

FW – Wechseleinsätze

FW Change inserts

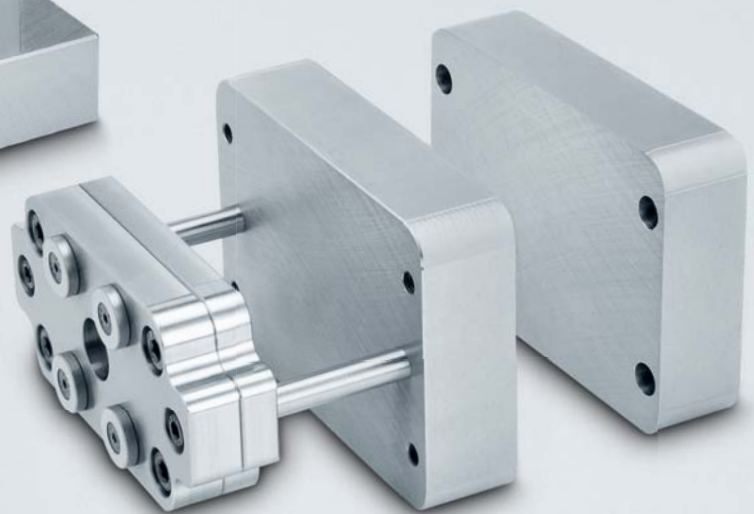


Die bewährten Wechseleinsätze der FW – Wechselform jetzt auch in der Materialqualität 1.2714HH (~43 HRC) sofort ab Lager lieferbar. Das Material zeichnet sich durch seine hohe Warmfestigkeit und gute Schlagzähigkeit aus.

- » Keine weitere Wärmebehandlung notwendig
- » Verkürzt die Durchlaufzeiten bei der Anfertigung der Formeinsätze
- » Trotz der Härte von ~43 HRC gut bearbeitbar

Our tried and trusted change inserts for the FW change moulds are now available from stock in grade 1.2714HH (~43 HRC). This material features high temperature and impact resistance.

- » No further heat treatment required
- » Reduced processing times for the production of inserts
- » Easily machinable in spite of its hardness (~43 HRC)



Wechselformen – Einfach und präzise

Change Moulds – Simple and precise

Meusbürger Wechselformen sind die ideale Lösung zur schnellen und kostengünstigen Realisierung von Kleinserien und Prototypen. Durch das neu entwickelte Wechselsystem mit Positionierkeilen können die Einsätze sehr einfach und schnell, aber dennoch präzise und wiederholgenau gewechselt werden.

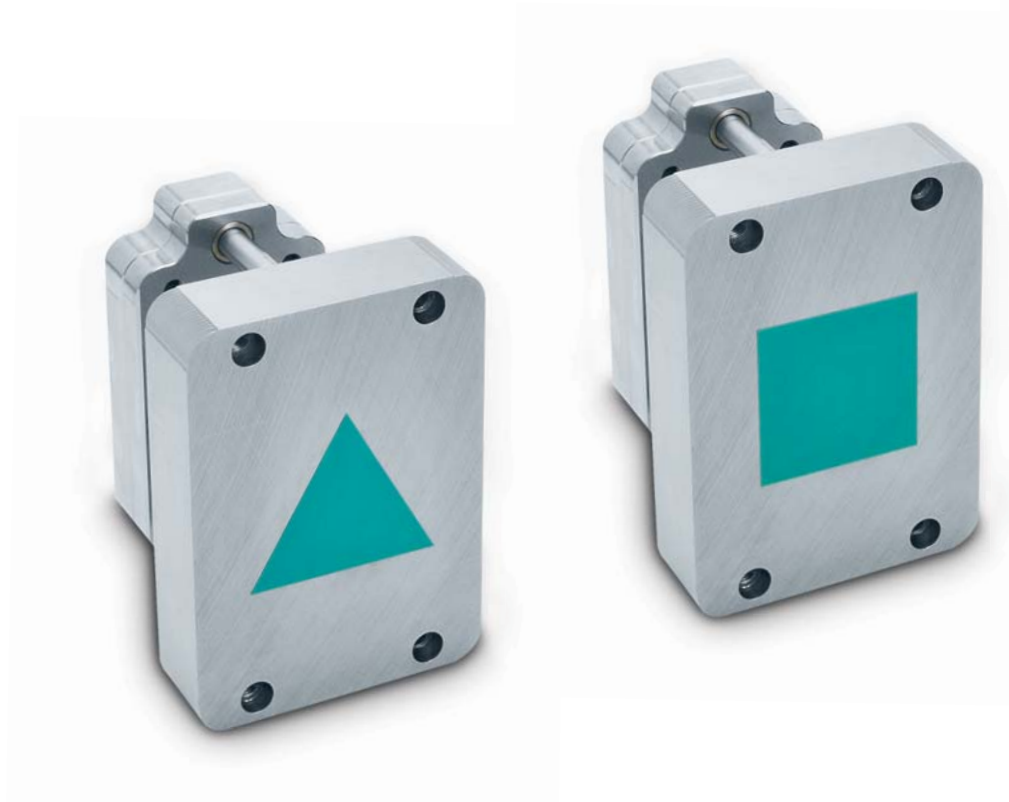
Nutzen Sie die Wechselformen von Meusbürger und profitieren Sie von zahlreichen Vorteilen

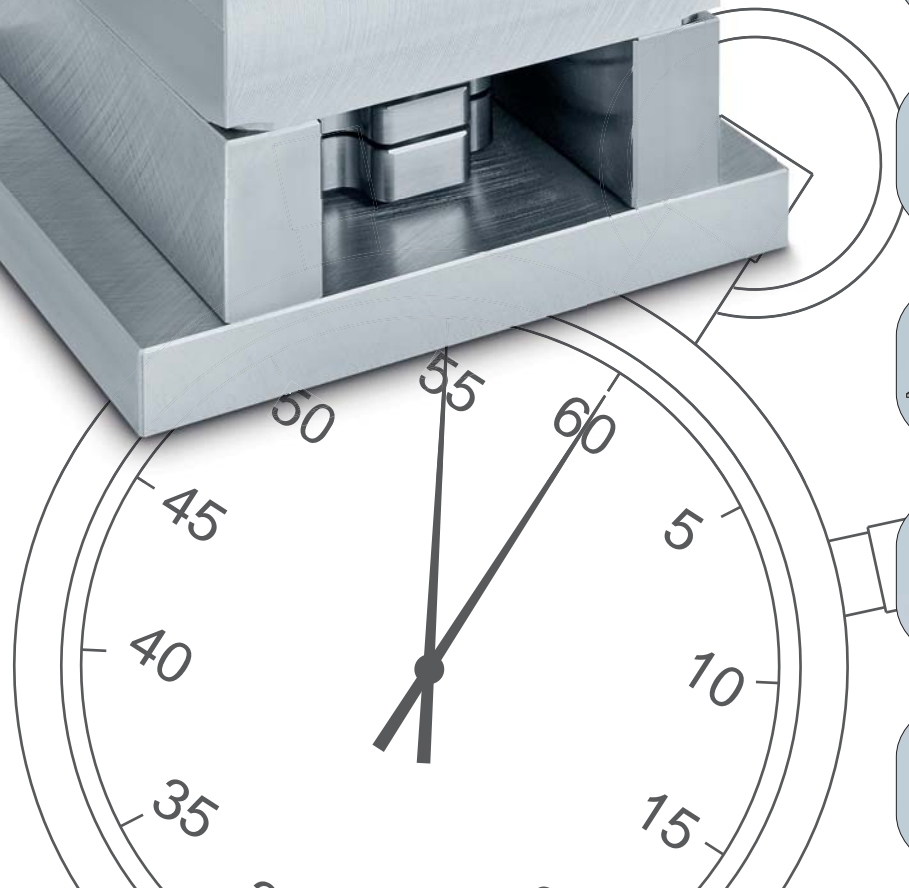
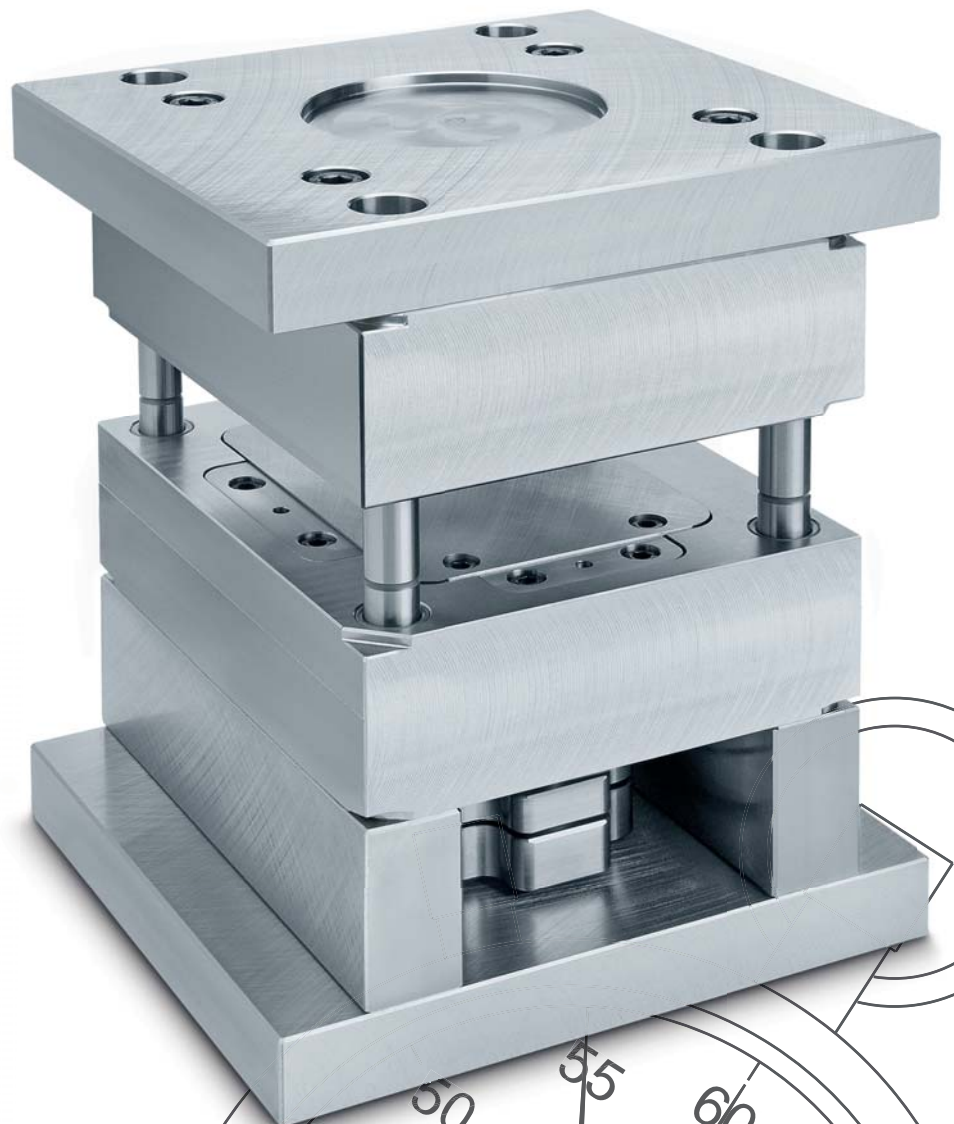
- » Realisieren Sie Ihre Prototypen in kürzester Zeit durch einbaufertige Formeinsätze
- » Profitieren Sie von der stabilen und langlebigen Bauweise eines geschlossenen Formrahmens aus korrosionsbeständigem Stahl
- » Sparen Sie Kosten durch stark verkürzte Durchlaufzeiten und reduziertem Materialaufwand
- » Wechseln Sie die Formeinsätze mit Auswerferpaket auf der Spritzgießmaschine
- » Minimieren Sie Ihren Maschinenstillstand durch kurze Wechselzeiten mit Hilfe unserer neu entwickelten Auswerferpaketkupplung

Meusbürger Change Moulds are the ideal solution for the quick and cost saving making of prototypes or small series. With the newly developed change system with positioning wedges, the inserts can be changed very easily and quickly with a high repeat accuracy.

Benefit from the Meusbürger Change Moulds and their numerous advantages

- » Make your prototypes in no time at all with ready-to-use mould inserts
- » Enjoy the benefit of a strong and durable construction of a closed mould frame made of corrosion resistant steel
- » Save on costs through strongly shortened processing times and less material required
- » Change the mould inserts with the ejector set, the mould remaining on the injection moulding machine
- » Minimize your machine standstill times through quick changes made possible with our newly developed ejector set coupling





- H
- P
- P
- P
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Einsatzwechsel

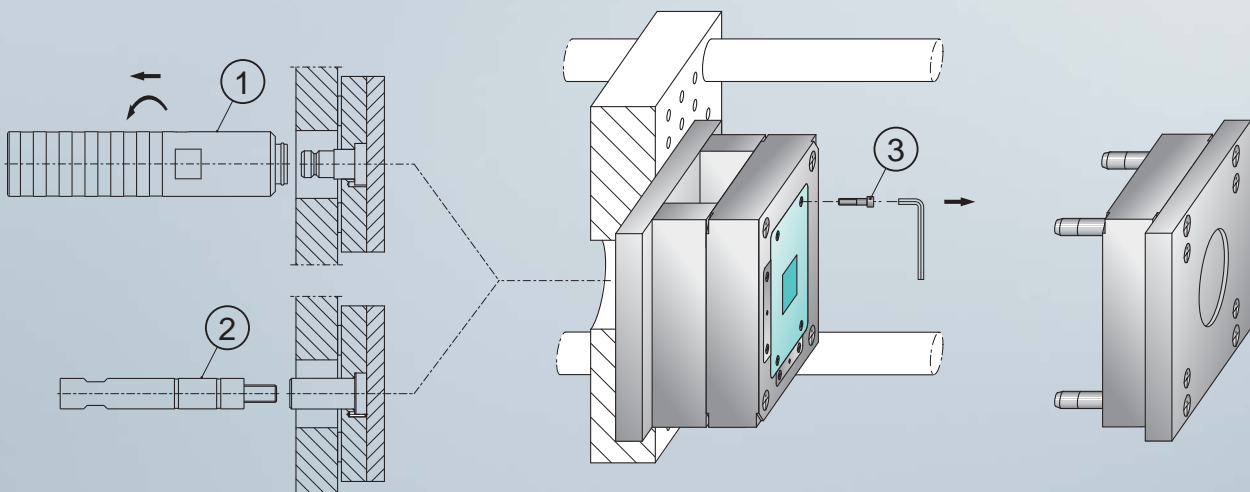
Insert change

Mit einfachen Handgriffen können die Wechseleinsätze komfortabel und vor allem wiederholgenau gewechselt werden.

