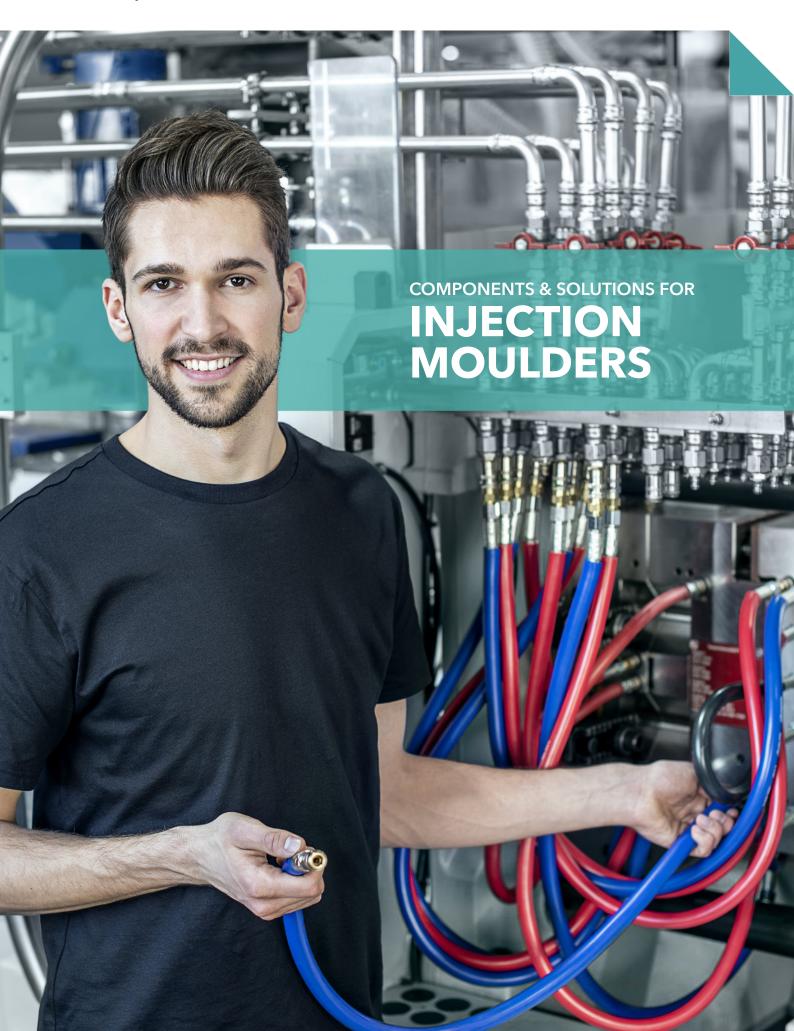
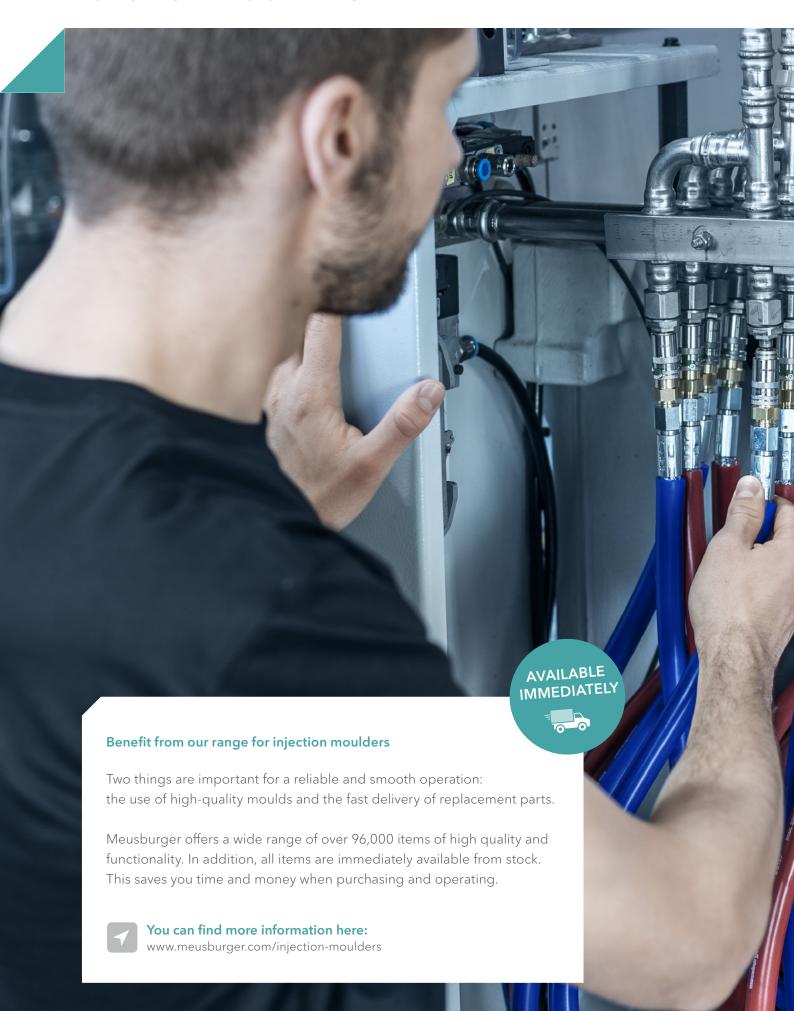
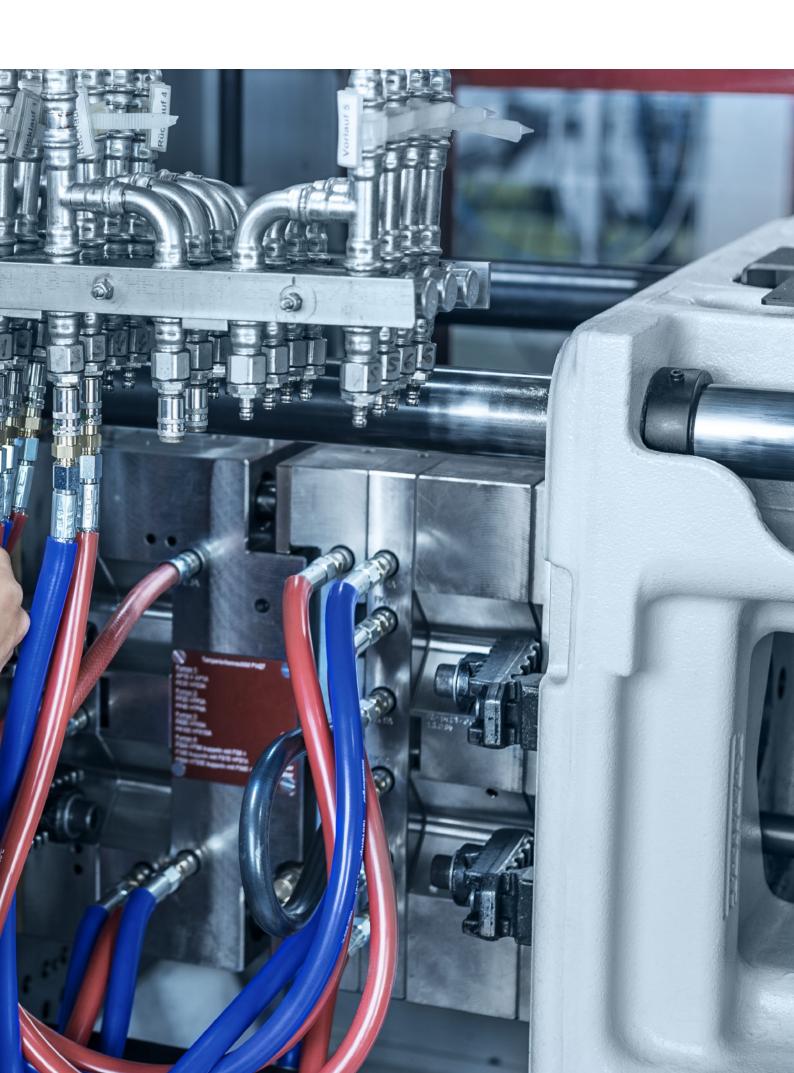


Standards for your success.



HIGH-QUALITY COMPONENTS FOR INJECTION MOULDING





OUR PRODUCTS AT A GLANCE



Temperature regulation

Page 6 - 19

Reliable and safe elements for temperature control of your moulds create the best conditions to avoid production downtimes.



Ejectors & core pins

Page 20 - 23

We offer a large range and easy ordering options for ejectors and core pins.



Marking stamps

Page 24 - 25

Our marking stamps are available in diameters from 2.6 to 16 mm.



Electrical components

Page 26 - 37

As well as a wide range of industrial connectors, we offer components for optimum process monitoring.



Guides

Page 38 - 41

Reliable guiding elements ensure a longer service life of the mould and therefore higher output quantity.



Attachments

Page 42 - 43

To make your mould complete, we also offer the corresponding attachments. See our unique solutions for yourself.



Hot runner controllers

Page 44 – 47

Our profiTEMP+ features innovative technology and space-saving design.



Consumables & workshop equipment

Consumables: page 48 - 51

Workshop equipment: page 52 – 53

With a range of high-quality consumables and tools that is tailored to the needs of an injection moulding workshop, nothing stands in the way of a smooth process in production.

TEMPERATURE REGULATION



The right temperature regulation is a very important factor in high part quality. Rely on Meusburger's high quality to prevent downtimes due to leaking temperature regulation components.



