minimal sur la pièce moulée (d'une hauteur égale au tiers du diamètre du seuil). La buse Thermag est d'une construction très compacte, le diamètre extérieur est de 35 mm (collier chauffant exclu). La buse Thermag convient particulièrement pour l'injection des matières courantes chargées ou non. L'option chambre fermée est recommandée lorsqu'une trace circulaire sur la pièce produite est acceptée. La chambre ouverte élimine la trace circulaire et convient pour des pièces exigeant une qualité d'aspect parfaite. Cette buse permet en outre l'injection sur les flancs, protubérances et les surfaces courbes. (8c-14/8c-15)

MGS**Buses multi-pointes**

La buse multi-pointes MGS convient pour l'injection multiple de grandes pièces dans les moules mono-empainte ou pour l'injection de petites pièces dans les moules multi-empaintes. Ce bloc chaud cylindrique indépendant permet l'injection directe en divers point (jusqu'à 6) situés sur un cercle de petit diamètre. Deux géométries de seuil sont possibles: buse injection type pointe et buse à passage direct. Une version résistante à l'abrasion est disponible pour la buse injection type pointe. Chaque seuil est alimenté par une buse chaude Micro Hot-One dotée de propriétés thermiques exceptionnelles. Les blocs supports sont en Titane pour obtenir une meilleure isolation. (8c-16/8c-19)

STV**Buses à obturateur escamotable**

Cette buse brevetée mondialement est dotée d'un canal d'écoulement complètement ouvert et libre durant la phase d'injection. L'aiguille de l'obturateur positionnée en biais par rapport au canal matière est entièrement reculée afin de laisser passer la matière librement. Les grandes sections d'écoulement limitent le cisaillement. Cette conception révolutionnaire permet l'injection directe pleine face avec des matériaux comme le PC, le PMMA et le SAN. Elle donne une qualité d'injection inégalée. Cette buse de conception très compacte et robuste est construite en acier fortement allié au chrome et en aluminium. L'obturateur est actionné pneumatiquement. (8c-20/8c-21)

AMN**Autonozzles**

Pour l'injection directe de pièces grandes et/ou profondes. Toute longueur disponible entre 200 mm et 800 mm. Deux géométries de seuil disponibles: nez injection type pointe et à nez à passage direct. Convient pour toute résine non-chargée. Capacité d'injection jusqu'à 10.000 cm³/sec selon matière, géométrie de la pièce et conditions d'injection. (8c-22/8c-24)

Info

SCF - SCB

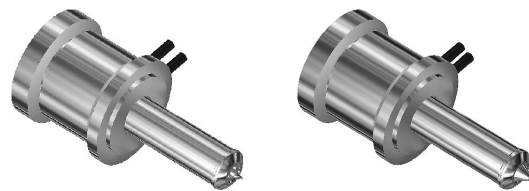
Buse à obturateur mono-empreinte Osco®



Les buses à obturateur, mono-empreinte Osco®, avec ou sans pré-chambre, sont conçues pour une flexibilité d'application accrue, combinée à de meilleurs résultats dans l'injection des matières plastiques. Le cylindre hydraulique monté à l'extérieur du moule en fait le système le plus facile à installer, et garantit fonctionnement sans faille. Le réglage de l'obturateur se fait donc de l'extérieur du moule, dont l'usinage et l'assemblage sont grandement simplifiés. Un joint presse-étoupe élimine les fuites par l'obturateur, dont le guidage original évite l'usure du seuil. Le rapport de transmission 1:1 entre cylindre et obturateur garantit une plus longue durée de vie et un fonctionnement plus sûr. (8c-25/8c-26)

MPP - MDO

Buse mono-empreinte D-M-E Micro



La buse mono-empreinte D-M-E Micro offre une excellente solution pour l'injection directe lorsque l'espace est limité. Côté seuil d'injection, l'encombrement n'est que de 17 mm sur l'alésage. Le contrôle de la température est excellent, avec 2 zones indépendantes possibles. La conception de l'élément chauffant côté seuil est unique, réduisant considérablement les pertes thermiques et assurant une température uniforme. Deux types de seuils d'injection sont possibles: pointe et passage direct. Le type 'pointe' est livré en versions standard et anti-usure. La plupart des polymères techniques ont été injectés avec succès par la buse mono-empreinte D-M-E Micro. (8c-27/8c-29)

Info

Buses chauffantes et matière transformée

— Disparu

Matière transformée	Buses chauffantes										Disparu			
	SSBU Standard	Straight Shot SSBU Mini	Straight Shot SSBU Pico	Straight Shot SSBU-Pico long	Type S	Gate Mate Type H	Gate Mate Type O	Thermag HD	Buse à obturateur escamotable STV	AMN	Autonozzle	Buse mono-empreinte Micro MPP-MDO	OSCO Buse à obturateur mono-empreinte SCF-SCB	MGS Buse multi-points
Point d'injection											Nez type pointe	Nez à passage direct	Nez type pointe	Nez à passage direct
PE	2	3	3	3	3	3	3	3	2	3	3	3	3	3
PP	2	3	3	3	3	3	3	3	2	3	3	3	3	3
PS	2	3	3	3	3	3	3	3	2	3	3	3	3	3
SB	2	3	3	3	3	3	3	3	1	3	3	3	3	3
PA	1	1	3	3	3	3	3	3	0	3	3	3	3	3
PMMA	1	2	3	3	3	3	3	3	1	3	3	3	3	3
ABS	1	2	3	3	2	2	3	0	3	3	3	3	3	3
POM	0	1	3	3	3	3	3	0	3	3	3	3	3	3
PETP	0	1	2	2	2	2	2	0	3	3	3	3	3	3
PPS	0	1	2	2	3	3	3	0	3	2	3	3	3	3
SAN	1	1	2	2	3	3	3	0	3	2	3	3	3	3
PPO	0	1	2	2	3	2	3	0	3	2	3	3	3	3
PC	0	0	2	2	2	2	3	0	3	2	3	3	3	3
PBT	0	1	2	2	3	2	3	0	3	2	3	3	3	3
PSU	0	0	2	1	1	1	1	0	3	2	3	3	3	3
PEEK	0	0	1	1	1	1	1	0	3	2	3	3	3	3
PEI	0	0	2	1	1	1	1	0	3	2	3	3	3	3

3 = Excellent

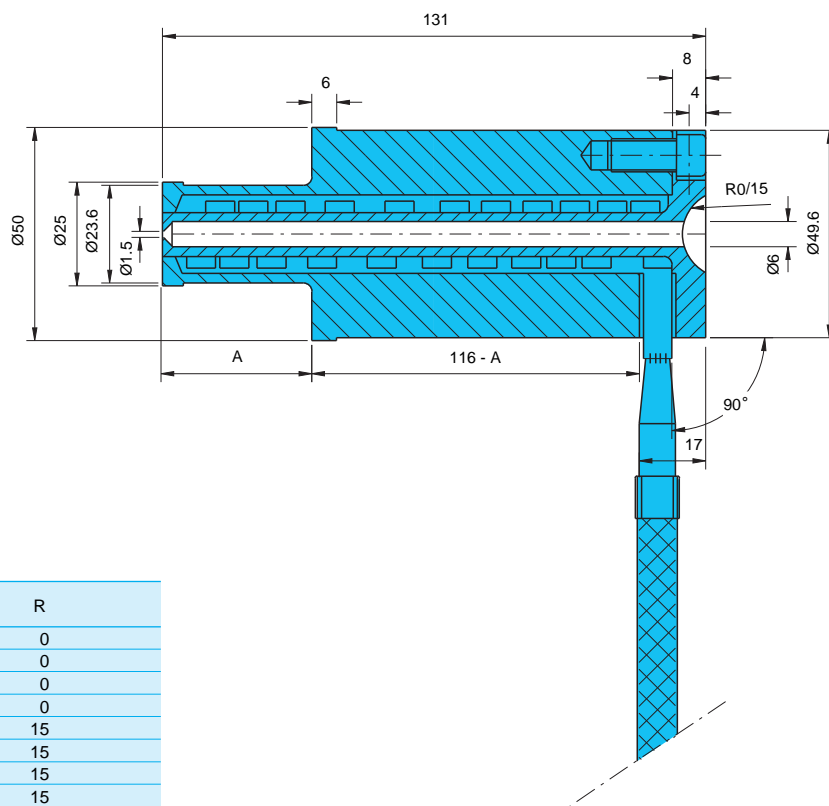
2 = Bon

1 = Convient sous réserves

0 = A éviter

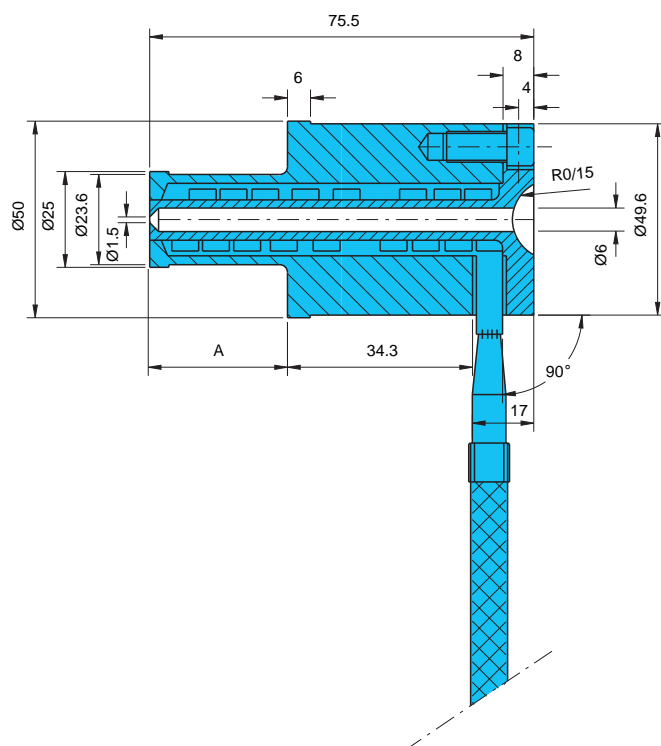
Straight Shots

Straight Shots - Standard



REF.	A	R
SSBU 7536-N	36	0
SSBU 7556-N	56	0
SSBU 7576-N	76	0
SSBU 7596-N	96	0
SSBU 8536-N	36	15
SSBU 8556-N	56	15
SSBU 8576-N	76	15
SSBU 8596-N	96	15

Straight Shots - Mini



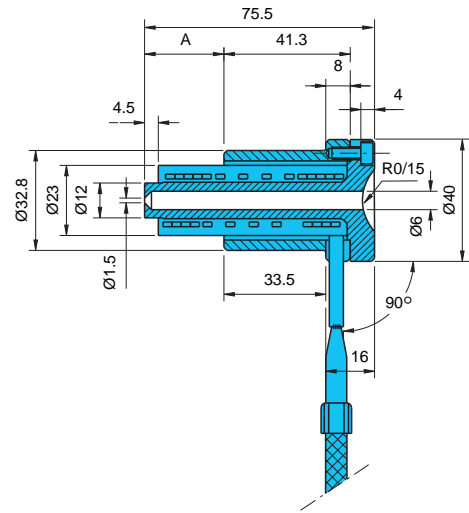
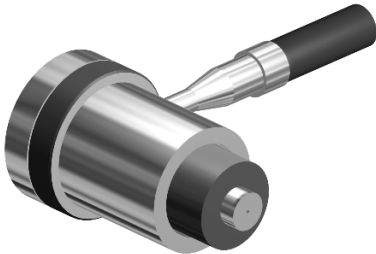
REF.	A	R
SSBU 8026-2-N	26	0
SSBU 8026-R-2-N	26	15

SSBU

Straight Shots

SSBU-Pico

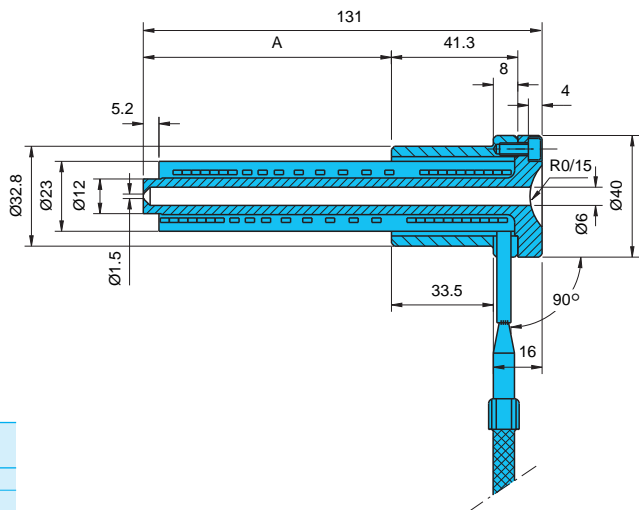
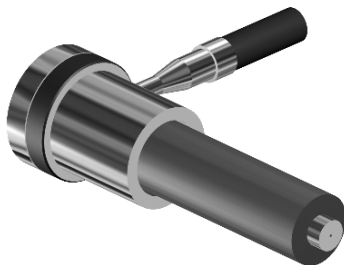
Straight Shots - Pico



REF.	A	R
SSBU 7640-2-N	26	0
SSBU 7640-R-2-N	26	15

SSBU-Pico long

Straight Shots - Pico long

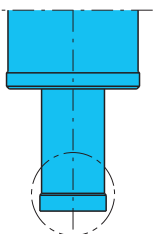


REF.	A	R
SSBU 1340-2-N	81.5	0
SSBU 1340-R-2-N	81.5	15

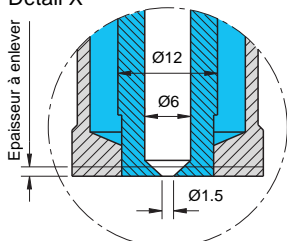
Seuil

Modification du diamètre du seuil.

fig. 1



Détail X

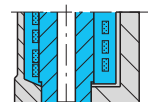


Les buses à passage direct Straight Shots de type SSBU ont été conçues pour l'injection directe sur une pièce ou pour l'injection sur un canal d'alimentation. Elles sont fournies en standard avec un seuil de 1,5 mm de diamètre. Ce diamètre peut être augmenté en fonction de la matière moulée et du débit de celle-ci par une simple opération de rectification frontale voir fig. 1, détail X. Il faut réduire de la même valeur la cote d'appui de la buse ou augmenter la profondeur du lamage d'appui de celle-ci. Le coût par point d'injection avec ce type de buse est un des plus bas si un picot minime est toléré sur la pièce et une trace circulaire résultant de l'ajustage de la buse dans l'empreinte. Les buses Straight Shots sont interchangeables avec toutes les buses conventionnelles et peuvent donc être facilement intégrées dans les moules existants.

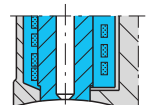
Les changements de couleurs s'effectuent instantanément.

Diamètre du seuil	Epaisseur à enlever	Diamètre du seuil	Epaisseur à enlever
Ø2	0.25 mm	Ø4	1.25 mm
Ø2.5	0.50 mm	Ø4.5	1.50 mm
Ø3	0.75 mm	Ø5	1.75 mm max.
Ø3.5	1 mm		

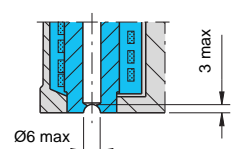
Injection convexe



Injection concave



Injection sur canal d'alimentation

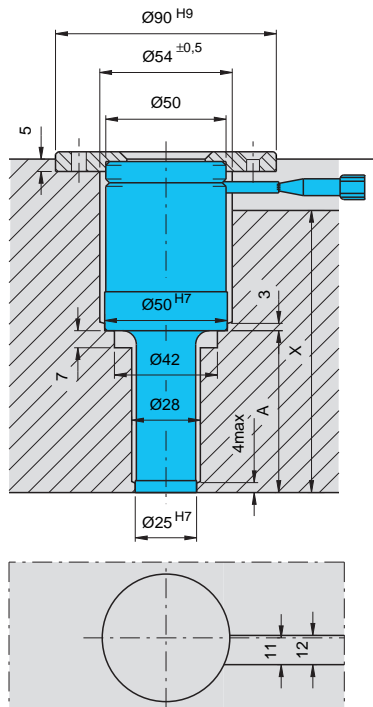


SSBU

Straight Shots

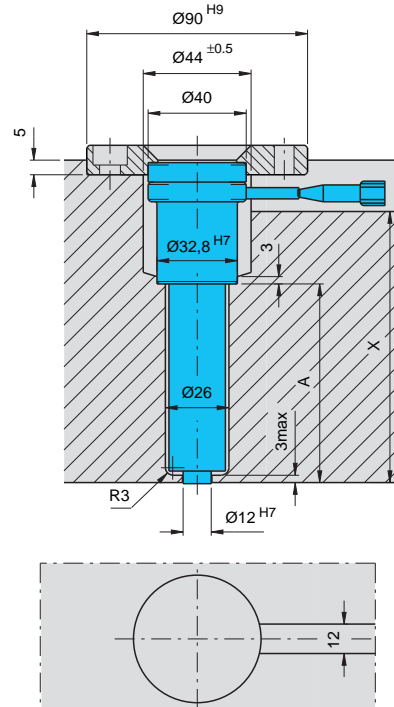
Installation

Standard & Mini



Installation

Pico & Pico long



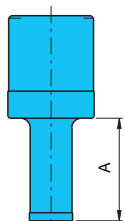
Standard		Mini		Pico		Pico long	
A	X	A	X	A	X	A	X
36	113	26	57,5	26	57.5	81.5	113
56	113						
76	113						
96	113						

SSB - WRPS - WRPK - SSS - M

Pièces de rechange Straight Shots

SSB

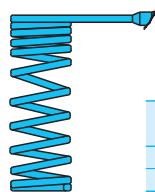
Corps Standard & Mini



REF.	A	REF.
Standard		Mini
SSB 36-N	36	SSB 8026-N
SSB 56-N	56	
SSB 76-N	76	
SSB 96-N	96	

WRPS

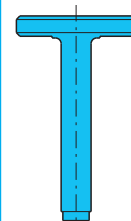
Éléments chauffants hélicoïdaux à section carrée, thermocouple type 'J'



REF.	REF.
Standard	Mini
WRPS 32/90	WRPS 42/90
230 V/400 W	230 V/300 W

SSS

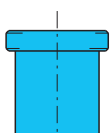
Buses d'injection 50-52 HRC



REF.	R	Pour
SSS 75-N	0	Standard
85-N	15	
SSS 8026-N	0	Mini
8026-R-N	15	
SSS 7640-N	0	Pico
7640-R-N	15	
SSS 1340-N	0	Pico long
1340-R-N	15	

SSB

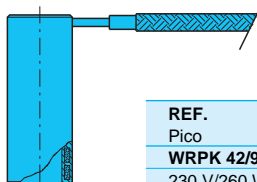
Corps Pico & Pico long



REF.
Pico & Pico long
SSB 7640-N

WRPK

Éléments chauffants surmoulés thermocouple type 'J'



REF.	REF.
Pico	Pico long
WRPK 42/90	WRPK 32/90
230 V/260 W	230 V/260 W

M

Vis 6-pans têtes cylindriques



REF.	Pour
M 6 x 10	Standard & Mini
M 4 x 8	Pico & Pico long

SSBT

Straight Shots

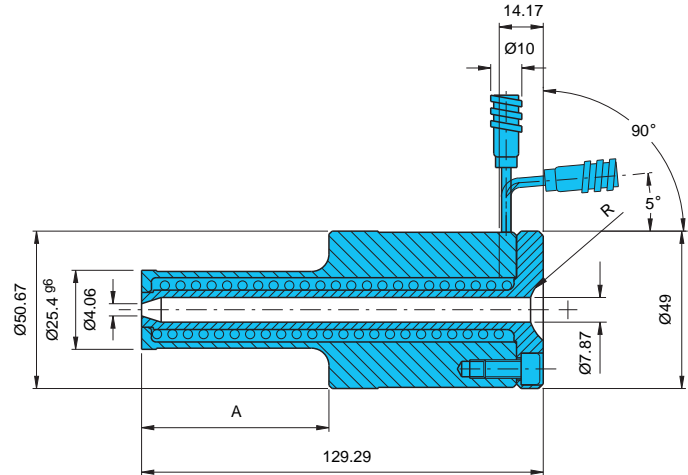
Seulement disponible en G.B.

SSBT-séries S

Straight Shots



REF.	R	A	REF.	R	A
SSBT 4507-2	12,7	22,2	SSBT 6507-2	19,05	22,2
SSBT 4513-2		34,9	SSBT 6513-2		34,9
SSBT 4517-2		47,6	SSBT 6517-2		47,6
SSBT 4523-2		60,3	SSBT 6523-2		60,3
SSBT 4527-2		73,0	SSBT 6527-2		73,0
SSBT 4533-2	98,4	85,7	SSBT 6533-2	98,4	85,7
SSBT 4537-2		98,4	SSBT 6537-2		98,4

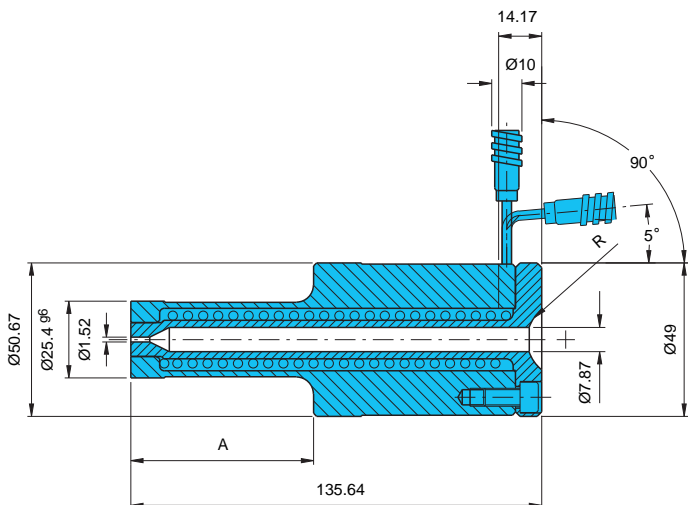


SSBT-séries E

Straight Shots



REF.	R	A	REF.	R	A
SSBT 4507E-2	12,7	22,2	SSBT 6507E-2	19,05	22,2
SSBT 4513E-2		34,9	SSBT 6513E-2		34,9
SSBT 4517E-2		47,6	SSBT 6517E-2		47,6
SSBT 4523E-2		60,3	SSBT 6523E-2		60,3
SSBT 4527E-2		73,0	SSBT 6527E-2		73,0
SSBT 4533E-2	98,4	85,7	SSBT 6533E-2	98,4	85,7
SSBT 4537E-2		98,4	SSBT 6537E-2		98,4

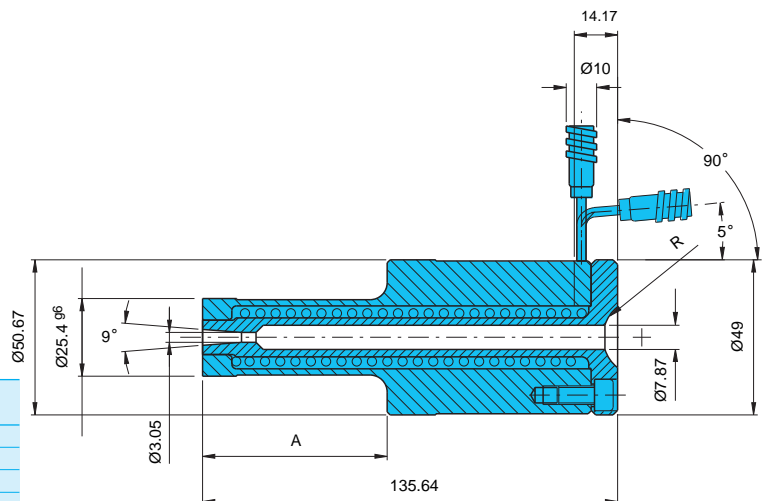


SSBT-séries ER

Straight Shots



REF.	R	A	REF.	R	A
SSBT 4507ER-2	12,7	22,2	SSBT 6507ER-2	19,05	22,2
SSBT 4513ER-2		34,9	SSBT 6513ER-2		34,9
SSBT 4517ER-2		47,6	SSBT 6517ER-2		47,6
SSBT 4523ER-2		60,3	SSBT 6523ER-2		60,3
SSBT 4527ER-2		73,0	SSBT 6527ER-2		73,0
SSBT 4533ER-2	98,4	85,7	SSBT 6533ER-2	98,4	85,7
SSBT 4537ER-2		98,4	SSBT 6537ER-2		98,4

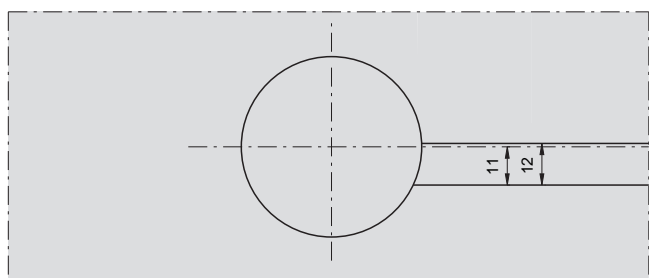
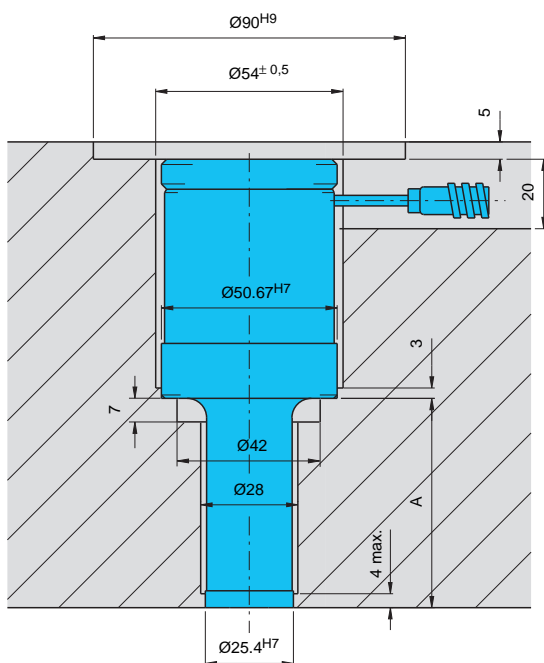


SSBT

Straight Shots

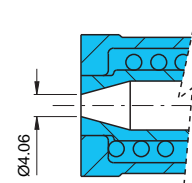
Seulement disponibles en G.B.