With no more than a few manual operations you can easily change the inserts and still maintain a high level of repeat accuracy.

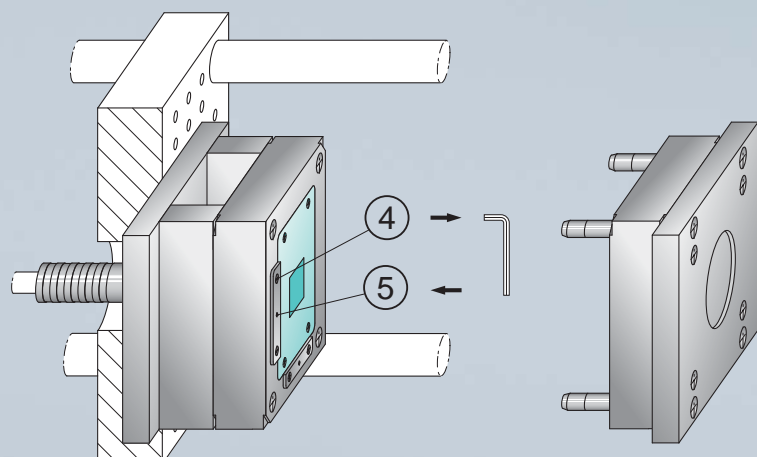
Auswerferpaket von der Maschine mit Kupplung ① oder Schraubverbindung ② entkoppeln. Die Befestigungsschrauben ③ der Einsätze entfernen.

Uncouple the ejector set from the moulding machine with the coupler ① or with the screw connection ②. Remove the mould insert fastening screws ③.

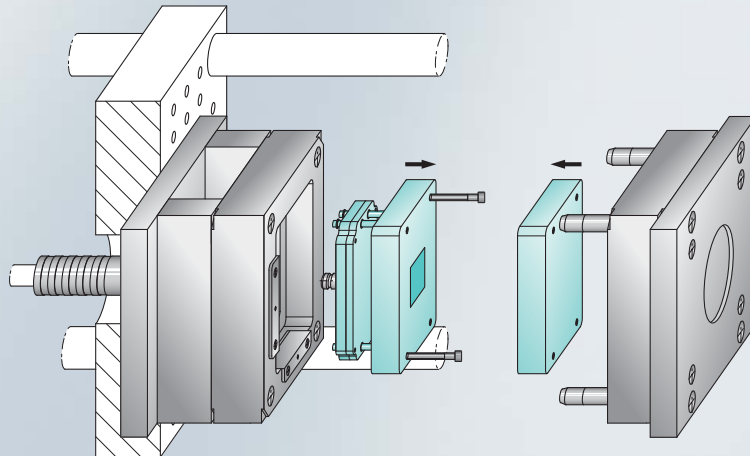


Schrauben ④ lösen. Positionierkeile mittels Gewindestift ⑤ abdrücken.

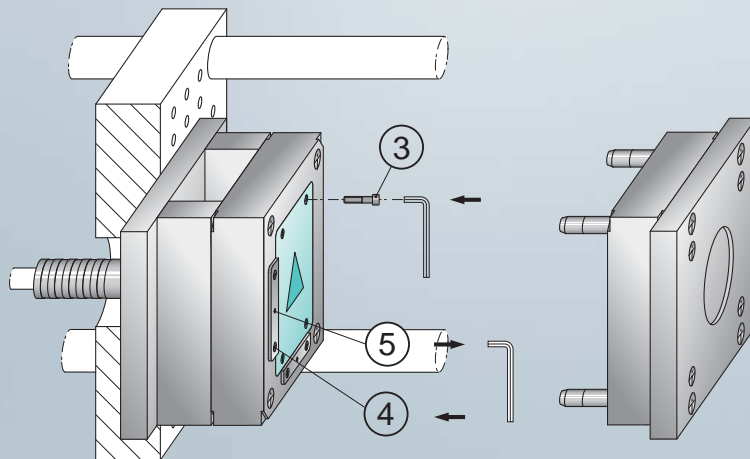
Loosen the fastening screws ④. Screw in the set screws ⑤ to disengage the wedges.



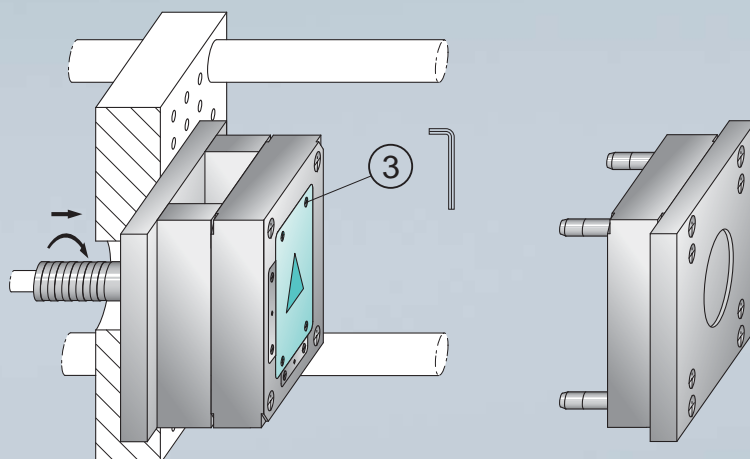
Wechseleinsatz samt Auswerferpaket mit Hilfe von Schrauben herausziehen.
Pull out the change insert with the attached ejector set using screws.



Nächsten Einsatz einsetzen und Befestigungsschrauben ③ leicht anziehen. Gewindesttift ⑤ in Ausgangstellung zurückdrehen. Positionierkeile mit Schrauben ④ festziehen.
Introduce the new insert and screw in the fastening screws ③ without tightening. Turn the set screws ⑤ to the initial position. Fasten the wedges with screws ④.



Einsätze mit Schrauben ③ festziehen. Auswerferpaket an die Maschine koppeln.
Fasten the insert with screws ③. Couple the ejector set to the machine.



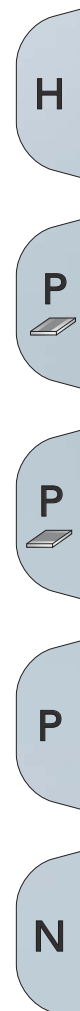
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Materialqualitäten

Werkst.-Nr.	Bezeichnung	Richtanalyse	Festigkeit	Charakter	Verwendung
1.0577	DIN: S 355 J2 (St 52-3) AFNOR: A 52 FP AISI: A738	C ≤ 0.22 Si ≤ 0.55 Mn ≤ 1.60	≈ 550 N/mm ²	Baustahl unlegiert, sehr gut schweißbar	für einfache Anwendungen im Werkzeug-, Formen- und Maschinenbau
1.1730	DIN: C 45 U AFNOR: XC 48 AISI: 1045	C - 0.45 Si - 0.30 Mn - 0.70	≈ 640 N/mm ²	Werkzeugstahl unlegiert, flammhärtbar	ungehärtete Bauteile für den Werkzeug- und Vorrichtungsbau bzw. Platten und Rahmen für Formaufbauten und Säulengestelle
1.2083	DIN: X 42 Cr 13 AFNOR: Z 40 C 14 AISI: 420	C - 0.42 Si - 0.40 Mn - 0.30 Cr - 13.00	≈ 780 N/mm ²	Durchhärterstahl korrosionsarm	Formplatten und Einsätze für die Kunststoffverarbeitung, vorwiegend bei Verarbeitung chemisch aggressiver Kunststoffe
1.2085	DIN: X 33 CrS 16 AFNOR: Z 35 CD 17.S AISI: ≈ 422+S	C - 0.33 Si - 0.30 Mn - 0.80 Cr - 16.00 Mo - 1.20 S - 0.06 Ni - 0.30	≈ 1080 N/mm ²	Werkzeugstahl vorvergütet, korrosionsbeständig, gut zerspanbar	Platten für korrosionsbeständige Formaufbauten und Säulengestelle, Formplatten für chemisch aggressive Kunststoffe
1.2162	DIN: 21 MnCr 5 AFNOR: 20 MC 5 AISI: 5120	C - 0.21 Si - 0.25 Mn - 1.25 Cr - 1.20	≈ 660 N/mm ²	Einsatzstahl legiert	Formplatten, Einsätze und Maschinenbauteile
1.2210	DIN: 115 CrV3 AFNOR: 100 C3 UNI: 107 CrV3 KU AISI: L2	C - 1.18 Si - 0.25 Mn - 0.30 Cr - 0.70 Ni - 0.10 Ti - 0.20	≈ 740 N/mm ²	Kaltarbeitsstahl legiert, verschleißfest	Kernstifte, Stempel, kleine Drehteile
1.2311	DIN: 40 CrMnMo 7 AFNOR: 40 CMD 8 UNI: 35 CrMo 8 KU AISI: P20	C - 0.40 Si - 0.40 Mn - 1.50 Cr - 1.90 Mo - 0.20	≈ 1080 N/mm ²	Werkzeugstahl legiert und vergütet, flammhärtbar, speziell geeignet zum Nitrieren, polierfähig	Formplatten, Einsätze, hochfeste Maschinenbauteile
1.2312	DIN: 40 CrMnMoS 86 AFNOR: 40 CMD 8.S AISI: P20+S	C - 0.40 Si - 0.40 Mn - 1.50 Cr - 1.90 Mo - 0.20 S - 0.06	≈ 1080 N/mm ²	Werkzeugstahl legiert und vergütet, gut zerspanbar, flammhärtbar	Platten für Formaufbauten und Säulengestelle mit erhöhter Anforderung an Festigkeit
1.2316	DIN: X 38 CrMo 16 AFNOR: Z 35 CD 17 UNI: X 38 CrMo 16 KU AISI: ≈ 422	C - 0.36 Cr - 16.00 Mo - 1.20	≈ 1010 N/mm ²	Werkzeugstahl vergütet, korrosionsbeständig, polierbar	Formen zur Verarbeitung von korrodierend wirkendem Kunststoff
1.2343	DIN: X 38 CrMoV 51 AFNOR: Z 38 CDV 5 UNI: X 37 CrMoV 51 KU AISI: H11	C - 0.38 Si - 1.00 Mn - 0.40 Cr - 5.30 Mo - 1.20 V - 0.40	≈ 780 N/mm ²	Warmarbeitsstahl legiert	Formplatten und Formeinsätze für Druckgussformen (Al, Mg, Zn etc.) und Kunststoffwerkzeuge
1.2343 ESU (ESR)	DIN: X 38 CrMoV 51 AFNOR: Z 38 CDV 5 UNI: X 37 CrMoV 51 KU AISI: H11 ESR	C - 0.38 Si - 1.00 Mn - 0.40 Cr - 5.30 Mo - 1.20 V - 0.40	≈ 780 N/mm ²	Warmarbeitsstahl legiert, hochglanzpolierfähig, elektrisch umgeschmolzen	Formplatten und Formeinsätze für Druckgussformen (Al, Mg, Zn etc.) und Kunststoffwerkzeuge

