

HEB

Custom-built Cylinders

We consider finding special solutions, making the way for modern technology and taking on technical challenges as our tasks and the basis on which we develop our range of products.

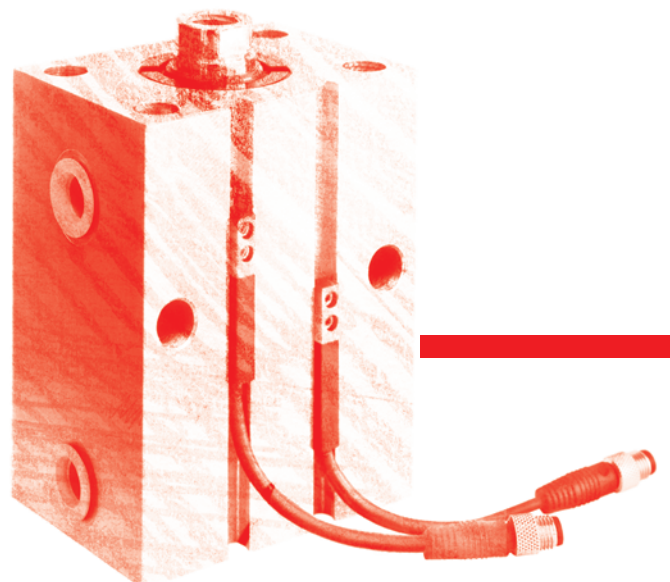
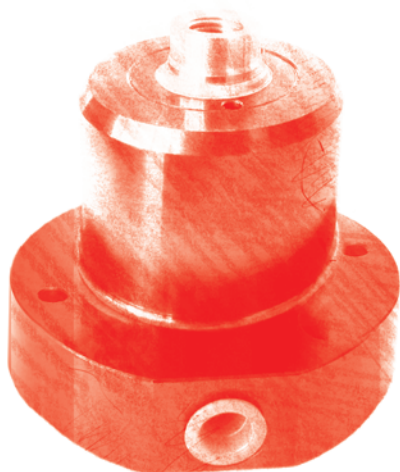


Custom-built special constructions



For more than 30 years, our motto, „our construction is based on your problem“, has been the guiding principle according to which we have built HEB standard hydraulic cylinders and special constructions, custom-built to suit the requirements of our customers. Our sales representatives are in close contact with our customers and give us the very important initiatives that we need to develop innovations in the construction department. After all, special constructions can often lead to the development of a standard HEB product. The high standard of quality of our products is the main focus here. We have been constructing hydraulic cylinders, based on the DIN EN ISO 9001 quality management system since 1996:

- round and block construction
- with signalling
- integrated position measuring systems
- external stroke query
- mechanical locking



Products

Round cylinder

Round cylinders Z100, Z140, Z160, Z250 and Z350. Piston diameters up to 100 or 200mm and strokes up to 3000mm. Available in 15 fixation types and on request they can also be supplied as velocity cylinders, multiple position cylinders, tandem cylinders with anti-twist device or acc. to customer specifications.

The ZNI100, ZNI140, ZNI160, ZNI250 and ZNI350 have an integrated inductive proximity sensor for monitoring the end position (sensing point displacement up to 5mm).

As ZMS100 with infinitely variable query on magnetic Basis.

Z100

Type:	Round cylinder
Nominal pressure:	100 bar
Test pressure:	150 bar
Max. stroke:	3000 mm
Piston Ø:	16 to 100 mm
Sensing of end position:	as ZNI100 or as ZMS100



Z140

Type:	Round cylinder
Nominal pressure:	140 bar
Test pressure:	200 bar
Max. stroke:	3000 mm
Piston Ø:	16 to 100 mm
Sensing of end position:	as ZNI140





Type: Round cylinder
 Nominal pressure: 160 bar
 Test pressure: 240 bar
 Max. stroke: 3000 mm
 Piston Ø: 20 to 100 mm
 Sensing of end position: as ZNI160

Z160



Type: Round cylinder
 Nominal pressure: 250 bar
 Test pressure: 350 bar
 Max. stroke: 3000 mm
 Piston Ø: 20 to 100 mm
 Sensing of end position: as ZNI250