Installation

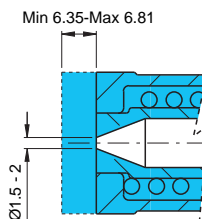


Seuil

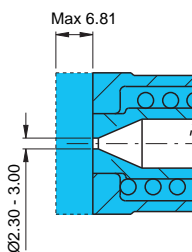
séries S



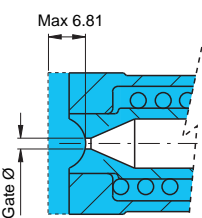
séries E



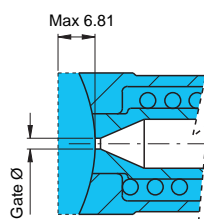
séries E



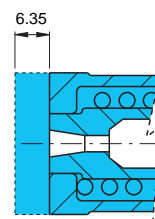
séries E



séries E

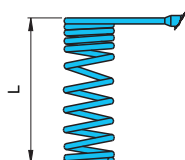


séries ER

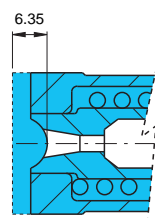


SSTC

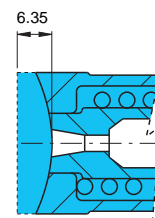
Pièces de rechanges Straight Shots SSBT
Éléments chauffants hélicoïdaux



séries ER



séries ER



REF.	Volt	Watt	L	Sortie à
SSTC-32	230	290	117,5	5°
SSTC-32-90				90°

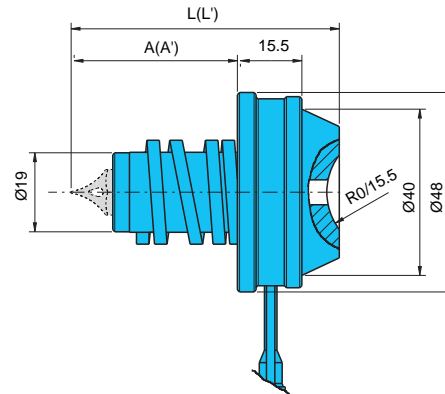
Les séries E et ER doivent toujours être adaptées; les configurer selon les indications des dessins ci-dessus

GM

Gate Mates

GMC - GMD

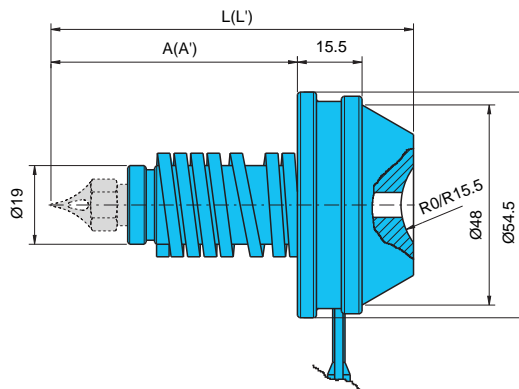
Gate-Mates - Compact
avec élément chauffant hélicoïdal à section carrée et
thermocouple type 'J'



REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R	REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R
GMC 1940	19	40	40	39,8	64,5	64,3	0	GMD 1940	19	40	40	39,8	64,5	64,3	15,5

GMC - GMD

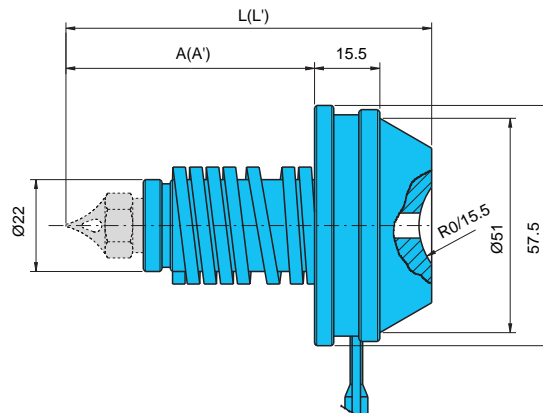
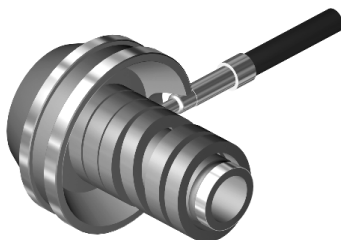
Gate-mates - Standard
avec élément chauffant hélicoïdal à section carrée et
thermocouple type 'J'



REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R	REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R
GMC 1960	19	60	59,5	59,3	87,5	87,3	0	GMD 1960	19	60	59,5	59,3	87,5	87,3	15,5
GMC 1985	19	85	84,5	84,3	112,5	112,3	0	GMD 1985	19	85	84,5	84,3	112,5	112,3	15,5

GMC - GMD

Gate-mates - Jumbo
avec élément chauffant hélicoïdal à section carrée et
thermocouple type 'J'



REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R	REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R
GMC 2260	22	60	59,5	59,3	87,5	87,3	0	GMD 2260	22	60	59,5	59,3	87,5	87,3	15,5
GMC 2285	22	85	84,5	84,3	112,5	112,3	0	GMD 2285	22	85	84,5	84,3	112,5	112,3	15,5

Note:

Dim a* = valeur nominale de A ou A'
Dim A' & L': pour le nez à passage
direct type O

Commander une buse Gate-mate !

Pour commander une buse Gate-mate complète:

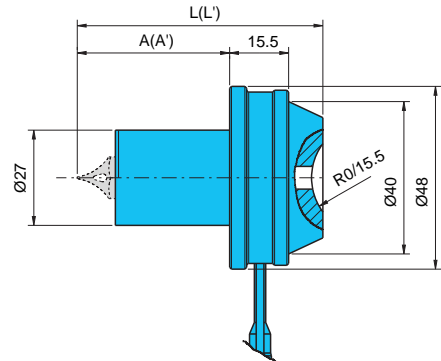
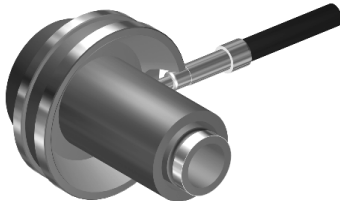
1. Sélectionner le type de corps: Compact, Standard ou Jumbo avec ou sans rayon de buse et le type d'élément chauffant voulu; ce qui donne le numéro de référence correct du sous-ensemble.
2. Sélectionner un des quatre types de nez disponibles et noter la référence. (8c-12)
3. Pour passer une commande correcte ces deux informations sont nécessaires et suffisantes.

GM

Gate Mates

GME - GMF

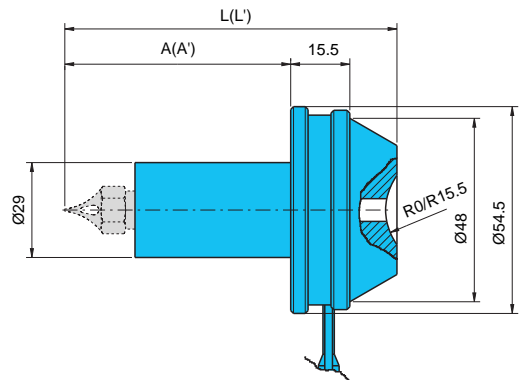
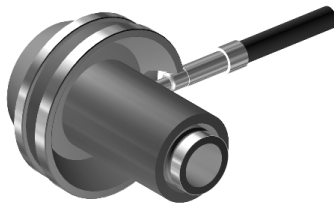
Gate Mates - Compact
avec élément chauffant surmoulé et thermocouple type 'J'



REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R	REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R
GME 1940	19	40	40	39,8	64,5	64,3	0	GMF 1940	19	40	40	39,8	64,5	64,3	15,5

GME - GMF

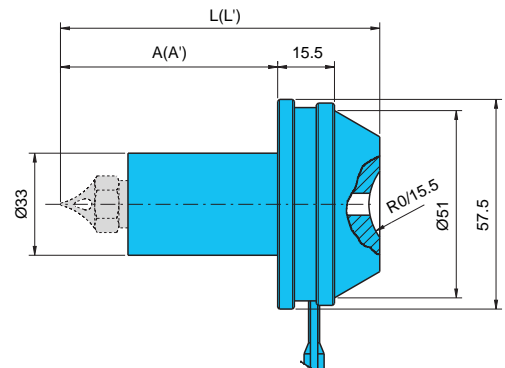
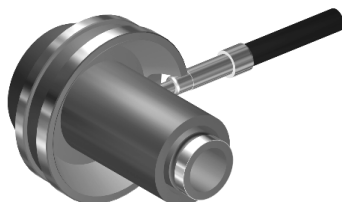
Gate-mates - Standard
avec élément chauffant surmoulé et thermocouple type 'J'



REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R	REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R
GME 1960	19	60	59,5	59,3	87,5	87,3	0	GMF 1960	19	60	59,5	59,3	87,5	87,3	15,5
GME 1985	19	85	84,5	84,3	112,5	112,3	0	GMF 1985	19	85	84,5	84,3	112,5	112,3	15,5

GME - GMF

Gate-mates - Jumbo
avec élément chauffant surmoulé et thermocouple type 'J'



REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R	REF. Sous-ensemble	Ø	a*	A	A'	L	L'	R
GME 2260	22	60	59,5	59,3	87,5	87,3	0	GMF 2260	22	60	59,5	59,3	87,5	87,3	15,5
GME 2285	22	85	84,5	84,3	112,5	112,3	0	GMF 2285	22	85	84,5	84,3	112,5	112,3	15,5

Note:

Dim a* = valeur nominale de A ou A'
Dim A' & L': pour le nez à passage direct type O

Commander une buse Gate-mate !

Pour commander une buse Gate-mate complète:

1. Sélectionner le type de corps: Compact, Standard ou Jumbo avec ou sans rayon de buse et le type d'élément chauffant voulu; ce qui donne le numéro de référence correct du sous-ensemble.
2. Sélectionner un des quatre types de nez disponibles et noter la référence. (8c-12)
3. Pour passer une commande correcte ces deux informations sont nécessaires et suffisantes.

GM

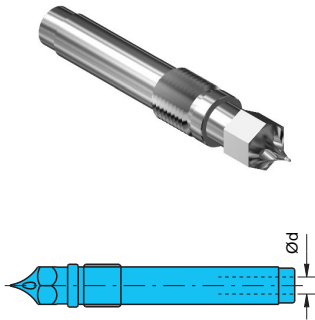
Gate Mates

JTS - JTO - JTH - JTB

Nez d'injection pour Gate Mates-Compact, Standard, Jumbo

JTS

Nez standards - type S

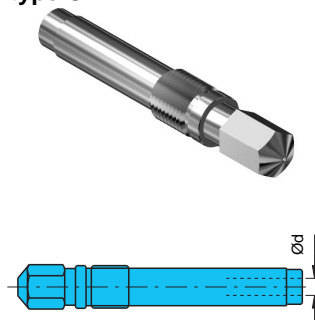


REF.	d	Mat
JTS 1940	6	Alliage de cuivre-nickelé
JTS 1960	6	
JTS 1985	6	
JTS 2260	8	
JTS 2285	8	

Idéal pour l'injection des matières conventionnelles.

JTO

Nez à passage direct - type O

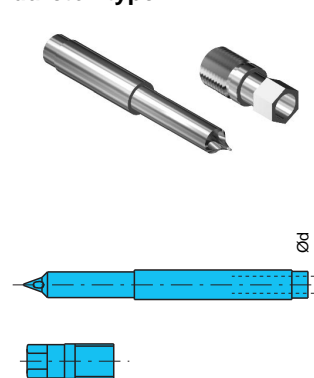


REF.	d	Mat
JTO 1940	6	Alliage de cuivre-nickelé
JTO 1960	6	
JTO 1985	6	
JTO 2260	8	
JTO 2285	8	

Le nez à passage direct garantit des pièces d'une parfaite qualité d'aspect avec des résines particulièrement sensibles au phénomène de recollement de flux.

JTH

Nez à pointe de haute dureté - type H

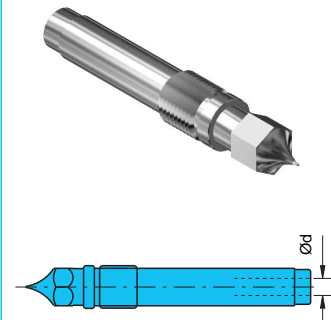


REF.	d	Mat
JTH 1940	6	Technologie des poudres
JTH 1960	6	
JTH 1985	6	
JTH 2260	8	
JTH 2285	8	

Les matières renforcées de fibres de verre et les autres charges abrasives peuvent être injectées avec ce nez. Une combinaison exceptionnelle de dureté et de haute conductibilité thermique.

JTB

Nez à forer - type B



REF.	d	Mat
JTB 1940	6	Alliage de cuivre-nickelé
JTB 1960	6	
JTB 1985	6	
JTB 2260	8	
JTB 2285	8	

Pour résoudre tous les problèmes de positionnement des lignes d'écoulement.

Les nez d'injection doivent toujours être commandés séparément.

SCH - CIH - TC

Pièces de rechange Gate-Mates

SCH

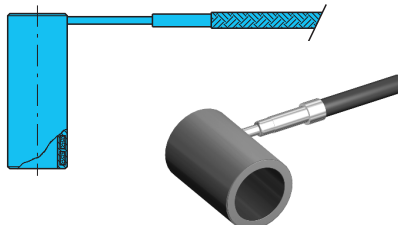
Éléments chauffants hélicoïdaux à section carrée



REF.	Watt 230V	Sous-ensemble
SCH 1940	370	GMC 1940 GMD 1940
SCH 1960	415	GMC 1960 GMD 1960
SCH 1985	500	GMC 1985 GMD 1985
SCH 2260	500	GMC 2260 GMD 2260
SCH 2285	600	GMC 2285 GMD 2285

CIH

Éléments chauffants sourmoulés à thermocouple type 'J'



REF.	Watt 230V	Sous-ensemble
CIH 1940	370	GME 1940 GMF 1940
CIH 1960	415	GME 1960 GMF 1960
CIH 1985	500	GME 1985 GMF 1985
CIH 2260	500	GME 2260 GMF 2260
CIH 2285	600	GME 2285 GMF 2285

TC

Thermocouple type 'J'



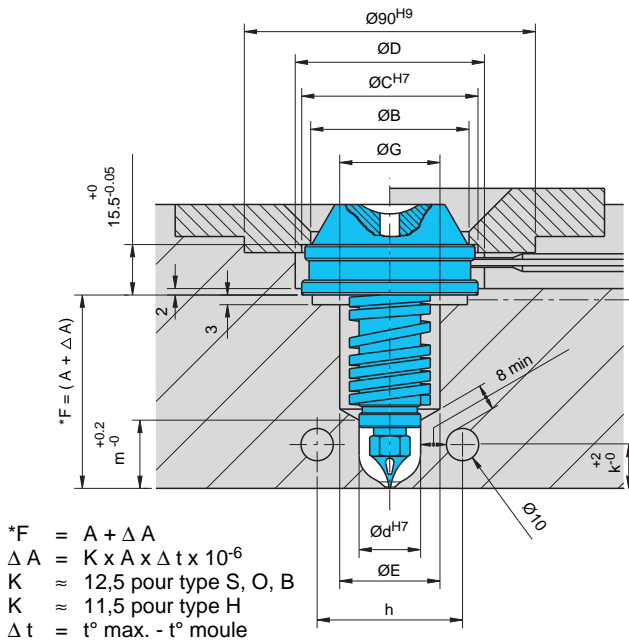
REF.	Sous-ensemble
TC 19	GMC 1940
	GMD 1940
	GMC 1960
	GMD 1960
	GMC 1985
	GMD 1985
	GMC 2260
	GMD 2260
	GMC 2285
	GMD 2285

GM

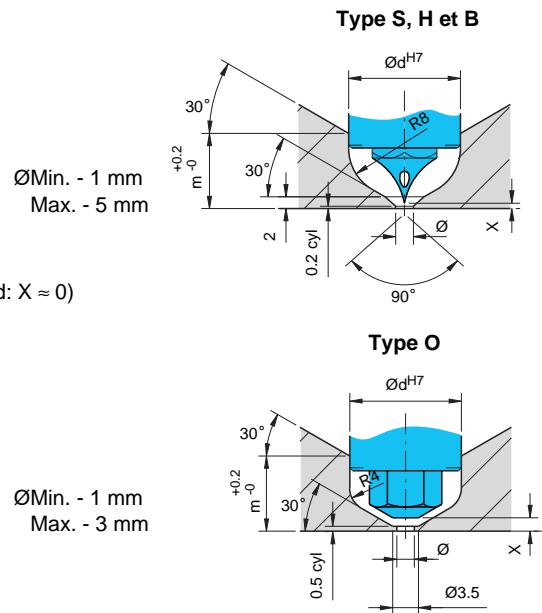
Gate Mates

GMC - GMD - GME - GMF

Installation



Seuil



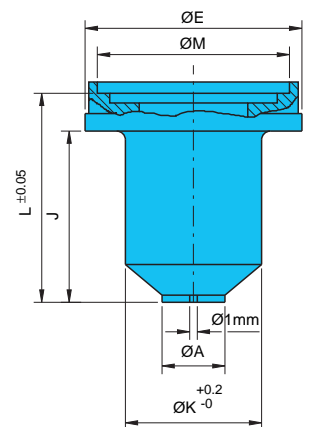
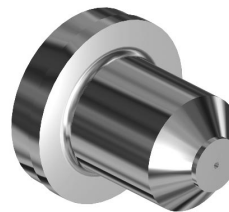
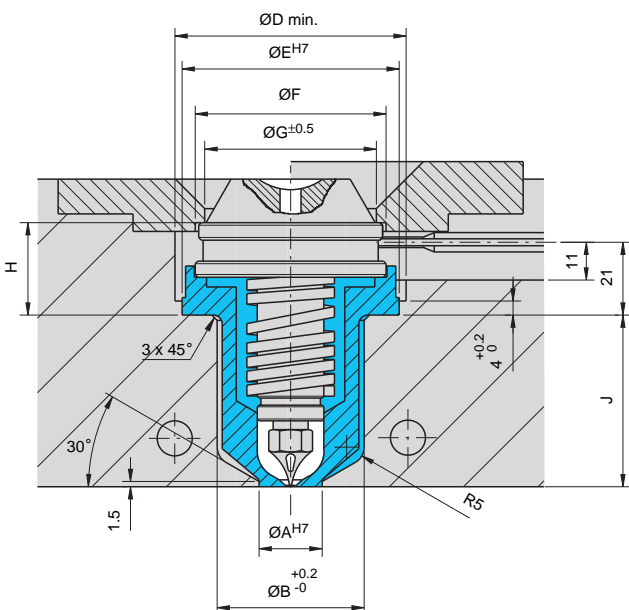
REF.	F	ØB	ØC	ØD	ØE	Ød	ØG	h	k	m	Type	REF.	Type S, H et B X	Type O X	Type
GM 1940	40,3	42,5	48	51,5	36	19	36	46	12	12,8	Compact	GM 1940	0,3	0,8	Compact
GM 1960	59,8	49	54,5	58	36	19	36	46	14	21,3	Standard	GM 1960	0,3	0,8	Standard
GM 1985	85	49	54,5	58	36	19	36	46	14	21,5	Jumbo	GM 1985	0,5	0,8	Jumbo
GM 2260	59,8	52	57,5	61	39	22	39	49	14	21,3		GM 2260	0,3	0,8	
GM 2285	85	52	57,5	61	39	22	39	49	14	21,5		GM 2285	0,5	0,8	

BGM

Buses inserts pour Gate Mate

Installation

Toutes les buses sont livrées avec un diamètre de seuil de 1 mm qui peut être adapté facilement par le mouliste.

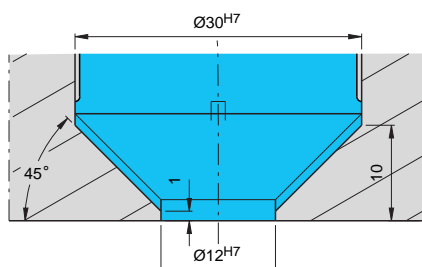


REF.	ØA	ØK	ØB	J	L	ØE	ØM	ØD	ØF	ØG	H
BGM 1940	18	39	42	29,5	40,3	55	48	59	48	42,5	26,3
BGM 1960	18	39	42	49	59,8	62	54,5	66	54,5	49	26,3
BGM 1985	18	39	42	74	85	62	54,5	66	54,5	49	26,3
BGM 2260	18	41	44	49	59,8	62	57,5	66	58,5	52	26,3
BGM 2285	18	41	44	74	85	62	57,5	66	58,5	52	26,3

HD-GV

Thermags - chambre fermée

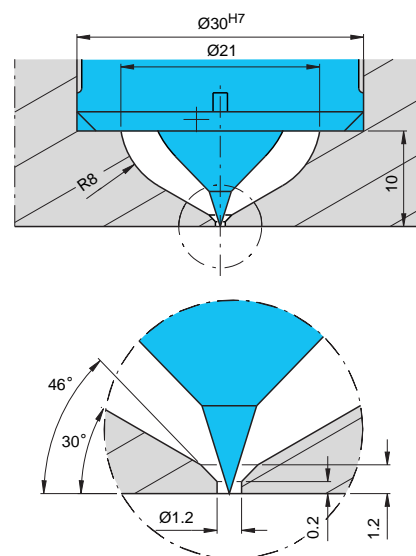
Seuil



HD-OV

Thermags - chambre ouverte

Seuil

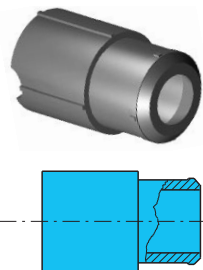


VK-O - VK-G - TP - HD - VD - HB

Pièces de rechange Thermag

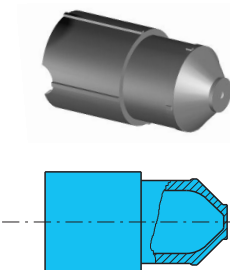
VK-O

Chambres ouvertes



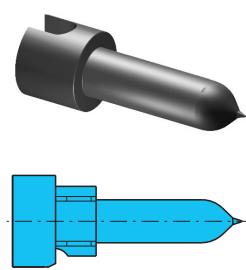
VK-G

Chambres fermées



TP

Torpilles



REF.

VK-O

REF.

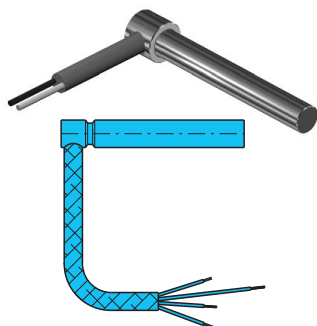
VK-G

REF.

TP-80

HD

Cartouches chauffantes avec TC



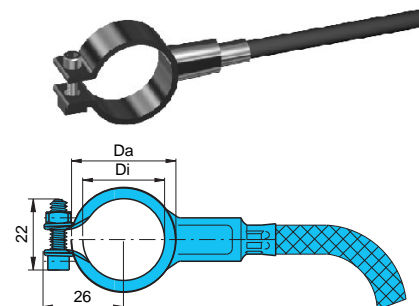
VD

Têtes de distribution



HB

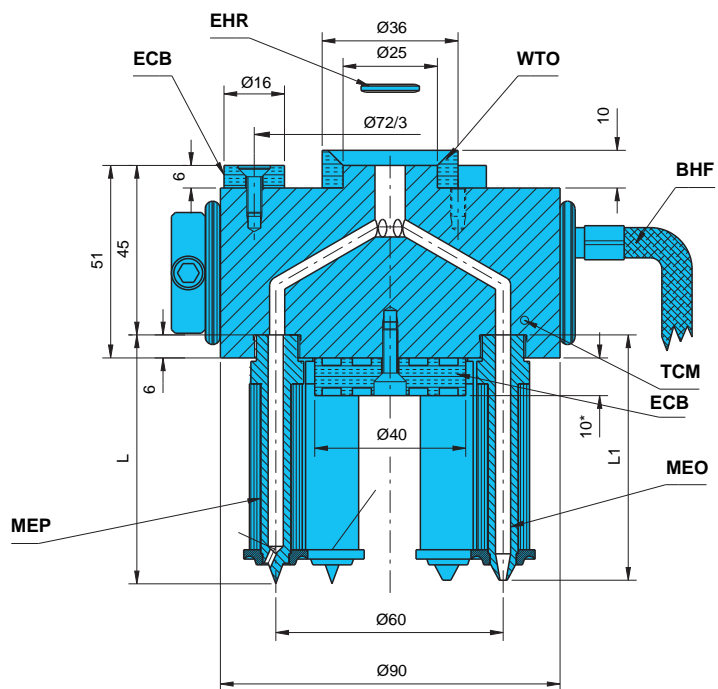
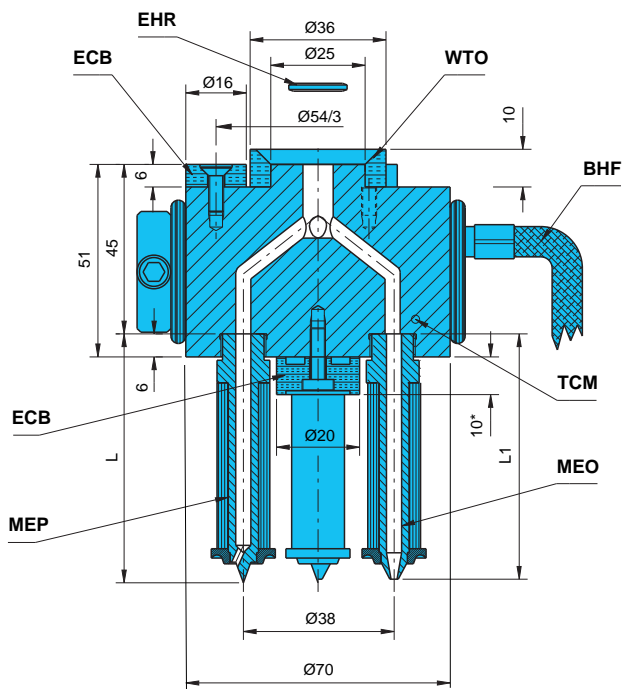
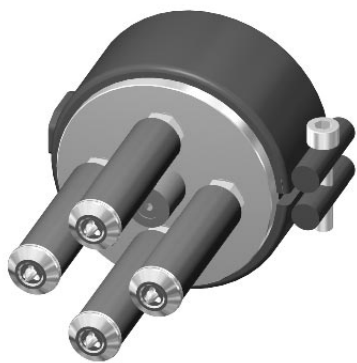
Colliers chauffants sans thermocouple



REF.	Volt	Watt	REF.	R	REF.	Di	Da	Volt	Watt
HD-250-TC	230	275	VD- 0	0	HB-15	32	34	230	110
			VD-15	15					
			VD-40	40					

MGS

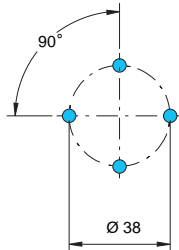
Buses multi-pointes



L	L1
66	65
76	75
86	85

REF. Sous-ensemble	Nr. de buses
MGS 3802	2
MGS 3804	4

Seuil



Inclus:

MGS: Buse multi-pointes
BHF: Collier chauffant
WTO: Bague isolante
ECB: Rondelles entretoises
TCM: Thermocouple type 'J'
EHR: Bague d'étanchéité

A commander séparément:

MEP: Buse à visser - type
 pointe (8b-14)
MEO: Buse à visser - à passage
 direct (8b-14)

Comment passer une commande:

Pour commander une buse multi-pointes complète:

1. Sélectionner la référence d'un des quatre sous-ensembles disponibles.
2. Sélectionner l'une des buses disponibles (8b-14).