Couplings



Hose lines and connections



Sealing plugs and accessories

Ordering examples for couplings



d ₁	d2	d1	d2

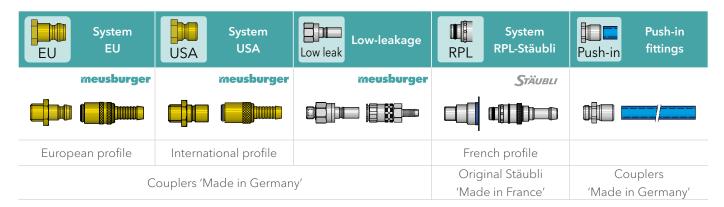
		Or	Ordering example		
Fitting	ltem	Type (≈d2)	Thread (d1)		
	E 2000	/ 9 /	9		

	-	C	Ordering example			
Coupler	ltem	Type (≈d1)	ø Nozzle or thread (d2)			
'	E 2200	/ 19 /	19			
	E 2370	/ 13.5 /	3/8			

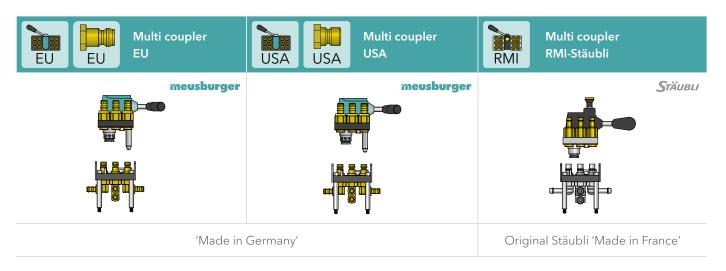
COUPLING SYSTEMS OVERVIEW

Production on the injection moulding machine must be clean and efficient with no downtimes. A suitable coupling system is decisive for a reliable and fast changeover. Meusburger offers high-quality coupling systems and delivers them immediately from stock.

Single couplers



Multi couplers





With the multi couplers EU, USA and RMI it is possible to couple to the mould side with the single couplers of the same system. This helps during the changeover phase in injection moulding from single to multi couplers and in mould making during pressure testing.



COUPLING SYSTEMS OVERVIEW



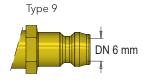
Tip:

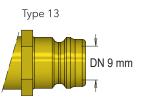
Here the systems are shown on a scale of 1:1 for easy identification.

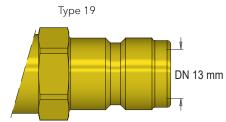
System EU







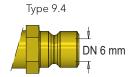


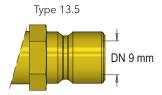


System USA



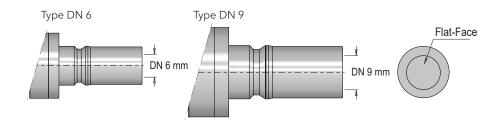






Low-leakage

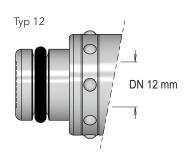




System RPL-Stäubli



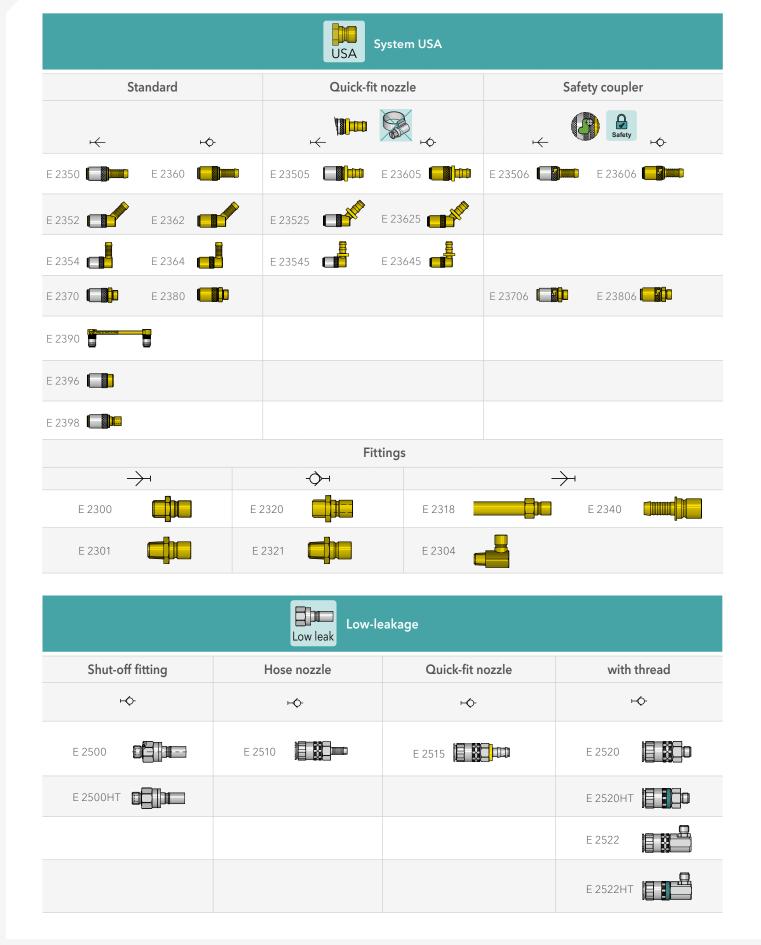




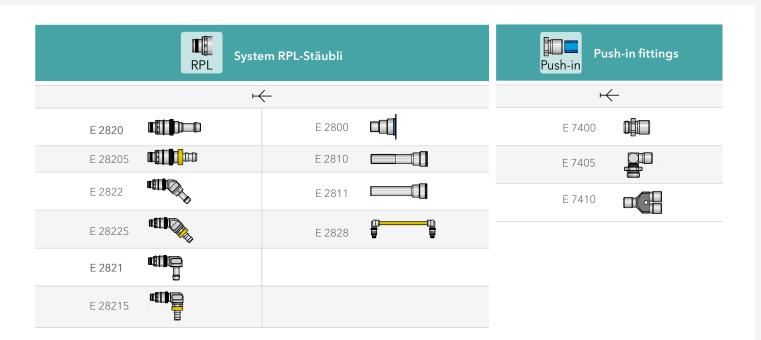
COUPLINGS RANGE



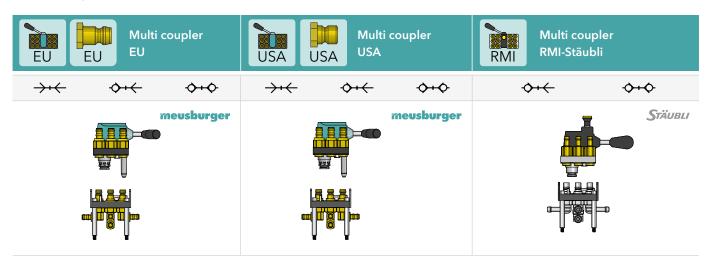
COUPLINGS RANGE



COUPLINGS RANGE



Multi coupler







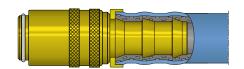
QUICK-FIT SYSTEM



Quick-fit coupling system for coolant hoses

The shape of the nozzle and the special construction of the hose enable time-saving installation without clips. Only specially suited quick-fit coolant hoses (e.g. E 2185) may be used.





Assembly











Removal





Tip: For easier assembly we recommend slipping the E 2185 quick-fit coolant hose on with the help of warm soapy water.



More information in our film: www.meusburger.com/quick-fit-coupling-system

Tools

V 20420



E 21990







SAFETY COUPLER



Automatic safety hose coupler

There is a risk of scalding from a water temperature of 55 °C. Unintended decoupling can have fatal consequences. The automatic safety coupler offers the ideal solution.









- » Automatic locking when coupling
- » Simple and intuitive decoupling which can be done with one hand
- » Also ideal for high temperature applications due to a special seal (oil 220 °C, water 180 °C)



More information in our film:

www.meusburger.com/safety-coupler



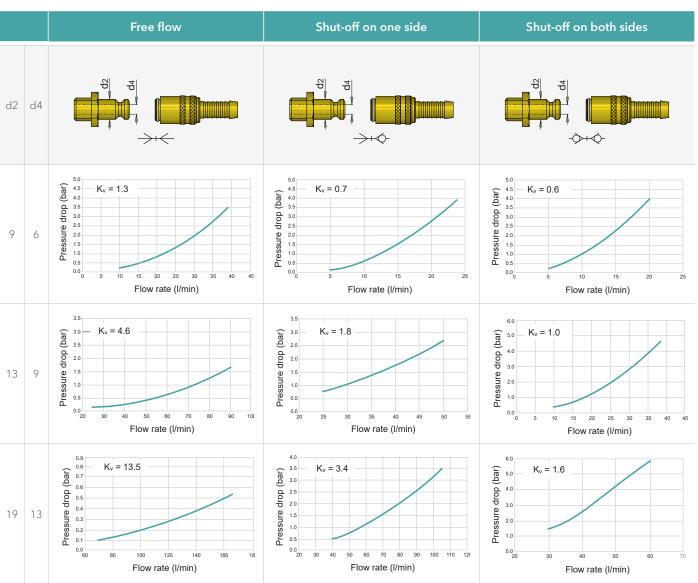


WATER FLOW DIAGRAM





System EU / System USA



 $K_V = flow coefficient$

Values and diagrams apply to the EU system.

The values of the USA system are very similar.