Werkst.-Nr.	Bezeichnung	Richtanalyse	Festigkeit	Charakter	Verwendung
1.2344	DIN: X 40 CrMoV 5-1 AFNOR: Z 40 CDV 5 UNI: X 40 CrMoV 5-1 KU AISI: H13	C - 0.40 Si - 1.00 Cr - 5.30 Mo - 1.40 V - 1.00	≈ 780 N/mm ²	Warmarbeitsstahl warmfest, warmverschleißfest, sehr gute Wärmeleitfähigkeit	Standardwerkstoff für Warmarbeitswerkzeuge, Strangpresswerkzeuge, Gesenke, Werkzeuge für die Kunststoffverarbeitung
1.2379	DIN: X 155 CrVMo 121 AFNOR: Z 160 CDV 12 UNI: X 155 CrVMo 12.1 KU AISI: ≈ D2	C - 1.53 Si - 0.30 Mn - 0.35 Cr - 12.00 Mo - 0.80 V - 0.80	≈ 850 N/mm ²	Durchhärterstahl verschleißfester Kaltarbeitsstahl	Formplatten und Einsätze sowie Druck- und Schneidplatten mit erhöhter Verschleißfestigkeit
1.2714	DIN: 56 NiCrMoV 7 AFNOR: 55 NCDV 7 AISI: L6	C - 0.56 Cr - 1.10 Mo - 0.50 Ni - 1.70 V - 0.10	≈ 850 N/mm ²	Durchhärterstahl gute Warmfestigkeit und Zähigkeit	Hilfswerkzeuge von Strangpressen, Warm Schmiedewerkzeuge, Matrizen zur Verarbeitung von Zinn-, Blei- und Zinklegierungen
1.2714 HH	DIN: 56 NiCrMoV 7 AFNOR: 55 NCDV 7 AISI: L6	C - 0.56 Cr - 1.10 Mo - 0.50 Ni - 1.70 V - 0.10	≈ 1350 N/mm ² (≈ 43 HRC)	Durchhärterstahl, vergütet gute Warmfestigkeit und Zähigkeit	Formeinsätze, Kerne und Schieber für Druckgussformen (Al, Mg, Zn etc.) und Kunststoffwerkzeuge
1.2738	DIN: 40 CrMnNiMo 8-6-4 AFNOR: 40 CMND 8 AISI: ≈ P20 + Ni	C - 0.40 Mn - 1.50 Cr - 2.00 Mo - 0.20 Ni - 1.10	≈ 1080 N/mm ²	Werkzeugstahl vergüteter Formstahl mit gleichmäßiger Festigkeit bei größeren Abmessungen, polier- und nitrierbar	große Formplatten mit tiefen Kavitäten, Stoßfänger, Armaturentafeln
1.2767	DIN: X 45 NiCrMo 4 AFNOR: 45 NCD 16 UNI: 40 NiCrMoV 16 KU AISI: 6F7	C - 0.45 Si - 0.25 Mn - 0.40 Cr - 1.35 Mo - 0.25 Ni - 4.00	≈ 830 N/mm ²	Durchhärterstahl speziell legiert, polierfähig, hohe Druck- und Biegefestigkeit	anspruchsvolle Formplatten und Einsätze; Schneid- und Biegeeinsätze für hohe Druckbelastungen
1.2842	DIN: 90 MnCrV 8 AFNOR: 90 MV 8 UNI: 90 MnVCr 8 KU AISI: ≈ O2	C - 0.90 Si - 0.20 Mn - 2.00 Cr - 0.40 V - 0.10	≈ 760 N/mm ²	Durchhärterstahl maßbeständig bei hoher Härtebarkeit, verschleißfester Kaltarbeitsstahl, sehr gut bearbeitbar	Formplatten, Einsätze für abrasive Belastung; Druck-, Schneid- und Führungsplatten; Druck- und Führungsleisten
1.7131	DIN: 16 MnCr 5 AFNOR: 16 MC 5 AISI: 5115	C - 0.16 Si - 0.25 Mn - 1.15 Cr - 0.95	≈ 660 N/mm ²	Einsatzstahl legiert	Führungsteile, Kerneinsätze und Maschinenbauteile
3.3547 (AW-5083)	DIN: AlMg 4.5 Mn EN: ISO 5083 AFNOR: A-G4.5MC UNI: 7790	Si - 0.40 Fe - 0.40 Cu - 0.10 Mn - 0.70 Mg - 4.40 Cr - 0.15 Zn - 0.25 Ti - 0.15	≤ 290 N/mm ² (dickenabhängig)	Aluminium-Legierung	Platten für Formaufbauten und für den Vorrichtungsbau
3.4365 (AW-7075)	DIN: AlZnMgCu 1.5 EN: ISO 7075 AFNOR: A-Z5GU UNI: 9007/2	Si - 0.40 Fe - 0.50 Cu - 1.60 Mn - 0.30 Mg - 2.40 Cr - 0.23 Zn - 5.60 Ti - 0.20	≤ 540 N/mm ² (dickenabhängig)	Aluminium-Zink-Legierung hochfest, ausgehärtet	Platten für Formaufbauten und Säulengestelle mit erhöhter Anforderung an Festigkeit

Diese Angaben sind Empfehlungen, die jedermann frei zur Anwendung stehen. Im konkreten Fall muss jeder selbst für die richtige Anwendung Sorge tragen. Bei Unklarheiten sollte eine Rücksprache mit dem jeweiligen Spezialisten (z.B.: Stahlhersteller, Härtereier) erfolgen. Eine Haftung von "Meusburger Georg GmbH & Co KG" ist ausgeschlossen.



Material grades

material no	designation	indicatory analysis	strength	character	application
1.0577	DIN: S 355 J2 (St 52-3) AFNOR: A 52 FP AISI: A738	C ≤ 0.22 Si ≤ 0.55 Mn ≤ 1.60	≈ 550 N/mm ²	structural steel unalloyed, with good weldability	for common applications in tool, mould and machine construction
1.1730	DIN: C 45 U AFNOR: XC 48 AISI: 1045	C - 0.45 Si - 0.30 Mn - 0.70	≈ 640 N/mm ²	tool steel plain steel	unhardened parts for the mould and jig construction or plates and frames for tools and dies
1.2083	DIN: X 42 Cr 13 AFNOR: Z 40 C 14 AISI: 420	C - 0.42 Si - 0.40 Mn - 0.30 Cr - 13.00	≈ 780 N/mm ²	steel for through hardening low corrosion	cavity plates and inserts for the processing of plastics, mainly when chemically aggressive melts are being used
1.2085	DIN: X 33 CrS 16 AFNOR: Z 35 CD 17.S AISI: ≈ 422+S	C - 0.33 Si - 0.30 Mn - 0.80 Cr - 16.00 Mo - 1.20 S - 0.06 Ni - 0.30	≈ 1080 N/mm ²	tool steel pre-toughend, corrosion resistant, with good cutting properties	plates for corrosion resistant mould tools and dies, cavity plates for chemically aggressive plastics
1.2162	DIN: 21 MnCr 5 AFNOR: 20 MC 5 AISI: 5120	C - 0.21 Si - 0.25 Mn - 1.25 Cr - 1.20	≈ 660 N/mm ²	steel for case-hardening alloyed	moulding plates, inserts and machine parts
1.2210	DIN: 115 CrV3 AFNOR: 100 C3 UNI: 107 CrV3 KU AISI: L2	C - 1.18 Si - 0.25 Mn - 0.30 Cr - 0.70 Ni - 0.10 Ti - 0.20	≈ 740 N/mm ²	cold-work steel alloyed, wear-resistant	core pins, punches, small turned parts
1.2311	DIN: 40 CrMnMo 7 AFNOR: 40 CMD 8 UNI: 35 CrMo 8 KU AISI: P20	C - 0.40 Si - 0.40 Mn - 1.50 Cr - 1.90 Mo - 0.20	≈ 1080 N/mm ²	tool steel alloyed and pre-toughend, good suitability for flame-hardening, nitriding and polishing	moulding plates, inserts and high-tensile machine parts
1.2312	DIN: 40 CrMnMoS 86 AFNOR: 40 CMD 8.S AISI: P20+S	C - 0.40 Si - 0.40 Mn - 1.50 Cr - 1.90 Mo - 0.20 S - 0.06	≈ 1080 N/mm ²	tool steel alloyed and pre-toughend. good cutting properties, especially suitable for flame-hardening	plates for mould tools and dies with enhanced requirements on strength
1.2316	DIN: X 38 CrMo 16 AFNOR: Z 35 CD 17 UNI: X 38 CrMo 16 KU AISI: ≈ 422	C - 0.36 Cr - 16.00 Mo - 1.20	≈ 1010 N/mm ²	tool steel pretoughened, corrosion-resistant, polishable	Moulds for processing corrosive plastics
1.2343	DIN: X 38 CrMoV 51 AFNOR: Z 38 CDV 5 UNI: X 37 CrMoV 51 KU AISI: H11	C - 0.38 Si - 1.00 Mn - 0.40 Cr - 5.30 Mo - 1.20 V - 0.40	≈ 780 N/mm ²	hot-work steel alloyed	moulding plates and inserts for die casting (Al, Mg, Zn etc.) and injection mould tools
1.2343ESU (ESR)	DIN: X 38 CrMoV 51 AFNOR: Z 38 CDV 5 UNI: X 37 CrMoV 51 KU AISI: H11 ESR	C - 0.38 Si - 1.00 Mn - 0.40 Cr - 5.30 Mo - 1.20 V - 0.40	≈ 780 N/mm ²	hot-work steel alloyed, suitable for mirror polishing, electrically remelted	moulding plates and inserts for die casting (Al, Mg, Zn etc.) and injection mould tools

material no	designation	indicatory analysis	strength	character	application
1.2344	DIN: X 40 CrMoV 5-1 AFNOR: Z 40 CDV 5 UNI: X 40 CrMoV 5-1 KU AISI: H13	C - 0.40 Si - 1.00 Cr - 5.30 Mo - 1.40 V - 1.00	≈ 780 N/mm ²	hot-work steel high-temperature resistant, high temperature wear resistant, excellent thermal conductivity	standard material for hot-work tools, extrusion moulds, cavities, tools for plastics processing
1.2379	DIN: X 155 CrVMo 121 AFNOR: Z 160 CDV 12 UNI: X 155 CrVMo 12 1 KU AISI: ≈ D2	C - 1.53 Si - 0.30 Mn - 0.35 Cr - 12.00 Mo - 0.80 V - 0.80	≈ 830 N/mm ²	steel for through hardening wear-resistant cold-work steel	cavity plates and inserts as well as pressure or cutting plates with increased wear resistance
1.2714	DIN: 56 NiCrMoV 7 AFNOR: 55 NCDV 7 AISI: L6	C - 0.56 Cr - 1.10 Mo - 0.50 Ni - 1.70 V - 0.10	≈ 850 N/mm ²	steel for through hardening good high-temperature resistance and toughness	auxiliary tools for extruders, hot-forging tools, dies for processing tin, lead and zinc alloys
1.2714 HH	DIN: 56 NiCrMoV 7 AFNOR: 55 NCDV 7 AISI: L6	C - 0.56 Cr - 1.10 Mo - 0.50 Ni - 1.70 V - 0.10	≈ 1350 N/mm ² (≈ 43 HRC)	steel for through hardening, quenched and tempered good high-temperature resistance and toughness	mould inserts, cores and slides for die casting (Al, Mg, Zn etc.) and injection mould tools
1.2738	DIN: 40 CrMnNiMo 8-6-4 AFNOR: 40 CMND 8 AISI: ≈ P20 + Ni	C - 0.40 Mn - 1.50 Cr - 2.00 Mo - 0.20 Ni - 1.10	≈ 1080 N/mm ²	tool steel pre-thoughtened section steel with uniform strength even in larger dimensions, suitable for polishing and nitriding	large cavity plates with deep cavities, bumpers, dashboards
1.2767	DIN: X 45 NiCrMo 4 AFNOR: 45 NCD 16 UNI: 40 NiCrMoV 16 KU AISI: 6F7	C - 0.45 Si - 0.25 Mn - 0.40 Cr - 1.35 Mo - 0.25 Ni - 4.00	≈ 830 N/mm ²	steel for through hardening special alloy suitable for polishing, high resistance to pressure and good flexural strength	demanding cavity plates and inserts; cutting and bending inserts for high compressive loads
1.2842	DIN: 90 MnCrV 8 AFNOR: 90 MV 8 UNI: 90 MnVCr 8 KU AISI: ≈ O2	C - 0.90 Si - 0.20 Mn - 2.00 Cr - 0.40 V - 0.10	≈ 775 N/mm ²	steel for through hardening dimensional steadiness, high hardness, wear-resistant, cold-work steel of very good cutting properties	cavity plates and inserts exposed to abrasive stress; pressure, cutting and guiding plates; pressure and guiding rails
1.7131	DIN: 16 MnCr 5 AFNOR: 16 MC 5 AISI: 5115	C - 0.16 Si - 0.25 Mn - 1.15 Cr - 0.95	≈ 660 N/mm ²	steel for case-hardening alloyed	round inserts and machine parts
3.3547 (AW-5083)	DIN: AlMg 4.5 Mn EN: ISO 5083 AFNOR: A-G4.5MC UNI: 7790	Si - 0.40 Fe - 0.40 Cu - 0.10 Mn - 0.70 Mg - 4.40 Cr - 0.15 Zn - 0.25 Ti - 0.15	≤ 290 N/mm ² (depending on thickness)	aluminium alloy	plates for standard moulds and jigs
3.4365 (AW-7075)	DIN: AlZnMgCu 1.5 EN: ISO 7075 AFNOR: A-Z5GU UNI: 9007/2	Si - 0.40 Fe - 0.50 Cu - 1.60 Mn - 0.30 Mg - 2.40 Cr - 0.23 Zn - 5.60 Ti - 0.20	≤ 540 N/mm ² (depending on thickness)	aluminium - zinc alloy high-strength	plates for mould tools and dies with enhanced requirements on strength

These general informations are recommendations that everyone be free to apply. For the individual case, the buyer has to make sure for the right application. In case of doubt, a respective specialist (eg. steel manufacturer, hardening shop) should be consulted.

A liability of "Meusburger Georg GmbH & Co KG" is excluded.