Il faut ajouter 1. et 2. lors de la commande.

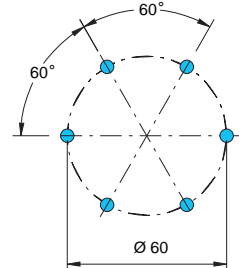
Remarque: Utiliser la rondelle entretoise WTO 3000 pour une application mono-emprente. Rayon à faire par l'outilier. Pour application sous un bloc chaud, utiliser la bague d'étanchéité.

Pour des informations plus détaillées (installation, buses, pièces de rechanges etc.) voir section 8c-16/8c-19

L	L1
66	65
76	75
86	85

REF. Sous-ensemble	Nr. de buses
MGS 6003	3
MGS 6006	6

Seuil



Inclus:

MGS: Buse multi-pointes
BHF: Collier chauffant
WTO: Bague isolante
ECB: Rondelles entretoises
TCM: Thermocouple type 'J'
EHR: Bague d'étanchéité

A commander séparément:

MEP: Buse à visser - type
 pointe (8b-14)
MEO: Buse à visser - à passage
 direct (8b-14)

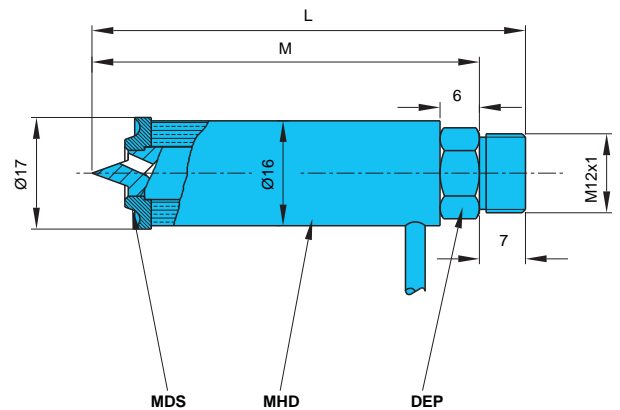
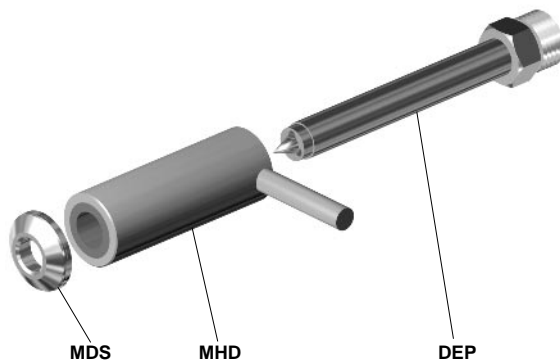
* à température ambiante

MGS

Buses multi-pointes

MEP

Buses à visser, type pointe



REF. Assemblage	L ^{+0,02}	M	Watt 230V	Mat.
MEP 0060	66	59	175	standard
MEP 0070	76	69	190	standard
MEP 0080	86	79	200	standard
MEP 1060	66	59	175	alliage dur
MEP 1070	76	69	190	alliage dur
MEP 1080	86	79	200	alliage dur

Inclus:

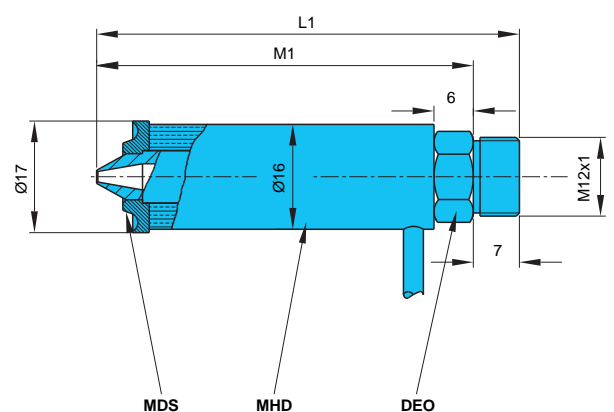
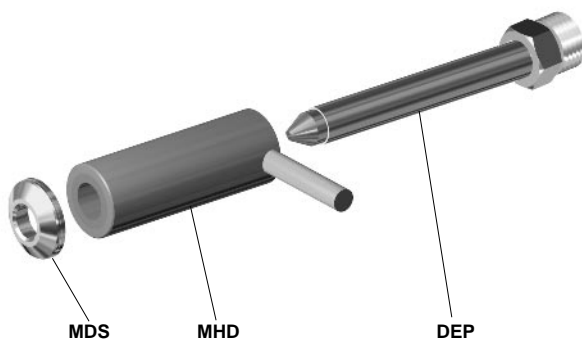
MDS: Rondelle de centrage

MHD: Élément chauffant surmoulé avec thermocouple type 'J'

DEP: Corps de buse à visser, type pointe

MEO

Buses à visser à passage direct



REF. Assemblage	L1 ^{+0,02}	M1	Watt 230V	Mat.
MEO 0060	65	58	175	standard
MEO 0070	75	68	190	standard
MEO 0080	85	78	200	standard

Inclus:

MDS: Rondelle de centrage

MHD: Élément chauffant surmoulé avec thermocouple type 'J'

DEO: Corps de buse à visser à passage direct

MGS

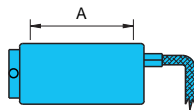
Buses multi-pointes

BHF - WTO - ECB - MDS - MHD - TCM - DEP - DEO

Pièces de rechange pour Buse multi-pointes

BHF

Colliers chauffants à thermocouple type 'J'



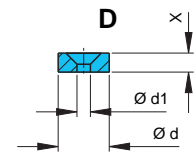
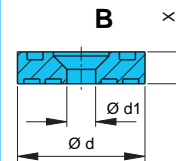
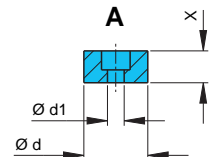
WTO

Bagues isolantes



ECB

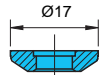
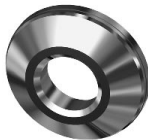
Rondelles entretoises



REF.	ØA	Watt 230V	REF.	REF.	REF.	X	d	d1		Mat.
BHF 3870	70	780	WTO 3000	ECB 0500	6	16	4,2	D		Titane
BHF 3890	90	1100		ECB 0501	10	20	5,2	A		
				ECB 0502	10	40	8,2	B		

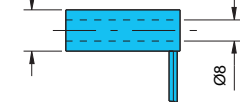
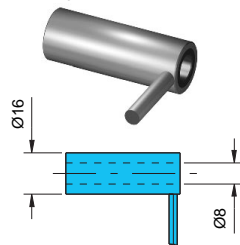
MDS

Rondelles de centrage



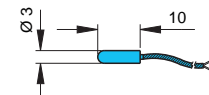
MHD

Eléments chauffants surmoulés avec thermocouple type 'J'

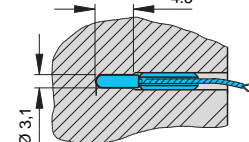


TCM

Thermocouple cylindrique



Installation



REF.	Pour	REF.	Watts 230V	Pour MEP	Pour MEP - MEO	REF.
MDS 0001	MEP - MEO	MHD 0044	175	1060	0060	TCM 0003
		MHD 0054	190	1070	0070	
		MHD 0064	200	1080	0080	

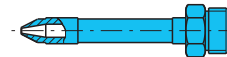
DEP

Corps de buse à visser, type pointe



DEO

Corps de buse à visser à passage direct

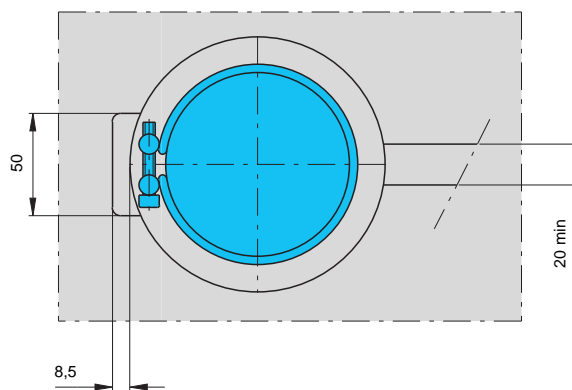
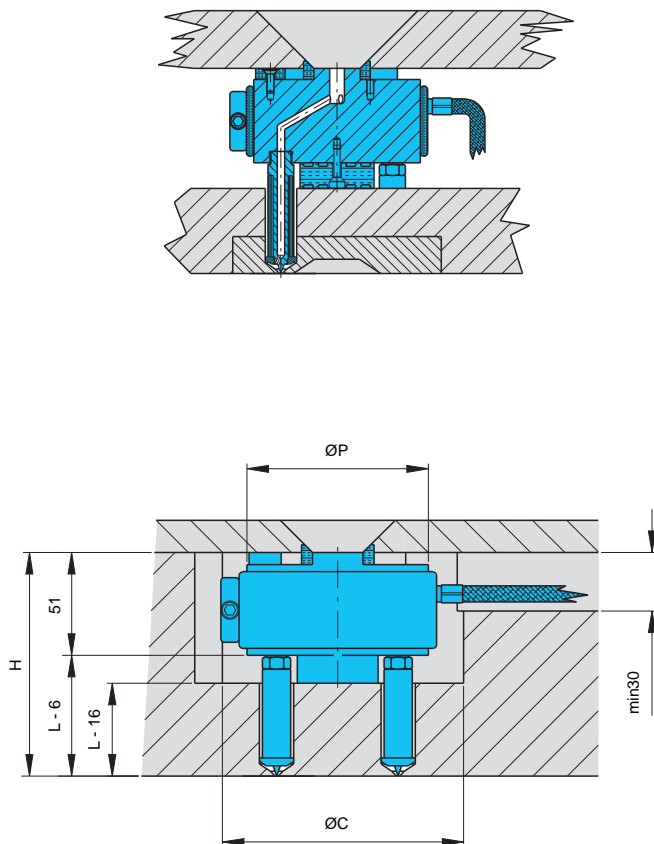


REF.	Pour	Mat.	REF.	Pour	Mat.
DEP 0060	MEP 0060	standard	DEO 0060	MEO 0060	standard
DEP 0070	MEP 0070	standard	DEO 0070	MEO 0070	standard
DEP 0080	MEP 0080	standard	DEO 0080	MEO 0080	standard
DEP 1060	MEP 1060	alliage dur			
DEP 1070	MEP 1070	alliage dur			
DEP 1080	MEP 1080	alliage dur			

MGS

Buses multi-pointes

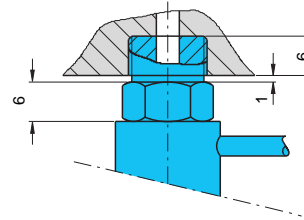
Installation



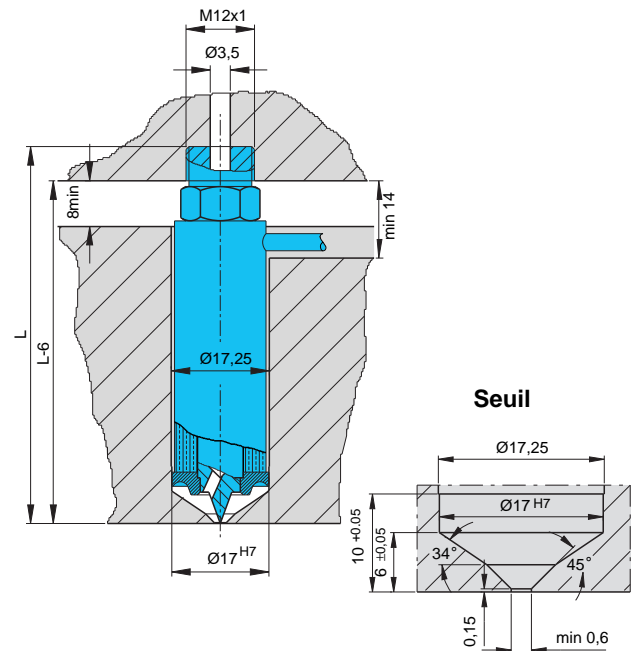
P	C	H
70	105	L + 45
90	125	

Buses à visser

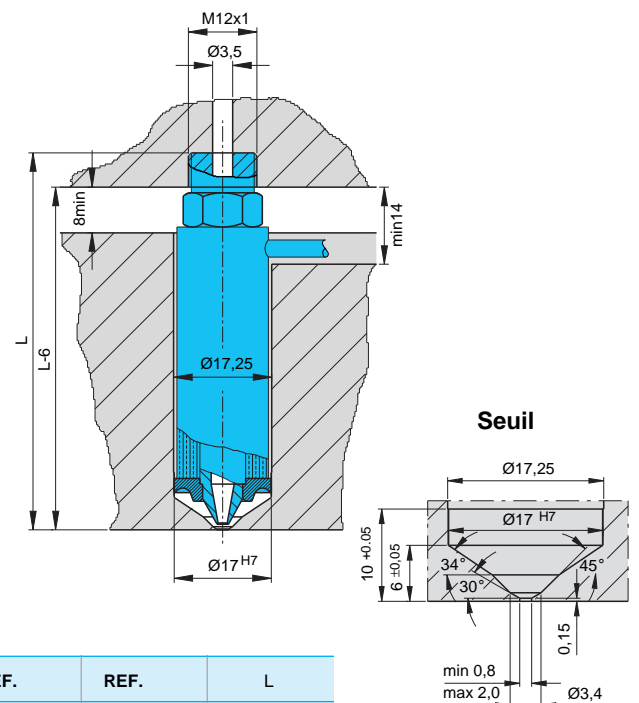
Installation



Buse à visser, type pointe - MEP



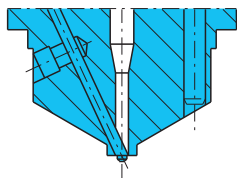
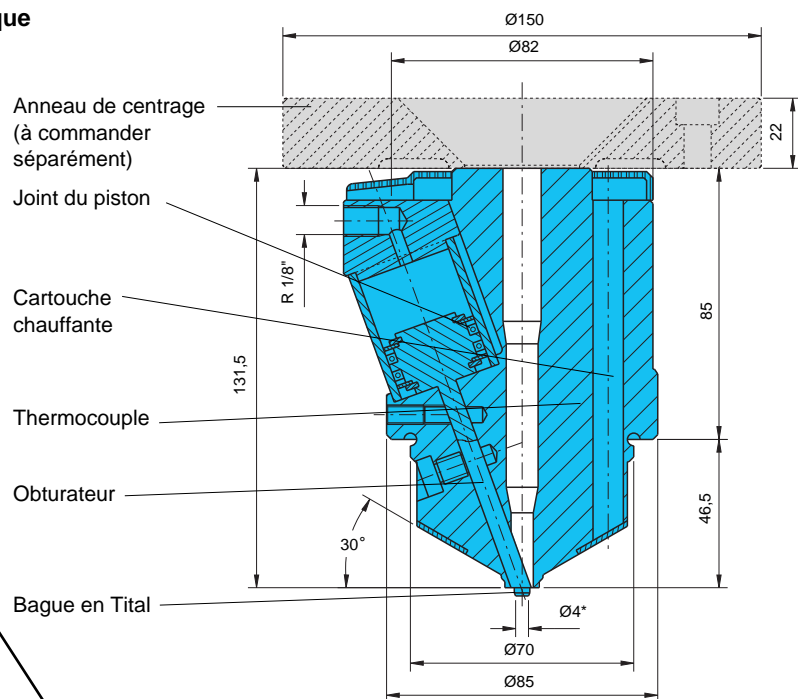
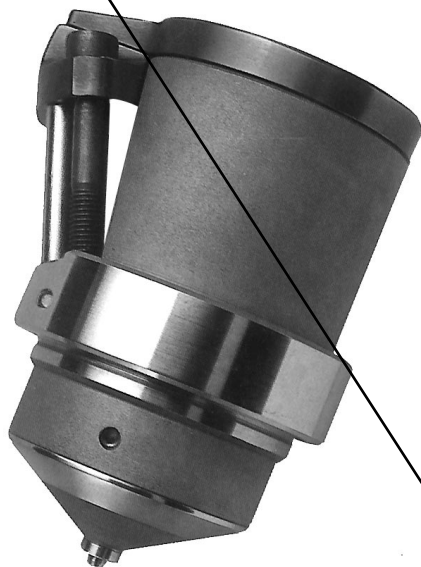
Buse à visser à passage direct - MEO



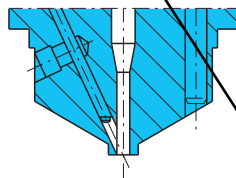
REF.	REF.	L
MEP 0060	MEO 0060	66
MEP 0070	MEO 0070	76
MEP 0080	MEO 0080	86

STV

Buses à obturateur escamotable, pneumatique



Seuil fermé



Seuil ouvert

* Livré avec un diamètre de seuil de 4 mm. Le diamètre du seuil peut être adapté si nécessaire. Un diamètre jusqu'à 4,5 mm peut être obtenu par un obturateur de rechange réf. STV-0031

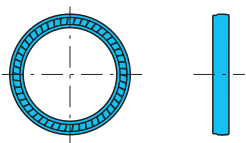
REF.

STV 2234

STV

Pièces de rechange buses à obturateur escamotable

Joints du piston



REF.

STV 0016

Cartouches chauffantes



REF.

STV 0017

Watt
230V
600

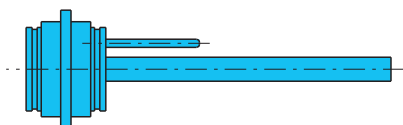
Thermocouples



REF.

STV 0018

Obturbateurs



REF.

STV 0031

Anneaux de centrage
à commander séparément



REF.

STV 0019

Bagues en Tital



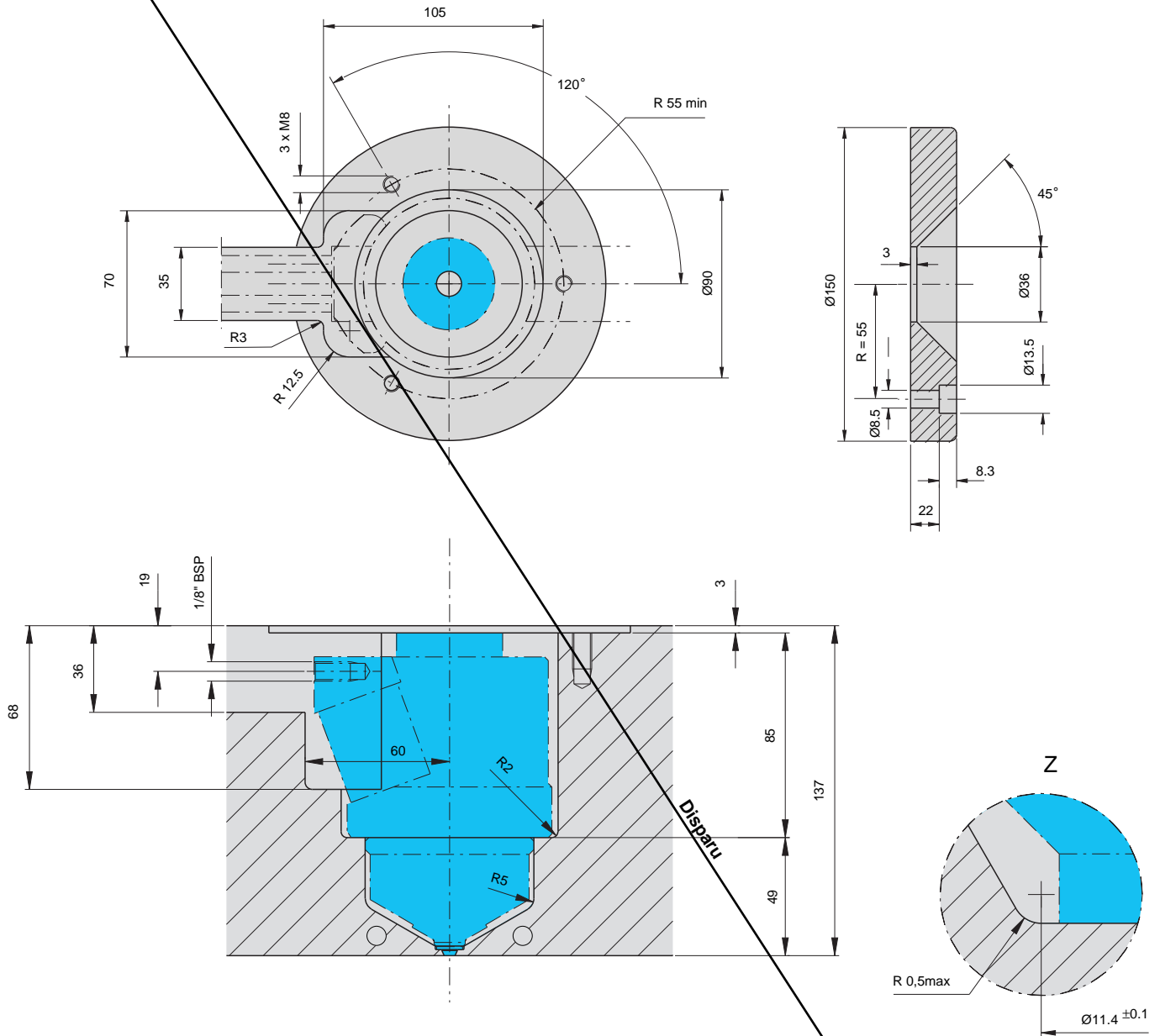
REF.

STV 0033

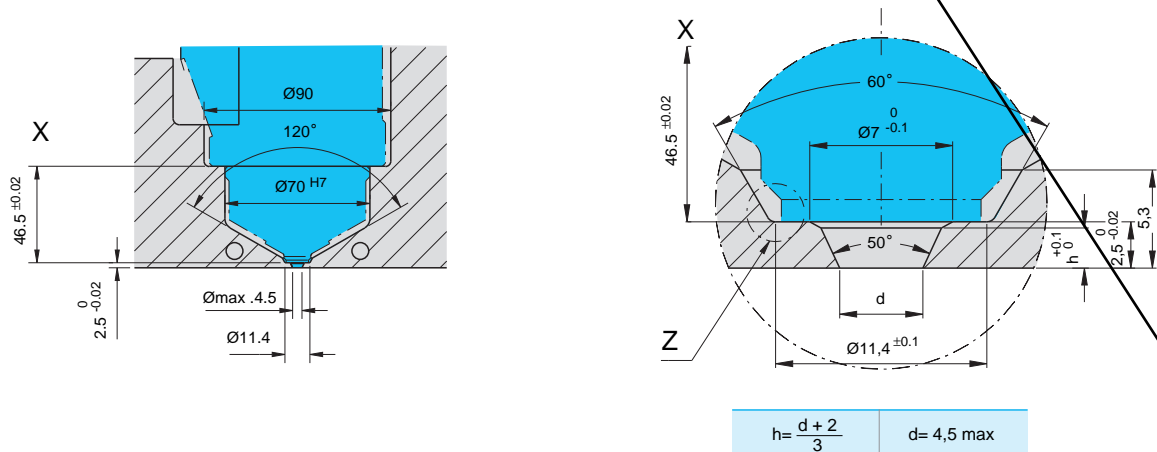
STV

Buses à obturateur escamotable, pneumatique

Installation



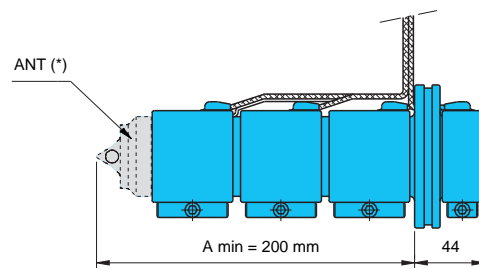
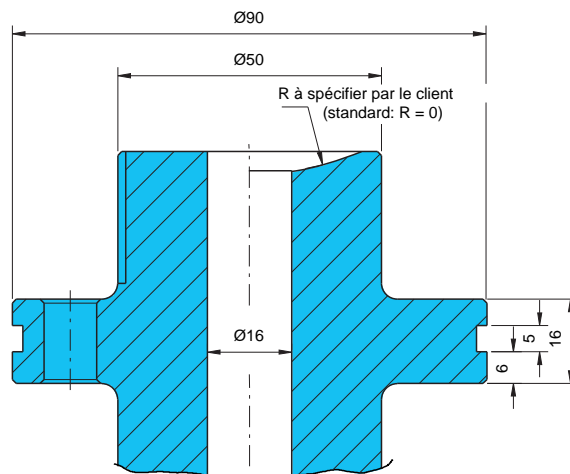
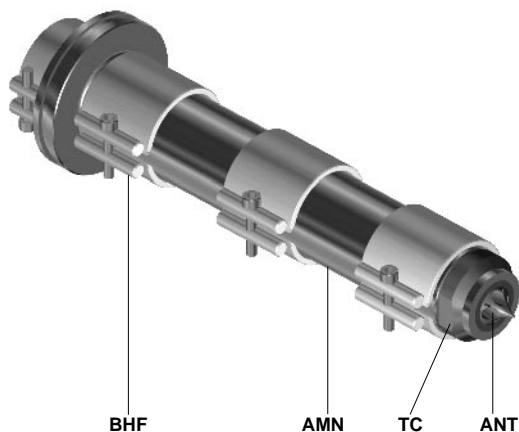
Seuil



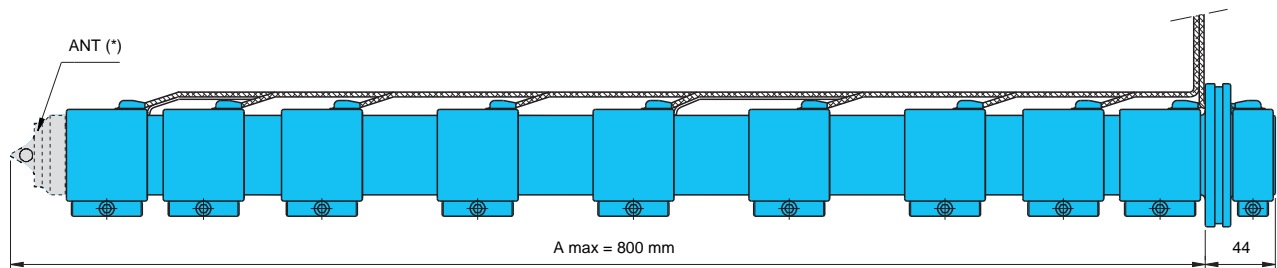
$$h = \frac{d + 2}{3} \quad d = 4,5 \text{ max}$$

AMN

Autonozzles



(*) Nez - à commander séparément



REF. Sous-ensemble	A	
AMN 0250	de 200 à 250 mm	
AMN 0300	de 250 à 300 mm	
AMN 0350	de 300 à 350 mm	
AMN 0400	de 350 à 400 mm	
AMN 0450	de 400 à 450 mm	
AMN 0500	de 450 à 500 mm	
AMN 0550	de 500 à 550 mm	
AMN 0600	de 550 à 600 mm	
AMN 0650	de 600 à 650 mm	
AMN 0700	de 650 à 700 mm	
AMN 0750	de 700 à 750 mm	
AMN 0800	de 750 à 800 mm	

Inclus:

AMN: corps Autonozzle

BHF: colliers chauffants

TC: thermocouples

ANT: nez - à commander séparément

Comment passer une commande!