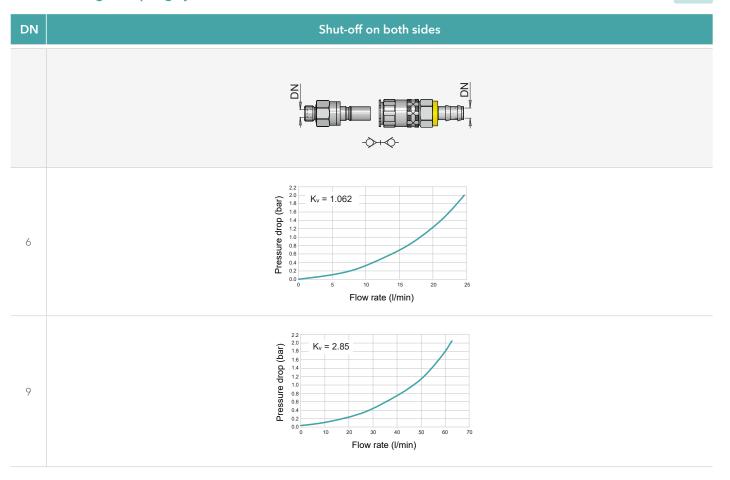


Tip: Use the free flow to achieve the full cooling capacity. You can secure the connection against unintentional opening with an automatic safety coupler.

WATER FLOW DIAGRAM

Low leak

Low-leakage coupling system



 $K_V = flow coefficient$



HOSE LINES AND CONNECTIONS OVERVIEW

	Hose	Me	edium	Temp.	Pressure	Assembly	Description
E 2180		Water Air	Steam	140 °C	20 bar		EPDM coolant hose
E 2182		Water Air		60°C	12 bar		PVC coolant hose
E 2185		Water Air		140 °C	28 bar		Quick-fit coolant hose
E 2187	IsoTemp*	Water Oil	Air Steam	200 °C	60 bar		IsoTemp® high temperature hose
E 21872		Water Oil	Air Steam	200 °C	60 bar		нigh temperature hose
E 7450		Water Oil	Air	90 °C	6 – 16 bar		Flexible plastic tubing PU-H plus
E 7451		Water Oil	Air	60 °C	6 – 14 bar		Flexible plastic tubing PU-H

E 2190 E 2196 Ferrule Hose crimper E 2198 E 2192 Crimping tool for 2-lug 2-lug hose clamp hose clamps E 2194 / E 21949 V 34000 Hose clamp Hexagon socket wrench E 2165 V 20420 Manifold Hose and pipe cutter E 21990 Hose assembly device

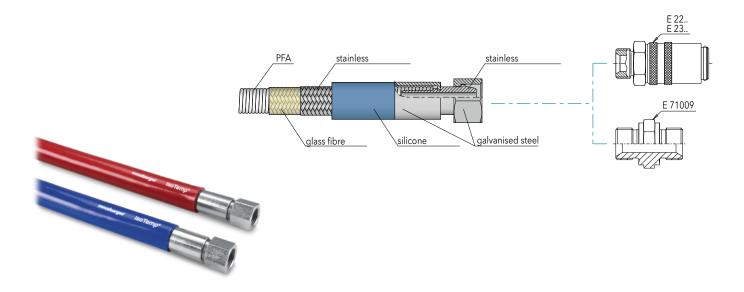
HIGH TEMPERATURE HOSE

E 2187 IsoTemp® high temperature hose

IsoTemp®

The IsoTemp® combines tried and trusted technology with a new silicone sheath.

- » Insulation and protection against burns through integrated silicone sheath
- » No abrasion or damage on the metal sheath and therefore no risk of injury from protruding wires
- » High durability and maximum flexibility



The different systems in use



Safety coupler



Quick-fit system



High temperature hose IsoTemp® with safety coupler

CLOSE TEMPERATURE CONTROL CIRCUITS SAFELY

Sealing plugs with thread

Tapered

E 2074



Screw plug with hexagon socket

E 2074 D

Screw plug, tapered with sealant

E 20749



Screw plug, tapered from stainless steel

Cylindrical

E 2080



Screw plug, cylindrical, without sealant

E 2075



Screw plug, cylindrical

E 20809



Screw plug, cylindrical from stainless steel

With collar

E 2076



Screw plug with collar and copper sealing washer

E 20767



Steel screw plug with collar and copper washer

E 20769



Stainless steel screw plug with collar and copper washer

E 20760



Screw plug with sealing cone

E 7140



Screw plug with collar, from steel

Sealing plugs without thread

E 2071



Expander sealing plug

E 20719



Expander sealing plug from stainless steel

E 2072



Copper blank

E 2078



Sealing plug

E 2079



Plug with O-ring seal

Suitable tools:



E 2073Punch for copper blank



E 2077
Pliers set with E 2078
sealing plugs
d1 = 6 - 12 mm



E 20775
Pliers set with E 2078
sealing plugs
d1 = 14 - 16 mm



V 30410Phillips screwdriver, extra long

DEFLECTION ELEMENTS & OTHER PRODUCTS

Deflection elements O-rings O-ring seal E 2137 Deflection element E 2130 Water: 100 °C, oil: 180 °C High temperature O-ring seal Deflection element, E 21311 Water: 200 °C, oil: 200 °C adjustable E 2141 Deflection unit V 28100 Deflection unit, Assembly tool set for O-rings E 2142 adjustable

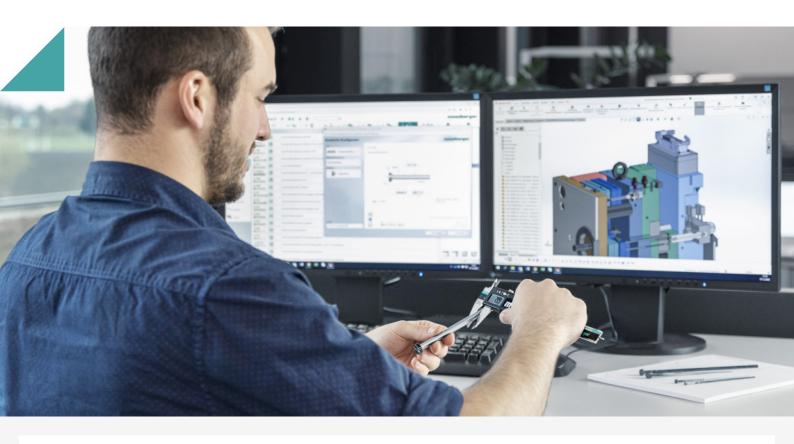


Tip: Especially for temperature regulation with hot water above 100 °C, the usual FKM materials harden quickly and lose their elasticity and thus the sealing effect. To prevent this, use the E 21311 high temperature O-ring seals for water temperatures over 100 °C.

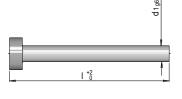
Further products

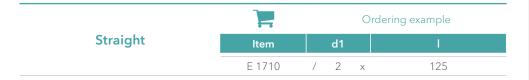
E 2025	Extension with female thread	E 2084	Socket
E 20625 E 20665	Quick-fit nozzle with union nut	E 2030 E 2030S	Marking chips
E 71009	Straight screw-in socket from stainless steel	E 2170	PTFE sealing band, high density
E 71109	Adjustable 90° elbow fitting from stainless steel	VBA 5M42	Thread sealant, medium strength and medium viscosity
E 2088 E 2090	Swivel coupling	VBA 5M69	High-temperature thread sealant, medium strength
E 2081	Double threaded fitting	VBA 5M77	Pipe sealant, medium strength and high viscosity
E 2082	Reducing fitting	E 2175	Set: Quick adapters for leak test
E 2083	Reducing fitting		

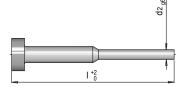
EJECTORS & CORE PINS



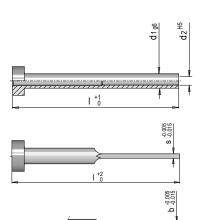
Our comprehensive range of ejectors and core pins includes numerous types in various designs and materials. We deliver these directly from stock. With the configurator, the pins can be cut to length according to customer requirements.







		Ordering example			
Offset	ltem	d2	l l		
	E 1700 DLC	/ 0.5 x	80		



d1	d2	1	
8	/ 5 x	200	
		8 / 5 x	

			Ordering example				
_,	ltem	b	s	I		l2	
Flat	E 1725	/ 3.8 /	0.8	x 63			
	with extra lo	ong blade					
	E 17264	/ 3.8 /	0.8	x 125	/	93	

EJECTORS AND CORE PINS OVERVIEW

Туре	Material / version									
	≈1.2210	≈1.2210 DLC	≈1.2343 non-nitrided	≈1.2343 nitrided	≈1.2343 nitrided / oxidised	≈1.2344	≈1.3343 (HSS)	≈1.3343 (HSS) DLC	≈1.4112	Copper
Ejector pin, straight	E 1710	E 1710 DLC		E 1741	E 1740		E 17103		E 17109	
Ejector pin, straight with conical head 60°	E 1715			E 1745						
Ejector pin with anti-twist lock on one side	E 1711									
Ejector pin with anti-twist lock	E 1712									
Ejector pin, offset	E 1700				E 1730		E 17003	E 1700 DLC		
Ejector pin, offset with anti-twist lock	E 1702									
Ejector sleeve	E 1720			E 1750						
Ejector sleeve, stepless	E 1723									
Blade ejector pin	E 1725				E 1755					
Blade ejector pin with 2 angle radii	E 1727	E 1727 DLC								
Blade ejector pin with 4 angle radii	E 1728	E 1728 DLC								
Blade ejector pin with extra long blade	E 1726 →									
Blade ejector pin with extra long blade, 2 angle radii	E 17262	E 17262 DLC								
Blade ejector pin with extra long blade, 4 angle radii	E 17264	E 17264 DLC								
Core pin			E 1742							E 1780
Contour core pin	E 1786					E 1790				
Ejector pin for ventilation	E 1770	E 1770 DLC								

DLC-COATED EJECTORS

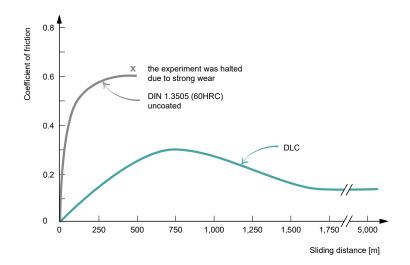


Tip: In case of increased wear of the ejector bore, it is recommended to use ejectors with DLC coating. The low coefficient of friction of the DLC layer protects the bore and reduces wear to a minimum.