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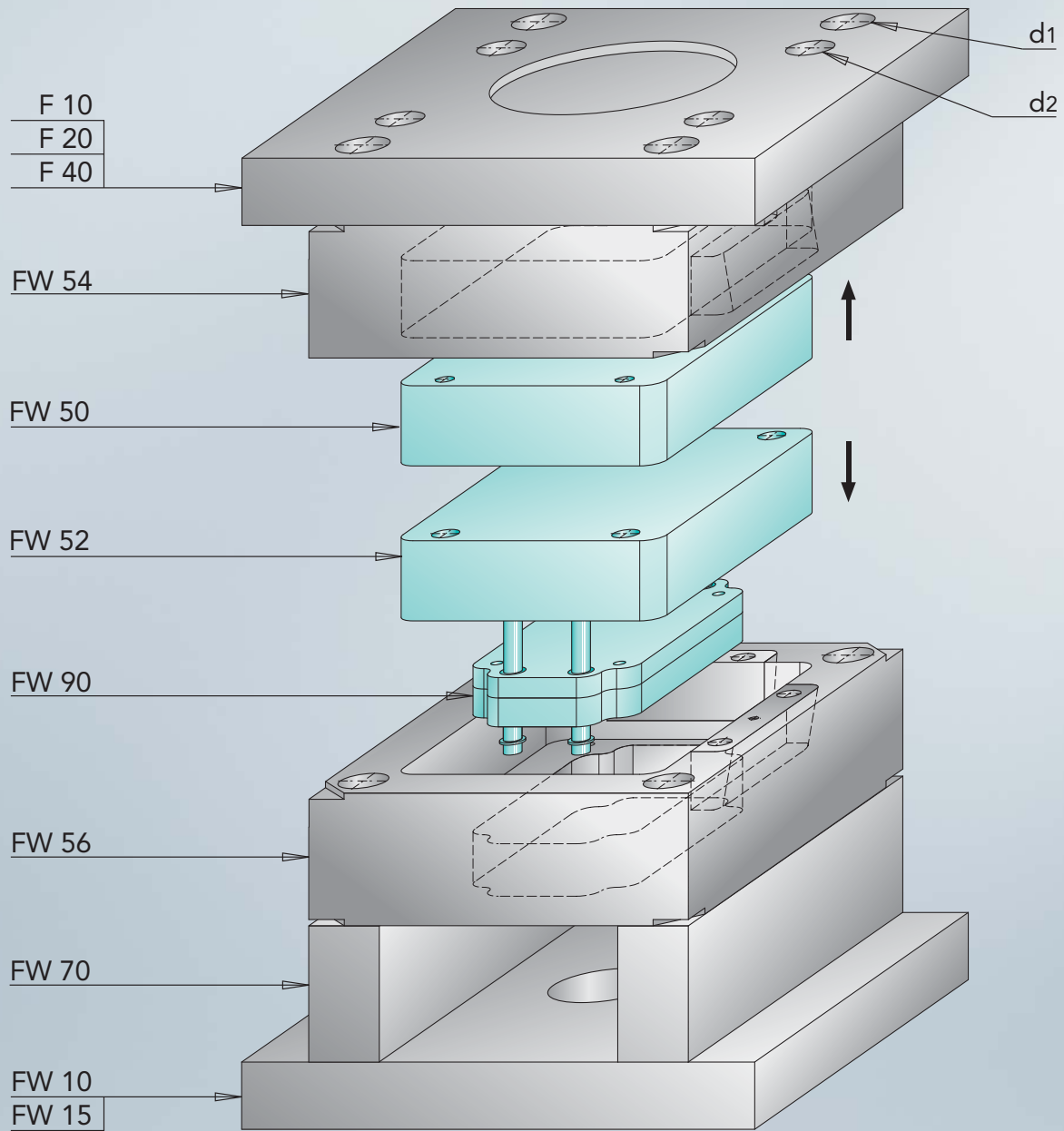
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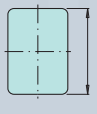

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FW – Wechselformen

FW – Change Moulds



Info Material ⇨ Seite 14
 Info steel grade ⇨ page 16

B	L	d1	d2				Seite page
156	196	20	M10	100	140	25/32/40	295
196	246	26	M10	130	180	32/40/50	297
246	296	30	M12	170	220	40/50/60	299

F 10	Aufspannplatte, Breite überstehend, mit Zentriereindrehung Clamp plate, width salient, with location ring recess
FW 10	Aufspannplatte für Wechselform, Breite überstehend, mit Zentriereindrehung Clamp plate for change mould, width salient, with location ring recess
FW 15	Aufspannplatte für Wechselform, Breite überstehend, ohne Zentriereindrehung Clamp plate for change mould, width salient, without location ring recess
F 20	Aufspannplatte, Länge überstehend, mit Zentriereindrehung Clamp plate, length salient, with location ring recess
F 40	Aufspannplatte, bündig, mit Zentriereindrehung Flush clamp plate with location ring recess
FW 50	Wechseleinsatz, düsenseitig Change insert, fixed half
FW 52	Wechseleinsatz, auswerferseitig Change insert, moving half
FW 54	Wechselformplatte düsenseitig, komplett Change mould fixed half cavity plate, complete
FW 56	Wechselformplatte auswerferseitig, komplett Change mould moving half cavity plate, complete
FW 70	Leiste für Wechselform Riser for change mould
FW 90	Auswerferpaket für Wechselform Ejector set for change mould



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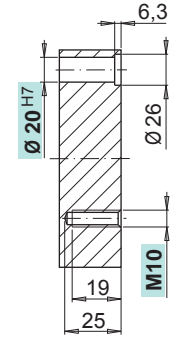
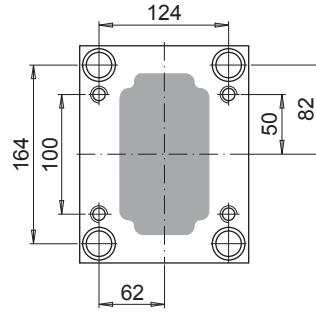
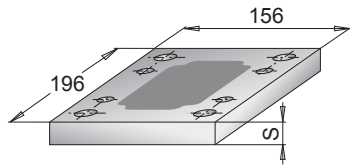
Bestellbeispiel

ordering example

Artikel article	B	L	S	Werkstoff steel grade
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FW 50 / 156 196 / 32 / 2311

156 196



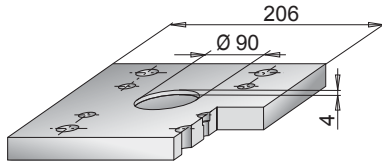
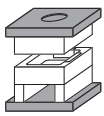
F 10
F 15

F 10 / 156 196

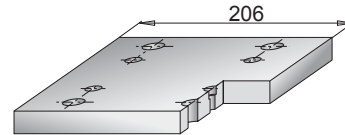
/ S / 1730 2085

F 15 / 156 196

/ S / 1730 2085



22	●	●
27	●	●



22	●	●
27	●	●

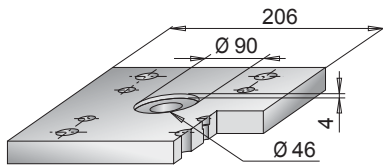
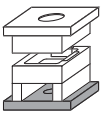
FW 10
FW 15

FW 10 / 156 196

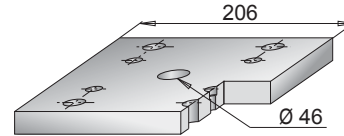
/ S / 1730 2085

FW 15 / 156 196

/ S / 1730 2085



27	●	●
----	---	---



27	●	●
----	---	---

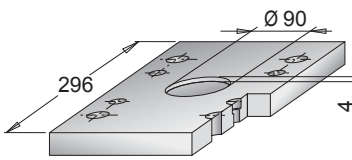
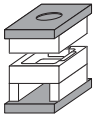
F 20
F 25

F 20 / 156 196

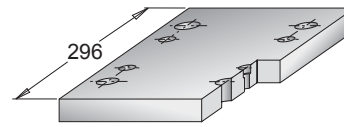
/ S / 1730 2085

F 25 / 156 196

/ S / 1730 2085



22	●	●
27	●	●



22	●	●
27	●	●

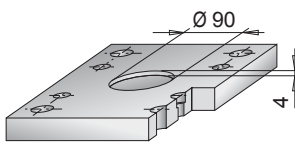
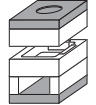
F 40
F 45

F 40 / 156 196

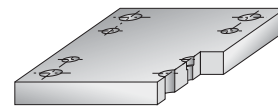
/ S / 1730 2085

F 45 / 156 196

/ S / 1730 2085



17	●	
22	●	●
27	●	

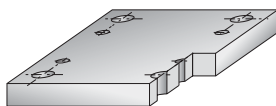


17	●	
22	●	●
27	●	

F 60

F 60 / 156 196

/ S / 1730 2085 2312



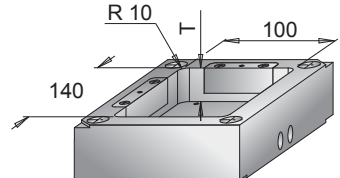
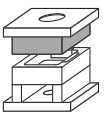
22	●	●	●
27	●	●	●
36	●	●	●
46	●	●	●
56	●		
66	●		

FW 54

FW 54 / 156 196

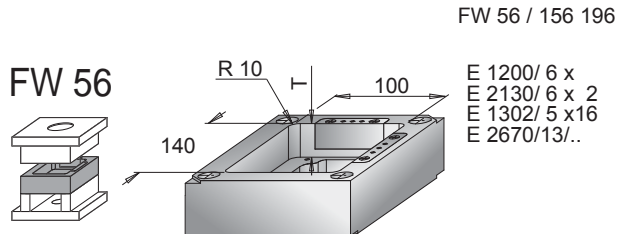
/ S / T /

2085 2312



E 1200/ 6 x ..
E 2130/ 6 x 2
E 1302/ 5 x16
E 2670/13/..

46	25	●	●
56	32	●	●
66	40	●	●



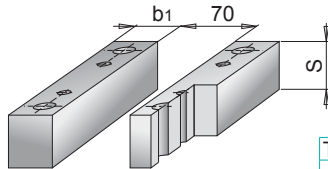
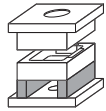
FW 56

FW 56 / 156 196 / S / T /
 E 1200/ 6 x
 E 2130/ 6 x 2
 E 1302/ 5 x16
 E 2670/13/..

[i](#) ⇒ 302

S	T	2085	2312
46	25	•	•
56	32	•	•
66	40	•	•

FW 70

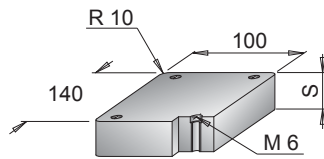


T (FW 56)	S
25	46
32	56
40	66

FW 70 / 156 196 / b1 / S / 1730

b1	S	1730	2085
43	46	•	•
	56	•	•
	66	•	•

FW 50

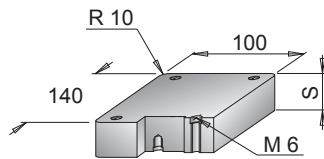
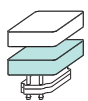


[i](#) ⇒ 303

FW 50 / 156 196 / S /

S	2311	2714HH	3.4365
25	•	•	•
32	•	•	•
40	•	•	•

FW 52

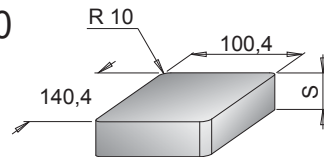


[i](#) ⇒ 304

FW 52 / 156 196 / S /

S	2311	2714HH	3.4365
25	•	•	•
32	•	•	•
40	•	•	•

NF 2660

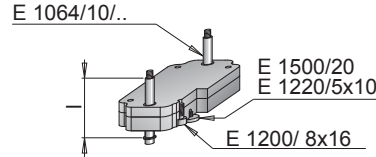


[i](#) ⇒ 305

NF 2660 / 100 140 / S / R /

S	R	2083	2311	2343ESU	2767
25	10	•	•	•	•
32		•	•	•	•
40		•	•	•	•
50		•	•	•	•
60		•	•	•	•
70		•	•	•	•

FW 90



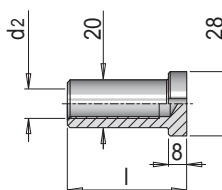
[i](#) ⇒ 307

FW 90 / 156 196 / I / 1730

I	1730	2085
60	•	•
73	•	•
85	•	•

E 1516

Gewindeinsatz für Auswerferpaket
 Threaded insert for ejector set



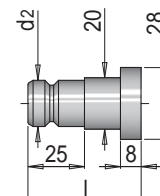
[i](#) ⇒ 310

Mat.: 1.7131 ≈ 660 N/mm²

d2	I	Nr. /No.
M12	45	E 1516/12/45
	65	E 1516/12/65

E 1517

Zapfen für Auswerferpaketkupplung
 Dowel for ejector set coupling



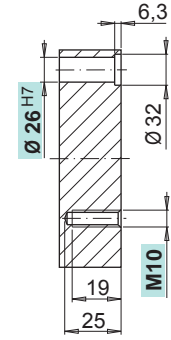
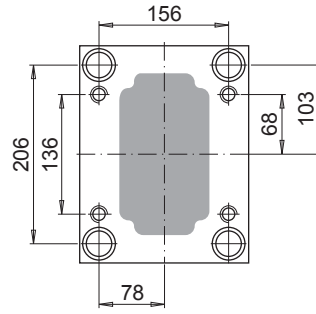
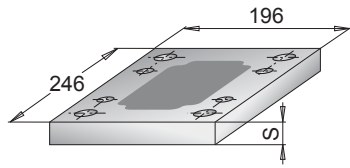
[i](#) ⇒ 311

Mat.: 1.2379 ≈ 56 HRC

d2	I	Nr. /No.
18	47	E 1517/18/47



196 246



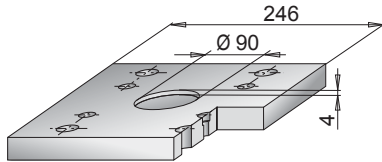
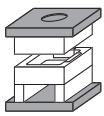
F 10 / 196 246

/ S / 1730 2085

F 15 / 196 246

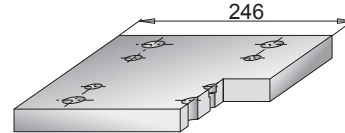
/ S / 1730 2085

F 10
F 15



22	●	●
27	●	●
36	●	

22	●	●
27	●	●
36	●	



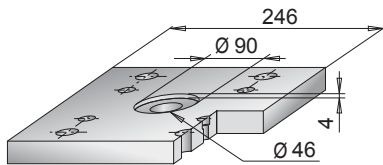
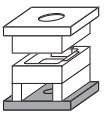
FW 10 / 196 246

/ S / 1730 2085

FW 15 / 196 246

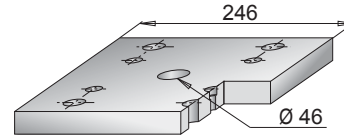
/ S / 1730 2085

FW 10
FW 15



27	●	●
----	---	---

27	●	●
----	---	---



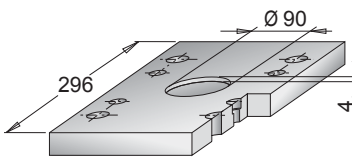
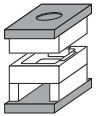
F 20 / 196 246