Pour commander un Autonozzle complet:

- Sélectionner la référence de l'Autonozzle en relation avec la longueur 'A' et donner la longueur 'A' à froid.
- Sélectionner la référence d'un des deux types de nez disponibles.
- Indiquer le type de matière plastique utilisé. Les deux numéros de référence indiqués sous les points 1. et 2. et l'information sur la matière plastique sont nécessaires pour passer une commande correcte.

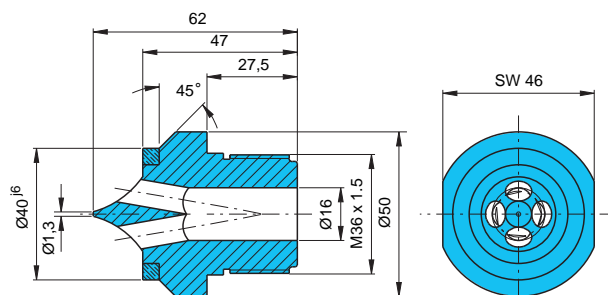
Exemple: A = 438 mm
Nez à passage direct
Mat. Polypropylène, non-chargé, M.F.I. 25
Commander: AMN-0450/438
AMN-0002
Remarque: PP non-chargé, M.F.I. 25

AMN

Autonozzles

ANT

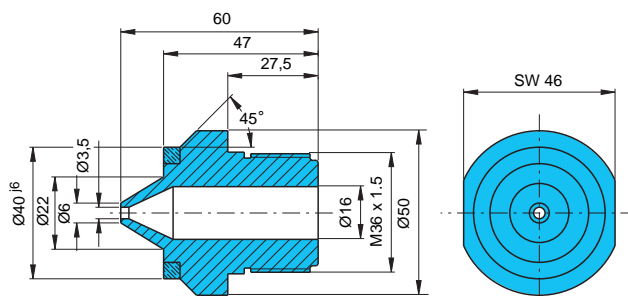
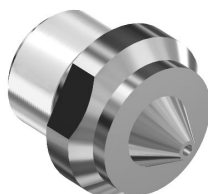
Nez injection type pointe



REF.	Remarque
ANT 0001	pour un picot minime

ANT

Nez à passage direct



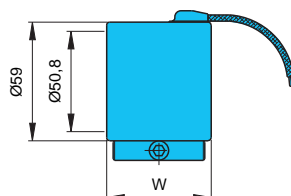
REF.	Remarque
ANT 0002	pour une injection directe sans tache

BHF - TC - GSI

Pièces de rechange Autonozzle

BHF

Colliers chauffants



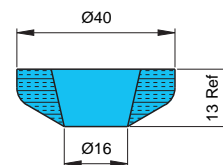
TC

Thermocouples type 'J'

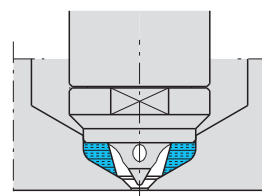


GSI

Isolants pour préchambre



Installation



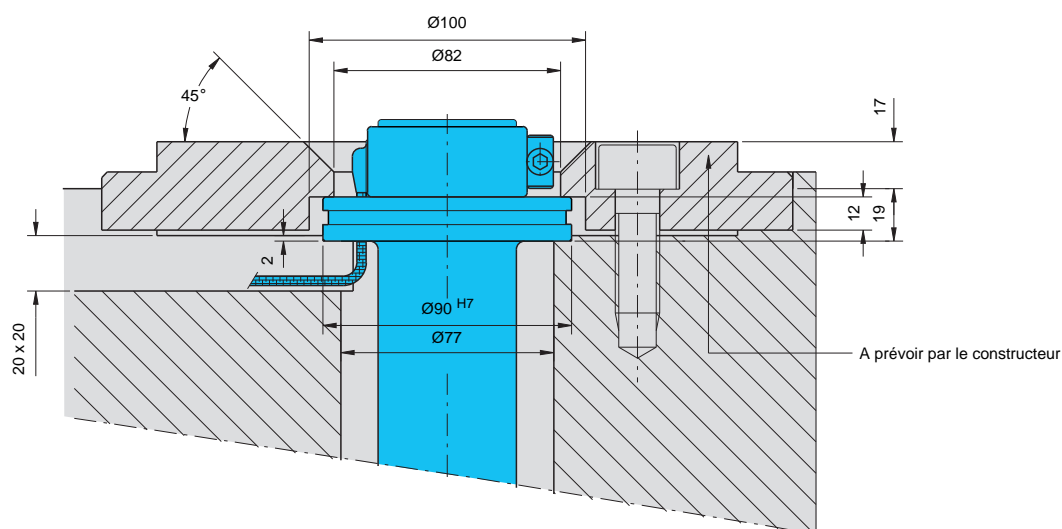
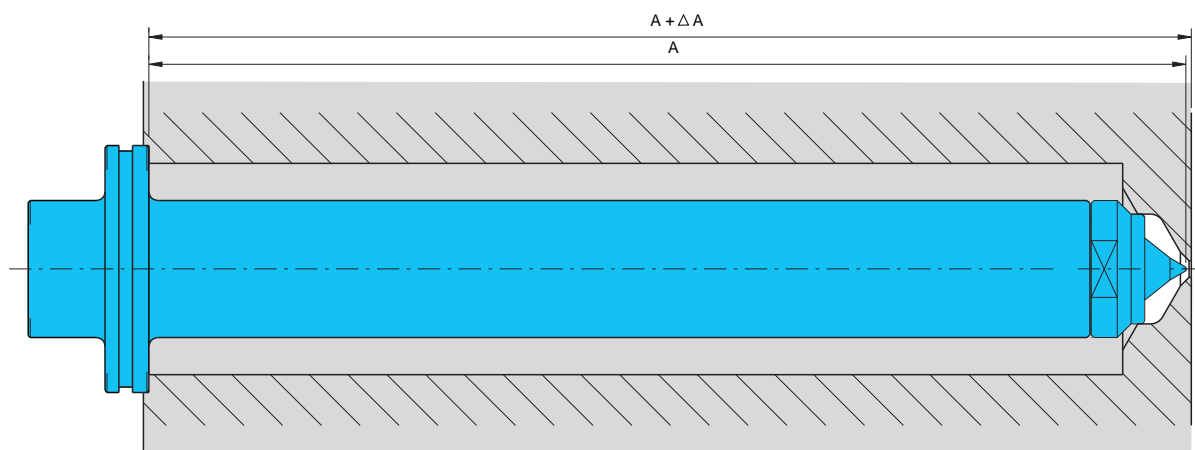
Matériau: Polyimide
Température maximale d'utilisation en continu: 288 °C
Pour changement de couleur plus facile
Résistant à l'usure pour matières non-abrasives

REF.	W	Watt 230V	REF.	REF.
BHF 2550	25	300	TC 19	GSI 0033
BHF 5050	50	600		

AMN

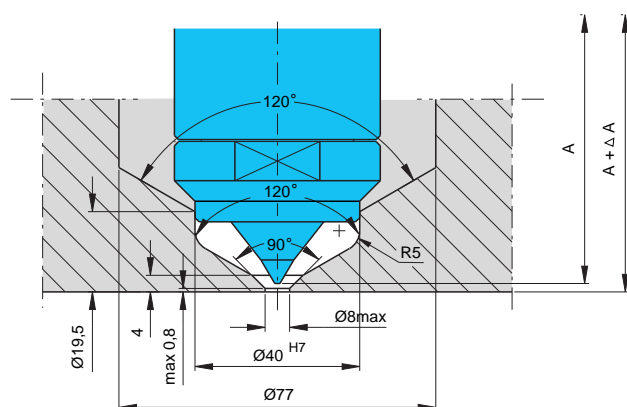
Autonozzles

Installation



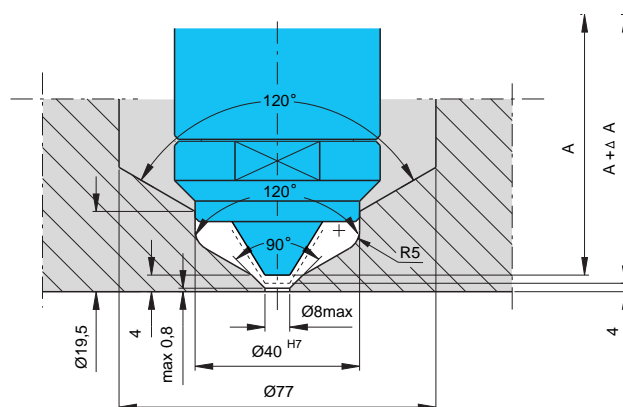
Seuil

type pointe



Seuil

à passage direct

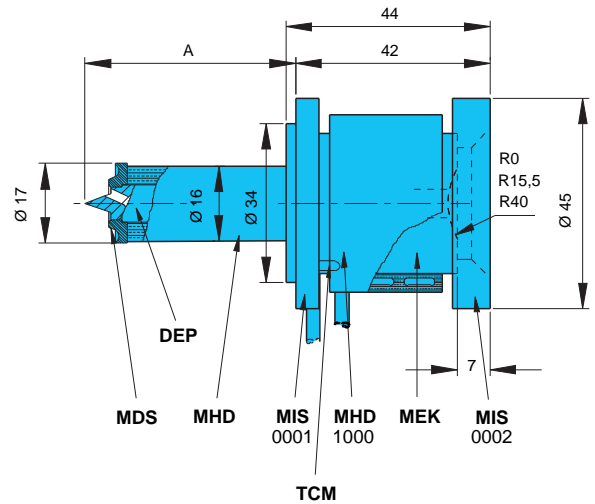


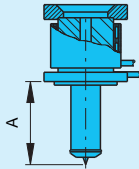
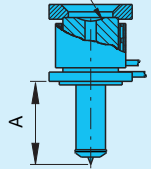
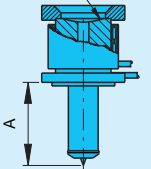
$$\Delta A = A \times \Delta T^{\circ} \times 11,5 \times 10^{-6}$$

MPP

Buses mono-empreinte Micro

Type pointe

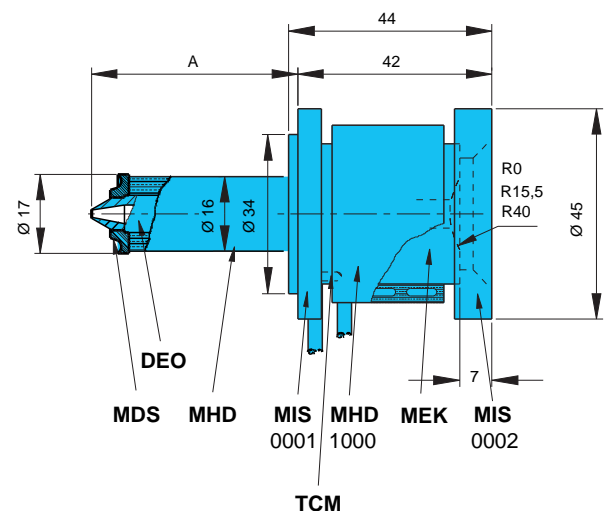


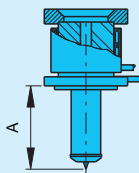
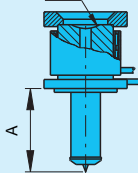
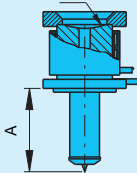
			A	Mat.	<p>Inclus:</p> <p>MEK: corps de buse mono-empreinte Micro</p> <p>DEP: corps de buse à tête à visser, type pointe</p> <p>MDS: rondelle</p> <p>MHD: collier chauffant pour corps de buse mono-empreinte Micro</p> <p>MHD: élément chauffant surmoulé avec thermocouple type 'J' pour buse à tête à visser</p> <p>MIS: bague isolante inférieure</p> <p>MIS: bague isolante supérieure</p> <p>TCM: thermocouple type 'J' pour corps de buse mono-empreinte Micro</p>
REF. Ensemble	REF. Ensemble	REF. Ensemble			
MPP 0080	MPP 0081	MPP 0082	43	standard	
MPP 0090	MPP 0091	MPP 0092	53		
MPP 0100	MPP 0101	MPP 0102	63		
MPP 1080	MPP 1081	MPP 1082	43	anti-usure	
MPP 1090	MPP 1091	MPP 1092	53		
MPP 1100	MPP 1101	MPP 1102	63		

MDO

Buses mono-empreinte Micro

A passage direct



			A	Mat.	<p>Inclus:</p> <p>MEK: corps de buse mono-empreinte Micro</p> <p>DEO: corps de buse à tête à visser, type à passage direct</p> <p>MDS: rondelle</p> <p>MHD: collier chauffant pour corps de buse mono-empreinte Micro</p> <p>MHD: élément chauffant surmoulé avec thermocouple type 'J' pour buse à tête à visser</p> <p>MIS: bague isolante inférieure</p> <p>MIS: bague isolante supérieure</p> <p>TCM: thermocouple type 'J' pour corps de buse mono-empreinte Micro</p>
REF. Ensemble	REF. Ensemble	REF. Ensemble			
MDO 0080	MDO 0081	MDO 0082	42	standard	
MDO 0090	MDO 0091	MDO 0092	52		
MDO 0100	MDO 0101	MDO 0102	62		

MPP - MDO

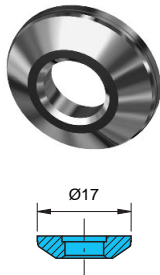
Buses mono-empreinte Micro

MDS - MHD - DEP - DEO - MIS - MEK - TCM

Pièces de rechange

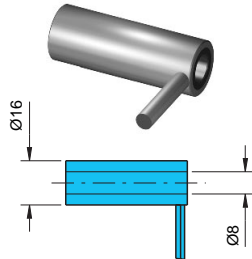
MDS

Rondelles



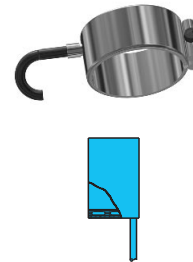
MHD

Eléments chauffants surmoulés avec thermocouple type 'J' pour buses à visser



MHD

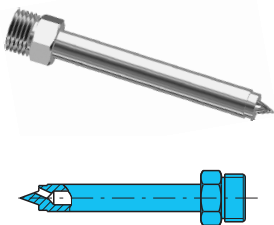
Colliers chauffants pour corps de buse mono-empreinte Micro



REF.	Pour	REF.	Watt 230V	Pour MPP/MDO	Pour MPP/MDO	REF.	Watt 230V	Pour
MDS 0001	MPP/MDO	MHD 0044	175	0080-0081-0082	1080-1081-1082	MHD 1000	210	MPP/MDO
		MHD 0054	190	0090-0091-0092	1090-1091-1092			
		MHD 0064	200	0100-0101-0102	1100-1101-1102			

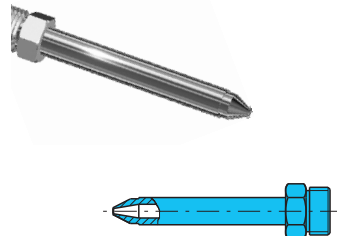
DEP

Corps de buse à visser, type pointe



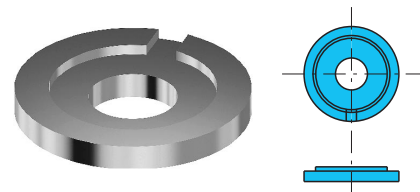
DEO

Corps de buse à visser, à passage direct



MIS

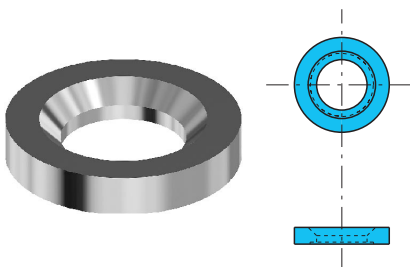
Bagues isolantes inférieures



REF.	Pour MPP	Mat.	REF.	Pour MDO	Mat.	REF.	Pour
DEP 0060	0080/0081/0082	standard	DEO 0060	0080/0081/0082	standard	MIS 0001	MPP/MDO
DEP 0070	0090/0091/0092		DEO 0070	0090/0091/0092			
DEP 0080	0100/0101/0102		DEO 0080	0100/0101/0102			
DEP 1060	1080/1081/1082	anti-usure					
DEP 1070	1090/1091/1092						
DEP 1080	1100/1101/1102						

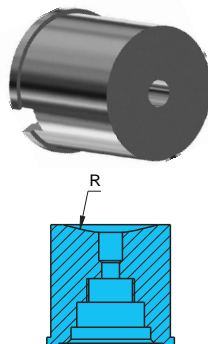
MIS

Bagues isolantes supérieures



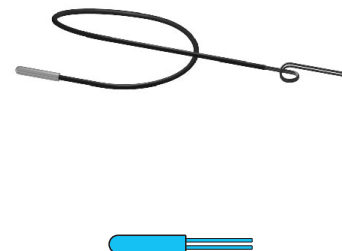
MEK

Corps de buse mono-empreinte Micro



TCM

Thermocouples type 'J' pour corps de buse mono-empreinte Micro



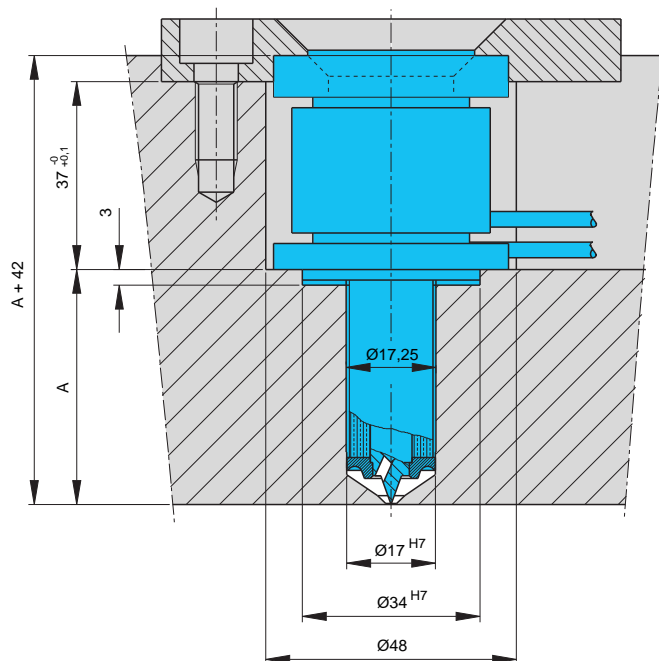
REF.	Pour	REF.	R	REF.
MIS 0002	MPP/MDO	MEK 0001	0	TCM 0003
		MEK 0015	15,5	
		MEK 0040	40	

MPP - MDO

Buses mono-empreinte Micro

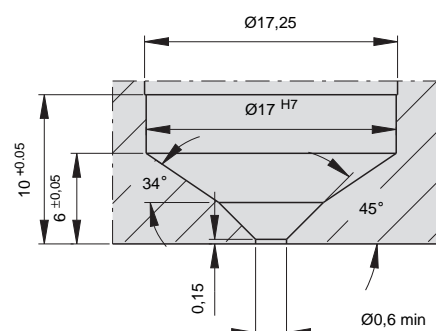
Installation

Type pointe



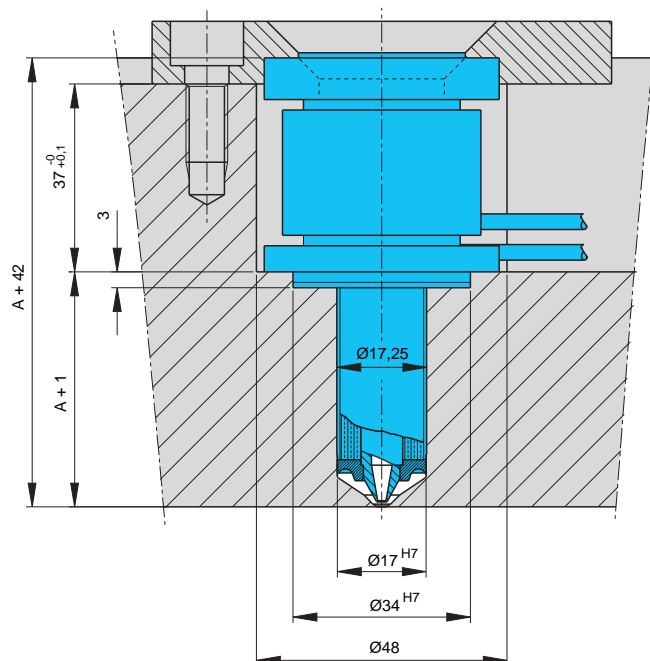
Seuil

Type pointe



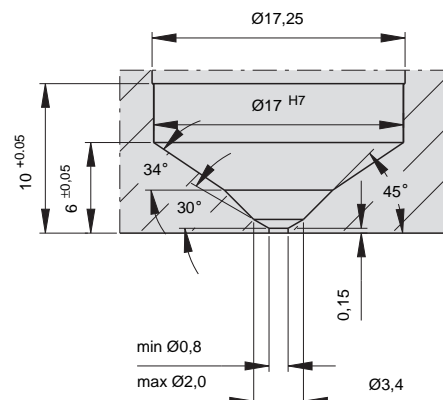
Standard			Alliage dur			A
R=0	R=15,5	R=40	R=0	R=15,5	R=40	
MPP 0080	MPP 0081	MPP 0082	MPP 1080	MPP 1081	MPP 1082	45
MPP 0090	MPP 0091	MPP 0092	MPP 1090	MPP 1091	MPP 1092	55
MPP 0100	MPP 0101	MPP 0102	MPP 1100	MPP 1101	MPP 1102	65

Type à passage direct



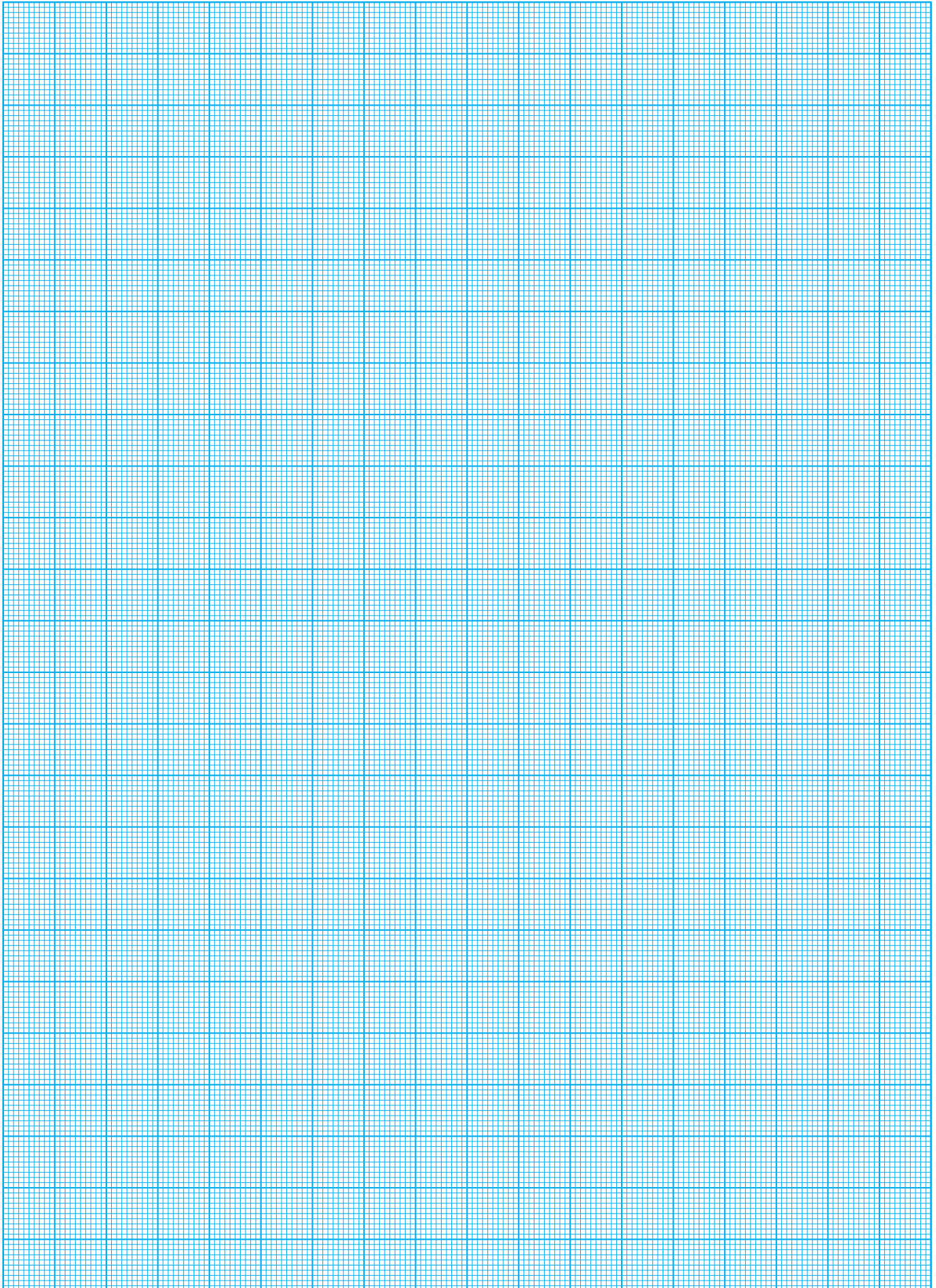
Seuil

Type à passage direct



Standard			A
R=0	R=15,5	R=40	
MDO 0080	MDO 0081	MDO 0082	44
MDO 0090	MDO 0091	MDO 0092	54
MDO 0100	MDO 0101	MDO 0102	64

NOTES

A large grid of blue lines on a white background, intended for handwritten notes. The grid consists of 20 columns and 30 rows of small squares, with slightly larger squares forming a border around the perimeter.