Advantages of the DLC coating

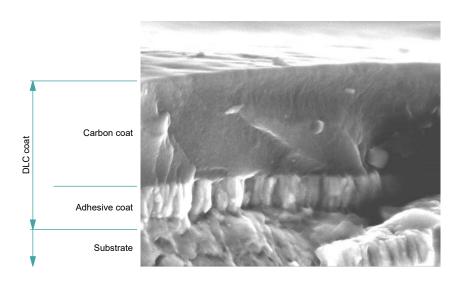
- » Minimised wear thanks to excellent sliding properties
- » Increased corrosion resistance and service life
- » Guaranteed interchangeability through exact tolerances
- » Best dry-running properties enable use in cleanrooms
- » Leaves no stains on plastic parts





Composition and characteristics of a DLC coating

The coating is largely made up of the chemical element carbon. It consists of an adhesive coat and a carbon coat.



Properties of the DLC coating

- » Hardness ≈ 3,000 HV
- » Coating thickness $\approx 2 \mu m$
- » Coefficient of friction against steel:0.1 0.15

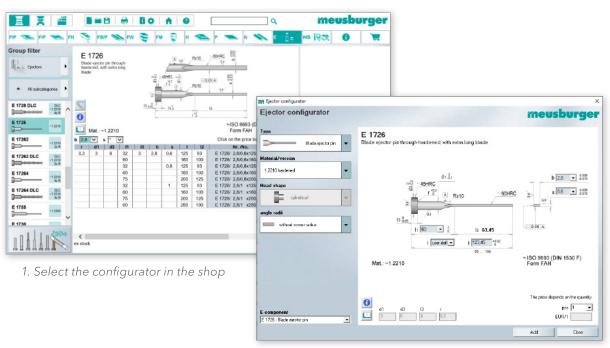
EJECTOR CONFIGURATOR

Using our ejector configurator, you can quickly and easily order an ejector cut to length and ready to use with a length tolerance of 0/+0.02 mm.

How you benefit

- » Direct ordering of ready-to-use ejectors without enquiry process
- » Intuitive and easy to use right in our web shop
- » CAD data of your individual ejector available immediately after configuration





2. Configure and order ejector



More information in our film:

www.meusburger.com/ejector-configurator



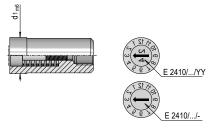
Tip: Alternatively, you can also order the ready-to-use ejectors via email, telephone or fax. Important here is the specification of the length tolerance of 0/+0.02 mm.

	Ordering example							
ltem		d1		- 1	Tol			
E 1710	/	5	X	100	0/+0.02			

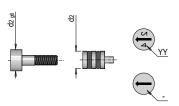
MARKING STAMPS



We offer a wide range of marking stamps with diameters from 2.6 to 16 mm. These are available with fixed height or latching function.

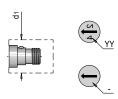


		Orderi	ng example
Marking stamps	ltem	d1	YY 1)
3 - 3 - 4 - 4	E 24065	/ 8	
	E 2400	/ 16	/ 24



		Ordering example			
Arrow inserts	ltem	d2	YY 1)		
	E 2410	/ 2.5			
	E 2450	/ 5 /	24		

Arrow inserts with latching function



	Ordering example			
ltem	d1	YY 1)		
E 2430 R	/ 6			
E 2430 R	/ 8	/ 24		

¹⁾ YY: Order example with year 2024

MARKING STAMPS OVERVIEW

Marking				Ту	pe			
	Standard			W				
	Stamp, long	Stamp with f	ixed height, long	Stamp, short		Stamp, short with latching function		Die casting
Day				E 2423				
Duy				E 2431				
Week				E 2421				
Month	E 2400	E 24005	E 2440	E 2420	E 24005 R	E 2420 R	E 2420 MR	E 24760
Year	E 2404	E 24045	E 2444	E 2424	E 24045 R	E 2424 R	L 2420 WIIV	
Quarter	E 2405			E 2425				
Shift	E 2408			E 2428				
0-9	E 2402	E 24025		E 2422		E 2422 R		
A-M	E 2406	E 24065		E 2426				
N-Z	E 2407			E 2427				
Blank	E 2409	E 24095	E 2449	E 2429 🕣		E 2429 R		
Arrow insert	E 2410		E 2450	E 2430 🗳 🗀	E 2430 R	(A) R		
Labelling stamp E 2460 E 2465 T A CE								

zaseming stamp	22.000 xx	
Stamp, short, weeks co	ombination	E 2421 C
Stamp, short, date combination		E 2423 C ()

Suitable tools:



V 30220 Flat screwdriver, micro



Tip: Especially at high injection pressures, our marking stamps with latching function prevent the arrow insert from twisting by itself.

ELECTRICAL COMPONENTS



A large variety of industrial connectors with a corresponding cable range offer you a high number of combination possibilities. We also have a wide selection of proximity and limit switches as well as magnetic proximity sensors, thermocouples and pressure sensors in range. With our additional accessories, your mould is ideally equipped for reliable production.

Industrial connectors

E 2700 to E 27421

- » Plug, socket, cable and sleeve housings
- » Female and male inserts
- » Various accessories (plugs, reducers and covers)
- » All available individually



Mechanical limit switches

E 6500 to E 6526

- » Each in different installation positions
- » Ingress protection IP66/67
- » Operating temperatures up to 240 °C

Magnetic proximity sensors

E 6562, E 65620 and E 6563

- » Position monitoring for the E 7020 and E 7021 hydraulic cylinders
- » Ingress protection IP66/67
- » Operating temperatures up to 130 °C



Inductive sensors

E 6502 to E 65601

- » With housing, screw-in thread or flat
- » Operating temperatures up to 150 °C





Distributors and electrical connections

- » Logic distributors **E 6574**, **E 65740** and **E 6576**
- » Terminal block **E 6570**
- » Y distributor **E 65731**
- » With matching cable, plug and socket assortment

Thermocouples

E 6700 to E 6712

- » Different variants for recessed or surface mounting
- » Thermocouple type J
- » Operating temperatures up to 400 °C





Cavity pressure sensors

Direct measurement **E 6740**Indirect measurement **E 6750**

- » Piezoelectric operating principle
- » Pressures up to 2,500 bar
- » Compatible with the current systems on the market

General components

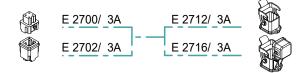
- » Cartridge heater **E 6800**
- » Cable retainers **E 2765** to **E 2766**
- » Testing device for proximity sensors **E 6586**
- » Test lamp for limit switches **E 6585**
- » Mounting bracket for sensor E 6594
- » Marking chips **E 2030S**



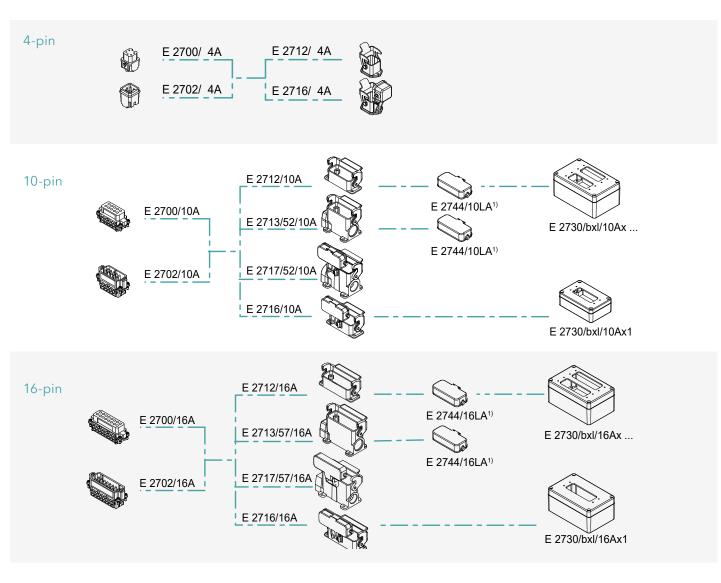
CONNECTOR, SOCKET, AND CABLE HOUSING TYPE A