/ S / 1730 2085

F 25 / 196 246

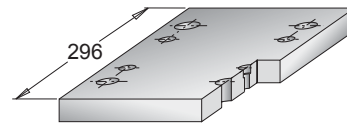
/ S / 1730 2085

F 20
F 25



22	●	●
27	●	●
36	●	

22	●	●
27	●	●
36	●	



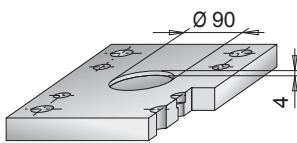
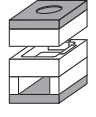
F 40 / 196 246

/ S / 1730 2085

F 45 / 196 246

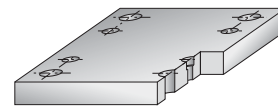
/ S / 1730 2085

F 40
F 45



22	●	●
27	●	●

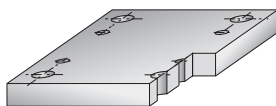
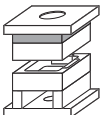
22	●	●
27	●	●



F 60 / 196 246

/ S / 1730 2085 2312

F 60



22	●	●	●
27	●	●	●
36	●	●	●
46	●	●	●
56	●		●
66	●		

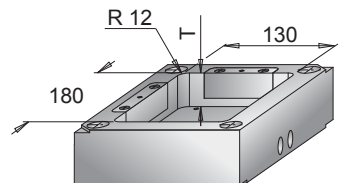
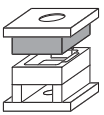
FW 54 / 196 246

/ S / T /

2085

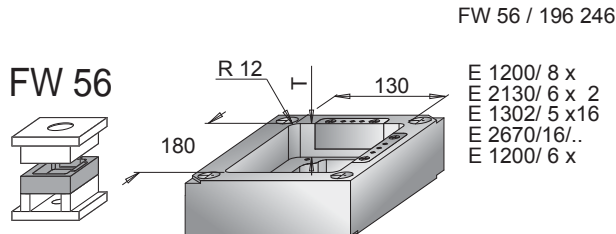
2312

FW 54



E 1200/ 8 x ..
E 2130/ 6 x 2
E 1302/ 5 x 16
E 2670/ 16/..
E 1200/ 6 x ..

56	32	●	●
66	40	●	●
76	50	●	●



FW 56 / 196 246

- E 1200/ 8 x
- E 2130/ 6 x 2
- E 1302/ 5 x16
- E 2670/16/..
- E 1200/ 6 x

i ⇒ 302

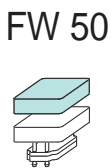
/ S / T /	2085	2312
56	32	•
66	40	•
76	50	•



FW 70 / 196 246

T (FW 56)	S
32	56
40	66
50	76

b1 / S / 1730	2085
48	56
	66
	76



FW 50 / 196 246

i ⇒ 303

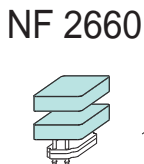
/ S /	2311	2714HH	3.4365
32	•	•	•
40	•	•	•
50	•	•	•



FW 52 / 196 246

i ⇒ 304

/ S /	2311	2714HH	3.4365
32	•	•	•
40	•	•	•
50	•	•	•



NF 2660 / 130 180 /

i ⇒ 305

/ S / R /	2083	2311	2343ESU	2767
32	12	•	•	•
40		•	•	•
50		•	•	•
60		•	•	•
70		•	•	•



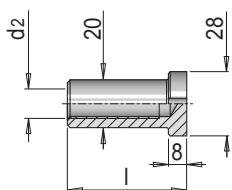
FW 90 / 196 246

i ⇒ 307

/ I / 1730	2085
73	•
85	•
95	•

E 1516

Gewindeinsatz für Auswerferpaket
Threaded insert for ejector set



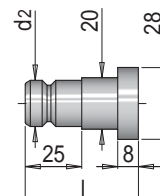
Mat.: 1.7131 ≈ 660 N/mm²

i ⇒ 310

d2	l	Nr. /No.
M12	45	E 1516/12/45
	65	E 1516/12/65

E 1517

Zapfen für Auswerferpaketkupplung
Dowel for ejector set coupling



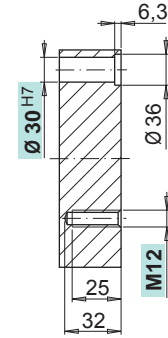
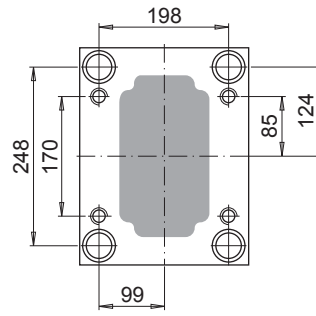
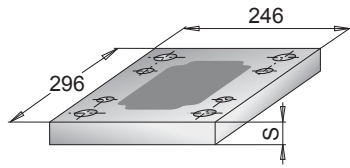
Mat.: 1.2379 ≈ 56 HRC

i ⇒ 311

d2	l	Nr. /No.
18	47	E 1517/18/47

H
P
P
P
N

246 296



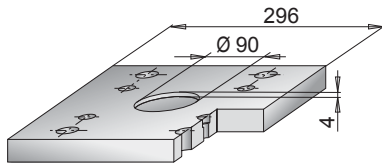
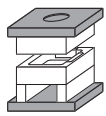
F 10 / 246 296

/ S / 1730 2085

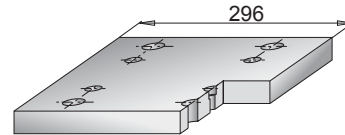
F 15 / 246 296

/ S / 1730 2085

F 10
F 15



27	•	•
36	•	•



27	•	•
36	•	•

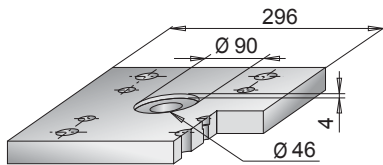
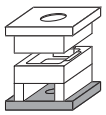
FW 10 / 246 296

/ S / 1730 2085

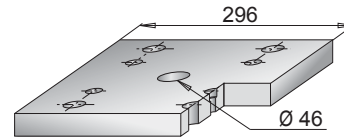
FW 15 / 246 296

/ S / 1730 2085

FW 10
FW 15



27	•	•
----	---	---



27	•	•
----	---	---

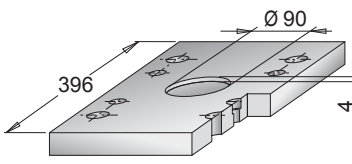
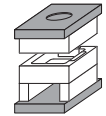
F 20 / 246 296

/ S / 1730 2085

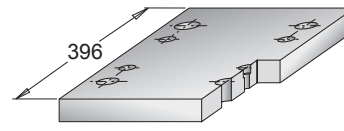
F 25 / 246 296

/ S / 1730 2085

F 20
F 25



27	•	•
36	•	•



27	•	•
36	•	•

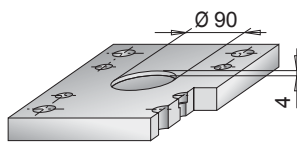
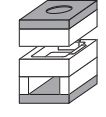
F 40 / 246 296

/ S / 1730 2085

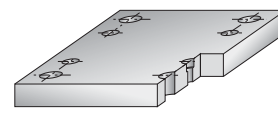
F 45 / 246 296

/ S / 1730 2085

F 40
F 45



22	•	
27	•	•
36	•	•



22	•	
27	•	•
36	•	•

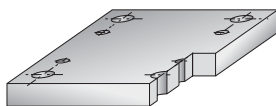
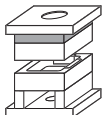
F 60 / 246 296

/ S / 1730

2085

2312

F 60



22	•		
27	•	•	•
36	•	•	•
46	•	•	•
56	•	•	•
66	•		

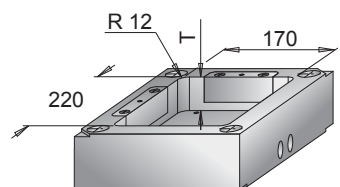
FW 54 / 246 296

/ S / T /

2085

2312

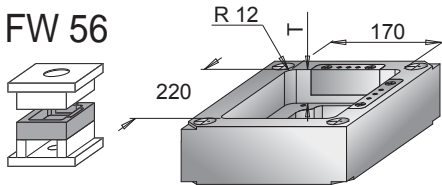
FW 54



E 1200/ 8 x ..
E 2130/ 8 x 2
E 1302/ 5 x16
E 2670/19/..

76	40	•	•
86	50	•	•
96	60	•	•

FW 56



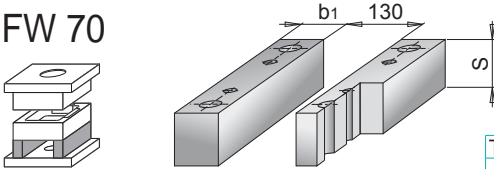
FW 56 / 246 296

E 1200/ 8 x
E 2130/ 8 x 2
E 1302/ 5 x16
E 2670/19/..

⇒ 302

	/ S /	2085	2312
76	40	●	●
86	50	●	●
96	60	●	●

FW 70

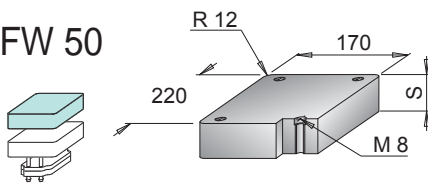


FW 70 / 246 296

T (FW 56)	S
40	56
50	66
60	76

b1 / S /	1730	2085
58	56	●
	66	●
	76	●

FW 50

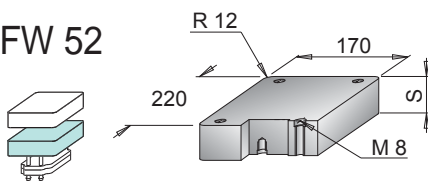


FW 50 / 246 296

⇒ 303

/ S /	2311	2714HH	3.4365
40	●	●	●
50	●	●	●
60	●	●	●

FW 52

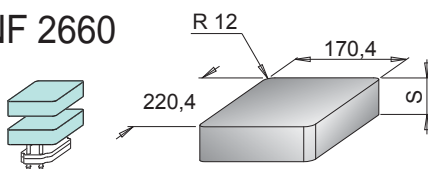


FW 52 / 246 296

⇒ 304

/ S /	2311	2714HH	3.4365
40	●	●	●
50	●	●	●
60	●	●	●

NF 2660

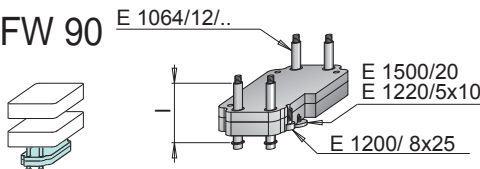


NF 2660 / 170 220 /

⇒ 305

/ S / R /	2083	2311	2343ESU	2767
40	12	●	●	●
50		●	●	●
60		●	●	●
70		●	●	●

FW 90



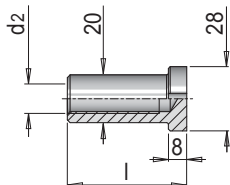
FW 90 / 246 296

⇒ 307

/ I /	1730	2085
80	●	●
90	●	●
100	●	●

E 1516

Gewindeinsatz für Auswerferpaket
Threaded insert for ejector set



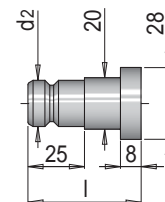
Mat.: 1.7131 ≈ 660 N/mm²

⇒ 310

d2	l	Nr. /No.
M12	45	E 1516/12/45
	65	E 1516/12/65

E 1517

Zapfen für Auswerferpaketkupplung
Dowel for ejector set coupling



Mat.: 1.2379 ≈ 56 HRC

⇒ 311

d2	l	Nr. /No.
18	47	E 1517/18/47

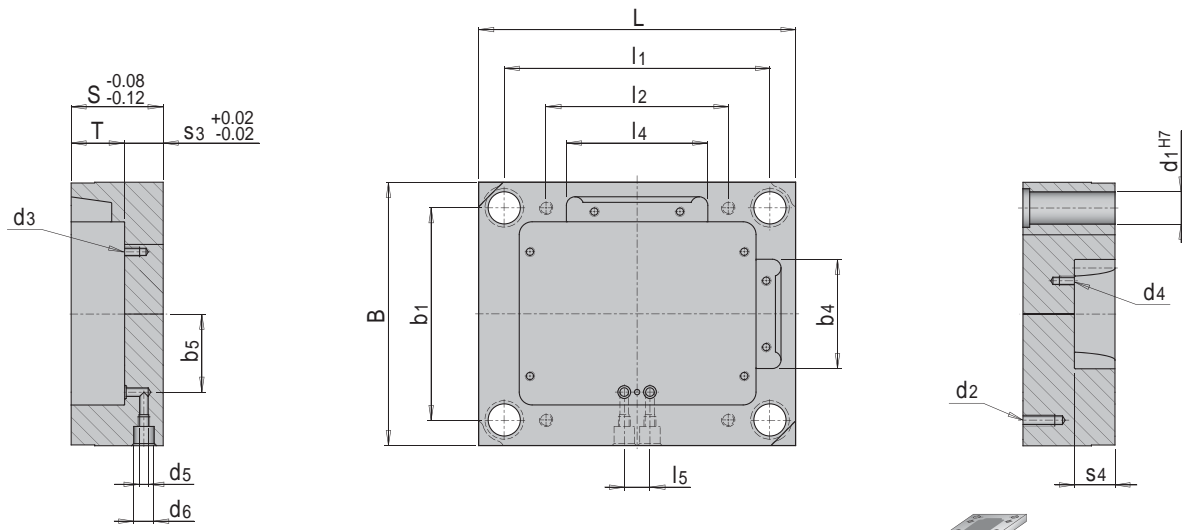


FW 541



Wechselformplatte düsen-
seitig

Change mould fixed half
cavity plate

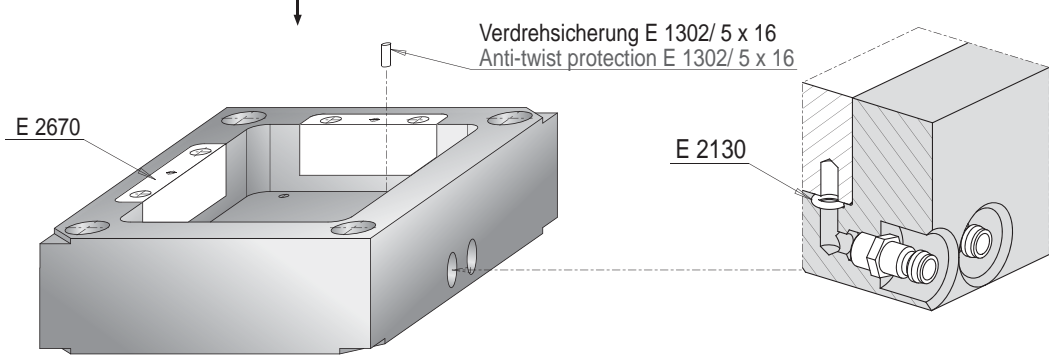
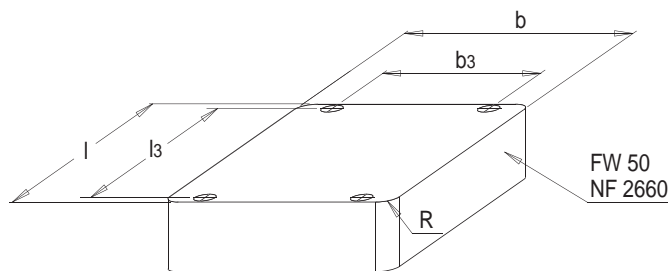