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MFHCPX	8d- 7		
MFHCPX/CV	8d- 7		
MFHPX	8d- 7		
MFHPX/CV	8d- 7		
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MPC	8d- 16		
MPCH	8d- 16		
MTC	8d- 15		
OE	8d- 15/ 8d- 16		
PIC	8d- 16		

Info

Tableau de sélection

ESH

- 1 Modules de contrôle de température à une zone



1 ESH-10-02 - 8d-3

MFFPRX

- 2 Armoires pour deux modules
- 3 Modules à microprocesseur



2 MFFPRX-2-G - 8d-4



3 SSMX-15-G - 8d-4/8d-10

MFPX-MFPX/CV

- 4 Armoires de base pour contrôle de température
- 5 Armoires de base pour contrôle de température avec moniteur courant/voltage
- 6 Modules à microprocesseur
- 7 Moniteur courant/voltage



4 MFPX- 5-C 4,5-G - 8d-6

MFPX- 8-C 4,5-G - 8d-6

MFPX-12-C 4,5-G - 8d-6

5 MFPX- 5-C 4,5-G/CV - 8d-6

MFPX- 8-C 4,5-G/CV - 8d-6

MFPX-12-C 4,5-G/CV - 8d-6



6 SSMX-15-G - 8d-4/8d-10



7 CVK - 8d-8

MFCPX-MFCPX/CV

- 8 Armoires de base pour contrôle de température et communication
- 9 Armoires de base pour contrôle de température et communication avec moniteur courant/voltage
- 10 Modules à microprocesseur et communication
- 11 Modules à microprocesseur
- 12 Modules à microprocesseur-régulation PID
- 13 Module d'alarme et de chauffe de veille
- 14 Moniteur courant/voltage



8 MFCPX- 5-C 4,5-G - 8d-6

MFCPX- 8-C 4,5-G - 8d-6

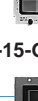
MFCPX-12-C 4,5-G - 8d-6



10 CSS-15-02 - 8d-11



12 DSS-15-02 - 8d-12



11 SSMX-15-G - 8d-4/8d-10

13 TAS-05-02 - 8d-13



14 CVK - 8d-8

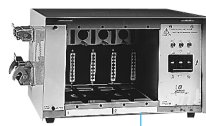
9 MFCPX- 5-C 4,5-G/CV - 8d-6

MFCPX- 8-C 4,5-G/CV - 8d-6

MFCPX-12-C 4,5-G/CV - 8d-6

MFHPX-MFHPX/CV

- 15 Armoires de base (30 Amp) pour régulation de température
- 16 Armoires de base (30 Amp) pour régulation de température et moniteur courant/voltage
- 17 Modules à microprocesseur (30 Amp)
- 18 Moniteur courant/voltage



15 MFHPX-2-C 4,5-G - 8d-7

MFHPX-3-C 4,5-G - 8d-7

MFHPX-5-C 4,5-G - 8d-7



17 SSMX-30-G - 8d-4/8d-10



18 CVK - 8d-8

16 MFHPX-2-C 4,5-G/CV - 8d-7

MFHPX-3-C 4,5-G/CV - 8d-7

MFHPX-5-C 4,5-G/CV - 8d-7

- 19 Armoires de base (30 Amp) pour contrôle de température et communication
- 20 Armoires de base (30 Amp) pour contrôle de température et moniteur courant/voltage
- 21 Modules à microprocesseur (30 Amp) avec communication
- 22 Modules à microprocesseur (30 Amp)-régulation PID
- 23 Modules à microprocesseur (30 Amp)
- 24 Module d'alarme et de chauffe de veille
- 25 Moniteur courant/voltage



19 MFHPX-2-C 4,5-G - 8d-7

MFHPX-3-C 4,5-G - 8d-7

MFHPX-5-C 4,5-G - 8d-7



21 CSS-30-02 - 8d-11



22 DSS-30-02 - 8d-12



24 TAS-05-02 - 8d-13

25 CVK - 8d-8

20 MFHPX-2-C 4,5-G/CV - 8d-7

MFHPX-3-C 4,5-G/CV - 8d-7

MFHPX-5-C 4,5-G/CV - 8d-7

23 SSMX-30-G - 8d-4/8d-10

ESH-10-02

Régulateurs à micro-processeur à une zone



REF.

ESH-10-02

Spécifications

Smart Start® (SS):
Durée chauffe progressive SS:
Arrêt du Smart Start®:
Priorité de mode d'opération:

montée linéaire de la température ambiante jusqu'à la température Smart Start®
4 1/2 minutes
93 °C
- SS passe avant le mode automatique
- une rupture de TC a priorité sur SS et le mode automatique
- une inversion ou un court circuit du TC a priorité sur le SS et le mode automatique
- le contrôle manuel a priorité sur une rupture TC, inversion TC et le mode automatique
- la sortie courant est bloquée dès qu'un code de faute apparaît

Entrées

Sonde thermocouple (TC):
Résistance TC externe:
Isolation TC:
Compensation soudure froide:
Impédance d'entrée:
Protection d'entrée:
Stabilité d'ampli:
Plage dynamique:
Taux de réjection mode commun:
Taux de réjection alimentation:

type 'J', mis ou non à la masse
la haute impédance d'entrée permet une grande longueur de câble thermocouple
isolé par circuit d'alimentation contrôlé
automatique, mieux que 0,01 °C/°C
22 Megohms
à diode et filtre RC
0,01 °C/°C
537 °C
mieux que 100 db
mieux que 90 db

Sorties

Alimentation et sortie:
Interrupteur de sortie:
Protection de surcharge:
Protection courants induits:
Isolation de la ligne d'alimentation:

10 Amp., 240 VAC nominal, monophasé, 2400 watts @ 240 VAC
intégré triac état solide, déclenchement pulsé et commutation à zéro
10 A: fusibles aux deux pôles de la ligne secteur alternatif
filtrage $\Delta V/\Delta t$ et courants transitoires
circuits isolés des lignes, jusqu'à 2500 VAC, par transformateur et par opto-coupleur

Caractéristiques générales

Tension d'entrée:
Courant continu:
Consommation propre:
Dimensions:
Fusibles:

240 VAC + 10 %-20 %, 50-60 Hz
production interne, stabilisé et compensé
moins de 5 watts
L: 18,29 cm, H: 6,86 cm, P: 21,84 cm
2 fusibles ABC-10 livrés avec le module

Diagnostics

Le dispositif de diagnostic signale
automatiquement un défaut à l'opérateur.

oPE: protection rupture de TC:
bAC: protection inversion de TC:
Sho: protection court-circuit de TC:

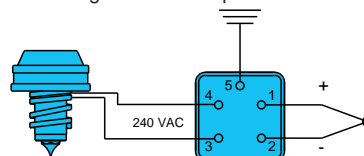
coupe automatiquement l'alimentation des éléments chauffants en mode automatique
coupe automatiquement l'alimentation des éléments chauffants en mode automatique
coupe automatiquement l'alimentation des éléments chauffants en mode automatique

Connection

L'élément chauffant et le thermocouple du moule:

sont connectés à la prise de courant et à la prise pour thermocouple.

Schéma de câblage / thermocouple et alimentation de puissance



ABC - C146 10 A - C146 10 G - C146 10 F - MCC

Pieces de rechange ESH-10-02



* sans vue

REF.	Description	REF.	Description
① ABC-10	Fusibles	④ C 146 10 F 003 0004	Embases
② C 146 10 A 004 0024	Prise mâle	MCC-0001*	Cable de tension & Tc* (L=4,5m)
③ C 146 10 G 003 2004	Boîtier entrée verticale		

MFFPRX-2-G

Armoires à deux zones pour contrôle de température



REF.

MFFPRX-2-G

Spécifications

Données techniques: max. 2 modules, armoire avec ventilateur
 Voltage d'entrée: 240 VAC, 50/60 Hz
 Puissance max.: 15 A/zone
 Dimensions: Lo: 160 mm, La: 180 mm, H: 190 + 20 mm
 Poids: 4 kg

L'armoire à deux zones **MFFPRX-2-G** est fournie avec:

2 Prises de sortie de courant **PIC-1**
 2 Fiches thermocouples **TC-P**
 1 Prise d'entrée de courant **PN-30**

SSMX-15-G

Modules de contrôle à microprocesseur



REF.

SSMX-15-G

Avantages

Régulation PID par micro-processeur entièrement auto-adaptatif. Commande de puissance proportionnelle au temps pour un contrôle précis. Possibilité de sortie pour alarmes. Commutation au zéro pour un minimum de parasites. Préchauffage automatique et linéaire (Smart Start®) pour une meilleure protection des éléments chauffants. Compensation des variations de tension du réseau en mode automatique. Voyant de température de fonctionnement. Protection automatique de rupture de thermocouple. Compensation de la soudure froide. La haute impédance d'entrée permet une grande longueur de câble thermocouple. Circuits intégrés à 100%, pas de relais mécanique. Complet, il n'y a pas lieu d'ajouter par exemple d'étage de puissance de triac ou d'interrupteur. Panneau frontal isolé pour la protection de l'opérateur. Interchangeable grâce au système d'enchâssement rapide. Compatible avec tous les Smart Series® et toutes les armoires de la série G.

Voir page 8d-12

MFFPRX-2-G

Pièces de rechange



PN-30
(Armoire)



PIC-1 (Armoire)



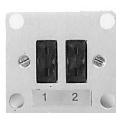
GS-1 (Moule)



ABC-15 pour SSMX



PIC-2 (Moule)



TCS-2 (Moule)



GD-1 (Armoire)



TC-P (Moule/
Armoire)

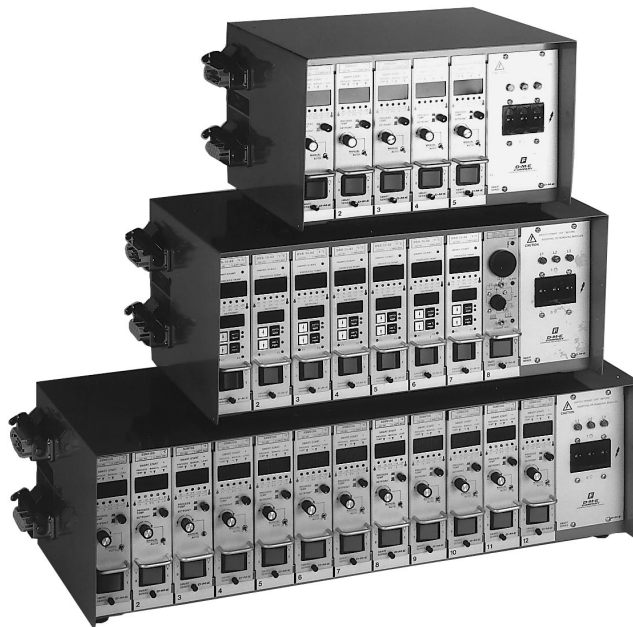


MFBP

REF.	Description	REF.	Description
PN-30	Prise d'entrée de courant	ABC-15 pour SSMX	Fusibles
PIC-1	Prise de sortie de courant	GD-1	Prise d'alimentation armoire vers l'élément chauffant
PIC-2	Prise cordon d'alimentation moule	TC-P	Fiches câble thermocouple
GS-1	Prise moule reliée aux éléments chauffants	MFBP-10-G	Panneaux pleins
TCS-2	Prise thermocouple (moule)		

Info

Armoires de base pour contrôle de température



Armoires de base Smart Series®

Les armoires de base Smart Series® sont robustes et fiables. Elles offrent une bonne souplesse d'utilisation et sont spécialement étudiées pour les exigences rigoureuses du moulage de matières plastiques. Entièrement câblées et prêtes à l'emploi, ces armoires sont disponibles en standard pour 5, 8 et 12 zones.

Caractéristiques:

1. Construction robuste en acier soudé, pour une durabilité et une performance optimum.
2. Le bloc de raccordement permet une adaptation simple au réseau et le choix de la tension, du nombre de phases ainsi que la répartition de la charge par phase. Il y a compatibilité avec tous les réseaux courants:
 - 3 x 380 VAC + Np + masse
 - 220-240 V, 3 phases, 50-60 Hz
 - 208-240 V, mono-phase, 50-60 Hz
 - 110-120 V, mono-phase, 50-60 Hz (pour éléments chauffants de 110 V)
3. Barrettes de connection pour le branchement aux modules du courant de puissance et des thermocouples. Une grande surface de contact des connecteurs plats offre une excellente fiabilité.
Une double mise à la terre de modules renforce la sécurité. Les modules sont mis à la terre dès leur introduction dans l'armoire avant même d'être branchés électriquement.
4. Interrupteur général avec témoin lumineux de marche et disjoncteur en cas de surcharge.
5. Ventilateur incorporé.
6. La présence de glissières supérieure et inférieure facilite l'insertion et l'extraction des modules.
7. Des boutons pressions permettent le verrouillage facile des modules et des panneaux de protection, sans nécessiter d'outils.
8. Connecteur pour usage intensif avec verrouillage intégral pour l'alimentation et les thermocouples.
9. Branchements et contrôles identifiables par symboles internationaux.
10. Etiquettes numérotées pour identification des zones.
11. La fixation de l'armoire sur la presse ou sur un support est facilitée par 4 trous filetés sur la face postérieure.
12. Ronflement électrique et échauffement réduits.
13. Les modules, câbles et accessoires pour les '4, 7 et 11 zone' G series sont compatibles avec les nouveaux Smart Series® 5, 8 et 12 et interchangeables.
14. Sur demande, de nouveaux types Smart Series® haute puissance (30 Amp.) et modules 2, 3 et 5 zones.

MFPX - * MFPX/CV

Armoires de base pour contrôle de température

* Armoires de base pour contrôle de température avec moniteur courant/ voltage



MFCPX - * MFCPX/CV

Armoires de base pour contrôle de température et communication

* Armoires de base pour contrôle de température et communication avec moniteur courant/voltage



MFPX-5-C 4,5-G

Données techniques

Zones: max. 5, armoire de base avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 50 Amp., Interrupteur général avec disjoncteur surcharge/témoin incorporé 50 A/phase
Dimensions et poids: Lo = 360 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 9 kg

L'armoire à 5 zones est fournie avec:

- 1 Jeu de fusibles de rechange: **ABC-15**
- 1 Jeu de cosses à sertir: **HWCC-1**
- 1 Prise de courant: **PIC-24-G**
- 1 Prise thermocouple: **MTC-5-G**
- 1 Câble de puissance (moule): **MPC-24-4,5-G** (longueur 4,5 m)
- 1 Câble thermocouple: **TC-5-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFPX-5-C 4,5-G/CV**

MFCPX-5-C 4,5-G

Données techniques

Zones: max. 5, armoire de base avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 50 Amp., Interrupteur général avec disjoncteur surcharge/témoin incorporé, 50 A/phase
Dimensions et poids: Lo = 360 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 9 kg
câblée pour communication

Spécifications:

L'armoire à 5 zones est fournie avec:

- 1 Jeu de fusibles de rechange: **ABC-15**
- 1 Jeu de cosses à sertir: **HWCC-1**
- 1 Prise de courant: **PIC-24-G**
- 1 Prise thermocouple: **MTC-5-G**
- 1 Câble de puissance (moule): **MPC-24-4,5-G** (longueur 4,5 m)
- 1 Câble thermocouple: **TC-5-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFCPX-5-C 4,5-G/CV**

MFPX-8-C 4,5-G

Données techniques

Zones: max. 8, armoire de base avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 50 Amp., Interrupteur général avec disjoncteur surcharge/témoin incorporé, 50 A/phase
Dimensions et poids: Lo = 513 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 11,4 kg

L'armoire à 8 zones est fournie avec:

- 1 Jeu de fusibles de rechange: **ABC-15**
- 1 Jeu de cosses à sertir: **HWCC-1**
- 1 Prise de courant: **PIC-24-G**
- 1 Prise thermocouple: **MTC-8-G**
- 1 Câble de puissance (moule): **MPC-24-4,5-G** (longueur 4,5 m)
- 1 Câble thermocouple: **TC-8-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFPX-8-C 4,5-G/CV**

MFCPX-8-C 4,5-G

Données techniques

Zones: max. 8, armoire de base avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 50 Amp., Interrupteur général avec disjoncteur surcharge/témoin incorporé, 50 A/phase
Dimensions et poids: Lo = 513 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 11,4 kg
câblée pour communication

Spécifications:

L'armoire à 8 zones est fournie avec:

- 1 Jeu de fusibles de rechange: **ABC-15**
- 1 Jeu de cosses à sertir: **HWCC-1**
- 1 Prise de courant: **PIC-24-G**
- 1 Prise thermocouple: **MTC-8-G**
- 1 Câble de puissance (moule): **MPC-24-4,5-G** (longueur 4,5 m)
- 1 Câble thermocouple: **TC-8-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFCPX-8-C 4,5-G/CV**

MFPX-12-C 4,5-G

Données techniques

Zones: max. 12, armoire de base avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 50 Amp., Interrupteur général avec disjoncteur de protection 50 A/phase
Dimensions et poids: Lo = 716 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 16 kg

L'armoire à 12 zones est fournie avec:

- 1 Jeu de fusibles de rechange: **ABC-15**
- 1 Jeu de cosses à sertir: **HWCC-1**
- 1 Prise de courant: **PIC-24-G**
- 1 Prise thermocouple: **MTC-12-G**
- Câble de puissance (moule): **MPC-24-4,5-G** (longueur 4,5 m)
- Câble thermocouple: **TC-12-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFPX-12-C 4,5-G/CV**

MFCPX-12-C 4,5-G

Données techniques

Zones: max. 12, armoire de base avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 50 Amp., Interrupteur général avec disjoncteur surcharge/témoin incorporé, 50 A/phase
Dimensions et poids: Lo = 716 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 16 kg
câblée pour communication

Spécifications:

L'armoire à 12 zones est fournie avec:

- 1 Jeu de fusibles de rechange: **ABC-15**
- 1 Jeu de cosses à sertir: **HWCC-1**
- 1 Prise de courant: **PIC-24-G**
- 1 Prise thermocouple: **MTC-12-G**
- 1 Câble de puissance (moule): **MPC-24-4,5-G** (longueur 4,5 m)
- 1 Câble thermocouple: **TC-12-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFCPX-12-C 4,5-G/CV**

Armoires de base avec câble de 4,5 m

REF.	REF.*	Zones
MFPX- 5-C 4,5-G	MFPX- 5-C 4,5-G/CV	5
MFPX- 8-C 4,5-G	MFPX- 8-C 4,5-G/CV	8
MFPX-12-C 4,5-G	MFPX-12-C 4,5-G/CV	12

Armoires de base avec communication-câble de 4,5 m et moniteur courant/voltage

REF.	REF.*	Zones
MFCPX- 5-C 4,5-G	MFCPX- 5-C 4,5-G/CV	5
MFCPX- 8-C 4,5-G	MFCPX- 8-C 4,5-G/CV	8
MFCPX-12-C 4,5-G	MFCPX-12-C 4,5-G/CV	12

MFHPX - * MFHPX/CV

Armoires de base de grande puissance (30 A) pour contrôle de température

* Armoires de base de grande puissance (30 A) pour contrôle de température avec moniteur courant/voltage



MFHCPX - * MFHCPX/CV

Armoires de base de grande puissance (30 A) pour contrôle de température et communication

* Armoires de base de grande puissance (30 A) pour contrôle de température et communication avec moniteur courant/voltage



MFHPX-2-C 4,5-G

Données techniques

Zones: 2 zones de 30 Amp. avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 75 Amp., Interrupteur général avec disjoncteur surcharge/témoin incorporé, 75 A/phase
Dimensions et poids: Lo = 360 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 9 kg

L'armoire à 2 zones à grande puissance est fournie avec:

- 1 Jeu de fusibles de rechange: **ABC-30**
- 1 Jeu de cosses à sertir: **HWCC-2**
- 1 Prise de courant: **PICH-23-G**
- 1 Prise thermocouple: **MTC-5-G**
- 1 Câble de puissance (moule): **MPCH-23-4,5-G** (longueur 4,5 m)
- 1 Câble thermocouple: **TC-5-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFHPX-2-C 4,5-G/CV**

MFHCPX-2-C 4,5-G

Données techniques

Zones: 2 zones de 30 Amp. avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 75 Amp., Interrupteur général avec disjoncteur surcharge/témoin incorporé, 75 A/phase
Dimensions et poids: Lo = 360 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 9 kg
Spécifications: câblée pour communication

L'armoire à 2 zones à grande puissance et communication est fournie avec:

- 1 Jeu de fusibles de rechange: **ABC-30**
- 1 Jeu de cosses à sertir: **HWCC-2**
- 1 Prise de courant: **PICH-23-G**
- 1 Prise thermocouple: **MTC-5-G**
- 1 Câble de puissance (moule): **MPCH-23-4,5-G** (longueur 4,5 m)
- 1 Câble thermocouple: **TC-5-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFHCPX-2-C 4,5-G/CV**

MFHPX-3-C 4,5-G

Données techniques

Zones: 3 zones de 30 Amp. avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 75 Amp., Interrupteur général avec disjoncteur surcharge/témoin incorporé, 75 A/phase
Dimensions et poids: Lo = 513 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 11,4 kg

L'armoire à 3 zones à grande puissance est fournie avec:

- 1 Jeu de fusibles de rechange: **ABC-30**
- 1 Jeu de cosses à sertir: **HWCC-2**
- 1 Prise de courant: **PICH-23-G**
- 1 Prise thermocouple: **MTC-5-G**
- 1 Câble de puissance (moule): **MPCH-23-4,5-G** (longueur 4,5 m)
- 1 Câble thermocouple: **TC-5-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFHPX-3-C 4,5-G/CV**

MFHCPX-3-C 4,5-G

Données techniques

Zones: 3 zones de 30 Amp. avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 75 Amp., Interrupteur général avec disjoncteur surcharge/témoin incorporé, 75 A/phase
Dimensions et poids: Lo = 513 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 11,4 kg
Spécifications: câblée pour communication

L'armoire à 3 zones à grande puissance et communication est fournie avec:

- 1 Jeu de fusibles de rechange: **ABC-30**
- 1 Jeu de cosses à sertir: **HWCC-2**
- 1 Prise de courant: **PICH-23-G**
- 1 Prise thermocouple: **MTC-5-G**
- 1 Câble de puissance (moule): **MPCH-23-4,5-G** (longueur 4,5 m)
- 1 Câble thermocouple: **TC-5-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFHCPX-3-C 4,5-G/CV**

MFHPX-5-C 4,5-G

Données techniques

Zones: 5 zones de 30 Amp. avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 75 Amp., Interrupteur général avec disjoncteur surcharge/témoin incorporé, 75 A/phase
Dimensions et poids: Lo = 716 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 16 kg

L'armoire à 5 zones à grande puissance est fournie avec:

- 1 Jeu de fusibles de rechange: **ABC-30**
- 1 Jeu de cosses à sertir: **HWCC-2**
- 1 Prise de courant: **PICH-5-G**
- 1 Prise thermocouple: **MTC-5-G**
- 1 Câble de puissance (moule): **MPCH-5-4,5-G** (longueur 4,5 m)
- 1 Câble thermocouple: **TC-5-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFHPX-5-C 4,5-G/CV**

MFHCPX-5-C 4,5-G

Données techniques

Zones: 5 zones de 30 Amp. avec ventilateur
Voltage d'entrée: max. 240 VAC Δ/420 VAC λ, 50-60 Hz.
Puissance maximum: 75 Amp., Interrupteur général avec disjoncteur surcharge/témoin incorporé, 75 A/phase
Dimensions et poids: Lo = 716 mm, La = 290 mm, H = 229 mm (Lo ne contient pas les prises), 16 kg
Spécifications: câblée pour communication

L'armoire à 5 zones à grande puissance et communication est fournie avec:

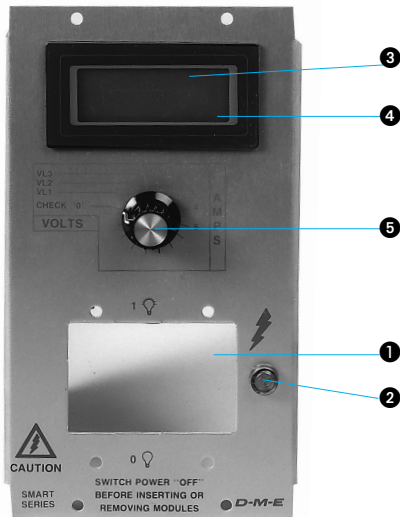
- 1 Jeu de fusibles de rechange: **ABC-30**
- 1 Jeu de cosses à sertir: **HWCC-2**
- 1 Prise de courant: **PICH-5-G**
- 1 Prise thermocouple: **MTC-5-G**
- 1 Câble de puissance (moule): **MPCH-5-4,5-G** (longueur 4,5 m)
- 1 Câble thermocouple: **TC-5-4,5-G** (longueur 4,5 m)

* Avec moniteur courant/voltage - **MFHCPX-5-C 4,5-G/CV**

Armoires de base avec câble de 4,5 m			Armoires de base avec communication-câble de 4,5 m et moniteur courant/voltage		
REF.	REF.*	Zones	REF.	REF.*	Zones
MFHPX-2-C 4,5-G	MFHPX-2-C 4,5-G/CV	2	MFHCPX-2-C 4,5-G	MFHCPX-2-C 4,5-G/CV	2
MFHPX-3-C 4,5-G	MFHPX-3-C 4,5-G/CV	3	MFHCPX-3-C 4,5-G	MFHCPX-3-C 4,5-G/CV	3
MFHPX-5-C 4,5-G	MFHPX-5-C 4,5-G/CV	5	MFHCPX-5-C 4,5-G	MFHCPX-5-C 4,5-G/CV	5

CVK

Moniteur courant/voltage



1 Le disjoncteur (livré avec l'armoire):

met ou coupe la tension sur tous les modules de l'armoire.

2 Le voyant lumineux (ambre):

s'allume quand l'interrupteur général ou le disjoncteur est en position ON.

3 Amp/Voltmètre:

l'affichage digital à échelles multiples donne une lecture précise du courant de la zone (Amp) ou du voltage d'entrée (Volt)

4 Amp/Volt:

l'indication apparaît automatiquement suivant le choix courant ou voltage.

5 Bouton sélecteur à multi-position:

sélectionne automatiquement le courant d'une zone ou le voltage d'une phase de la ligne à contrôler. Pour les systèmes à plus de 12 zones, des panneaux munis d'appareils de mesure et d'un bouton sélecteur sont fournis.

REF. Kit	Pour armoires	REF. Kit	Pour armoires
CVK 5	5 zones 15 Amp.	CVK 2-H	2 zones 30 Amp.
CVK 8	8 zones 15 Amp.	CVK 3-H	3 zones 30 Amp.
CVK 12	12 zones 15 Amp.	CVK 5-H	5 zones 30 Amp.

Le moniteur de contrôle digital courant/voltage D-M-E en option constitue pour le mouleur un outil remarquable pour la recherche des défauts durant la mise en route des moules ou des contrôles. Cette unité compacte est disponible comme un élément de l'armoire de base D-M-E Smart Series®.

Concept sobre pour une performance améliorée

La nouvelle conception du moniteur de contrôle le rend simple à utiliser et présente un affichage des données aisé à lire. La facilité d'emploi est obtenue par la simplification et par l'élimination des commandes et d'indications superflues.

Quand on place le sélecteur sur le numéro d'une zone, la fonction Amp est choisie automatiquement et le tableau de lecture affiche la quantité de courant fournie par le module. On peut mesurer le voltage d'entrée en tournant le bouton du sélecteur sur la position Voltage d'une des trois phases. Ceci connecte automatiquement la fonction Voltmètre ce qui permet d'afficher le voltage de la phase choisie.