Z250



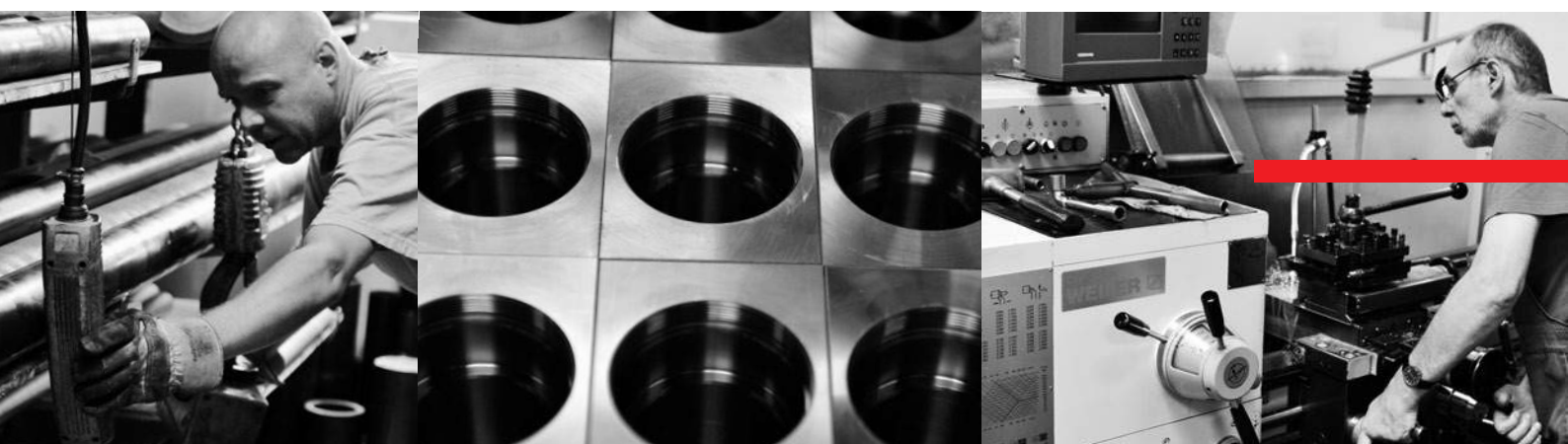
Type: Round cylinder
 Nominal pressure: 350 bar
 Test pressure: 500 bar
 Max. stroke: 3000 mm
 Piston Ø: 40 to 160 mm
 Sensing of end position: as ZNI350

Z350



Type: Round cylinder
 Nominal pressure: 100-350 bar
 Test pressure: 150-500 bar
 Max. stroke: 3000 mm
 Piston Ø: 16 to 160 mm
 Sensing of end position: Yes

ZNI



Products

Flanged cylinder + Screw-in cylinder

KRZ250

Flanged cylinder KRZ250 with both connections on one flange. The KRZ250 or KRZ400 available as special version cylinder for extremely long strokes.

Type: Flanged cylinder
Nominal pressure: 250 bar
Test pressure: 350 bar
Max. stroke: 75 mm
Piston Ø: 32 to 100 mm
Sensing of end position: No



DRZ250

Flanged cylinder DRZ
Both connections on one flange.

Type: Double-lined cylinder
Nominal pressure: 250 bar
Test pressure: 350 bar
Max. stroke: 3000 mm
Piston Ø: 32 to 80 mm
Sensing of end position: No



E200

Screw-in cylinder E200 (direct fitting) with minimum space requirements.

Type: Screw-in cylinder
Nominal pressure: 200 bar
Test pressure: 300 bar
Max. stroke: 36 mm
Piston Ø: 18 to 32 mm
Sensing of end position: No



ZG160

Screw-in cylinder ZG160 (conventional connections on both sides) with minimum space requirements.

