

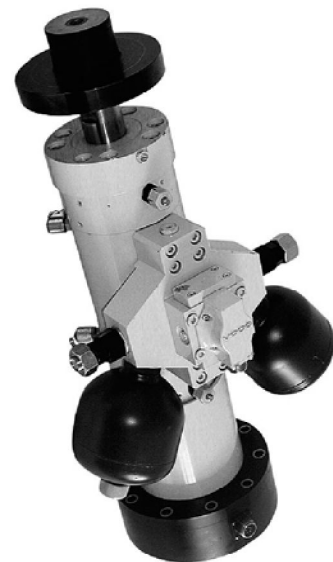
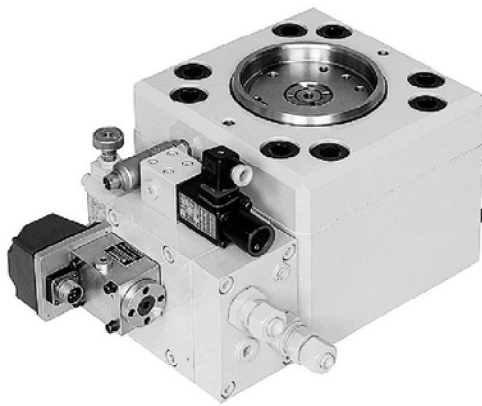
Storz

HYDRAULIKSYSTEME

Test-machine cylinders

Adjusting cylinders

Coiler cylinders



Description:

Test-machine cylinders

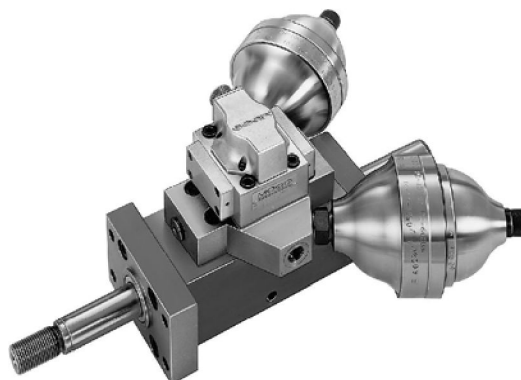
Test-machine cylinders with hydrostatic bearing without pressurised seals
with external leakage oil drain

Test-machine cylinders with plain bearing without pressurised seals with external
leakage oil drain

Test-machine cylinders in special version to customer specification

Technical data:

- Operating pressure up to 280 bar
- Nominal force from 10 to 1000 kN in pulling and pushing direction
- Stick-slip-free movement with hydrostatic bearing
- With plain bearing, guide bushes and piston surface coated with special bronze – giving good sliding properties at higher lateral forces
- Optionally with head or cap flange or another mounting type to customer request
- In standard version with integrated position measuring system
Position measuring system version to customer request
- Connection plates optionally with hydraulic diaphragm accumulators for the installation of servo valves
- On request with servo valve
- Special version to customer specification possible



Description:

Adjusting cylinders

for roll gap control
in hot and cold rolling mills

Technical data:

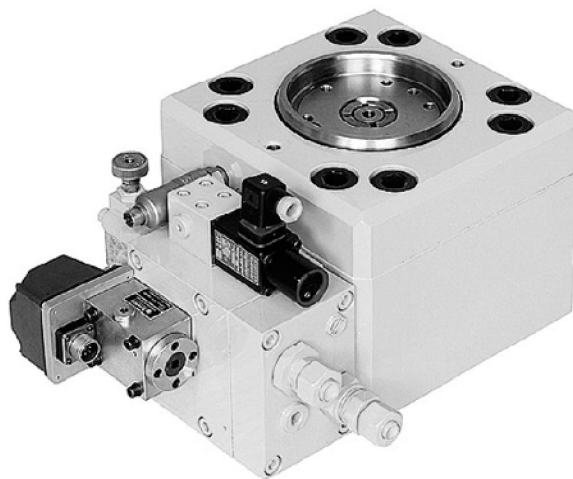
Storz adjusting cylinders are available with piston diameters ranging from 160 to 630 mm and piston forces of 400 to 8000 kN.

Larger dimensions available on request.

The adjusting cylinders have a centrally installed digital position measuring system with a resolution of up to 0,001 mm.

In addition, the adjusting cylinders have a mounted valve block with electronic pressure sensors, servo valve, pressure switch and electromagnetically activated pressure relief valve for overload protection and quick opening.

Valve block with aluminium cover hood when the adjusting cylinders are installed under the back-up roll bearing, optionally with forced ventilation.



Description:

Coiler cylinder ZBHZ

for the hydraulic clamping of coilers and uncoilers

Storz coiler cylinders are available with a piston Ø from 80 to 280 mm and a nominal pressure up to 160 bar, whereby the max. pressure for releasing can be up to 250 bar.