Spécifications		Spécifications	
Echelle du voltmètre	190 à 290 VAC (pour système à 240 V)	Echelle de l'ampèremètre	0 à 2; 0 à 30 Ampères
Précision du voltmètre	± 3% de la lecture 50 - 60 Hz	Précision de l'ampèremètre	± 2% @ à 100% cycle de charge 50-60 Hz
Tension limite	400 VAC	Intensité limite	30 Ampères
Tension d'entrée	240 VAC, 50-60 Hz		

Info

Modules

Les modules D-M-E Smart Series® ont été créés en tenant compte des techniques les plus modernes de l'électronique et de la mécanique. Des composants soigneusement sélectionnés sont à la base de leur fiabilité et de leur haute technicité. Le niveau élevé de la conception se reflète dans la facilité d'emploi et dans la simplicité apparente du système.

**SSMX-15-G**

Module de contrôle de température à microprocesseur, (15 A)

**CSS-15-02**

Module de contrôle de température à microprocesseur avec communication, (15 A)

**DSS-15-02**

Module de régulation à microprocesseur, régulation PID auto-adaptative, (15 A)

**TAS-05-02**

Module d'alarme et de chauffe de veille compatible avec:
SSMX-15/30-G,
DSS-15/30-02 et
CSS-15/30-02.

SSMX-30-G

Module de contrôle de température à microprocesseur, (30 A)

CSS-30-02

Module de contrôle de température à microprocesseur avec communication, (30 A)

DSS-30-02

Module de régulation à microprocesseur, régulation PID auto-adaptative, (30 A)

Spécifications électroniques

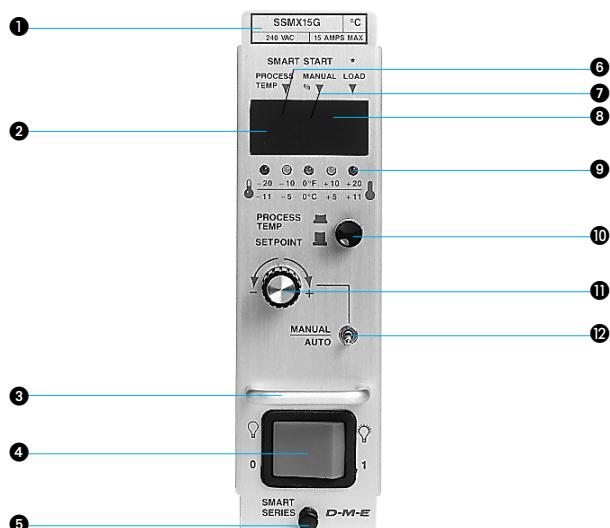
1. Composants électroniques intégrés et surdimensionnés - pas de relais ni d'autre partie mobile.
2. Commutation statique par triac commuté à zéro pour un minimum de parasites.
3. Filtre d'entrée contre parasites et sur-tensions.
4. Triacs et alimentation de basse tension intégrés aux modules - les alimentations sont régulées et compensées en température.
5. Pour une plus grande sécurité 2 fusibles de protection sont utilisés pour le circuit de triac et pour l'alimentation du moule.
6. Alimentation, 240 Volt $\pm 20\%$ monophasé standard.
7. Protection avec double mise à la terre et panneau frontal isolé pour la protection de l'utilisateur.

Spécifications mécaniques

1. Tous les modules sont interchangeables et de dimensions identiques La 50,8 x H 177,8 x P 190,5 mm. (Modules de 30 Amp. La 101,6 x H 177,8 x P 190,5 mm).
2. Construction solide type 'boîtier' pour une protection accrue.
3. Fusibles très facilement accessibles.
4. Les grandes dimensions de la plaque de dissipation thermique du triac et de la carte de circuit imprimé améliorent la fiabilité.
5. Les glissières, la poignée et le système de verrouillage 'push/pull' simplifient le montage et démontage.
6. L'identification et les spécifications du module sont bien visibles sur le panneau frontal.
7. Les indications sont simples et claires. Toutes les fonctions sont reconnaissables en un coup d'œil grâce aux diodes lumineuses.
8. L'ajustement des paramètres de régulation n'est pas nécessaire.

SSMX-15-G / SSMX-30-G

Modules de contrôle de température à microprocesseur



- 1 Plaque d'identification
- 2 Lecture digitale par diodes lumineuses
- 3 Poignée
- 4 Interrupteur général
- 5 Système de verrouillage 'push/pull'
- 6 Témoin lumineux d'affichage de température
- 7 Témoin de pourcentage de puissance en mode manuel
- 8 Témoin de mise sous-tension
- 9 Voyants de déviation en température
- 10 Sélection d'affichage point de consigne/température effective
- 11 Bouton de réglage en température ou en pourcentage de puissance
- 12 Interrupteur modes automatique/manuel

Spécifications techniques

Contrôle mode auto/manuel:

Echelle de température:

Précision du contrôle:

Stabilité de température:

Calibrage - précision:

Durée du cycle:

Temps de réponse en puissance:

Remise à zéro automatique:

Contrôle manuel:

Smart Start® (SS):

Durée chauffe progressive SS:

Arrêt du Smart Start®:

Priorité de mode d'opération:

proportionnel à la durée des cycles sélectifs de la température ambiante jusqu'à 537 °C
 $\pm 0,5$ °C dépendant du système thermique complet
 $\pm 0,5\%$ sur l'échelle entière à température ambiante de 0 à 50 °C supérieur à 0,2% de l'échelle entière
 0,33 sec.
 moins que 0,13 sec.
 corrections automatiques pour moins de ± 1 °C de 0 à 99% à 1% près en mode cycles sélectifs
 montée linéaire de la température ambiante jusqu'à la température Smart Start®
 4 1/2 minutes
 93 °C
 - SS passe avant le mode automatique
 - une rupture de TC a priorité sur SS et le mode automatique
 - une inversion ou un court circuit du TC a priorité sur le SS et le mode automatique
 - le contrôle manuel a priorité sur une rupture TC, inversion TC et le mode automatique
 - la sortie courant est bloquée dès qu'un code de faute apparaît

Entrées

Sonde thermocouple:

Thermocouple externe:

Isolation thermocouple:

Compensation soudure froide:

Entrée:

Impédance d'entrée

Protection d'entrée:

Stabilité d'ampli:

Plage dynamique:

Taux de réjection en mode commun: meilleur que 100 dB

Taux de réjection sur alimentation: meilleur que 90 dB

type 'J' mis ou non à la terre la haute impédance d'entrée permet une grande longueur de câble thermocouple
 isolé par circuit d'alimentation contrôlé
 automatique, mieux que 0,01 °C/°C potentiométrique
 22 Megohms
 à diode et filtre RC
 0,01 °C/°C
 537 °C

Sorties

Tension de sortie:

Interrupteur de sortie:

Protection de surcharge:

Protection courants induits:

Isolation de la ligne:

15 Amp.: 15 Amp., 3600 Watts @ 240 VAC
 30 Amp.: 30 Amp., 7200 Watts @ 240 VAC
 intégré, triac état solide, déclenchement pulsé et commutation à zéro
 15 Amp.: fusibles aux deux pôles de la ligne d'alimentation
 30 Amp.: disjoncteur rapide filtrage $\Delta v/\Delta t$ et courants transitoires circuits isolés jusqu'à 2500 VAC par transformateur et opto-coupleur

Contrôles et indicateurs

Interrupteur général:

Affichage multi-fonctions:

Indication charge normale/SS:

Thermocouple en court circuit:

Rupture du thermocouple:

Thermocouple branché à l'envers:

Ecart de température:

interrupteur à bascule agréé 15 Amp ou disjoncteur (30 Amp) approuvé VDE
 3 chiffres-diodes lumineuses à 7 segments
 par diode lumineuse sur l'écran, clignote pendant SS
 'Sho' apparaît en alternance avec l'affichage normal. L'alimentation du chauffage s'interrompt automatiquement
 'oPE' apparaît en alternance avec l'affichage normal et l'alimentation du chauffage s'interrompt
 'bAC' apparaît en alternance et l'alimentation du chauffage s'interrompt diodes lumineuses séparées: ± 11 °C (rouge), ± 5 °C (jaune), 0 °C (vert)

Alimentation

Tension d'entrée:

Fréquence:

Courant continu:

Dimensions:

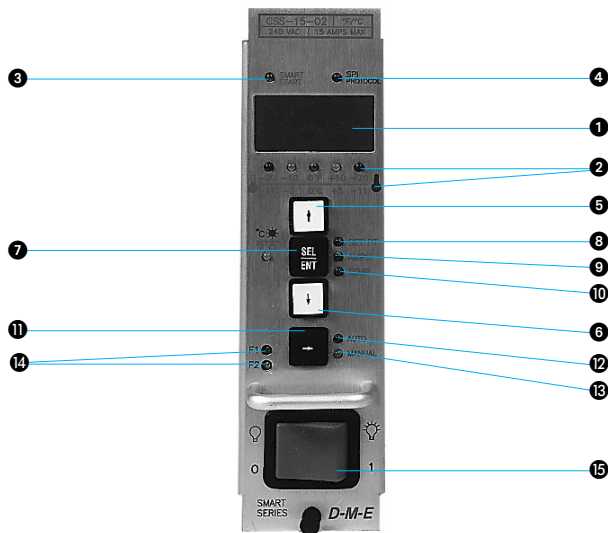
Fusibles:

240 VAC + 10% -20%
 50/60 Hz
 production interne, stabilisé et compensé. Consommation: Moins de 5 Watt
 15 Amp.: La 5,08 x H 17,78 x P 19,05 cm
 30 Amp.: La 10,06 x H 17,78 x P 19,05 cm
 15 Amp.: (2) ABC-15 fusibles (2 fusibles sont livrés avec le module)
 30 Amp.: disjoncteur rapide

REF.	Amp	Watt	REF.	Amp	Watt
SSMX-15-G	15	3600	SSMX-30-G	30	7200

CSS-15-02 / CSS-30-02

Modules de contrôle de température à microprocesseur avec communication



- 1 Affichage diodes lumineuses
- 2 Indicateur d'écart de température
- 3 Voyant 'Smart Start®'
- 4 Voyant de contrôle à distance
- 5 Touche d'augmentation de la consigne
- 6 Touche de réduction de la consigne
- 7 Touche 'Sélection/Entrée'
- 8 Voyant 'Sélection'
- 9 Voyant 'Amp'
- 10 Voyant 'Température'
- 11 Touche 'Auto/Manuel'
- 12 Voyant 'Automatique'
- 13 Voyant 'Manuel'
- 14 Voyant 'Fusibles'
- 15 Interrupteur principal

Spécifications techniques

Contrôle mode auto/manuel:

Echelle de température:

Précision du contrôle:

Stabilité de température:

Précision de calibrage:

Durée du cycle:

Temps de réponse en puissance:

Remise à zéro automatique:

Contrôle manuel:

proportionnel à la durée des cycles sélectifs de la température ambiante jusqu'à 537 °C
±0,5 °C dépendant du système thermique complet
±0,5% sur l'échelle entière à température ambiante de 0 à 50 °C supérieur à 0,2% de l'échelle entière
0,0166 sec à 60 HZ, 0,020 sec. à 50 Hz
0,0083 sec à 60 Hz, 0,010 sec à 50 Hz
corrections automatiques pour moins de ±1 °C
de 0 à 99% à 1% près en mode cycles sélectifs

Entrées

Sonde thermocouple:

Thermocouple externe:

Isolation thermocouple:

Compensation soudure froide:

rupture, inversion et court-circuit:

Entrée:

Impédance d'entrée:

Protection d'entrée:

Stabilité d'ampli:

Plage dynamique:

Taux de réjection en mode commun:

Taux de réjection sur alimentation:

type 'J' mis ou non à la masse la haute impédance d'entrée permet une grande longueur de câble thermocouple isolé par circuit d'alimentation contrôlé automatique, mieux que 0,01 °C/°C

coupe automatiquement l'alimentation des éléments chauffants, sauf si le mode de maintien automatique de chauffe est choisi
potentiométrique
22 Megohms
à diode et filtre RC
0,01 °C/°C
550 °C
meilleur que 100 dB
meilleur que 90 dB

Sorties

Tension de sortie:

Interrupteur de sortie:

Protection de surcharge:

15 Amp.: 15 Amp., 3600 Watts @ 240 VAC / 30 Amp.: 30 Amp., 7200 Watts @ 240 VAC
intégré, triac état solide, déclenchement pulsé et commutation à zéro
15 Amp.: fusibles aux deux pôles de la ligne d'alimentation
30 Amp.: disjoncteur rapide

Protection courants induits:

Isolation de la ligne:

filtrage $\Delta v/\Delta t$ et courants transitoires circuits isolés jusqu'à 2500 VAC par transformateur et opto-coupleur

Contrôles et indicateurs

Contrôle de mise au point:

Contrôle manuel:

Sélection Auto/Manuel:

Interrupteur général:

Choix de la consigne:

Choix de puissance:

Affichage:

Indication Smart Start®:

Indication C°/F°:

Indication de fusibles sautés:

Thermocouple en court circuit:

Sortie en court circuit:

Thermocouple déconnecté:

Sortie déconnectée:

Thermocouple branché à l'envers:

Mise à la masse fautive:

Ecart de température:

par boutons poussoirs, plage 0-537°C et précision de 1°C
par boutons poussoirs 0-99% et précision 1%
bouton poussoir et voyant lumineux interrupteur à bascule agréé pour 15 Amp ou disjoncteur (30 Amp) approuvé VDE
par bouton poussoir et voyant lumineux par bouton poussoir et voyant lumineux 3 chiffres - diodes lumineuses à 7 segments
voyant lumineux en haut de l'écran diodes allumées indique le mode °C
2 lampes au néon (15 Amp)
'Shi' apparaît en alternance avec l'affichage normal. L'alimentation du chauffage s'interrompt automatiquement
'ShO' apparaît en alternance avec l'affichage normal
'oPI' apparaît en alternance avec l'affichage normal et l'alimentation du chauffage s'interrompt
'oPO' apparaît en alternance display
'bcl' apparaît en alternance et l'alimentation du chauffage s'interrompt
'GFI' apparaît en alternance diodes lumineuses séparées: ±11 °C (rouge), ±5 °C (jaune), 0 °C = (vert)

Alimentation

Tension d'entrée:

Fréquence:

Courant continu:

Consommation propre:

Dimensions:

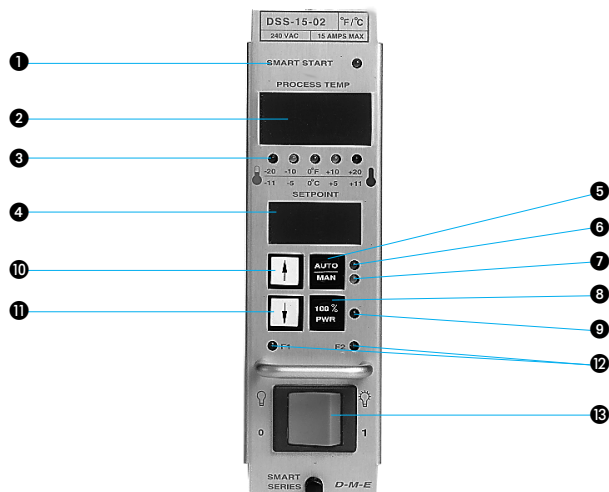
Fusibles:

240 VAC + 10%-20%
50/60 Hz
production interne, stabilisé et compensé
Moins de 5 Watt
15 Amp.: La 5,08 x H 17,78 x P 19,05 cm
30 Amp.: La 10,06 x H 17,78 x P 19,05 cm
15 Amp.: (2) ABC-15 fusibles (2 fusibles sont livrés avec le module)
30 Amp.: disjoncteur rapide

REF.	Amp	Watt	REF.	Amp	Watt
CSS-15-02	15	3600	CSS-30-02	30	7200

DSS-15-02 / DSS-30-02

Modules de régulation à microprocesseur - régulation PID,



- 1 LED (diode lumineuse) de mode pré-chauffage Smart Start®
- 2 Température de l'élément contrôlé
- 3 LED indicatrice d'écart par rapport à la consigne
- 4 Consigne
- 5 Basculeur du mode 'Auto' à 'Manuel'
- 6 LED du mode 'Auto'
- 7 LED du mode 'Manuel'
- 8 Bouton délivrant 100% de la puissance disponible
- 9 LED du mode '100%'
- 10 Bouton de réglage pour l'augmentation de la valeur de la consigne
- 11 Bouton de réglage pour la diminution de la valeur de la consigne
- 12 LED indicatrices des fusibles F1/F2
- 13 Interrupteur du module

Spécifications techniques

Contrôle mode manuel/automatique: proportionnel au temps des cycles Sélectifs®

Echelle de température: de la température ambiante jusqu'à 537°C

Précision du contrôle: $\pm 0,5^\circ\text{C}$ dépendant du système thermique complet

Calibrage - précision: supérieur à 0,2% de l'échelle entière

Contrôle manuel: réglage de 0-100%. Stable à 1% près

Smart Start®: échauffement linéaire jusqu'au point de consigne 5 minutes maximum

Arrêt du Smart Start®: 124 °C

Mode 100% de puissance: donne 100% de puissance à la sortie un pontage permet les options suivantes S = 15 S = 30 sec.

Priorité du mode d'opération:

- Smart Start® passe avant le mode automatique
- une rupture, une inversion ou un court-circuit du TC a priorité sur SS et 'Auto'
- le contrôle manuel a priorité sur 'Auto' et sur rupture, inversion ou court-circuit TC
- la sortie est bloquée dès qu'un code de faute apparaît

Entrées

Sonde thermocouple: type 'J' mis ou non à la masse

Résistance TC externe: moins que $0,05^\circ\text{C}/\Omega$

Isolation thermocouple: isolé par circuit d'alimentation contrôlé

Compensation soudure froide: automatique, mieux que $0,015^\circ\text{C}/^\circ\text{C}$

Protection contre inversion rupture ou court circuit TC: coupe automatiquement la puissance de chauffe, sauf si le mode de maintien automatique de chauffe est choisi

Impédance d'entrée: 5,6 Megohms

Stabilité d'ampli: supérieure à $0,01^\circ\text{C}/^\circ\text{C}$

Taux de réjection en mode commun: meilleur que 120 dB

Taux de réjection sur alimentation: meilleur que 110 dB

Sorties:

Tension et puissance: 15 Amp.: 15 Amp., 3600 Watts @ 240 VAC / 30 Amp.: 30 Amp., 7200 Watts @ 240 VAC

Interrupteur de sortie: intégré. Triac état solide, déclenchement pulsé et commutation à zéro

Protection de surcharge: 15 Amp.: fusibles aux deux pôles de la ligne secteur d'alimentation
30 Amp.: disjoncteur rapide

Protection courants induits: filtrage $\Delta v/\Delta t$ et courants transitoires

Isolation de la ligne: circuits isolés jusqu'à 2500 VAC par transformateur d'alimentation: et par système opto-coupleur des lignes de courant alternatif

Contrôles et indicateurs

Contrôle de mise au point: boutons de réglage pour augmentation/diminution de la consigne

Sélection Auto/Manuel: boutons poussoirs avec diodes lumineuses (LED) adjacentes

Mode 100% de puissance: bouton poussoirs avec LED adjacente

Interrupteur général: interrupteur à bascule agréé 15 Amp

Indication de 100% de puissance: la diode lumineuse (LED) adjacente au poussoir clignote. L'écran de valeur effective affiche 100 et clignote

Indication mode automatique: la LED verte adjacente au sélecteur Auto/Manuel s'illumine

Indication mode manuel: la LED jaune adjacente au sélecteur Auto/Manuel s'illumine

Indication Smart Start®: la LED verte au-dessus de l'écran de valeur effective s'illumine

Indication de fusibles sautés: un indicateur orange pour chaque fusible F1/F2 (15 Amp)

Court circuit de thermocouple: affichage 'Shi'

Rupture de thermocouple: affichage 'oPi'

Inversion de thermocouple: affichage 'bci'

Ecart de température: diodes lumineuses séparées
> $\pm 17^\circ\text{C}$ = rouge clignotant
> $\pm 11^\circ\text{C}$ = rouge
> $\pm 5^\circ\text{C}$ = jaune
0 °C = vert

Alimentation

Tension d'entrée: 240 VAC + 10%/-15%

Fréquence: 50/60 Hz.

Courant continue: production interne, stabilisé et compensé

Consommation propre: moins de 6 Watt

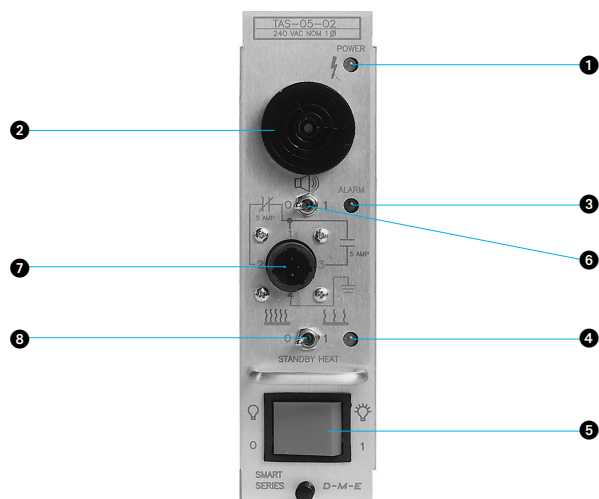
Dimensions: 15 Amp.: La 5,08 x H 17,78 x P 19,05 cm
30 Amp.: La 10,06 x H 17,78 x P 19,05 cm

Fusibles: 15 Amp. (2) fusibles ABC-15 (2 fusibles sont livrés avec le module)
30 Amp.: disjoncteur rapide

REF.	Amp	Watt	REF.	Amp	Watt
DSS-15-02	15	3600	DSS-30-02	30	7200

TAS-05-02

Modules d'alarme et de chauffe de veille avec microprocesseur



- ❶ Indication de mise sous tension
- ❷ Alarme sonore
- ❸ Voyant d'alarme
- ❹ Voyant de chauffe
- ❺ Interrupteur général
- ❻ Interrupteur d'alarme
- ❼ Prise de relais d'alarme
- ❽ Interrupteur de chauffe de veille

Spécifications techniques

Indicateurs de diagnostic: diodes lumineuses (LED) et signal sonore
 Contact du relais: un contact normalement ouvert, un contact normalement fermé. Courant permis 5 Amp.

Caractéristiques d'entrée

Tension d'entrée: 5 VDC requis pour activer l'alarme

Caractéristiques de sortie

Capacité en tension/puissance: 240 VAC nominal, mono-phase
 Protection de surcharge: fusibles sur les 2 lignes AC
 Protection courants induits: $\Delta v/\Delta t$ et courants transitoires
 Isolation de la ligne: circuits isolés jusqu'à 2500 VAC par transformateur et par opto-coupleur des lignes de courant alternatif

Alimentation

Tension d'entrée: 240 VAC +10% -20%
 Fréquence: 50/60 Hz
 Courant continu: production interne, stabilisé et compensé
 Consommation propre: moins de 5 Watts
 Dimensions: La 5,08 x H 17,78 x P 19,05 cm
 Fusibles: (2) ABC-1 fusibles (2 fusibles sont livrés avec le module)

Compatibilité du module TAS

Mode alarme et chauffe: **CSS-15-02, CSS-30-02**
DSS-15-02, DSS-30-02
 Mode alarme seul: **SSMX-15-G, SSMX-30-G**

REF.

TAS-05-02

Volts

240 VAC

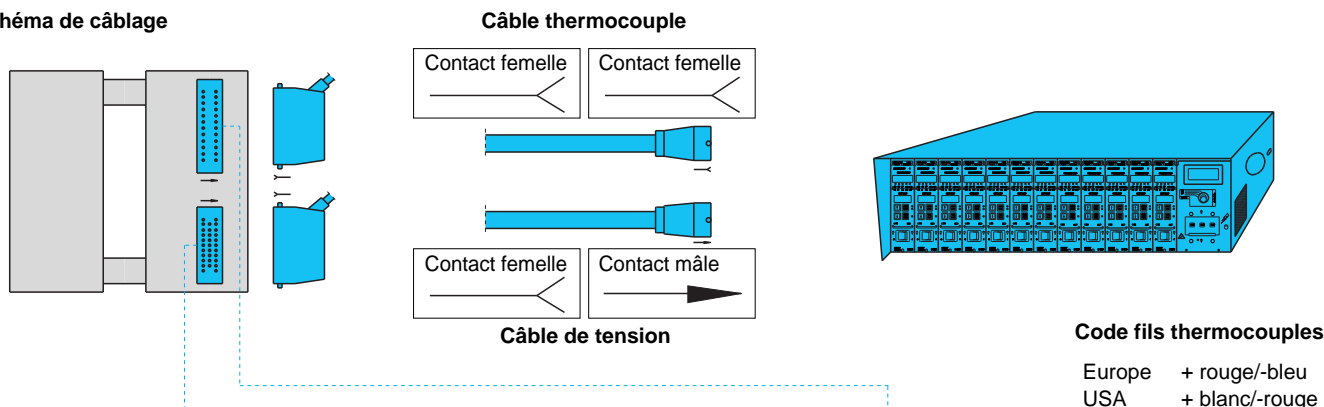
Info

Câblage

Instructions de câblage

1. Les câbles de puissance ne peuvent être allongés qu'avec des connecteurs à sertir (HWCC-1 & HWCC-2) et des câbles de même section (longueur maxi. 8 m).
2. Les fils Fe-Co des thermocouples ne peuvent être allongés qu'avec des fils Fe-Co. En plus de la polarité du câble d'extension (US standard: rouge = négatif; blanc = positif; standard Européen: rouge = positif; bleu = négatif) il faut prendre soin que les fils du thermocouple soient en bon contact avec la jonction du câble.
3. Le connecteur d'entrée de puissance du moule (PIC-24 et PICH-23-G) et le boîtier de montage (PTCX, PICX, PICH) doivent être reliés avec le conducteur de protection au moule.
4. Le câblage doit être conforme au schéma. Veiller à ce que le câblage corresponde à la position des modules.
5. Utiliser un Ohmmètre pour vérifier le fonctionnement de chaque élément chauffant avant de mettre en route le système à Canaux Chauds D-M-E.

Schéma de câblage



Connecteur d'entrée du moule

REF. **PIC-24-G**

Zone Contr. No.

5-zone MF	1	A1, A2
	2	A3, A4
	3	B1, B2
	4	B3, B4
	5	A5, B5
8-zone MF	6	C1, C2
	7	C3, C4
	8	D1, D2
	9	D3, D4
12-zone MF	10	C5, D5
	11	E1, E2
	12	E3, E4

Connecteur thermocouple

REF. **MTC-5-G**

Zone Contr. No.

1	6
2	7
3	8
4	9
5	10

REF. **MTC-8-G**

Zone Contr. No.

1	9
2	10
3	11
4	12
5	13
6	14
7	15
8	16

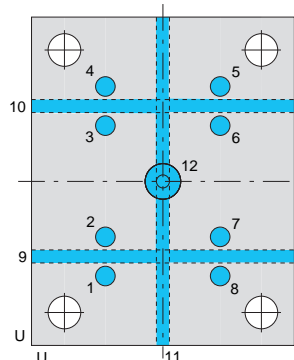
REF. **MTC-12-G**

Zone Contr. No.