3.2/

F ..



b1	l1	d1	l2	d2	d3	s3	b4	l4	d4	s4	b5	l5	d5	d6	Nr./No.	B	L	S	T	2085	2312			
124	164	20	100	M10	M 6	21	60	84	M 6	19.9	42	24	M10x1	20	FW 541	156	196	46	25	●	●			
						24				23.9										56	32	●	●	
						26				29.9											66	40	●	●
156	206	26	136		M 8	24	78	108		23.9	57				FW 541	196	246	56	32	●	●			
						26			29.9												66	40	●	●
									37.9												76	50	●	●
198	248	30	170	M12		36	102	132	M 8	29.9	73				FW 541	246	296	76	40	●	●			
									37.9												86	50	●	●
									44.9												96	60	●	●



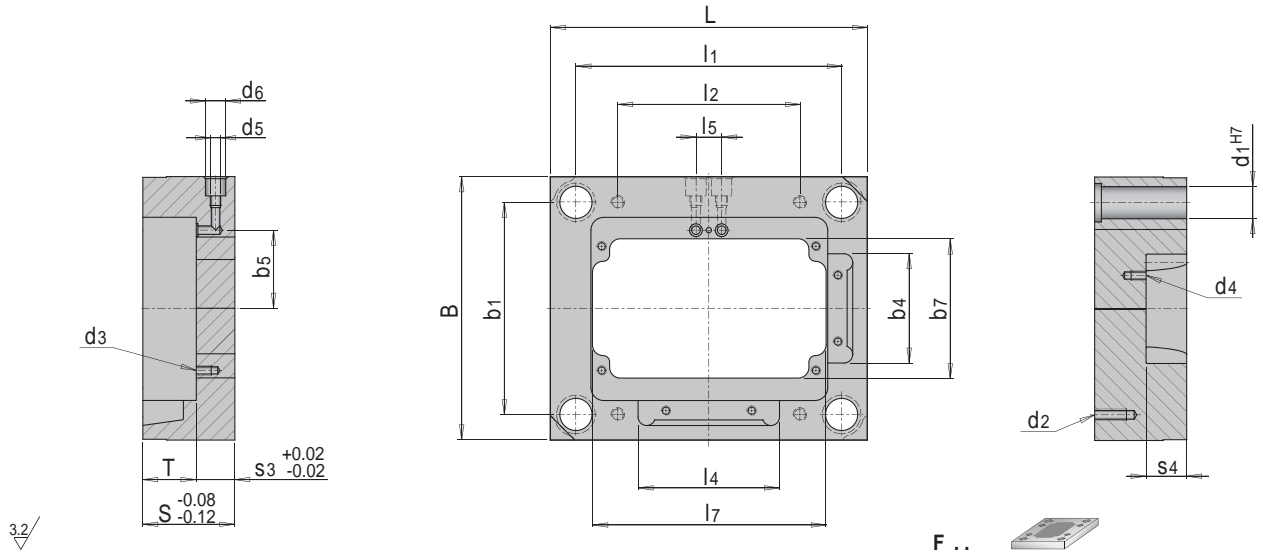
B	L	b	l	R	b3	l3	E 2130
156	196	100	140	10	60	122	E 2130/ 6 x 2
196	246	130	180	12	90	160	E 2130/ 6 x 2
246	296	170	220	12	116	200	E 2130/ 8 x 2

FW 561

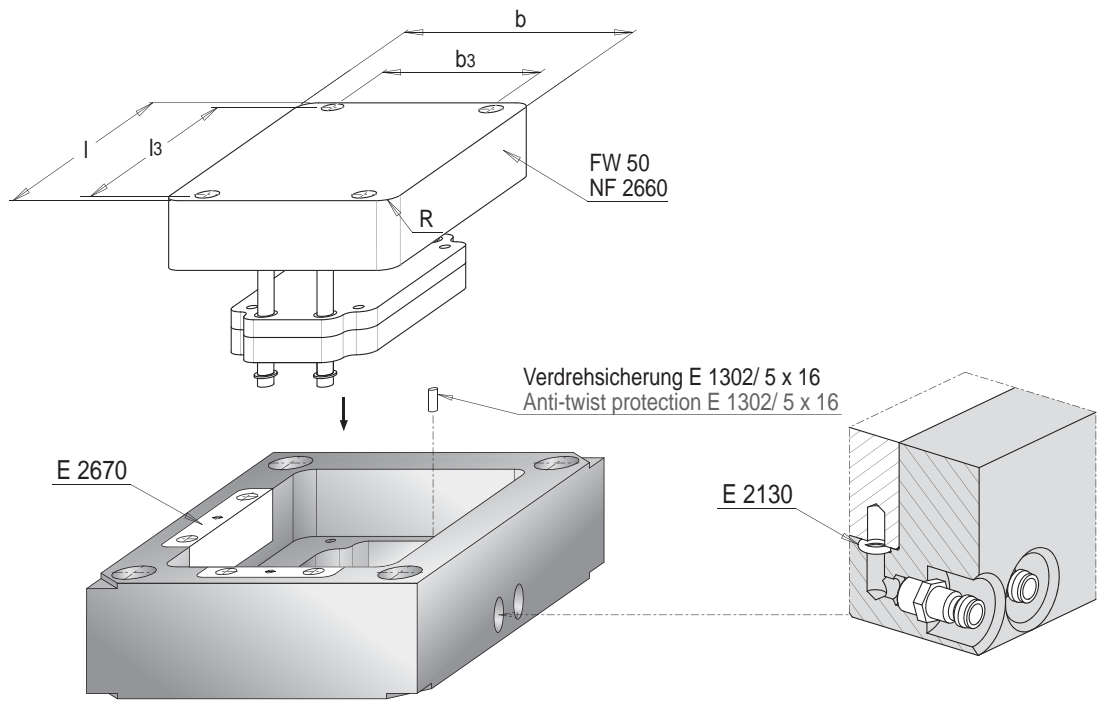


Wechselformplatte auswerferseitig

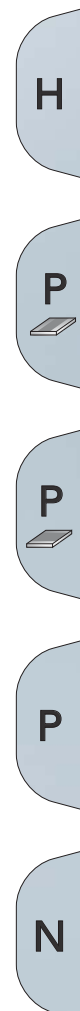
Change mould moving half cavity plate



b1	l1	d1	l2	d2	d3	s3	b4	l4	d4	s4	b5	l5	d5	d6	b7	l7	Nr./No.	B	L	S	T	2085	2312
124	164	20	100	M10	M 6	21	60	84	M 6	19.9	42	24	M10x1	20	70	138	FW 561	156	196	46	25	●	●
						24				23.9										56	32	●	●
						26				29.9										66	40	●	●
156	206	26	136		M 8	24	78	108		23.9	57				100	178	FW 561	196	246	56	32	●	●
						26				29.9										66	40	●	●
						37.9				37.9										76	50	●	●
198	248	30	170	M12		36	102	132	M 8	29.9	73				130	218	FW 561	246	296	76	40	●	●
						37.9				37.9										86	50	●	●
						44.9				44.9										96	60	●	●



B	L	b	l	R	b3	l3	E 2130
156	196	100	140	10	60	122	E 2130/ 6 x 2
196	246	130	180	12	90	160	E 2130/ 6 x 2
246	296	170	220	12	116	200	E 2130/ 8 x 2

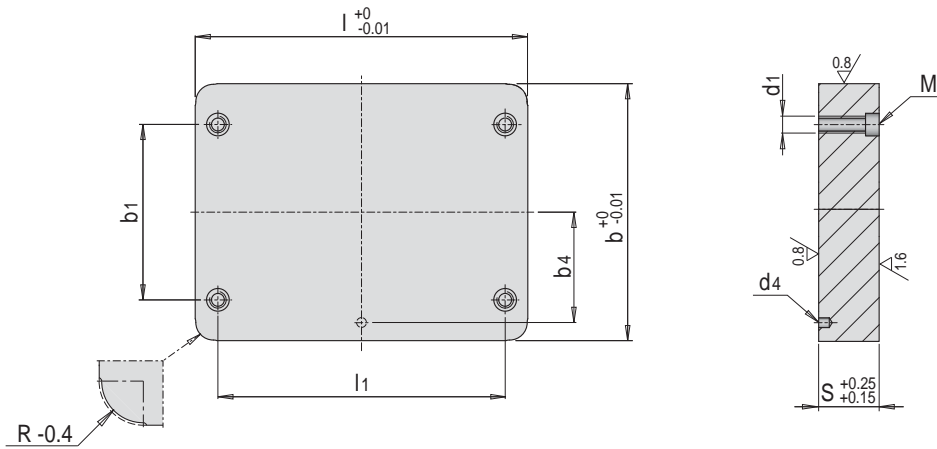


FW 50



Wechseleinsatz, düsen-
seitig

Change insert, fixed half



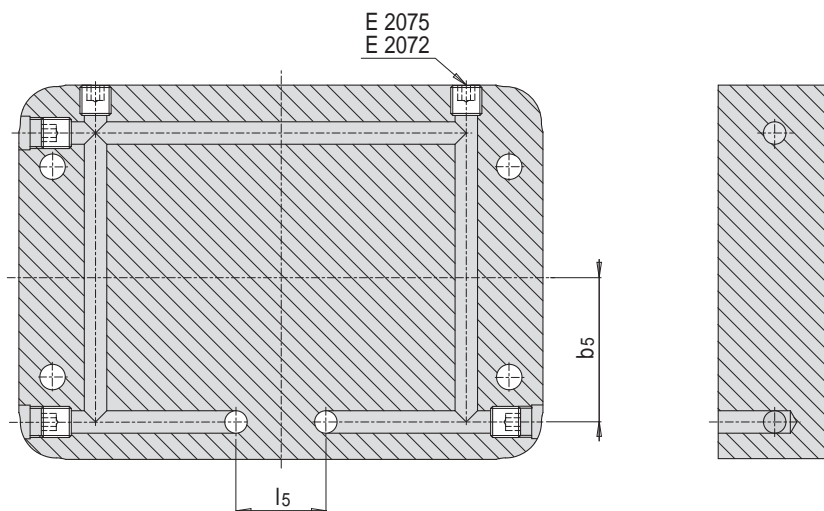
3.2/

F ..

b	l	b1	l1	d1	b4	d4	M	R	Nr./No.	B	L	S	2311	2714HH	3.4365
100	140	60	122	M 8	42	7.5	M 6	10	FW 50	156	196	25	●	●	●
												32	●	●	●
												40	●	●	●
130	180	90	160	M10	57		M 8	12	FW 50	196	246	32	●	●	●
												40	●	●	●
												50	●	●	●
170	220	116	200		73				FW 50	246	296	40	●	●	●
												50	●	●	●
												60	●	●	●

Beispiel für Temperierführung

Example for temperature regulating circuits



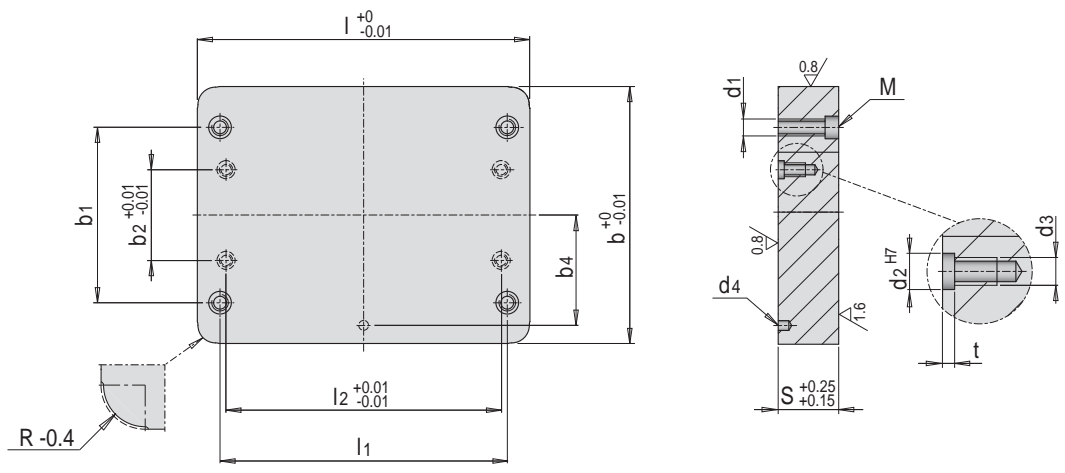
B	L	b5	l5
156	196	42	24
196	246	57	
246	296	73	