The piston rods can optionally be made with an external or internal thread. On request they are available with an integrated check and pressure relief valve.

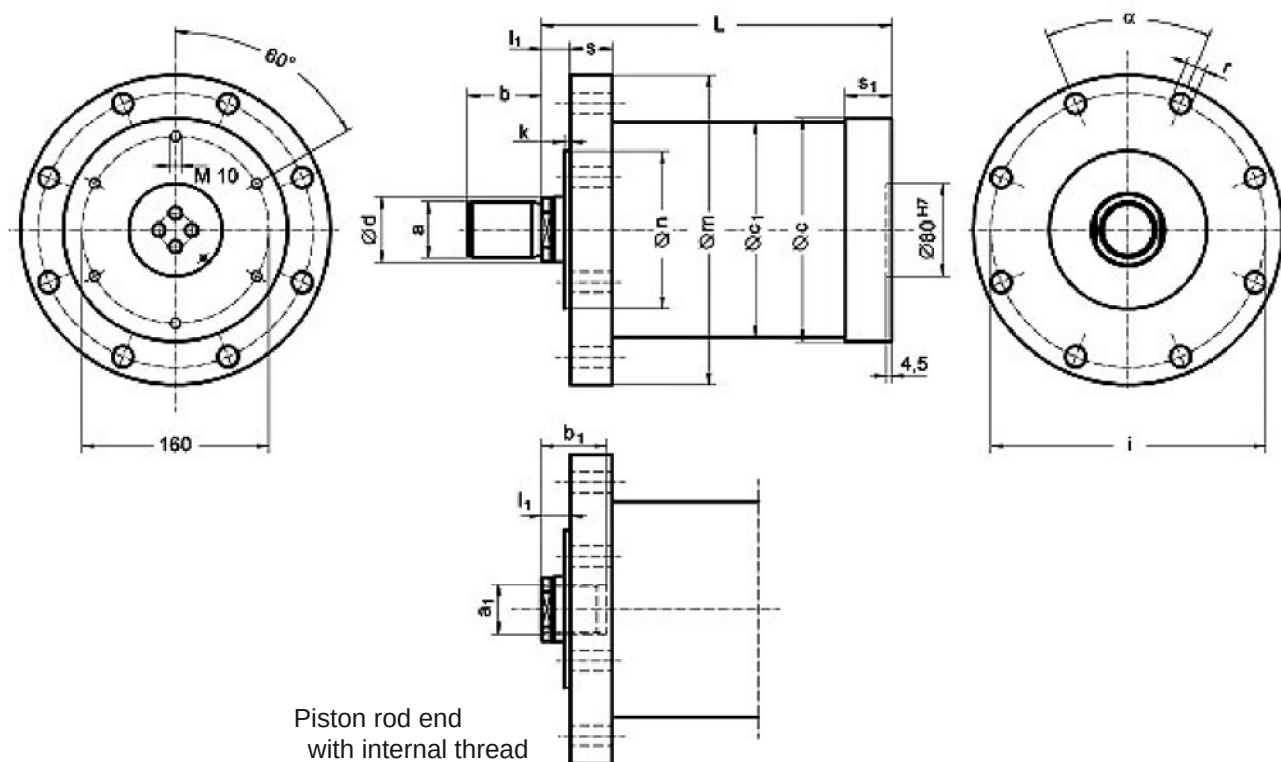
The attached rotary union for the oil supply is designed for speeds up to 700 rpm.