1	13
2	14
3	15
4	16
5	17
6	18
7	19
8	20
9	21
10	22
11	23
12	24

Directives pour câblage moule/module/zone

Module/numérotage de zone



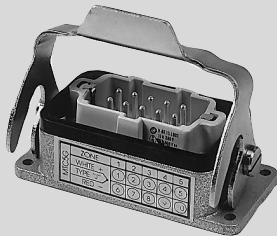
Guide pour le numérotage des zones

La zone numéro 2 correspond à la busette la plus proche du coin 'U'. Celui-ci est poinçonné dans le moule et indique la position de la colonne de guidage batarde. Le numérotage des autres busettes va dans l'ordre le plus logique (sens des aiguilles d'une montre). Les alésages de distribution viennent ensuite et celui le plus proche du coin 'U', prend le numéro suivant. Le restant des forages de distribution est numéroté en se basant sur les niveaux différents avec celui de l'adaptateur chauffant en dernier.

Accessoires thermocouples

MTC

Prises pour thermocouple



REF.	Zones
MTC- 5-G	5
MTC- 8-G	8
MTC-12-G	12

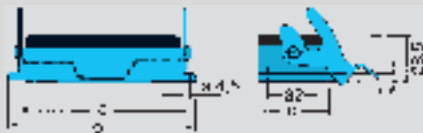
Pièces de rechange

C 146 10 F

Embases



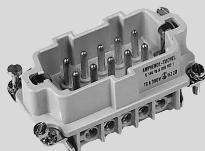
Fe-Co



REF.	a	b	c	Cont.
C 146 10 F 010 0011	83	93	43	10+
C 146 10 F 016 0011	103	113	43	16+
C 146 10 F 024 0011	130	140	43	24+

C 146 10 A

Prises mâles



REF.	a	b	c	Cont.
C 146 10 A 010 1021	57	64	34	10+
C 146 10 A 016 1021	77,5	84,5	34	16+
C 146 10 A 024 1021	104	111	34	24+

Identification

Boîtiers entrée verticale (sans vue)

Câbles thermocouples (sans vue)

TC

Câbles thermocouples



REF.	Zones	Longueur de câble
TC- 5-4,5-G	5	4,5 m
TC- 8-4,5-G	8	4,5 m
TC-12-4,5-G	12	4,5 m

Pièces de rechange

C 146 10 G

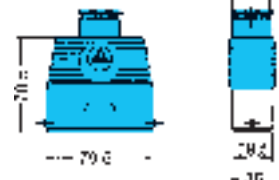
1 Boîtiers entrée longitudinale



REF.	a	b	c	Cont.
C 146 10 G 010 1061	51	73	43	10+
C 146 10 G 016 1061	61	93	43	16+
C 146 10 G 024 1061	61	119,5	43	24+

C 146 10 G

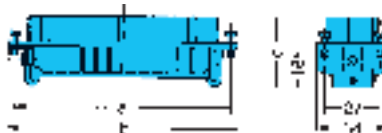
2 Boîtiers entrée verticale



REF.
C 146 10 G 025 2002

C 146 10 B

1 Prises femelles



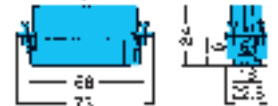
REF.	a	b	c	Cont.
C 146 10 B 010 1021	57	64	34	10+
C 146 10 B 016 1021	77,5	84,5	34	16+
C 146 10 B 024 1021	104	111	34	24+

a	b	c	Contacts
47	73	43	10+
47	73	43	16+
62	119,5	43	24+

16 pôles 0,5 mm² (Fe Co)
24 pôles 0,5 mm² (Fe Co)

C 146 10 B

2 Prises femelles (sans contacts)



REF.
C 146 10 B 025 0002

VN 02

Contacts femelles



REF.
VN 02

REF.
C 146 10 G 010 2061
C 146 10 G 016 2061
C 146 10 G 024 2061
Oe 16 - 0,5 Fe-Co....m
Oe 24 - 0,5 Fe-Co....m

Accessoires pour alimentation de puissance

PIC - PICH

Prises de courant (moule)

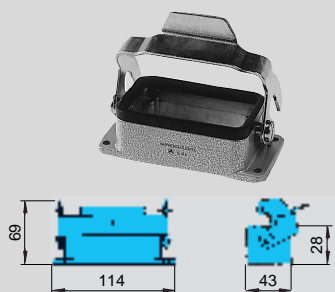


REF.	Amp.
PIC -24-G	15
PICH-23-G	30
PICH- 5-G	30

Pièces de rechange pour PIC-24-G

C 146 10 F

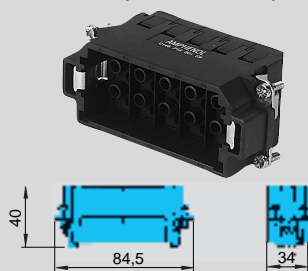
Embases



REF.
C 146 10 F BA 24 P

C 146 10 A

Prises mâles (sans contacts)



REF.
C 146 10 A 2416

VN 01

Contacts mâles



REF.
VN 01 - 2416

MPC - MPCH

Câble de tension (moule)

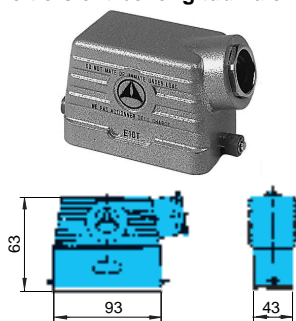


REF.	Amp.	Longueur câble	REF.	Longueur câble	Mâle	Femelle
MPC -24-4,5-G	15	4,5 m	MPC-2524	0,5 m	24	25
MPCH-23-4,5-G	30	4,5 m	MPC-2425	0,5 m	25	24
MPCH- 5-4,5-G	30	4,5 m				

Pièces de rechange pour MPC-24-4,5-G

C 146 10 G

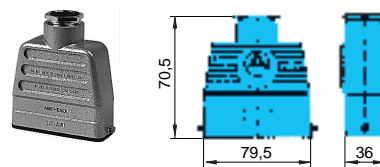
1 Boîtiers entrée longitudinale



REF.
C 146 10 G HL 24 P

C 146 10 G

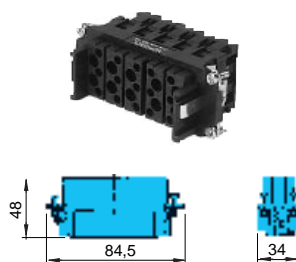
2 Boîtiers entrée verticale



REF.
C 146 10 G 025 2002

C 146 10 B

1 Prises femelles (sans contacts)



REF.
C 146 10 B 2416

VN 02

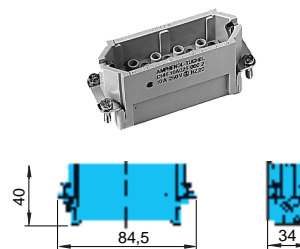
1 Contacts femelles



REF.
VN 02 - 2416

C 146 10 A

2 Prises mâles (sans contacts)



REF.
C 146 10 A 025 0002

VN 01

2 Contacts mâles



REF.
VN 01

Câbles de tension (1,5 mm², 25 pôles) sans vue

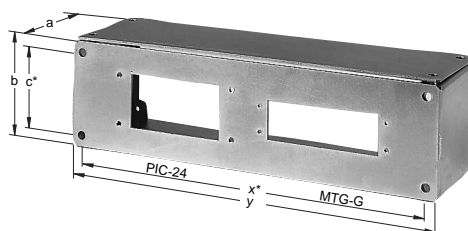
REF.
Oe-25-1,5... m

Systèmes de moulage - Régulation de température

Boîtiers de raccordement

PTCX

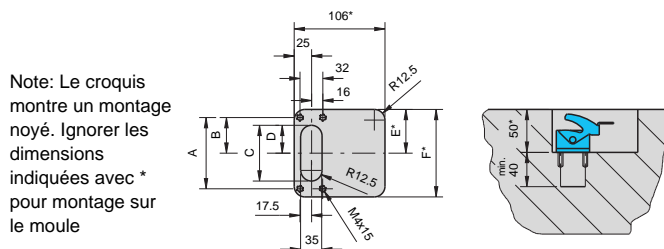
Boîtiers de raccordement pour prises de courant et thermocouple



* Entraxe des vis de fixation M5 x 15

REF.	a	b	c	x	y	Possibilités d'installer
PTCX- 5 K	70	70	55	243	258	PIC-24-G/MTC- 5-G
PTCX- 8 K						PIC-24-G/MTC- 8-G
PTCX-12 K						PIC-24-G/MTC-12-G

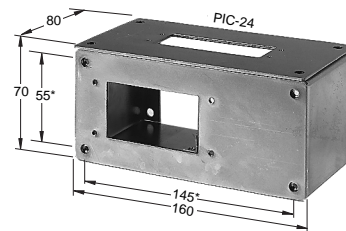
Usage du logement pour prises thermocouples MTC-...-G



Dimensions	Pour prise		
	MTC-5-G	MTC-8-G	MTC-12-G
A	83	103	130
B	41,5	51,5	65
C	65	85	112
D	32,5	42,5	56
E	51	61	74,5
F	102	122	149

PICX

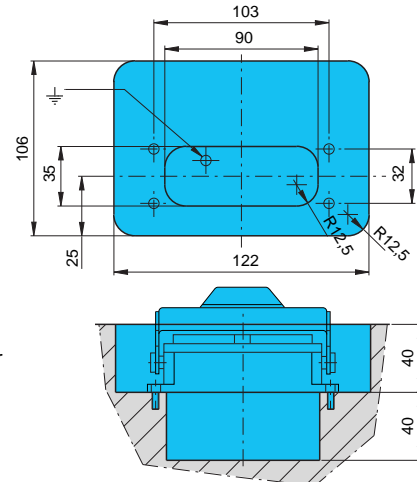
Boîtiers de raccordement pour prises de courant et thermocouple



* Entraxe des vis de fixation M5 x 15

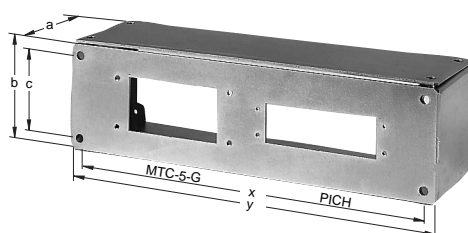
REF.	Possibilités d'installer
PICX-24- 5 K	PIC-24-G/MTC- 5-G
PICX-24- 8 K	PIC-24-G/MTC- 8-G
PICX-24-12 K	PIC-24-G/MTC-12-G

Usage du logement pour prises de courant PIC-24-G



PICH

Usage du logement pour prise thermocouple MTC



REF.	a	b	c	x	y	Pour
PICH-23-TB-G	108	113	82	251	267	PICH-23-G/MTC-5-G
PICH- 5-TB-G				265	281	PICH- 5-G/MTC-5-G

Pièces de rechange modules

ABC

Fusibles pour modules SSMX, CSS, DSS et TAS

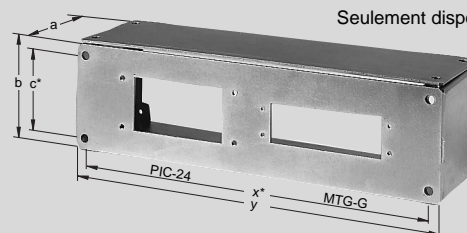


REF.	Amp.
ABC- 1	1
ABC- 5	5
ABC-10	10
ABC-15	15
ABC-30	30

PTC

Boîtiers de raccordement pour prises de courant et thermocouple

Seulement disponible en G.B.



* Entraxe des vis de fixation M5 x 15

REF.	a	b	c	x	y	Possibilités d'installer
PTC- 5-TB-G	105	60	38	205	220	PIC- 5-G/MTC- 5-G
PTC- 8-TB-G				225	240	PIC- 8-G/MTC- 8-G
PTC-12-TB-G				253	265	PIC-12-G/MTC-12-G

Pièces de rechange armoires

MFBP

Panneaux pleins



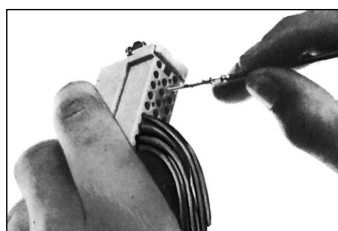
REF.
MFBP-10-G
MFBP-30-G

Systèmes de moulage - Régulation de température

Outils de montage

FG

Outils de démontage des contacts VN-01 et VN-02



Le montage se fait par l'arrière

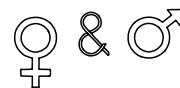
Le verrouillage des contacts est perceptible

Vérifier le jeu (ca 0,2 mm)

Le démontage se fait par l'avant

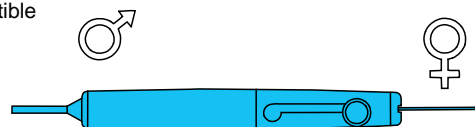
Contacts femelles

Contacts mâles



FGN 2416

Pour VN01 2416/VN02 2416



FG 0300-146

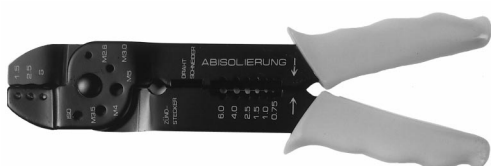


Pour VN01/VN02

REF.	REF.
FG 0300-146	FGN 2416

950

Pincettes à sertir



HWCC

Cosses à sertir



REF.	Pour	REF.
950 001.4	HWCC-1	HWCC-1 (Cool-one)
		HWCC-2 (Cool-one)
		HWCC-5 (Hot-one)

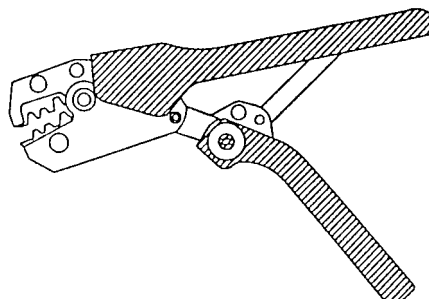
FA

Pincettes à sertir



FAN

Contacts femelles et contacts mâles



REF.	Pour	REF.	Pour
FA 0100-164	VN 01	FAN 2416	VN 01 2416
	VN 02		VN 02 2416

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C*	9 -11
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DC*	9 - 7
E*	9 -11
Formica*	9 - 7
FTM	9 - 2
G*	9 -11
Hard Maple*	9 - 7
J*	9 -11
MFK	9 -5/ 9 - 6
P*	9 -11
PB*	9 -10
PRB*	9 -10
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RV	9 - 4
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Z 9007	9 - 4
Z 9852	9 - 4
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* Only for UK

STM

♥ Silicon mold release agent '33'

♦ Silikontrennmittel '33'

♣ Lossingsmiddel '33' met siliconen

♠ Agent de démoulage '33' au silicone



REF.	
STM-33	400 ml

♥ Silicon mold release agent '33'

Ideal for both plastics and rubber. This mold release agent is unaffected by temperatures required for the molding of currently used materials and is most effective for a large amount of injection cycles.

It also gives a protective coating to the cavity surfaces during the releasing process. Filled with propellant gas (butane-propane) without danger to the environment.

♦ Silikontrennmittel '33'

Besonders geeignet zum Entformen von Teilen aus Kunststoffen und Gummi. Ein einmaliges Einsprühen genügt um eine große Anzahl von Teilen problemlos von der Form zu trennen. Außerdem wird die Formenoberfläche wirksam beim Trennvorgang geschützt. Kann bei jeder Temperatur verwendet werden. Abgefüllt mit umweltfreundlichem Treibgas (Butangas-Propan-gas)

♣ Lossingsmiddel '33' met siliconen

Speciaal geschikt voor kunststof en rubber. Een éénmalig inbrengen van dit lossingsmiddel volstaat om een groot aantal produkten probleemloos uit de vorm te verwijderen bij de meest courante temperaturen.

Bovendien worden de gereedschapsoppervlakken beschermd tijdens het lossingsproces. Gevuld met milieuvriendelijk drijfgas (butaan-propaan). Niet geschikt voor de voedingswaren-industrie.

♠ Agent de démoulage '33' au silicone

Convient particulièrement pour les matières plastiques et le caoutchouc. Une seule application de cet agent de démoulage suffit pour démouler sans problème une grande quantité de produits moulés.

De plus, la surface du moule est efficacement protégée pendant la phase de démoulage. Peut être utilisé à toutes les températures.

FTM

♥ Mold release agent '22' silicon-free

♦ Formtrennmittel Silikonfrei '22'

♣ Lossingsmiddel '22' siliconenvrij

♠ Agent de démoulage '22' sans silicone



REF.	
FTM-22	400 ml

♥ Mold release agent '22' silicon-free

This mold release agent ensures free removal of the molded parts and at the same time gives an optimal surface quality to the molding whether it be injection or compression molded or vacuum formed.

Due to its lubricating properties this agent gives a protective film to the cavity surfaces. Filled with propellant gas (butane-propane) without danger to the environment.

♦ Formtrennmittel Silikonfrei '22'

Dieses Spray garantiert beim Spritzen, Pressen, Vakuumverformen u.a. eine einwandfreie Entformung und beste Oberfläche. Da es gleichzeitig eine gute Schmierwirkung aufweist, bietet es Schonung und Schutz für die Werkzeuge. Teile können bedruckt, lackiert, metallisiert und verklebt werden. Abgefüllt mit umweltfreundlichem Treibgas (Butangas-Propangas).

♣ Lossingsmiddel '22' siliconenvrij

Tijdens het spuitgieten, persen, vacuümvormen, en bij andere methoden garandeert dit lossingsmiddel een probleemloos verwijderen van het produkt uit de matrijs en geeft het tegelijkertijd een onberispelijk oppervlak.

Daar dit lossingsmiddel ook de eigenschappen van smeermiddel bezit, beschermt het eveneens de gereedschappen.

Het produkt kan later bedrukt, gelakt, gemetalliseerd of gekleefd worden. Verpakt in spuitbus-sen met milieuvriendelijk drijfgas (butaan-propaan). Geschikt voor de voedingswarenindustrie.

♠ Agent de démoulage '22' sans silicone

Lors du démoulage par injection, à la presse, sous vide et pour d'autres procédés, cet agent de démoulage garantit à la fois un démoulage impeccable et un état de surface optimal. De plus, ses propriétés lubrifiantes assurent la protection des outillages. Les produits ainsi démoulés peuvent être imprimés, vernis, métallisés et collés.

CLE

- ♥ Mold cleaner
- ♦ Formenreiniger
- ♣ Schoonmaakmiddel voor gereedschappen
- ♠ Nettoyant pour moule



♥ Mold cleaner

Mold cleaner is used to remove corrosion forming substances such as lactic acid, urea and sodium chloride, which are common in perspiration residues left by ordinary handling of polished cavities. In addition to cleaning the polished cavity it also provides up to 20 days rust protection at temperatures to 45 °C at 100 % humidity.

REF.	Description
CLE 0001	Can with trigger pump - 425 gr
CLE 0012	Case of 12 cans (425 gr) without trigger pump
CLE 0009	Can without trigger pump - 425 gr

♦ Formenreiniger

Zum Entfernen korrodierter Substanzen wie z. B. Fingerabdrücke, die meistens Milchsäure, Harnstoff, Chlornatrium etc. enthalten. Zusätzlich bietet dieses Spray für etwa 20 Tage einen guten Rostschutz bei Temperaturen bis zu 45 °C und 100 % Luftfeuchtigkeit.

REF.	Beschreibung
CLE 0001	Spray mit Handpumpe - 425 gr
CLE 0012	Dose mit 12 Sprays (425 gr) ohne Handpumpe
CLE 0009	Spray ohne Handpumpe - 425 gr

♣ Schoonmaakmiddel voor gereedschappen

Bijzonder geschikt voor het verwijderen van ge corrodeerde substanties zoals bvb. vinger-afdrukken die meestal melkzuur, ereum, natriumchlor enz. bevatten. Bovendien biedt deze spray een goede roestwerende bescherming gedurende ongeveer 20 dagen bij temperaturen tot 45 °C en een vochtigheidsgraad van 100 %.

REF.	Beschrijving
CLE 0001	Spuitbus met handpomp - 425 gr
CLE 0012	Doos met 12 spuitbussen (425 gr) zonder handpomp
CLE 0009	Spuitbus zonder handpomp - 425 gr

♠ Nettoyant pour moule

Particulièrement approprié pour l'élimination de substances corrosives, par exemple celles qui sont fréquemment contenues dans les traces de doigts, telles qu'acide lactique, urée, chlorure de soude etc. De plus, cet atomiseur procure une bonne protection anti-rouille pour environ 20 jours à une humidité relative de 100 % et à des températures allant jusqu'à 45 °C.

REF.	Description
CLE 0001	Bombe fournie avec pompe à main - 425 gr
CLE 0012	Boîte de 12 bombes (425 gr) sans pompe à main
CLE 0009	Bombe sans pompe à main - 425 gr

SAV

- ♥ Mold saver
- ♦ Formenkonservierer
- ♣ Beschermmiddel voor gereedschappen
- ♠ Protecteur pour moule



♥ Mold saver

Mold saver is an ideal protective coating for molds to be stored over a long period of time. It protects polished cavities and all metal parts from costly corrosion. Its thin, transparent film averages about 1/100 mm thickness. It is soft, dry and waxy and can be easily wiped off without solvents. One can of mold saver covers about 7,5 m².

REF.	Description
SAV 0001	Can with trigger pump - 425 gr
SAV 0012	Case of 12 cans (425 gr) without trigger pump
SAV 0009	Can without trigger pump - 425 gr

♦ Formenkonservierer

Durch seine Langzeitwirkung werden Formen über einen erheblichen Zeitraum während der Lagerung vor Rostbefall wirksam geschützt. Der hauchdünne Schutzfilm (ca. 1/100 mm) ist transparent, weich, trocken und wachssähnlich. Er läßt sich ohne Lösungsmittel leicht entfernen. Doseninhalt reicht für ca. 7,5 m².

REF.	Beschreibung
SAV 0001	Spray mit Handpumpe - 425 gr
SAV 0012	Dose mit 12 Sprays (425 gr) ohne Handpumpe
SAV 0009	Spray ohne Handpumpe - 425 gr

♣ Beschermmiddel voor gereedschappen

De gereedschappen worden lange tijd beschermd tegen roest door de langdurige werking. De zeer dunne beschermfilm (ca. 1/100 mm) is transparant, zacht, droog en wasachtig. Deze bescherm laag laat zich gemakkelijk zonder oplosmiddel verwijderen. De inhoud van de spuitbus volstaat voor ongeveer 7,5 m².

REF.	Beschrijving
SAV 0001	Spuitbus met handpomp - 425 gr
SAV 0012	Doos met 12 spuitbussen (425 gr) zonder handpomp
SAV 0009	Spuitbus zonder handpomp - 425 g

♠ Protecteur pour moule

Grâce à l'action prolongée de ce produit, les moules sont activement protégés contre la formation de rouille pour un temps considérable. Le film protecteur très mince (environ 1/100 mm) est transparent, mou, sec et onctueux. On peut l'enlever sans aucun solvant. Le contenu d'un flacon permet de couvrir environ 7,5 m².

REF.	Description
SAV 0001	Bombe fournie avec pompe à main - 425 gr
SAV 0012	Boîte de 12 bombes (425 gr) sans pompe à main
SAV 0009	Bombe sans pompe à main - 425 gr

SAV



- ♥ Trigger pumps
- ♦ Handpumpen
- ♣ Handpompen
- ♠ Pompes à main

REF.	Pcs/St
SAV 0003	6

RV

- ♥ Mold Saver '88'
- ♦ Rostverhinderer '88'
- ♣ Anti-roest '88'
- ♠ Atomiseur anti-rouille '88'



REF.	
RV-88	400 ml

Z 9852

- ♥ High performance oil
- ♦ Hochleistungsöl
- ♣ Olie met diepgaande werking
- ♠ Huile haute performance



REF.	
Z-9852	400 ml

Z 9007

- ♥ High performance grease
- ♦ Hochleistungsfett
- ♣ Vet met diepgaande werking
- ♠ Graisse haute performance



REF.	
Z-9007	100 cm³

♥ Mold Saver '88'

Suitable for injection molds and diecasting dies. Saver '88' protects all steel materials from rust and should always be considered for the protection of expensive molds. The protective layer can easily be removed by means of a solvent. Filled with propellant gas (butane-propane) without danger to the environment.

♦ Rostverhinderer '88'

Entwickelt für Kunststoff- und Druckgießformen. Verhindert auf lange Zeit Rostbildung bei allen Metallen. Teuere Werkzeuge werden so hochwirksam und zuverlässig geschützt. Mittels herkömmlicher Lösungsmittel, läßt sich die Schutzschicht mühelos entfernen. Abgefüllt mit umweltfreundlichem Treibgas (Butangas-Propangas).

♣ Anti-roest '88'

Geschikt voor kunststof- en drukgietsgereedschappen. Anti-roestbescherming van alle metalen. Vooral voor duurdere gereedschappen is Anti-roest '88' een betrouwbaar beschermmiddel. Door middel van een gebruikelijk oplosmiddel kan de bescherm laag verwijderd worden. Gevuld met milieuvriendelijk drijfgas (butaan-propaan).

♠ Atomiseur anti-rouille '88'

Convient pour les moules pour plastiques et pour la coulée sous pression. Assure la protection anti-rouille prolongée de tous les métaux. Les outillages coûteux sont ainsi protégés efficacement. La couche protectrice peut être enlevée au moyen d'un solvant approprié.

♥ High performance oil

This high performance oil with molybdenum disulfide has the appropriate viscosity and composition for close fit tolerance motion. The molybdenum additive reduces friction and builds up a protective layer with outstanding emergency running properties. Application: lubrication of 'ball' and other bushings etc. Filled with propellant gas (butane-propane) without danger to the environment.

♦ Hochleistungsöl

Das Hochleistungs-Öl mit Molybdän-Disulfid- Zusatz ist in seiner Viskosität und Zusammensetzung besonders für hochbeanspruchte enge Bewegungssitze geeignet. Der Molybdän-Zusatz wirkt reibungsmildernd und bildet Lagerpanzerung mit hervorragenden Notlaufeigenschaften. Anwendungsgebiete: Schmierung von Säulengestellen mit Gleitführung usw. Abgefüllt mit umweltfreundlichem Treibgas (Butangas-Propangas).

♣ Olie met diepgaande werking

Deze olie bevat molybdeen disulfide en bezit een aangepaste viscositeit en samenstelling. Vooral geschikt voor het smeren van bewegende delen met een zeer nauwkeurige tolerantie. Het toegevoegd molybdeen vermindert wrijving en beschermt tegen vreemde bestanddelen. Gevuld met milieuvriendelijk drijfgas (butaan-propaan). Toepassing: smeren van kogelbussen, geleide pennen en bussen.