FW 52



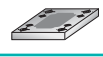
Wechseleinsatz, auswerferseitig

Change insert, moving half

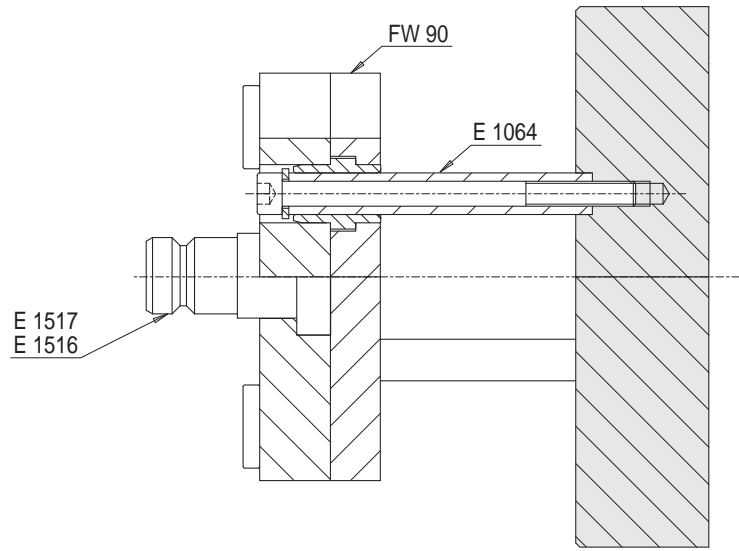


3.2/

F ..



b	l	b1	l1	d1	b2	l2	d2	d3	b4	d4	M	R	t	Nr./No.	B	L	S	2311	2714HH	3.4365
100	140	60	122	M 8	-	112	10	M 6	42	7.5	M 6	10	4	FW 52	156	196	25	●	●	●
																	32	●	●	●
																	40	●	●	●
130	180	90	160	M10	40	152			57		M 8	12		FW 52	196	246	32	●	●	●
																	40	●	●	●
																	50	●	●	●
170	220	116	200		60	192	12	M 8	73					FW 52	246	296	40	●	●	●
																	50	●	●	●
																	60	●	●	●



H

P

P

P

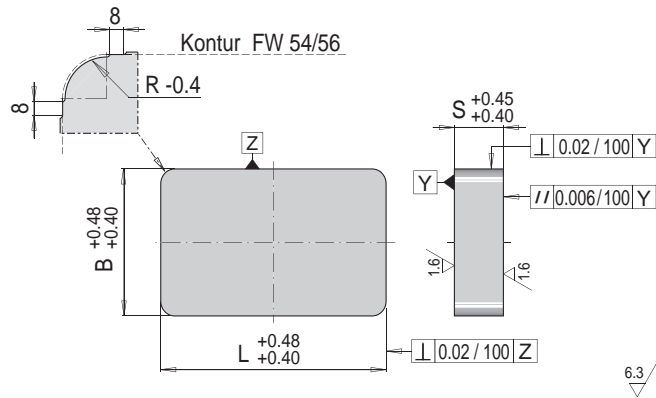
N

NF 2660



Formeinsatz

Insert



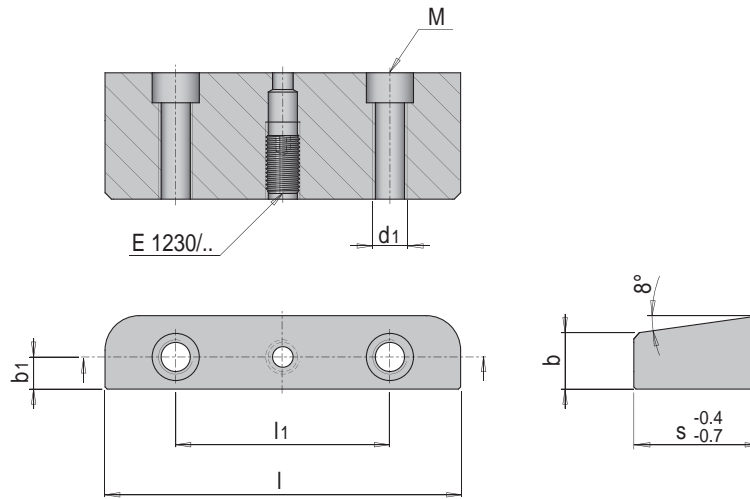
FW 54 / FW 56	Nr./No./	B	L	/	S	/	R	/	2083	2311	2343ESU	2767
156 196	NF 2660 /	100	140	/	25	/	10	/	●	●	●	●
					32				●	●	●	●
					40				●	●	●	●
					50				●	●	●	●
					60				●	●	●	●
					70				●	●	●	●
196 246	NF 2660 /	130	180	/	32	/	12	/	●	●	●	●
					40				●	●	●	●
					50				●	●	●	●
					60				●	●	●	●
246 296	NF 2660 /	170	220	/	40	/	12	/	●	●	●	●
					50				●	●	●	●
					60				●	●	●	●
					70				●	●	●	●

E 2670



Positionierkeil

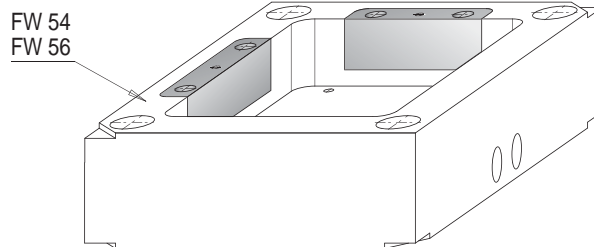
Positioning wedge



Mat.: 1.2842 ≈ 58 HRC

3.2/

FW 54 / FW 56	b1	l1	d1	E 1230/..	M	b	l	s	Nr./No.
156 196/ 46/25/...	7.5	36	M 8	8 x 10	M 6	13	59	20	E 2670/13/ 59/20
156 196/ 56/32/...				8 x 12				24	E 2670/13/ 59/24
156 196/ 66/40/...				8 x 16				30	E 2670/13/ 59/30
156 196/ 46/25/...				8 x 10				20	E 2670/13/ 83/20
156 196/ 56/32/...	9	50	M 8	8 x 12	M 6	16	83	24	E 2670/13/ 83/24
156 196/ 66/40/...				8 x 16				30	E 2670/13/ 83/30
196 246/ 56/32/...				10 x 12				24	E 2670/16/ 77/24
196 246/ 66/40/...				10 x 16				30	E 2670/16/ 77/30
196 246/ 76/50/...	10.5	62	M10	10 x 25	M 8	19	107	38	E 2670/16/ 77/38
196 246/ 56/32/...				10 x 12				24	E 2670/16/107/24
196 246/ 66/40/...				10 x 16				30	E 2670/16/107/30
196 246/ 76/50/...				10 x 25				38	E 2670/16/107/38
246 296/ 76/40/...	80	65	M10	10 x 16	M 8	19	101	30	E 2670/19/101/30
246 296/ 86/50/...				10 x 25				38	E 2670/19/101/38
246 296/ 96/60/...				10 x 30				45	E 2670/19/101/45
246 296/ 76/40/...				10 x 16				30	E 2670/19/131/30
246 296/ 86/50/...	10.5	80	M10	10 x 25	M 8	19	131	38	E 2670/19/131/38
246 296/ 96/60/...				10 x 30				45	E 2670/19/131/45

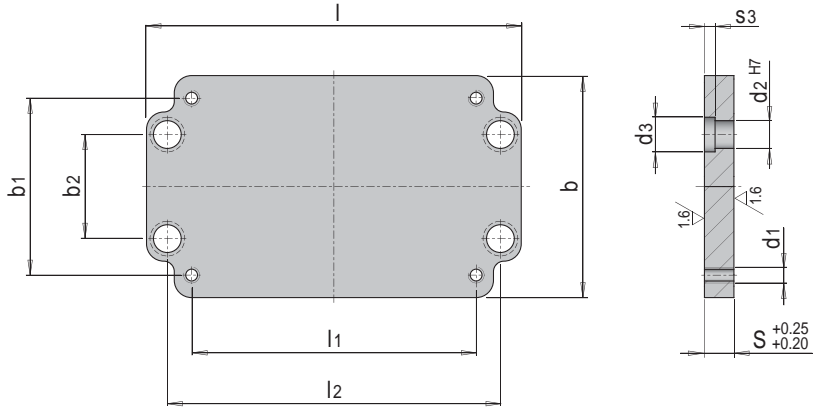


FW 80



Auswerferhalteplatte für Wechselform

Ejector retaining plate for change mould



3.2

F ..



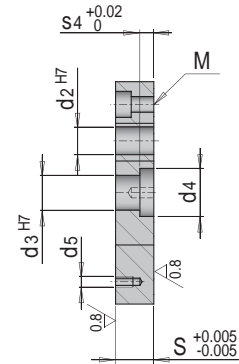
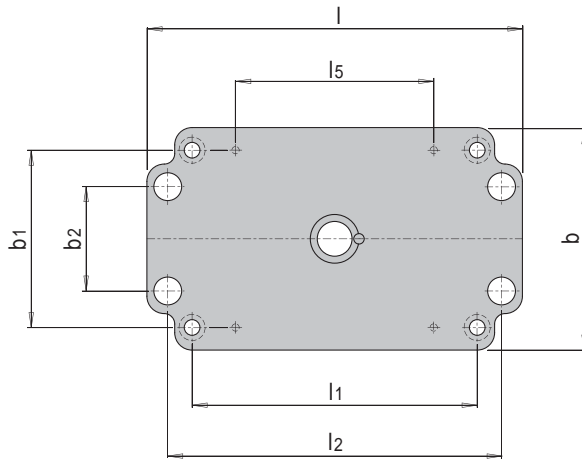
b	l	b1	l1	d1	b2	l2	d2	d3	s3	Nr./No.	/ B	L	/ S	/ 1730	2085
68	136	42	84	M8	-	112	14	18	6.1	FW 80	156	196	12	●	●
98	176	72	124		40	152				FW 80	196	246	12	●	●
128	216	102	164		60	192	16	20		FW 80	246	296	17	●	●

FW 85



Auswerfergrundplatte für Wechselform

Ejector base plate for change mould

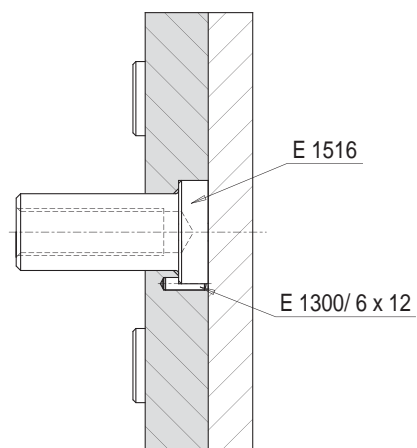
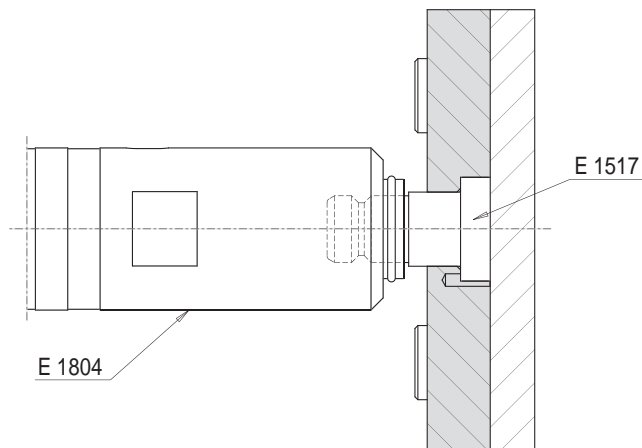


3.2/

F ..



b	l	b1	l1	d2	b2	l2	d3	d4	s4	d5	l5	M	Nr./No.	B	L	S	1730	2085
68	136	42	84	14	-	112	20	28	8	M 5	46	M 8	FW 85	156	196	17	●	●
98	176	72	124		40	152					74		FW 85	196	246	17	●	●
128	216	102	164	16	60	192					114		FW 85	246	296	22	●	●