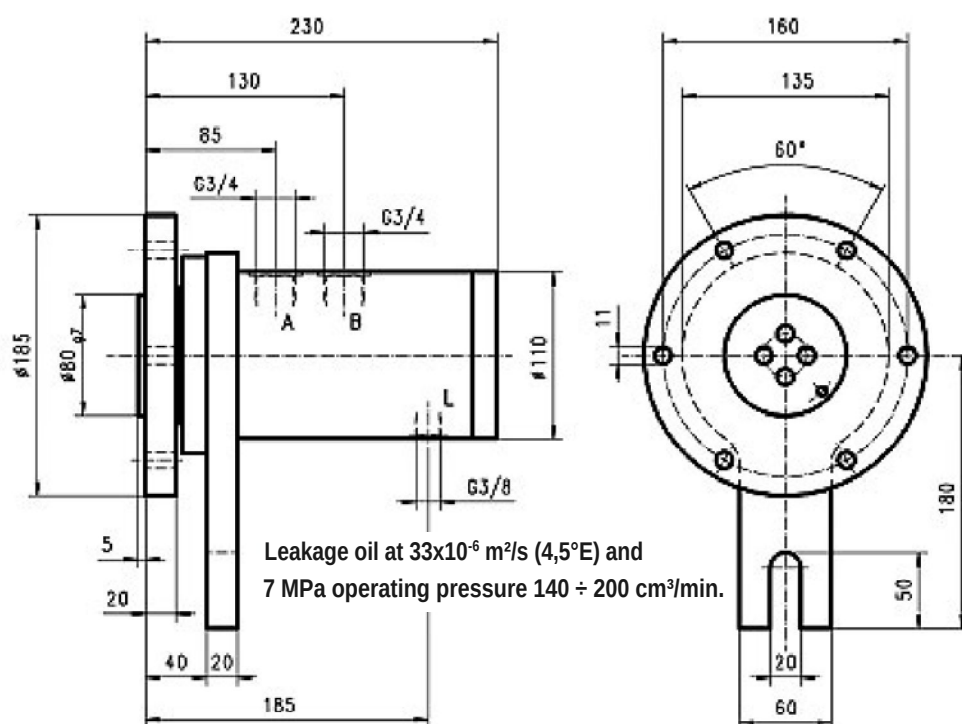
Dimension table

Piston-Ø (mm)	Rod Ø d	Rod thread (external) a	Rod thread (internal) a ₁	L = Stroke +	b	b ₁	Ø c	Ø c ₁	i	k	l ₁	Ø m	Ø n	r	s	s ₁	α
80	36	M 27x2	M 22x1,5	195	36	30	185	130	180	3	22	200	85	13,5	28	27	60°
100	45	M 33x2	M 30x2	219	45	40	185	160	210	3	22	235	100	13,5	32	35	45°
125	56	M 48x2	M 42x2	253	63	56	-	185	235	5	25	265	135	17,5	36	-	60°
140	63	M 48x2	M 42x2	276	63	56	-	200	255	5	25	290	140	17,5	36	-	45°
160	70	M 64x3	M 48x2	308	85	63	-	220	300	6	28	340	160	22	40	-	45°
180	80	M 64x3	M 48x2	313	85	63	-	240	320	6	28	370	175	26	40	-	45°
200	90	M 80x3	M 64x3	341	95	85	-	270	350	6	30	400	190	26	45	-	45°
220	100	M 80x3	M 68x3	352	95	90	-	290	370	8	32	425	200	30	50	-	45°
250	110	M 100x3	M 72x3	373	115	90	-	335	410	8	32	470	220	33	56	-	45°
280	125	M 100x3	M 80x3	410	115	95	-	370	460	8	32	520	250	36	63	-	45°

Dimension drawings



Rotary union



Model code ZBHZ

ZBHZ -1601	/	-	-	-	-					.
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Hydraulic cylinder, double-acting**Coiler cylinder**