Type: Screw-in cylinder
Nominal pressure: 160 bar
Test pressure: 240 bar
Max. stroke: 60 mm
Piston Ø: 20 to 50 mm
Sensing of end position: No





A competent team

We have a longstanding core of 70 highly qualified and motivated employees. Their skills and motivation are essential factors when it comes to being able to react quickly and flexibly while manufacturing our products.

Products

Block cylinder

Block cylinders BLZ400 and BLZ401 with a wide range of fixation and connection possibilities.
The series BLZ250 with intermediate pipe.

The BLZNI400, BLZNI401 and BLZNI250 have an integrated inductive proximity sensor for monitoring the end position (sensing point displacement up to 5mm).

BLZ400

BLZNI400

Type:	Block cylinder
Nominal pressure:	400 bar
Test pressure:	600 bar
Max. stroke:	500 mm
Piston Ø:	16 to 100 mm
Sensing of end position:	as BLZNI400



BLZ401

BLZNI401

Type:	Block cylinder
Nominal pressure:	400 bar
Test pressure:	600 bar
Max. stroke:	200 mm
Piston Ø:	125 to 200 mm
Sensing of end position:	as BLZNI401



BLZ250

BLZNI250

Type:	Block cylinder
Nominal pressure:	250 bar
Test pressure:	350 bar
Max. stroke:	3000 mm
Piston Ø:	16 to 100 mm
Sensing of end position:	as BLZNI250



BLZMS251

Aluminium block cylinders BLZMS251 including magnetic sensing of the piston position with minimum space requirement.

Type:	Block cylinder
Nominal pressure:	250 bar
Test pressure:	350 bar
Max. stroke:	500 mm
Piston Ø:	20 to 63 mm
Sensing of end position:	Yes



Products

Block cylinder



Stamping cylinders SBZ250, in particular for punching applications. Piston and plunger made out of one piece, special guide with strengthened housing.

The SBZNI250 has an integrated inductive proximity sensor for monitoring the end position (sensing point displacement up to 5mm).

Type: Block cylinder
Nominal pressure: 250 bar
Test pressure: 350 bar
Max. stroke: 500 mm
Piston Ø: 32 to 100 mm
Sensing of end position: as SBZNI250

SBZ250
SBZNI250



Multiple position cylinders MZ250 with an additional clearly defined position between both end positions.

The MZNI250 has an integrated inductive proximity sensor for monitoring the end and middle position (sensing point displacement up to 5mm).

Type: Block cylinder
Nominal pressure: 250 bar
Test pressure: 350 bar
Max. stroke: 500 mm
Piston Ø: 25 to 63 mm
Sensing of end position: as MZNI250

MZ250
MZNI250



Block cylinders BLZRE400, BLZNE400 based on the BLZ400 or BLZ401. External sensing of the piston position (electromechanical or inductive).

Type: Block-Zylinder
Nennndruck: 400 bar
Prüfdruck: 600 bar
Max. Hub: 500 mm
Kolben Ø: 20 bis 100 mm
Sensing of end position: Yes

BLZNE400
BLZRE400



Block cylinders BLZ400-DKS based on the BLZ400 or BLZ401. External sensing of the piston position inductive on continuous plunger

Type: Block cylinder
Nominal pressure: 400 bar
Test pressure: 600 bar
Max. stroke: 500 mm
Piston Ø: 16 to 100 mm
Sensing of end position: Yes

BLZ400DKS

Products

DIN standard cylinder

Round cylinders NOZ161, NOZ251 and DIN24554
Outer dimensions according to ISO 6020/1 (CETOP R58H), DIN 24333 ISO 6022 (CETOP RP73H) or DIN 24554.

The NOZNI161 and NOZNI251 have an integrated inductive proximity sensor for monitoring the end position (sensing point displacement up to 5mm).