♠ Huile haute performance

L'huile 'haute performance' au bisulfure de molybdène possède la composition et la viscosité appropriées aux tolérances serrées des mécanismes de précision. L'additif au molybdène réduit le frottement et constitue une couche protectrice particulièrement utile dans les cas critiques. Gas propulseur écologique (Butane-propane). Application: lubrifiant pour bagues à billes, colonnes et douilles de guidage.

♥ High performance grease

Strong adhesion qualities under very high stress. This gives excellent protection of the bearing surfaces against 'stick-slip'. Punches and dies, pins, bushings, wedges and shearing pins, thread cutting, reaming, milling, drilling etc. The high performance grease can also be injected with a high pressure dispenser.

♦ Hochleistungsfett

Großes Haftvermögen bei sehr hoher Flächenpressung. Dadurch optimaler Schutz der Lagerstellen (Bewegungs- und Festsitze) gegen 'Fressen'. Anwendungsgebiete: Durchtreiben von Stempeln durch Matrizen, Einpressen von Säulen, Buchsen, Zylinderstiften, Keilen usw. Räumen, Gewindeschneiden, Fräsen und Bohren usw. Hochleistungsfett kann auch mittels Hochdruckstoßpresse eingepreßt werden.

♣ Vet met diepgaande werking

Groot kleefvermogen bij zeer hoge spanningen. Excellente bescherming tegen invreten van de lageroppervlakken. Toepassing: Ponsnippels, stempels, pennen, bussen, schuiven en schuifpennen, schroefdraad snijden, frezen en boren enz.. Het vet kan ook door middel van een persluchtverdeler aangebracht worden.

♠ Graisse haute performance

Remarquables qualités d'adhésion sous contraintes très élevées. Ceci procure une excellente protection des surfaces portantes contre le 'stick-slip'. Application: Matrices et poinçons, colonnes et douilles de guidage, coins et clavettes, filetage, alésage, fraisage, forage etc. La graisse haute performance peut également être injectée au moyen d'un applicateur haute pression.

MFK

♥ Mold Finish comparison Kit

- ♦ Vergleichs-Set für die Formenoberfläche
- ♣ Vergelijingsset voor matrijsafwerking
- ♠ Coffret d'échantillon de comparaison des états de surface de moule



REF.
MFK-1200

♥ Mold Finish comparison Kit

Expanded version – 12 samples finished to SPI standards

- Eliminates errors or guesswork in achieving desired or specified finishes
- Saves time by eliminating over-polishing
- Provides a visual and numerical standard for specifying mold/part finishes

Professionally finished to SPI standards, this kit is an invaluable tool for both selection of finishes required and comparison to work in progress. The visual and numerical standards are also helpful in communications between end user, molder and moldmaker.

Each finish has been generated on a 25 mm diameter x 9 mm thick piece of H13 steel. Edges are chamfered and the outside diameter is knurled for safe, easy pick-up and handling.

Finish numbers are stamped on the back of each sample for quick reference. A molded plaque in the kit's lid shows the part finishes that result from each mold finish.

♦ Vergleichs-Set für die Formenoberfläche

Erweiterte Version – 12 Muster nach SPI-Standards gefertigt.

- Eliminiert Fehler oder Unklarheiten bei speziell gewünschten und spezifizierten Oberflächen.
- Spart Zeit, indem Überpolierung vermieden wird.
- Gibt Standards visuell und numerisch vor, um die Oberfläche der Form oder des Teiles zu spezifizieren.

Dieses Set ist professionell nach SPI-Standards gefertigt und ist ein unverzichtbares Werkzeug für die Auswahl der Oberfläche und den Vergleich und die Verbesserung der bearbeiteten Fläche. Die visuellen und numerischen Standards sind auch hilfreich für die Kommunikation zwischen Anwender und Formenbauer.

Jede Oberflächenbearbeitung wurde auf einem H13-Stahlstück mit 25 mm Durchmesser und 9 mm Stärke vorgenommen. Die Kanten sind abgefast und der Außendurchmesser ist aus Sicherheitsgründen gerändelt.

Die Oberflächen-Nummer ist in die Rückseite von jedem Muster geprägt, um einen schnellen Bezug zu erhalten. Eine Plakette im Deckel des Sets zeigt das gefertigte Teil, das jeweils aus der Form mit entsprechender Oberflächenbehandlung entsteht.

♣ Vergelijingsset voor matrijsafwerking

Een uitgebreid gamma - 12 afwerkingsvoorbeelden naar SPI normen

- Met de genormaliseerde D-M-E vergelijingsset kiest men probleemloos de geschikte of gewenste matrijsoppervlakte-afwerking.
- De D-M-E vergelijingsset biedt een visuele en numerieke referentie bij het definiëren van de matrijs- en produktafwerkingsgraad.

De vergelijingsset helpt bij de selectie en de vergelijking van de gewenste oppervlakte-afwerking. Deze visuele en numerieke referentie vereenvoudigt de samenwerking tussen matrijsmaker en opdrachtgever.

Elke afwerkingsgraad is weergegeven in de vorm van een uit H13 vervaardigd stalen schijfje met een diameter van 25 mm en een hoogte van 9 mm. De boorden zijn afgeschuind en voorzien van een kartelrand wat het opnemen vergemakkelijkt en veilig maakt.

Op de achterkant van de stalen schijfjes is de referentie gegraveerd. Een plaat in ABS visualiseert de afwerkingsgraad van elk voorbeeld.

♠ Coffret d'échantillon de comparaison des états de surface de moule

Gamme étendue – 12 exemples de finition au standard SPI.

- Ce coffret élimine les erreurs sur les états de surface demandés en offrant une référence normalisée.
- Ce coffret élimine les coûts d'une finition non requise.
- Il fournit une référence visuelle et numérique pour définir l'état de finition du moule et de la pièce.
- Présenté selon le standard SPI, ce coffret est un outil de sélection et de comparaison des états de surface requis ce qui accroît la qualité dans l'exécution des ordres.

Cette référence visuelle et numérique permet une communication à distance entre le mouliste et le donneur d'ordres. Chaque étalon en acier H13 traité se présente sous la forme d'une pastille de diamètre de 25 mm et de hauteur de 9 mm environ, les bords sont chanfreinés. Un moletage assure la sécurité de la prise en main.

La référence est gravée au dos de chaque étalon. Une plaque en ABS injectée permet de visualiser l'état de surface résultant de chaque étalon.

MFK

♣ Finish type ♦ Oberflächen- bezeichnung ♣ Afwerkingsgraad ♠ Type de finition	♥ Description ♦ Beschreibung ♣ Beschrijving ♠ Description	♥ Roughness average ♣ Gemiddelde ruwheid	♦ Mittelwert Rauigkeit ♠ Rugosité moyenne	♥ Comments ♦ Kommentare ♣ Opmerkingen ♠ Commentaires
		♥ Micro-inches ♦ Micro-Zoll ♣ Micro-duim ♠ Micro pouces	♥ Micron ♦ Mikron ♣ Micron ♠ Micron	
A1	♥ Grade 3 diamond buff ♦ Diamantpolitur grad 3 ♣ Diamant polijststaaf korrelgraad 3 ♠ Polissage diamant grade 3	0-1	0-0,025	♥ • For mirror or optical finishes • Most time consuming and costly finishes to achieve • Steel grade important to results (Steel DME 6 and DME 7 recommended) ♦ • Für Spiegel oder Oberflächenbearbeitungen für die Optik • Zeit- und Kostenaufwendige Oberflächenbearbeitung • Stahlsorte ist wichtig für die Ergebnisse (Stahl DME 6 und DME 7 wird empfohlen) ♣ • Voor ultrafijne en optische afwerkingen • Duurste afwerkingsgraad • De staalkeuze is bepalend voor het resultaat (Staal DME 6 en 7 wordt aanbevolen) ♠ • Finition polie optique et miroir • Etat de finition le plus coûteux • Choix de l'acier déterminant (Acier DME 6 et 7 sont recommandés)
A2	♥ Grade 6 diamond buff ♦ Diamantpolitur grad 6 ♣ Diamant polijststaaf korrelgraad 6 ♠ Polissage diamant grade 6	1-2	0,025-0,05	♥ • Removes all tool and machining marks • Provides good mold release • Light reflecting finish on molded part, some sheen ♦ • Entfernt alle Spuren des Werkzeuges und der Bearbeitung • Ermöglicht eine gute Ablösung von der Form • Für Spiegelungen an der Oberfläche der gefertigten Teile ♣ • Verwijderd alle gereedschap- en machinesporen • Goede produktlossing • Reflektierend produktoppervlak, glanzend ♠ • Enlèvement de toutes les traces d'outils • Démoulage facile • Surfaces réfléchissantes sur les pièces moulées; aspect luisant
A3	♥ Grade 15 diamond buff ♦ Diamantpolitur grad 15 ♣ Diamant polijststaaf korrelgraad 15 ♠ Polissage diamant grade 15	2-3	0,05-0,076	
B1	♥ 600 grit paper ♦ 600-er Schleifpapier ♣ Papierkorrel 600 ♠ Papier grain 600	2-3	0,05-0,076	
B2	♥ 400 grit paper ♦ 400-er Schleifpapier ♣ Papierkorrel 400 ♠ Papier grain 400	4-5	0,10-0,127	♥ • Removes all tool and machining marks • Provides good mold release • Mute finish on molded part, no sheen ♦ • Entfernt alle Spuren des Werkzeuges und der Bearbeitung • Ermöglicht eine gute Ablösung von der Form • Matte Oberfläche am Spritzteil, keine Glanzstellen ♣ • Verwijderd alle gereedschap- en machinesporen • Goede produktlossing • Mat produktoppervlak, niet glanzend ♠ • Enlèvement de toutes les traces d'outils • Démoulage facile • Surface mate non luisante
B3	♥ 320 grit paper ♦ 320-er Schleifpapier ♣ Papierkorrel 320 ♠ Papier grain 320	9-10	0,23-0,25	
C1	♥ 600 stone ♦ 600-er Polierstein ♣ Poliersteen 600 ♠ Pierre de 600	10-12	0,25-0,30	
C2	♥ 400 stone ♦ 400-er Polierstein ♣ Poliersteen 400 ♠ Pierre de 400	25-28	0,64-0,71	♥ • For decorative finishes • Often used for diecast and thermoset tooling • Helps hide shrink marks and other imperfections • Dull, non-reflecting finish on molded or cast part ♦ • Für dekorative Oberflächenbearbeitung • Sehr oft für Druckguß und Thermotransfer Werkzeuge benutzt • Hilft Schrumpfmärkungen und andere Störungen zu vermeiden • Matte, nicht reflektierende Oberfläche an Spritz- und Druckgußteilen ♣ • Voor decoratieve afwerking • Wordt vaak gebruikt voor de afwerking van matrijzen voor thermohardende materialen en drukgietmatrijzen • Maskeert bepaalde onvolkomenheden • Matte, niet reflektierende afwerking ♠ • Aspect mat pour décor • Souvent utilisé dans la finition des moules pour les thermodurcissables et pour la coulée sous pression • Masque certaines imperfections • Surface dépolie non réfléchissante
C3	♥ 320 stone ♦ 320-er Polierstein ♣ Poliersteen 320 ♠ Pierre de 320	38-42	0,97-1,07	
D1	♥ Dry blast glass bead 11 200 mm distance at 0,7 Mpa; 5 secs ♦ Strahlen mit Glasperlen größe 11 200 mm Abstand, 0,7 MPa Druck; 5 Sek ♣ Droogblazen met glaskorrels 11 Afstand 200 mm met 0,7 Mpa; 5 sec ♠ Microbille de verre grain 11 200 mm de distance à 0,7 Mpa; 5 secs	10-12	0,25-0,30	
D2	♥ Dry blast 240 oxyde 125 mm distance at 0,7 Mpa; 5 secs ♦ Strahlen mit Korngröße 240 125 mm Abstand, 0,7 MPa; 5 Sek ♣ Droog zandstralen met korrel 240 Afstand 125 mm met 0,7 Mpa; 5 sec ♠ Sablage à sec grain 240 125 mm de distance à 0,7 Mpa; 5 secs	26-32	0,66-0,81	♥ • Aspect mat pour décor • Souvent utilisé dans la finition des moules pour les thermodurcissables et pour la coulée sous pression • Masque certaines imperfections • Surface dépolie non réfléchissante
D3	♥ Dry blast 24 oxyde 150 mm distance at 0,7 Mpa; 5 secs ♦ Strahlen mit Korngröße 24 150 mm Abstand, 0,7 MPa; 5 Sek ♣ Droog zandstralen met korrel 24 Afstand 150 mm met 0,7 Mpa; 5 sec ♠ Sablage à sec grain 24 150 mm de distance à 0,7 Mpa; 5 secs	190-230	4,83-5,84	

Only for UK

DC

Diamond compound



Diamond compound

Diamond Compound contains no adulterants, non-graded, non-working diamond 'fines'. The precision graded diamond particles are uniformly and permanently dispersed and blended in a high quality, universally soluble synthetic vehicle; giving the best composition possible. It will not 'cake' or dry out and is completely stable at temperatures from 10 °C to 65 °C. As a thinning agent use Thinner lubricator.

Finish	REF.	Color guide	Nat'l Bur. std. grade	Micron size range†	Compound number and diamond content	Approx. mesh equivalent
Final ultra mirror polishing of plastics mold cavities.	DC-00H	Pink	1/4	0-1/2	1/2-Heavy	100,000
	DC-0H	Silver	1/2	0-1	1-Heavy	60,000
Final high mirror polishing of selected work such as optical quality plastics mold cavities.	DC-1M	Ivory	1	0-2	1-Medium	15,000
	DC-1H	Ivory	1	0-2	1-Heavy	15,000
Final mirror polishing of high quality plastics mold cavities, especially those producing clear plastic parts.	DC-3M	Yellow	3	1-5	3-Medium	9,000 to 7,000
	DC-3H	Yellow	3	1-5	3-Heavy	9,000 to 7,000
Final polishing of most plastics mold cavities.	DC-6U	Orange	6	4-8	6-Universal	5,000 to 2,500
	DC-6M	Orange	6	4-8	6-Medium	5,000 to 2,500
Intermediate polishing of plastics mold cavities and final polishing of die cast die cavities.	DC-9U	Green	9	6-12	9-Universal	1,300
	DC-9M	Green	9	6-12	9-Medium	1,300
Preliminary polishing of all plastics mold and die cast die cavities.	DC-15U	Blue	15	8-22	15-Universal	1,300 to 900
	DC-15M	Blue	15	8-22	15-Medium	1,300 to 900
Heavy stock removal. Enlarging holes in hardened steel.	DC-30U	Red	30	20-40	30-Universal	800 to 550
	DC-30M	Red	30	20-40	30-Medium	800 to 550
	DC-45U	Brown	45	30-60	45-Universal	500
	DC-45M	Brown	45	30-60	45-Medium	500
	DC-170H	Grey-Black	170		170M-Heavy	120 to 80

† The smaller the micron size, the finer the finish.

Hard Maple - White Pine - Balsa Wood - Formica

Polishing sticks



Material	Shape and size		
	Rectangular REF.	Square REF.	Round REF.
Hard maple or White pine	1/4 x 3/8 x 6"	—	—
	1/4 x 1/2 x 6"	1/4 SQ x 6"	1/4 RD x 6"
	1/2 x 1" x 6"	1/2 SQ x 6"	1/2 RD x 6"
Balsa wood	1/4 x 3/8 x 6"	—	—
	1/4 x 1/2 x 6"	1/4 SQ x 6"	—
	1/2 x 1" x 6"	1/2 SQ x 6"	—
Formica (Grade C, canvas base)	1/4 x 1/2 x 6"	1/4 SQ x 6"	—

Sold in packs of 20 only.

When ordering polishing sticks, please specify: 1. Quantity
2. Size
3. Material

B - W

Only for UK

Mounted points



Mounted points

Mounted points are molded automatically from the finest aluminium oxide abrasive and the exact amounts of vitrified bond to give the optimum holding qualities for the size of the point. They are precision trued to size and shape after mounting to insure concentricity between the point and the shank. This eliminates the vibration that causes excessive wear and damage to both the tools and the work surface. This also reduces the danger of shattering points.

Group “B” shapes (1/8 shank)

[illegible]

Group “W” shapes (1/8 shank)

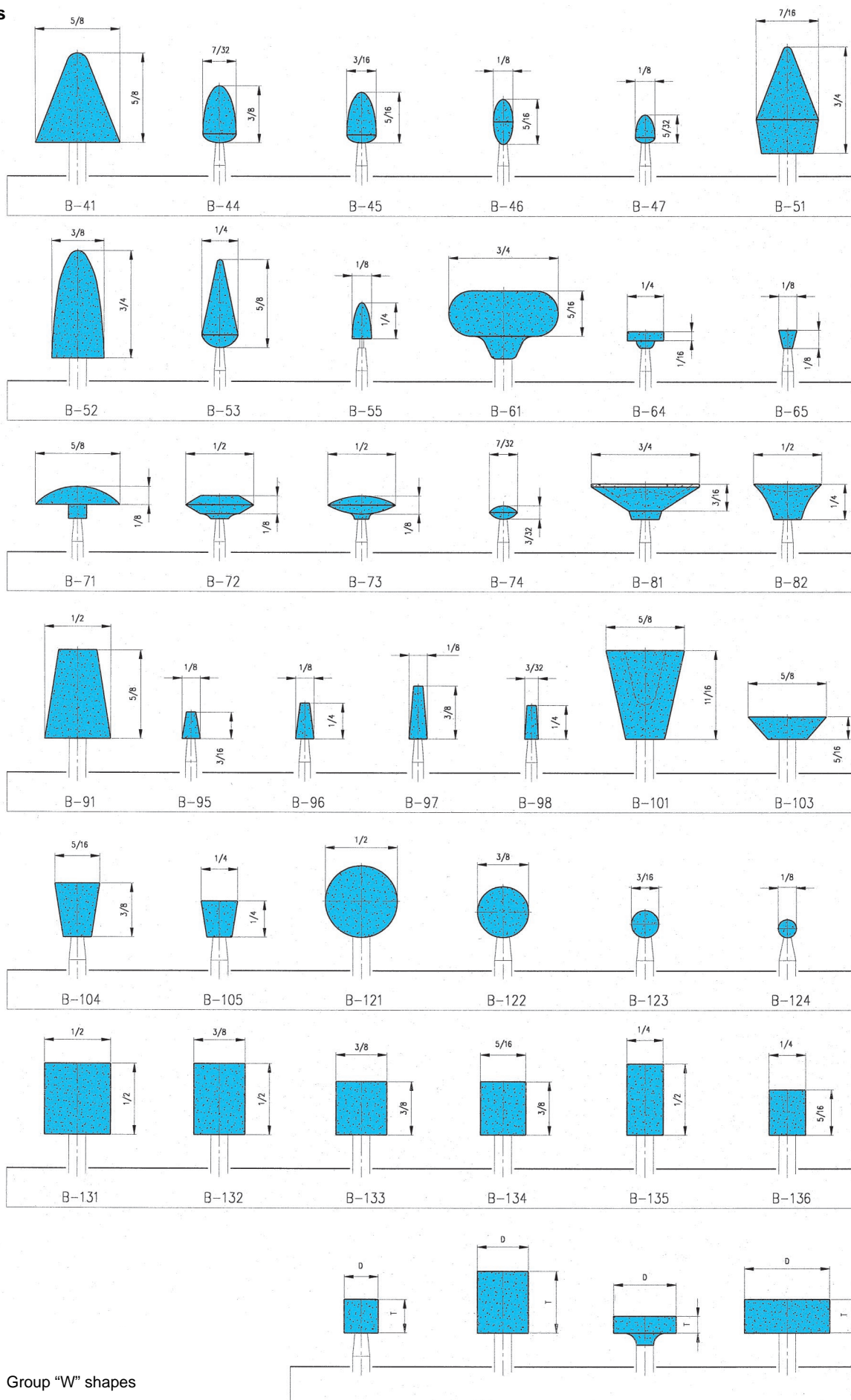
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B - W

Only for UK

Mounted points

Group "B" shapes



Only for UK

PB - PRB

Polishing

End brush

Small cup

Large cup

Wheel

Polishing brushes

All brushes have 1/8 diameter shanks		
Bristle REF.*	Brush diameter	Style
PB-7	3/16	end brush
PB-12	1/2	small cup
PB-11	5/8	large cup
PB-1	3/4	wheel

Brass REF.	Brush diameter	Style
PBR-7	3/16	end brush
PBR-11	5/8	large cup
PBR-1	3/4	wheel

* Pack of 10

PLC

Mold Polishing and Lapping compound



Mold Polishing and Lapping compound

Flash point = 169 °C
Flammable limit = 174 °C

Is made up of an aluminium oxide abrasive powder mixed with a mineral based carrier agent.
It is an inexpensive and effective compound for polishing with brushes and brass or wood laps.

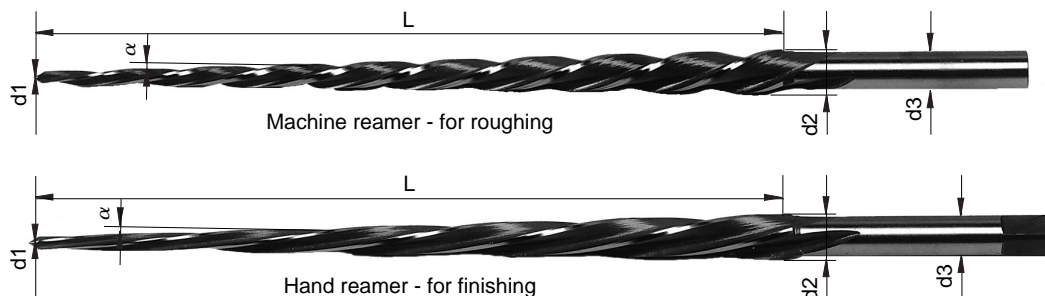
REF.*	Grit
PLC-220	220
PLC-280	280
PLC-400	400
PLC-600	600

*16 oz. can

Only for UK

SR

Sprue bushing reamers

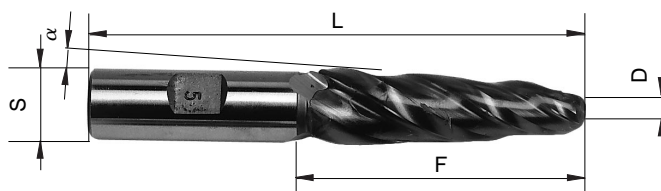


Machine reamers		α Taper per foot*	d1	d2	d3	L
REF.	No. flutes					
SR-50-125	3	1/2	7/64	3/8	5/16	6"
SR-50	3	1/2	13/64	5/8	1/2	10 1/2"
SR-75-125	3	3/4	7/64	31/64	3/8	6"
SR-75	3	3/4	13/64	7/8	5/8	10 3/4"
Hand reamers		α Taper per foot*	d1	d2	d3	L
REF.	No. flutes					
SR-50-125-H	4	1/2	7/64	3/8	5/16	6"
SR-50-H	6	1/2	13/64	5/8	1/2	10 1/2"
SR-75-125-H	4	3/4	7/64	31/64	3/8	6"
SR-75-H	6	3/4	13/64	7/8	5/8	10 3/4"

* 1/2 taper per foot = 2°23'13" included angle
3/4 taper per foot = 3°34'47" included angle

AX - A - B - C - E - G - J - P

Tapered milling cutters



REF.	D	F	S	L	α Taper/side
AX-203	1/8"	3/4"	3/8"	2 1/2"	1/2°
AX-305	3/16"	1 1/4"	3/8"	3 1/8"	
AX-805	1/2"	1 1/4"	1/2"	3 1/8"	
AX-609	3/8"	2 1/4"	1/2"	4 1/4"	
AX-813	1/2"	3 1/4"	1/2"	5 1/2"	
A-201	1/8"	3/8"	3/8"	2 1/2"	1°
A-203	1/8"	3/4"	3/8"	2 1/2"	
A-403	1/4"	3/4"	3/8"	2 1/2"	
A-305	3/16"	1 1/4"	3/8"	3 1/8"	
A-405	1/4"	1 1/4"	3/8"	3 1/8"	
A-805	1/2"	1 1/4"	1/2"	3 1/8"	
A-409	1/4"	2 1/4"	1/2"	4 1/4"	
A-609	3/8"	2 1/4"	1/2"	4 1/4"	
A-809	1/2"	2 1/4"	1/2"	4 1/4"	
A-413	1/4"	3 1/4"	1/2"	5 1/2"	
A-813	1/2"	3 1/4"	1/2"	5 1/2"	
B-203	1/8"	3/4"	3/8"	2 1/2"	2°
B-403	1/4"	3/4"	3/8"	2 1/2"	
B-305	3/16"	1 1/4"	3/8"	3 1/8"	
B-405	1/4"	1 1/4"	3/8"	3 1/8"	
B-805	1/2"	1 1/4"	1/2"	3 1/8"	
B-409	1/4"	2 1/4"	1/2"	4 1/4"	
B-609	3/8"	2 1/4"	1/2"	4 1/4"	
B-809	1/2"	2 1/4"	1/2"	4 1/4"	
B-413	1/4"	3 1/4"	1/2"	5 1/2"	
B-813	1/2"	3 1/4"	1/2"	5 1/2"	

REF.	D	F	S	L	α Taper/side
C-106	3/32"	1 1/2"	3/8"	3 1/4"	3°
C-203	1/8"	3/4"	3/8"	2 1/2"	
C-305	3/16"	1 1/4"	3/8"	3 1/8"	
C-409	1/4"	2 1/4"	1/2"	4 1/4"	
C-809	1/2"	2 1/4"	5/8"	4 1/4"	
C-613	3/8"	3 1/4"	3/4"	5 1/2"	
E-106	3/32"	1 1/2"	3/8"	3 1/4"	5°
E-203	1/8"	3/4"	3/8"	2 1/2"	
E-305	3/16"	1 1/4"	1/2"	3 1/8"	
E-409	1/4"	2 1/4"	5/8"	4 1/4"	
E-609	3/8"	2 1/4"	3/4"	4 1/4"	
E-613	3/8"	3 1/4"	3/4"	5 1/2"	
G-106	3/32"	1 1/2"	1/2"	3 1/4"	7°
G-203	1/8"	3/4"	3/8"	2 1/2"	
G-206	1/8"	1 1/2"	1/2"	3 1/4"	
G-305	3/16"	1 1/4"	1/2"	3 1/8"	
G-409	1/4"	2 1/4"	3/4"	4 1/4"	
G-609	3/8"	2 1/4"	3/4"	4 1/4"	
J-203	1/8"	3/4"	3/8"	2 1/2"	10°
J-405	1/4"	1 1/4"	1/2"	3 1/8"	
J-805	1/2"	1 1/4"	3/4"	3 3/8"	
P-202	1/8"	1/2"	3/8"	2 1/2"	15°
P-304	3/16"	1"	1/2"	3"	
P-406	1/4"	1 1/2"	3/4"	3 5/8"	
P-805	1/2"	1 1/4"	3/4"	3 1/2"	

♥ Auxiliaries

♦ Zubehör

Toebehoren ♣

Accessoires ♠

NOTES - NOTIZEN - NOTA'S - NOTES