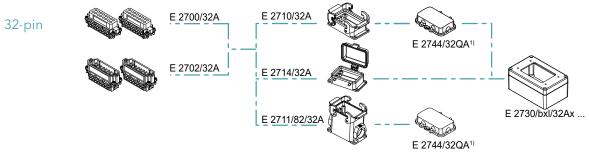
Selection guide





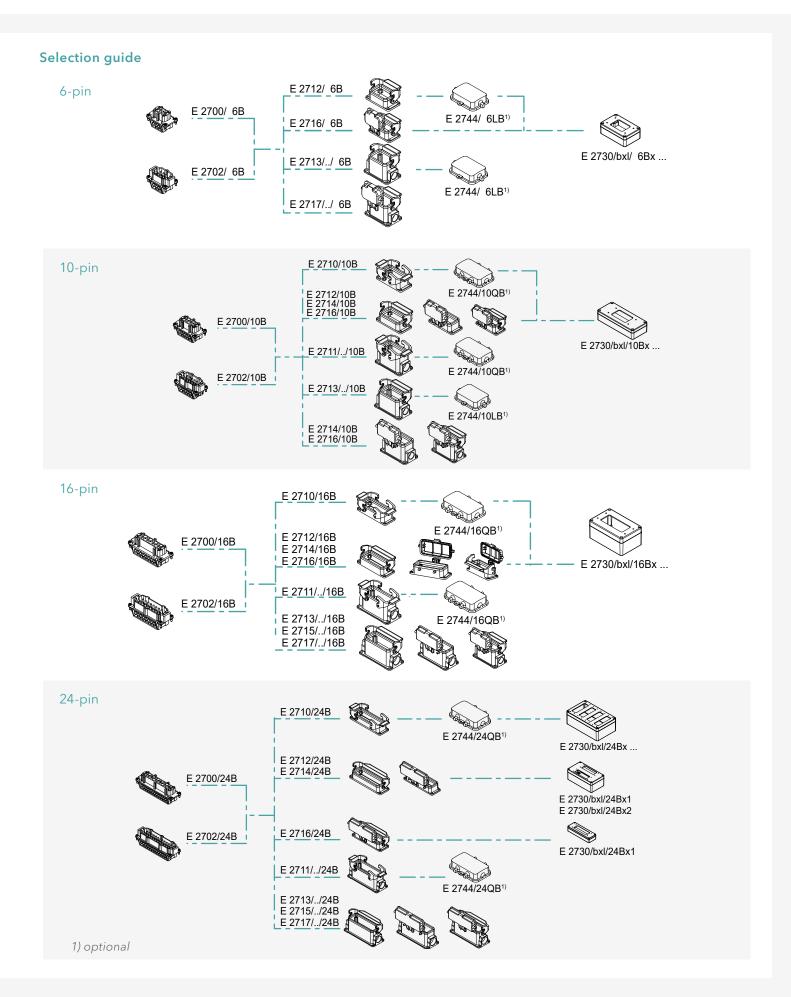
Tip: The connectors can be individually assembled and used for both control and power lines, e.g. in hot runner control systems.





1) optional

CONNECTOR, SOCKET, AND CABLE HOUSING TYPE B



SLEEVE HOUSING TYPE A

Selection guide 3-pin E 2700/ 3A E 2722/ 3A/N E 2712/ 3A E 2716/ 3A E 2702/ 3A E 27421/20/ 5 E 27421/20/10 4-pin E 2700/ 4A E 2722/ 4A/N E 2712/ 4A E 2716/ 4A E 2702/ 4A E 27421/20/ 5 E 27421/20/10 10-pin E 2700/10A E 2744/10LA¹⁾ E 2722/10A/H E 2702/10A E 2716/10A E 2717/52/10A E 27421/25/ 9 E 27421/25/13 16-pin E 2744/16LA¹⁾ E 2700/16A E 2713/57/16A E 2712/16A E 2722/16A/H E 2702/16A E 2716/16A E 2717/57/16A E 27421/25/ 9 E 27421/25/13 32-pin E 2700/32A E 2744/32QA¹⁾ E 2720/32A/H

E 27421/32/18

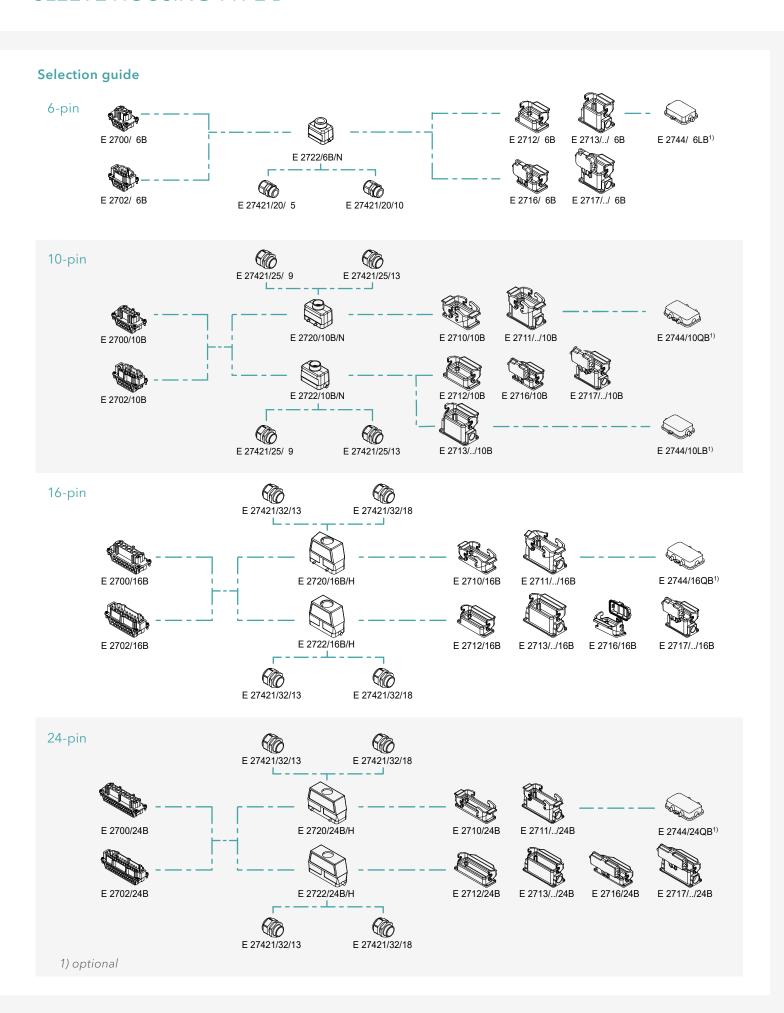
E 2711/82/32A

1) optional

E 2702/32A

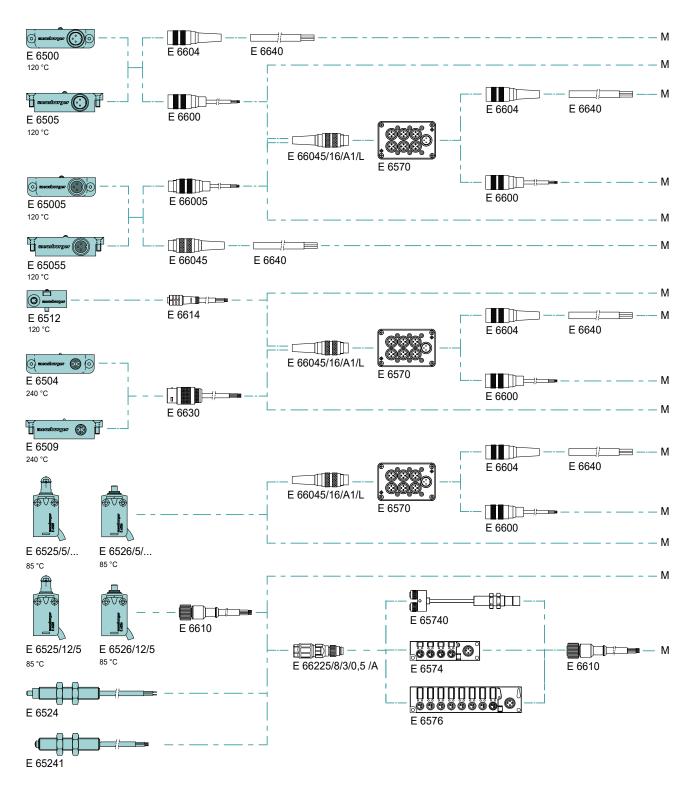
E 27421/32/13

SLEEVE HOUSING TYPE B



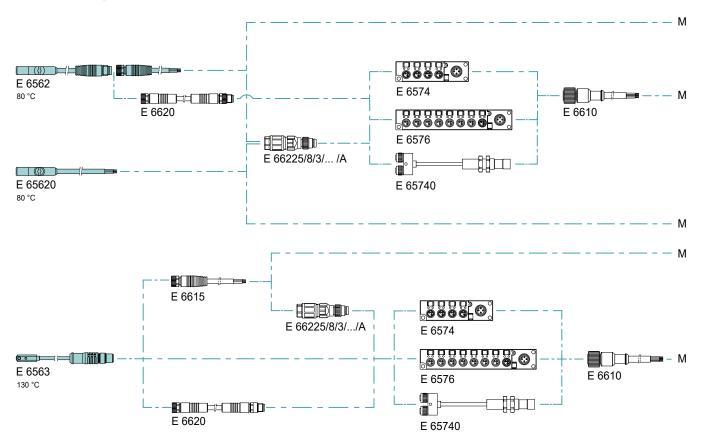
MECHANICAL LIMIT SWITCHES

Connection options



MAGNETIC PROXIMITY SENSORS

Connection options



Matching accessories:



E 6574, E 65740

Logic distributor for sensors, single AND/OR

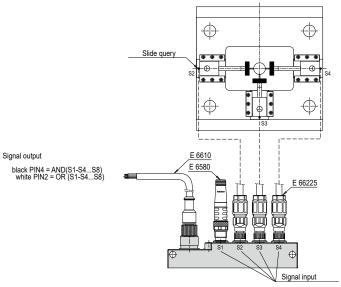


E 6576

Logic distributor for sensors, double AND

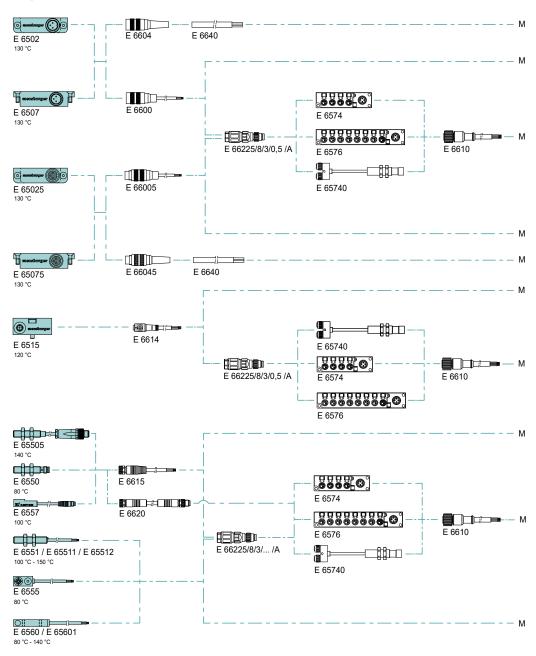
Combine up to 8 signals – only 1 signal to the machine