NOZ161 NOZNI161

Type:	DIN standard cylinder
Nominal pressure:	160 bar
Test pressure:	240 bar
Max. stroke:	3000 mm
Piston Ø:	25 to 200 mm
Sensing of end position:	as NOZNI161



NOZ251 NOZNI251

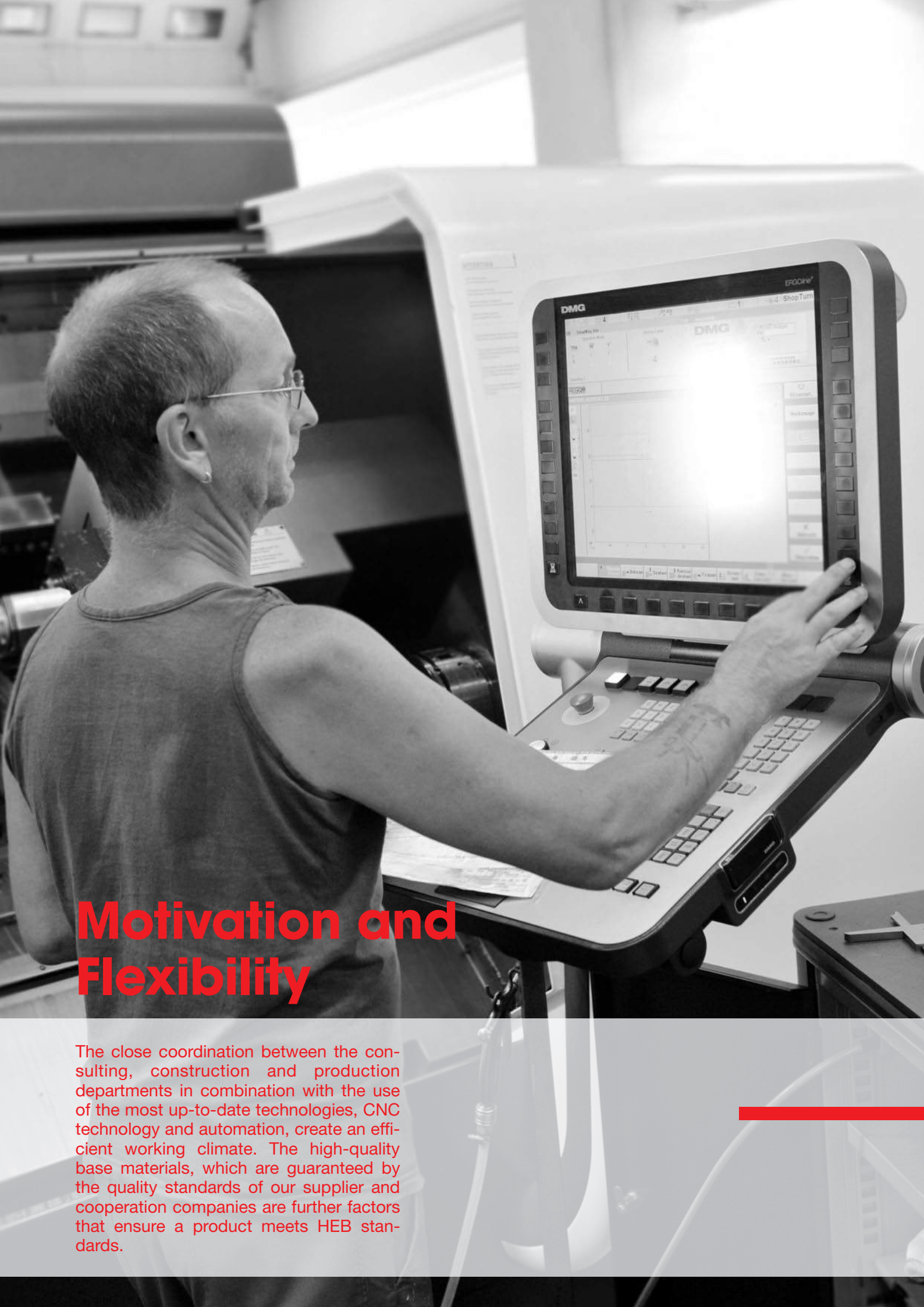
Type:	DIN standard cylinder
Nominal pressure:	250 bar
Test pressure:	375 bar
Max. stroke:	3000 mm
Piston Ø:	50 to 160 mm
Sensing of end position:	as NOZNI251



DIN24554

Type:	DIN standard cylinder
Nominal pressure:	160 bar
Test pressure:	240 bar
Max. stroke:	3000 mm
Piston Ø:	25 to 200 mm
Sensing of end position:	No



A black and white photograph of a man with glasses and a tank top, seen from the side, operating a CNC machine. He is interacting with a large, integrated control panel that features a touchscreen display and a physical keypad. The screen shows a software interface with various data fields and graphs. The machine itself is a large, industrial-grade unit with a complex structure. The background is slightly blurred, showing other parts of the workshop.