Nominal pressure 160 bar (16 MPa)
max. pressure for releasing 250 bar

Piston diameter in mm**Piston rod diameter in mm****Mounting type**

CA round flange at cylinder head

Cylinder stroke in mm**Seal variant**

FG U-cup seal + Teflon slide ring / Teflon seal

Piston rod surface

B hard chrome-plated
C induction-hardened and hard chrome-plated

Piston rod end

1 external thread
2 internal thread

Rotary union

A G 3/4

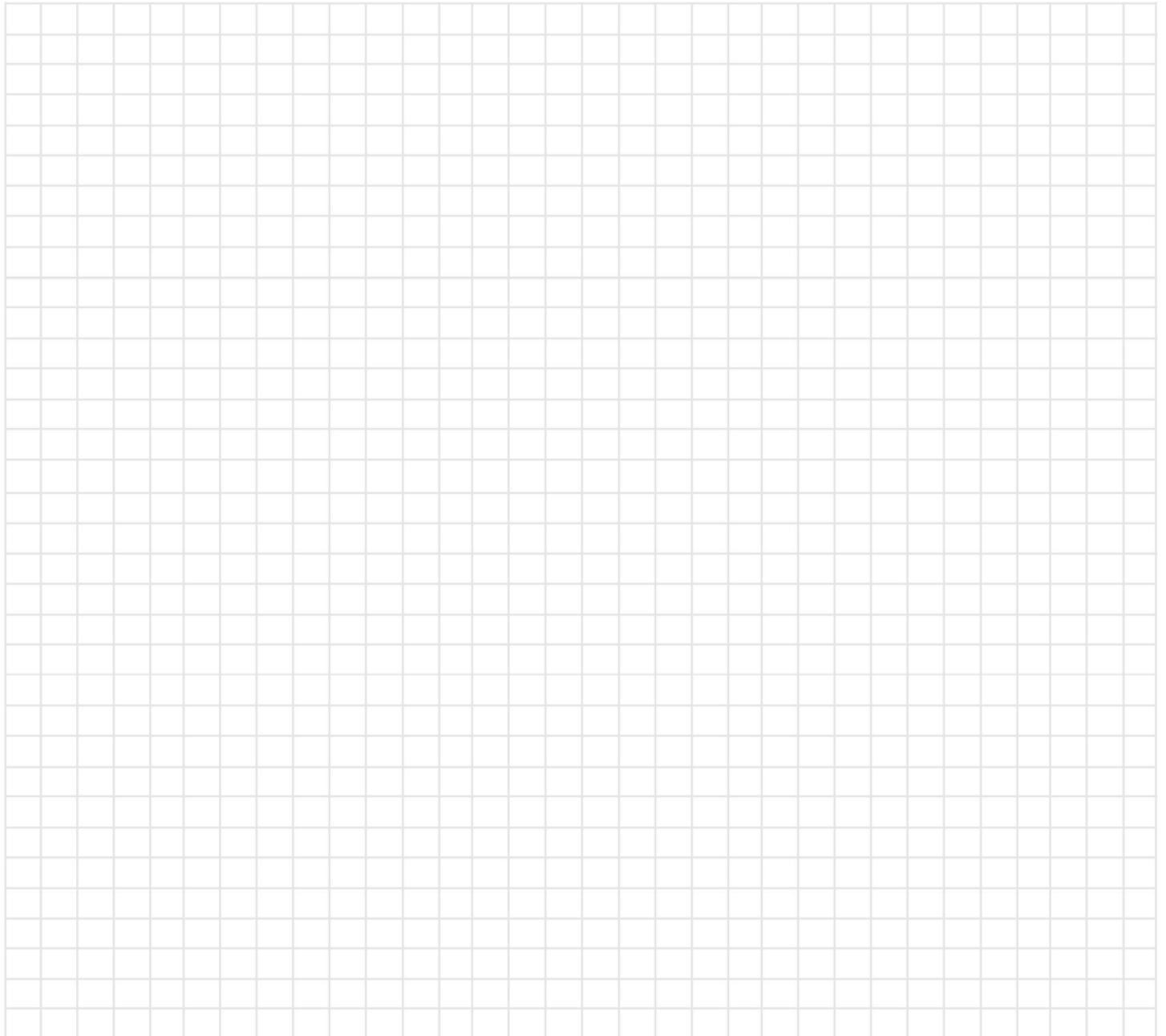
Version code (specified by the manufacturer)

Order example: Double-acting hydraulic cylinder (coiler cylinder) 160 bar nominal pressure with the following data:
Piston Ø 125 mm, rod Ø 63 mm, mounting type CA, stroke 100 mm, seal variant FG.
Piston rod surface B, piston rod end 1, rotary union A.

Type: ZBHZ 1601 - 125/63 - CA - 100 - FG - B1A.

Notes – remarks – comments – special requests

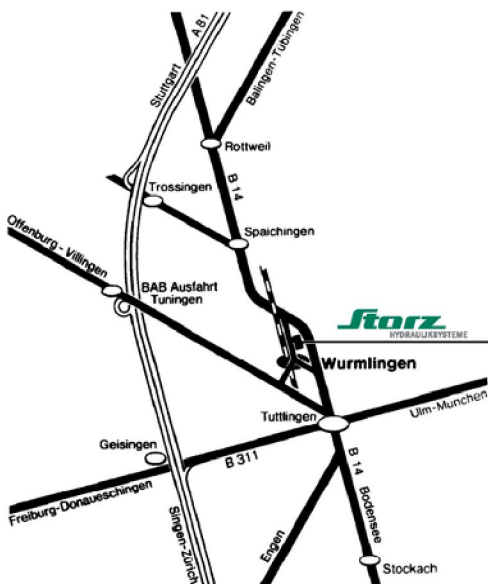
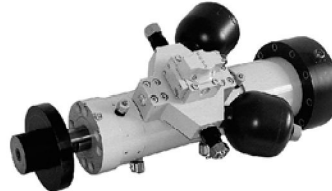
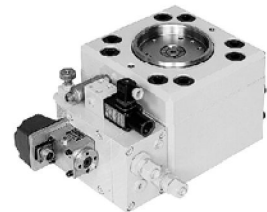
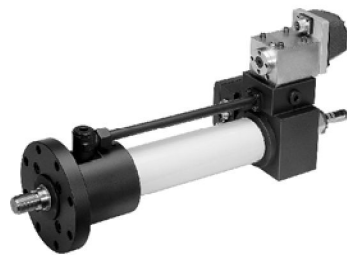
Sketch



Product range



Hydraulic cylinders to DIN/ISO
Hydraulic standard cylinders
Hydraulic telescopic cylinders
Hydraulic cylinders with position measuring systems
Test-machine cylinders
Special cylinders for all applications
Standardized mounting parts
Hydraulic power units and components
Plant engineering



Storz
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