- » Orderly cable management
- » No voltage drop
- » Depending on the application, can be used as AND or AND/OR distributor



INDUCTIVE SENSORS

Connection options



Matching accessories:



E 2765

Cable retainer



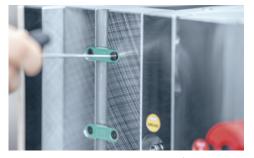
E 27652

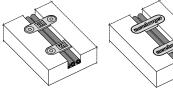
Cable retainer from plastic, with screws



E 2766

Cable retainer, magnetic





Functional principle

The inductive proximity switch produces an alternating electromagnetic field. If an electrically conductive object approaches this alternating field, it will drain energy from it, leading to a reduction of the oscillation amplitude. This change is analysed by the inductive sensor.

Nominal sensing distance

The nominal sensing distance s_n is a parameter for defining the sensing distance. It does not include manufacturing tolerances nor variations due to external influences like voltage or temperature.

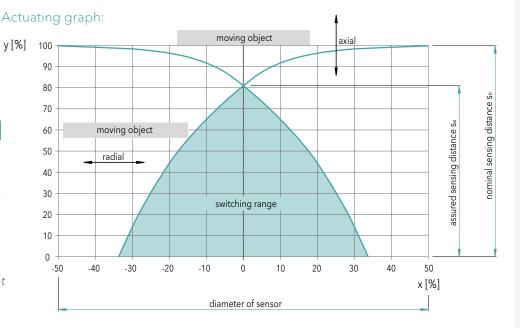
Assured sensing distance

The assured sensing distance s_a is the distance for which the actuation of a proximity switch within a defined voltage and temperature range is guaranteed. It is 0-81% of the nominal sensing distance: $s_a \le 0.81 \times s_n$.



Calculation of the assured sensing distance depending on the different materials

 $= S_a \times reduction factor$

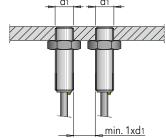


Sensing distance

The sensing distance is the distance between a sensor and an electrically conductive object that will trigger a change of signal. In the case of PNP normally open contacts, the signal changes from OFF to ON. It is influenced by the material and by the direction of motion in relation to the sensor.

Installation requirements

A minimum distance equivalent to the diameter of the housing is required in order to prevent the alternating magnetic field of the neighbouring sensor from influencing the switching reaction of the proximity sensor.



CARTRIDGE HEATERS & THERMOCOUPLES

E 6800 Cartridge heater

- » Perfectly matched heating power creates the best conditions for a long service life
- » High dimensional accuracy of the diameters

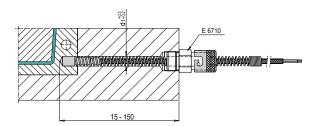


Thermocouples

Thermocouples are used to monitor the mould temperature and thus support process-reliable injection moulding. There are various designs and mounting options to choose from, all immediately available from stock.

E 6700 Thermocouple with bayjonet fitting





Thermocouple type J max. temp. 400 °C Ø 6 mm or Ø 8 mm Cable length: 2 m

E 6702 90° bent thermocouple

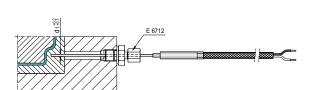




Thermocouple type J max. temp. 400 °C Ø 4 x 12 mm or Ø 4 x 25 mm Cable length: 2 m

E 6704 Mineral-insulated thermocouple





Thermocouple type J max. temp. 400 °C ø 1,5 mm; length 100, 150 or 300 mm Cable length: 2 m

Matching accessories:



E 6710Threaded nipple



E 6712Compression fitting



CAVITY PRESSURE SENSORS

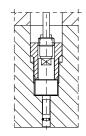
Process efficiency in plastic injection moulding

The cavity pressure is an important parameter in process monitoring in injection moulding. Pressure sensors are indispensable for comprehensive mould monitoring. The use of high-quality sensors leads to optimal process quality and increases part quality sustainably.

Direct and indirect cavity pressure sensors

Depending on the application, there are two types of pressure sensors: direct and indirect sensors, which serve for direct or indirect pressure measurement.

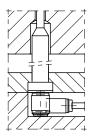




E 6740 Cavity pressure sensor, direct

For direct measurement, the pressure sensor is inserted directly into the cavity so the cavity pressure can be measured directly in the respective area. When pressure is applied, the sensor delivers an electrical charge (pC), which is then converted into a change of pressure (bar) through the specified sensor sensitivity (pC/bar).





E 6750 Cavity pressure sensor, indirect

The indirect measurement of the cavity pressure is carried out via a force sensor which is located outside the cavity and is indirectly actuated by a force. Unlike direct measurement, the cavity pressure is transmitted to the sensor as a force via an ejector pin. From this impact an electric charge (pC) is emitted, which can be converted into a change in force (N) by the specified sensor sensitivity (pC/N). This change of force combined with the front surface of the ejector is used to calculate the pressure change.

Key

Electric charge in picocoulomb рC Coulomb - unit for electric charge

Sensor sensitivity with direct sensors

pC/bar (change in electrical charge depending on the pressure

applied)

pC/N

Sensor sensitivity with indirect sensors (change in electrical charge depending on the force applied)

Matching accessories:



We offer various coaxial and single-wire sensor cables, multichannel connectors, connecting cables and assembly tools to match the internal pressure sensors

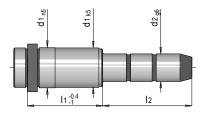




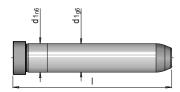
GUIDES



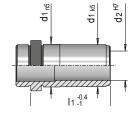
We offer a wide range of high-precision guide elements in many different designs for mould making. These are also available in self-lubricating versions.



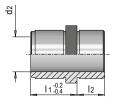
		Orc	dering exa	mple
Guide pillar	ltem	d2	l1	l2
	E 1000	/ 24	- 56	/ 75



Guide bolt and		Ord	ering	example	
inclined pin	ltem	d1		- 1	
<u>'</u>	E 1030	/ 20	Х	90	



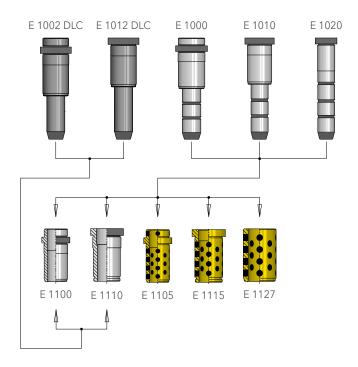
	Ħ	Ord	ering	example	
Guide bush	ltem	d2		l1	
	E 1100	/ 20	-	17	



Guide bush for	Ordering example						
ejector set	ltem	d2	l2	l1			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	E 11202	/ 20	- 17	/ 22			

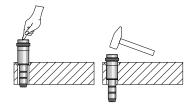
OVERVIEW & SELECTION GUIDES

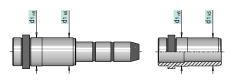
Standard guiding system



Guiding system with two fitting diameters

- » Guiding system with two fitting diameters for an optimal fit in the guiding hole
- » The second fitting diameter (k5) enables easy assembly and removal

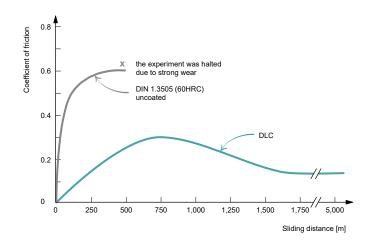






Tip: For cleanroom application and increased wear, it is recommended to use guide pillars with DLC coating. The hard carbon layer protects the pillar and reduces wear to a minimum.