Motivation and Flexibility

The close coordination between the consulting, construction and production departments in combination with the use of the most up-to-date technologies, CNC technology and automation, create an efficient working climate. The high-quality base materials, which are guaranteed by the quality standards of our supplier and cooperation companies are further factors that ensure a product meets HEB standards.

Products

other cylinders

VZS251

VZS251NI

Locking cylinders VZS251. Positive locking of the piston rod in the forward or back position (VZK251). The VZS251NI and VZK251NI have an integrated inductive proximity sensor for monitoring the end position and interlock (sensing point displacement up to 5mm).

Type:	Locking cylinder
Nominal pressure:	250 bar
Test pressure:	350 bar
Max. stroke:	3000 mm
Piston Ø:	32 to 125 mm
Sensing of end position:	as VZS251NI



KH

Locking unit KH for all cylinder ranges. Release of the force-fit clamping with hydraulic pressure. Precise clamping of the piston rod in the required position (safety clamp system).

Type:	Locking unit
Nominal pressure:	130 bar
Test pressure:	160 bar
Max. stroke:	----- mm
Piston rod Ø:	18 to 100 mm
Sensing of end position:	No



VE250

VE250RE

Push unit VE250 for absorption of high lateral forces with optional 2 or 4 guiding rods.

VE250RE with multi-limit switch for monitoring the end position.

Type:	Push unit
Nominal pressure:	250 bar
Test pressure:	350 bar
Max. stroke:	500 mm
Piston Ø:	25 to 50 mm
Sensing of end position:	as VE250RE



WMZ161

Round cylinders based on the Z160 or Z250 operating pressures and integrated position measuring system (ultrasound transsonar / inductive). Available with position measuring systems from leading manufacturers. Connection possible using mounting plates NG6 or NG10.

Type:	Stroke-measuring cylinder
Nominal pressure:	160 bar
Test pressure:	240 bar
Max. stroke:	3000 mm
Piston Ø:	40 to 160 mm
Sensing of end position:	Yes



Products

other cylinders + Special cylinders



Rotary drive unit up to 50bar operating pressure, based on a rack and pinion drive. Suitable for a rotary angle up to 720°, torques up to 1450 Nm.

The DANI50 has an integrated inductive proximity sensor for monitoring the end position (sensing point displacement up to 5mm).

Type:	Rotary drive unit
Nominal pressure:	50 bar
Test pressure:	75 bar
Max. stroke:	720°
Piston Ø:	25 to 100 mm
Sensing of end position:	as DA50NI

DA50
DANI50



Pressure relay valve TDU for converting a maximum of 8bar air pressure into maximum 512bar hydraulic pressure. Suitable for short and medium piston strokes, high piston forces and exact stroke movements.

Type:	Pressure relay valve
Nominal pressure:	----- bar
Test pressure:	----- bar
Piston Ø:	80 to 250 mm
Ratio:	1:4 to 1:64
Sensing of end position:	No

TDU

On customer request we also produce special cylinders in various designs, for example with anti-twist, tandem, multi position or telescopic cylinders.

If standard or non-standard, each cylinder will be marked with a unique commissioning number. This way seal kits, spare parts or any special features can be re-traced and reordered.



HEB cylinders – withstand any pressure

**Our agencies are located in all states
of the Federal Republic of Germany,
Austria, Portugal, Italy, and Poland,
Czech Republic, Slovakia, Slovenia,
Croatia, Norway, the USA,
India and China.**

**Please contact us for detailed information
or visit our website**

www.heb-zyl.com

**To reach during business hours
Mo.- Fr. 7.30 - 16.00**

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