H

P

P

P

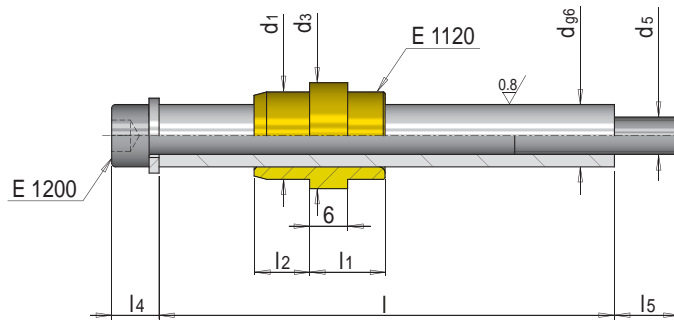
N

E 1064



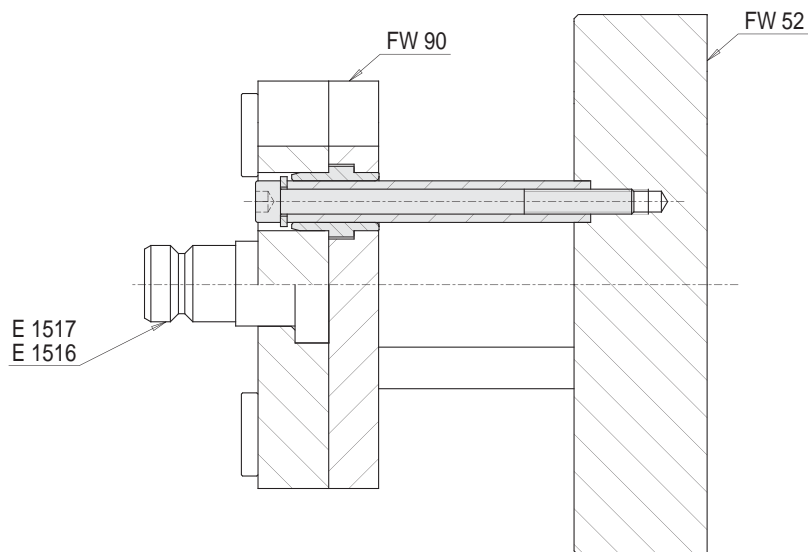
Führungseinheit für Auswerferpaket

Guiding unit for ejector set



Mat.: St / 2.0598

l ₁	d ₁	l ₂	d ₃	l ₄	l ₅	d ₅	d	l	Nr. /No.
12	14	9	17	7.6	8.4	M 6	10	60	E 1064/10/ 60
					10.4			73	E 1064/10/ 73
					8.4			85	E 1064/10/ 85
17	16		19	9.6	13.4	M 8	12	95	E 1064/10/ 95
								80	E 1064/12/ 80
								90	E 1064/12/ 90
								100	E 1064/12/100

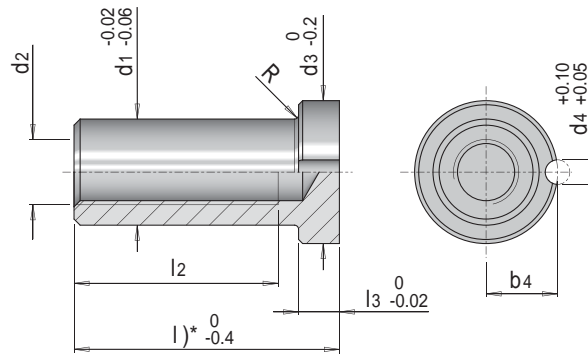


E 1516



Gewindeinsatz für Auswerferpaket

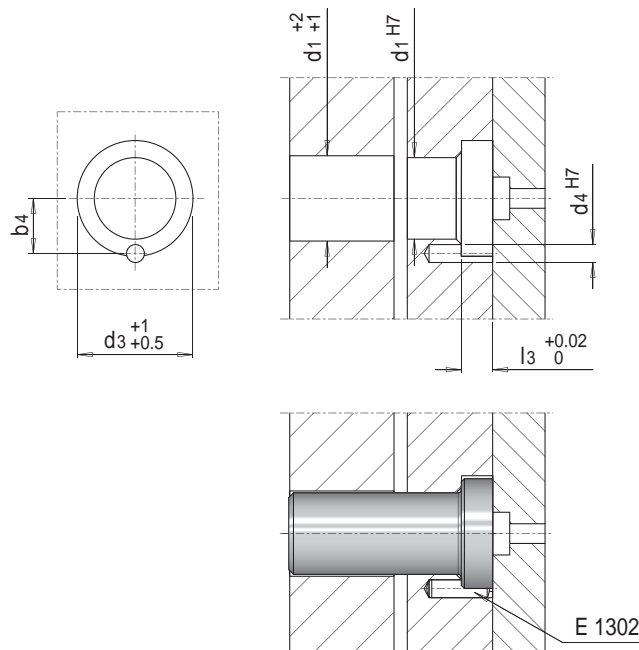
Threaded insert for ejector set



Mat.: 1.7131 \approx 660 N/mm²

R	d4	l3	b4	d1	d3	l2	d2	l	Nr./No.
0.5	6	6	13	18	26	25	M10	45	E 1516/10 / 45
						30		55	E 1516/10 / 55
1	6	8	14	20	28	30	M12	45	E 1516/12 / 45
						35		65	E 1516/12 / 65
			17.5	26	35	50	M16	65	E 1516/16 / 65
								100	E 1516/16 /100
			17.5	26	35	50	M16x1.5	65	E 1516/16x1.5/ 65
								100	E 1516/16x1.5/100
			20	30	40	45	M20	65	E 1516/20 / 65
								100	E 1516/20 /100
			20	30	40	45	M22x1.5	65	E 1516/22x1.5/ 65
								100	E 1516/22x1.5/100
23	36	46	45	M24x1.5	65	E 1516/24x1.5/ 65			
					100	E 1516/24x1.5/100			

l)* Bei Bedarf ablängen
Cut to length if necessary

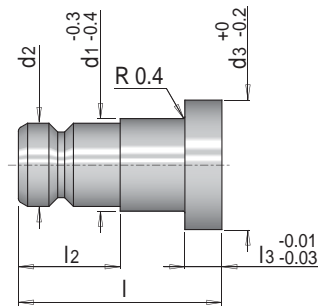


E 1517



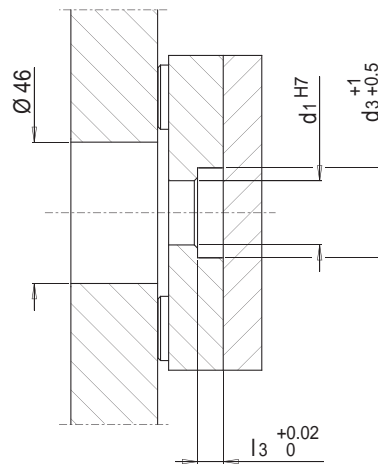
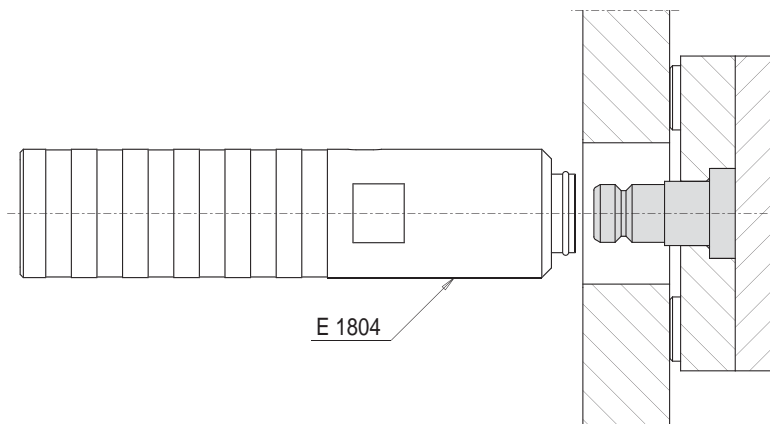
Zapfen für
Auswerferpaketkupplung

Dowel for ejector set
coupling



Mat.: 1.2379 \approx 56 HRC

d1	l2	l3	d3	d2	l	Nr./No.
20	25	8	28	18	47	E 1517/18/47

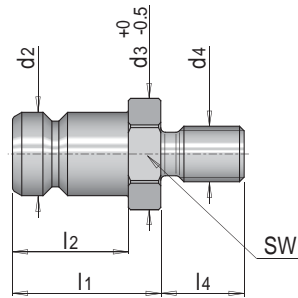


E 1518



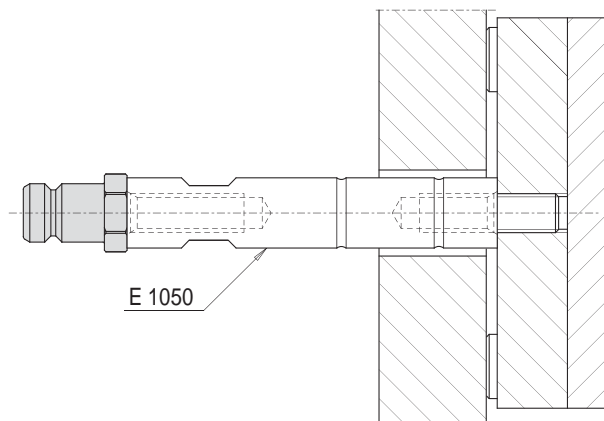
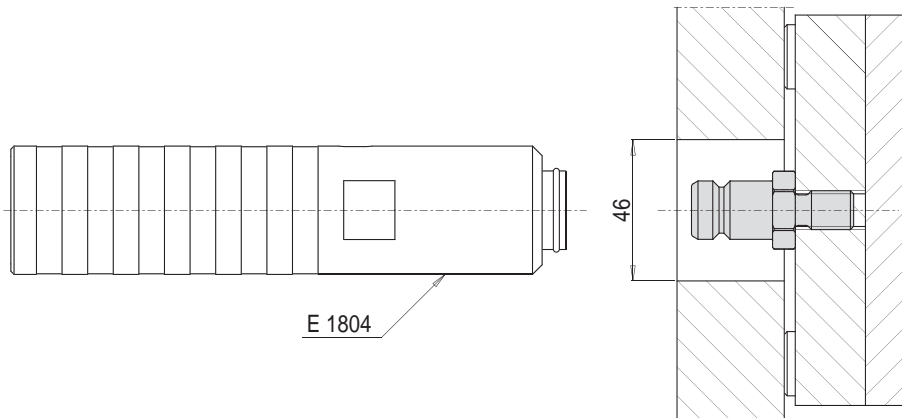
Zapfen für
Auswerferpaketkupplung
mit Gewinde

Dowel for ejector set
coupling, threaded



Mat.: 1.2379 ≈ 56 HRC

SW	l ₂	d ₃	l ₄	d ₂	l ₁	d ₄	Nr./No.
22	25	25	16	18	32	M12	E 1518/18/ 32/ 12
24		27	21			M16	E 1518/18/ 32/ 16

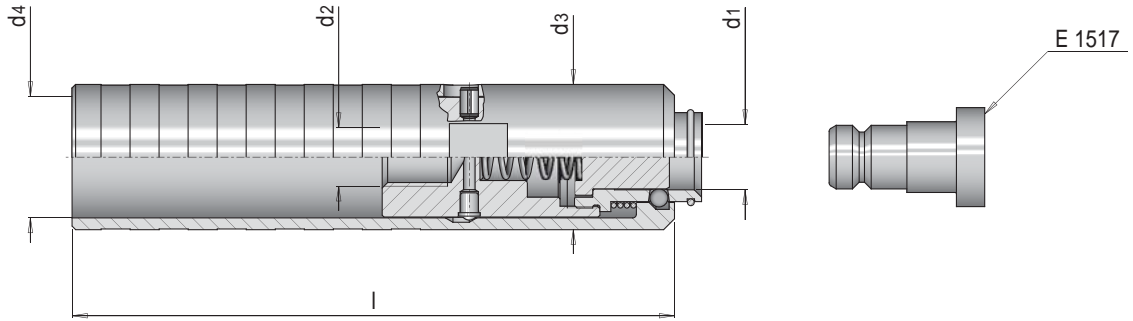


E 1804

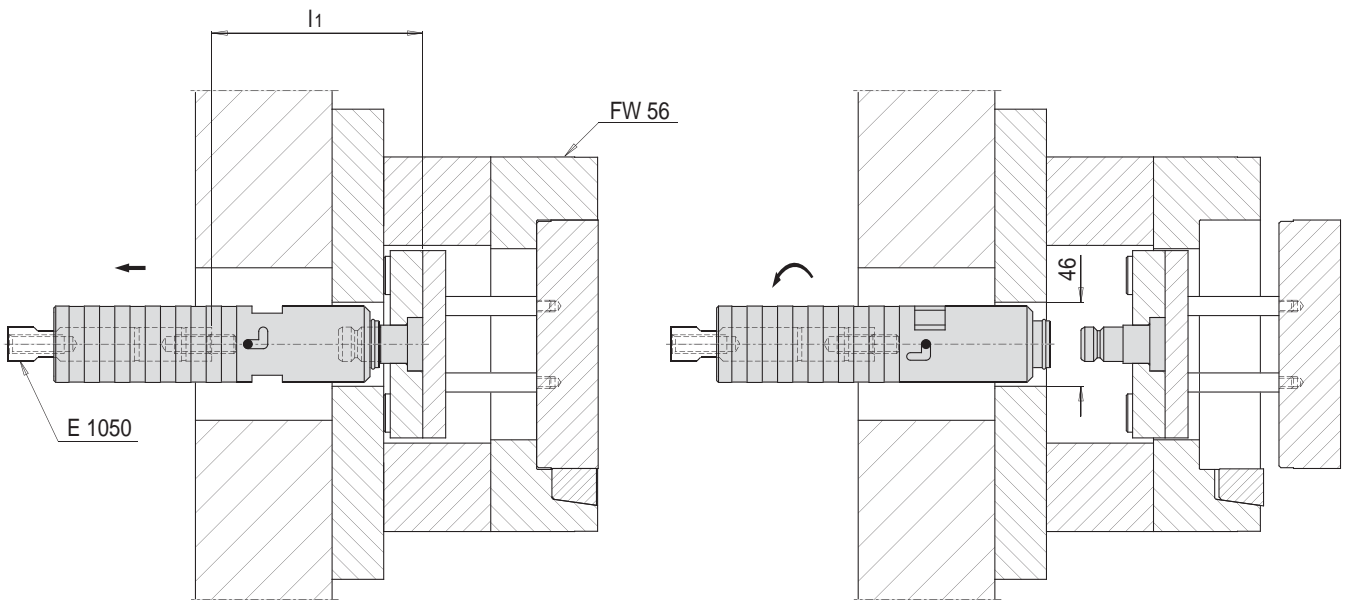


Auswerferpaketkupplung

Ejector set coupling



l_1	d_3	d_4	d_1	d_2	l	Nr./No.
117	40	34	18	M12	166	E 1804/18/12/166
				M16		E 1804/18/16/166



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