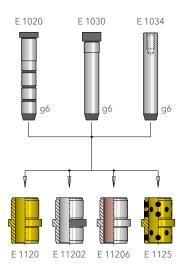




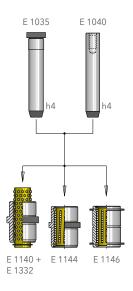
OVERVIEW & SELECTION GUIDES

Ejector set guiding

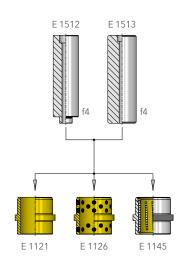
Sliding guide



Roller guide



Support pillars with guiding function



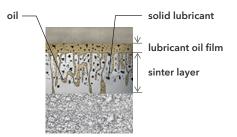
Туре	V 1)	FQ ²⁾	Characteristics	Lubrication
E 1144 E 1140 + E 1332	high	low	» Without play» Highest precision» Minimal wear	High-performance oil VLS 250
E 11206	moderate	medium	» Self-lubricating through sinter layer» Good emergency operating features	Relubrication with high-performance oil VLS 250
E 1120	moderate	medium	» Common guiding bush in the ejector set	High-performance grease VGS 180
E 1125	moderate	medium	» Self-lubricating» Optimum lubrication through graphite inserts» Initial lubrication reduces wear	Initial lubrication with high-performance grease VGM 160
E 11202	moderate	high	» Cleanroom compatible with DLC-coated guide pillars» Cost-effective	High-performance grease VGS 180

1) V: Speed of the ejector set during demoulding

2) FQ: Permissible shear force

Sliding guide with self-lubricating sinter layer

- » Ideal for self-lubricating applications thanks to the oil depot and solid lubricant MoS2 in the sinter layer
- » The frictional heat causes the oil to rise to the sliding surface. Due to its capillary action the oil retreats back into the sinter layer (when the machine is idle)
- » The ideal diffusion zone between the sinter layer and the steel sheath ensures inseparable molecular bonds
- » High resistance to abrasive wear and very good emergency operating features without additional lubrication

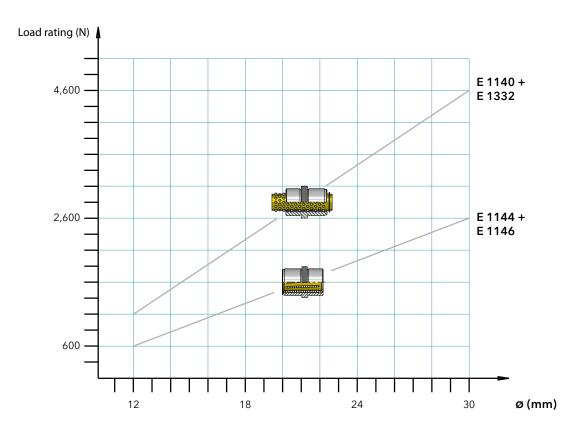


Ball guides - precise and smooth running

- » Recirculating ball bushings: limited stroke in comparison to E 1140 + E 1332 ball cages
- » Ball cages: higher load capacity compared to recirculating ball bushing
- » Can become overloaded at high shear forces due to the point contact







ATTACHMENTS

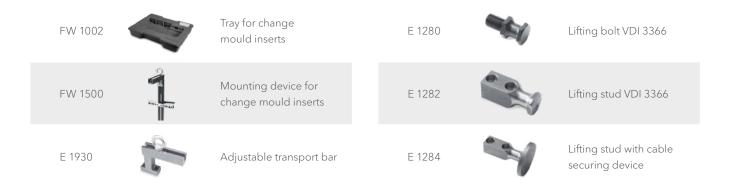


Numerous accessories from lifting equipment to cycle counters help professionally equip the mould and ensure safe operation and transport.

Attachments on the mould

E 1917		Status indicator plate, adjustable	E 2480	-m	Mechanical cycle counter
E 2030S	6	Customised printed marking chips	E 24805	Sin P	Mechanical cycle counter, high temperature
E 191		Labels	E 24807	THE IN	Mechanical cycle counter, high temperature
E 1920		Transparent and magnetic ejector set cover	E 24830		Cycle counter, mini
E 1927		Spacer	E 2484		Mechanical cycle counter, cylindrical, right
E 1928		Support bolt	E 2485	N Internal	Mechanical cycle counter, cylindrical, left
E 1936		Transport lock	MAU 5000	90	Set: Dial indicator holders

Other attachments



Lifting points

		E 1271	E 1272	E 1273	E 1272 M	E 1274	E 1274 M	E 1275	E 1275 M	E 1276	E 1278	E 1279
						0		S.	SA			The second second
	M 6		•			•						
	M 8		•	•	•	•	•	•	•			
	M10	•	•	•	•	•	•	•	•			
	M12	•	•	•	•	•	•	•	•	•	•	
e	M16	•	•	•	•	•	•	•	•	•	•	•
Thread size	M20	•	•	•	•	•	•	•	•	•	•	•
hrea	M24	•	•	•	•	•	•	•	•	•	•	•
F	M30	•	•	•	•	•	•	•	•	•	•	
	M36		•	•	•	•	•			•	•	
	M42		•	•	•	•	•					
	M48		•		•	•	•					
	M56					•	•					
	M64					•	•					
RFID cl	nip	•	•	•		•		•		•	•	
360° rota	table	•	•	•	•	•	•	•	•	•	•	
Ball bea	ring					•	•			•	•	



Tip: Use the Meusburger E 1917 status indicator plate to clearly identify your moulds. Using an Allen key to adjust it, you can choose between 4 different colours. The respective colour indicates the status of the mould (for example green – approved, red – blocked).



HOT RUNNER CONTROLLER



Our profiTEMP+ hot runner controller not only impresses with its innovative technology, but also with its space-saving design. In addition to new intelligent functions such as Smart Power Limitation (SPL) and MoldCheck, the tried and trusted features have also been further developed in the new hot runner controller. Thanks to the clearly designed 7" multi-touch screen, easy and intuitive operation is guaranteed.

RH 1000 profiTEMP+ hot runner controller

















- » Ergonomic and intuitive operation through multi-touch screen
- » Compact design for minimal space requirements
- » High-end features like intelligent power regulation, MoldCheck and much more



The options in the selected range for our proven profiTEMP+ hot runner controller include:

- » 6 to 198 zones, standard/in-stock devices 6 to 48 zones
- » Power from 11 kW to 43 kW
- » 4 different pin assignments
- » Matching connecting cables in various lengths





More information at:

www.meusburger.com/hot-runner-controller

RH 1200 profiTEMP IM hot runner controller











- » Powerful hot runner controller for all hot runner systems
- » Fast control algorithm shortens the heating phase and increases the operating time
- » Easy to operate on 7" touch screen
- » Support in 15 languages
- » Various heating variants and operating modes selectable



Options in range:

- » 12 zones with power 22 kW
- » 3 different pin assignments

Connecting cables



RHZ 2000 Connecting cable, heater + thermocouple



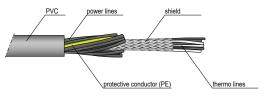
RHZ 2100 Connecting cable, heater



RHZ 2200 Connecting cable, thermocouple





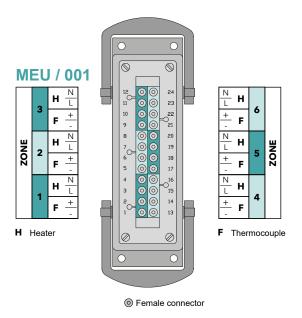




Tip: Special pin assignment possible on request. Simply contact Meusburger for professional expert advice.

PIN ASSIGNMENTS ON CONNECTING CABLES

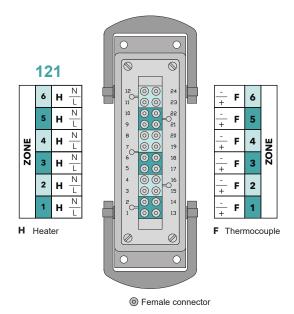
Standard pin assignment:



- » 6 zones per connector (24-pin)
- » Variable pin assignment for thermocouple and heater
- » Connector type: compatible with industrial connector E 27... type B
- » Insert: socket
- » Type of locking: double locking latch

	Number of cables
Number of zones	RHZ 2000/3/001/ RHZ 2000/6/001/
6	1
12	2
18	3
24	4
30	5
36	6
42	7
48	8

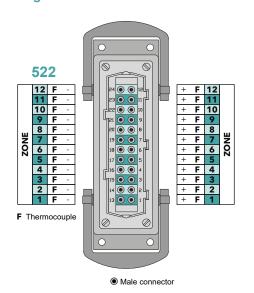
Assignment 121:

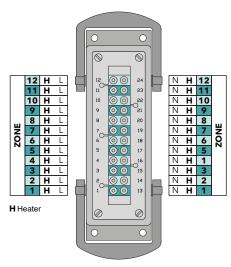


- » 6 zones per connector (24-pin)
- » Variable pin assignment for thermocouple and heater
- » Connector type: compatible with industrial connector E 27... type B
- » Insert: socket
- » Type of locking: double locking latch

	Number of cables
Number of zones	RHZ 2000/3/121/ RHZ 2000/6/121/
6	1
12	2
18	3
24	4
30	5
36	6
42	7
48	8

Assignment 522:



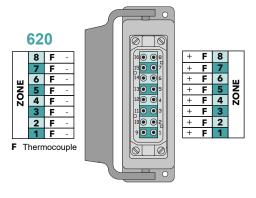


Female connector

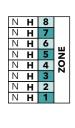
- » 12 zones per connector (24-pin)
- » Separate output plugs for thermocouple and heater
- » Connector type: compatible with industrial connector E 27... type B
- » Insert: thermocouple pin, heater socket
- » Type of locking: double locking latch

Number of	Number of thermocouple cables	Number of heater cables
zones	RHZ 2200/3/522/ RHZ 2200/6/522/	RHZ 2100/3/522/ RHZ 2100/6/522/
6	1	1
12	1	1
18	2	2
24	2	2

Assignment 620 - EUROMAP 14:



8 H L 7 H L 6 H L C 4 H L N 3 H L 2 H L 1 H L H Heater



Male connector

Female connector

- » 8 zones per connector (16-pin)
- » Separate output plugs for thermocouple and heater
- » Connector type heater: industrial connector E 27... type B
- » Connector type thermocouple: industrial connector E 27... type A
- » Insert: thermocouple pin, heater socket
- » Type of locking: single locking latch

Number of	Number of thermocouple cables	Number of heater cables
zones	RHZ 2200/3/620/ RHZ 2200/6/620/	RHZ 2100/3/620/ RHZ 2100/6/620/
6	1	1
12	2	2
18	3	3
24	3	3

CONSUMABLES



With our range of high-quality consumables especially adapted for mould and die making, nothing stands in the way of a smooth process in the production, maintenance and operation of injection moulds.

Lubricants



Release agents



Cleaners



Engineer's blue



Anticorrosives



Adhesives



AREAS OF APPLICATION

VGI 300 – Fully synthetic inert grease without PTFE



For lubricating ejectors, slides and ejection units in injection moulds which are exposed to extremely high temperatures and require very tight tolerances.

Lubrication of ejectors



- » VGS 180 » VGM 160
- » VLS 250

VGI 250 S – Lubricant and release agent

For easy relubrication after use of PFPE lubricants.
Suitable as release agent in the processing of plastics.

Cutting

- » VGI 250 S H1
- » VRT 180
- » VRT 130

VGS 180 – Fully synthetic highperformance grease



For lubricating any sliding pairs such as slides and guide pillars in injection moulds for which fully synthetic grease lubrication is preferred.

Lubrication of moulds

- » VGS 180
- » VGI 260 🖽
- » VGM 160
- » VGM 160 S
- » VGS 160 FD H1
- » VLS 250
- » VLS 175

VTP 200 S – High temperature engineer's blue spray



Sprayable engineer's blue for fast and exact matching of split line and sealing faces in die and mould making.

Engineer's blue

- » VTP 200 S
- » VTP 50

VPG 60 – Anti-corrosive cavity protector



For the preserving of cavities in injection moulds.

Corrosion protection

- » VPG 60
- » VPG 70 FD 🖽
- » VPW 110
- » VPW 80

VCC 30 - Active cavity cleaner

0



Removes stubborn plastic and paint remains as well as mould contamination, diesel-effect residues and sealant residues from cavities.

Cleaning

- » VCC 30
- » VCM 25 FD HI
- » VCM 20 K1 K3
- » VCF 18
- » VCF 15 » VCQ 10
- » VCW 25

VAP 1000 – White assembly paste



Protects against corrosion, fretting and fretting corrosion at highly stressed gliding points or screw connections.

Assembly

- » VAP 1000 🖽
- » VAP 1000S
- » VCP 1000

OVERVIEW OF CONSUMABLES

Lubricants		
VGI 300		Fully synthetic inert grease without PTFE, usable up to 300 °C
VGI 260	TY P. C.	Fully synthetic inert grease with PTFE, usable up to 260 °C
VGS 180		Fully synthetic high-performance grease, usable up to 180 °C
VGM 160		High-performance technical grease, usable up to 180 °C
VGS 170 S		Fully synthetic high-performance spray grease, usable up to 170 °C
VGS 160 FD		High-performance food-safe grease, usable up to 160 °C
VAP 1000		White assembly paste
VAP 1000S		Anti-seize assembly spray
VCP 1000		Copper paste
Cleaners		
VCC 30		Active cavity cleaner
VCM 25 FD		Food-safe high-performance cleaner
VCM 20	Base 197	High-performance universal cleaner
VCF 18		Foam cleaner for cavities
VCQ 10		Industrial express cleaner
Anticorrosives		
VPW 110	eer.	High-performance anti-corrosion wax
VPW 80		Synthetic anti-corrosion wax
VPG 70 FD		Food-safe anti-corrosive grease
VPG 60		Anti-corrosive cavity protector

Release agents

VGI 250 S	Lubricant and release agent, usable up to 250 °C
VRT 180	High-performance release agent, usable up to 180 °C
VRT 130	Release agent, usable up to 130 °C

Engineer's blue

VTP 200 S	High temperature engineer's blue spray, usable up to 200 °C
VTP 50	Engineer's blue

Adhesives

VBA 2M43	Threadlocker, medium strength
VBA 2M70	Threadlocker, high strength
VBA 6M03	Retaining compound, high strength and low viscosity
VBA 6M48	Retaining compound, high strength and medium viscosity
VBA 5M42	Thread sealant, medium strength and medium viscosity
VBA 5M69	High-temperature thread sealant, medium strength
VBA 5M77	Pipe sealant, medium strength and high viscosity
VBC 4M01	Instant adhesive, general-purpose
VBC 4M06	Instant adhesive, low viscosity
VBC 4M54	Instant adhesive, paste-like
VBC 4M80	Instant adhesive, impact-resistant

WORKSHOP EQUIPMENT



Our many years of experience allow our customers to benefit from our expertise in numerous areas. Here you will find a sample from our wide range of products, specially adapted to the injection moulder. You can find the entire range and further information in our shops.

Surface finishing equipment

GESM 1500



Battery-powered control unit for M-Line micro motor

Temperature measuring devices

MTM 1100	Pho	Infrared temperature measuring device
MTM 3300	0	Temperature measuring device for external probes
MTM 3305		Accessories for temperature measuring device
MTM 7100		Temperature data logger
MTM 7400		Temperature and humidity data logger
MTM 5010		Probes for temperature measuring devices

Scales

MWK 1206



Precision scale

MWK 2106



Counting scale

MWK 2150



Battery for counting scale

MWK 3106



Industrial counting scale

MWK 3130



Stand for industrial counting scale

MWK 5500



Heavy-duty crane scale

Clamping equipment

HWS 100



Power clamp for injection moulding

HWS 104



Power clamp for injection moulding

HWS 120



Clamping claw for threads, with counterholder, adjustable

HWS 124



Tapered clamp with adjustable support screw

Other accessories

V 20435



Diagonal cutters for plastic, 15° cutting edge with cutting protection

ASH 1240



Assembly glove, phynomic lite

ASH 8250



Heat-protection glove

V 76907



 $Natural-grit\ diamond\ compound,\ temperature\ resistant$

V 76950



Diamond spray, alcohol soluble

V 76980



Cleaning cloth, premium

H 4062



Air-cushioned assembly table



FURTHER PRODUCTS IN OUR CATALOGUES



Mould making components

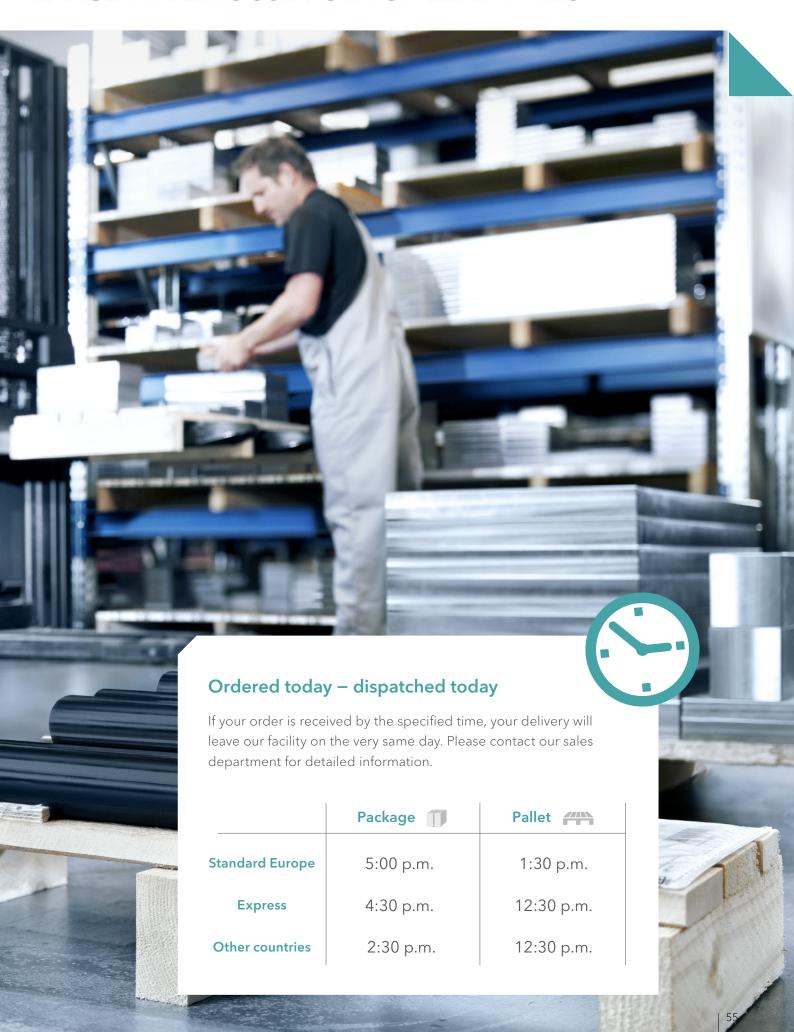
- » Large range of components especially for mould making
- » Punched index helps to find the right item quickly and easily
- » Clearly designed article pages with numerous installation examples and references to web videos

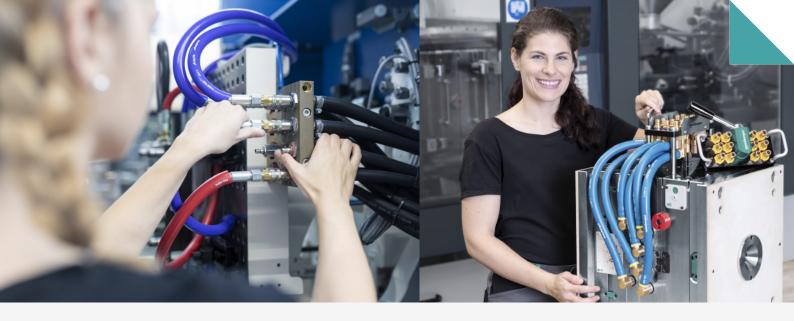


Workshop equipment for die and mould making

- » Punched index helps to find the right item quickly and easily
- » Clearly designed article pages with numerous installation examples and references to web videos
- » Prices shown for each item

LARGE WAREHOUSE FOR TOP LEAD TIMES















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