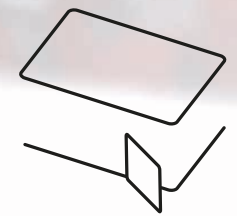


HYDRAULIC CYLINDERS



HAINZL
SYSTEMS ENGINEERING

HYDRAULIC CYLINDERS

Versatile in application

As a manufacturer of high-quality hydraulic cylinders, we have been a household name for our customers around the world since 1965. Our robust and durable cylinders fulfil their function reliably, decade after decade. Our customers from the broad spectrum of industry benefit from our wide product range and our outstanding service:

- // Steel plant engineering
- // Turbine and power plant engineering
- // Plastics engineering
- // Cable car technology
- // Civil engineering
- // Inspection technology
- // Aerospace
- // Formwork engineering
- // Automotive engineering
- // Pressing technology

Customer service

When it comes to cylinders, we offer a wide range services from professional installation and commissioning through to maintenance and servicing. Our in-house production and extensive stock together with our portfolio of technical services ensure a quick resolution when trouble occur – close to home or anywhere in the world.

1200

mm piston diameter

12

m stroke length

25

tonnes max. weight

700

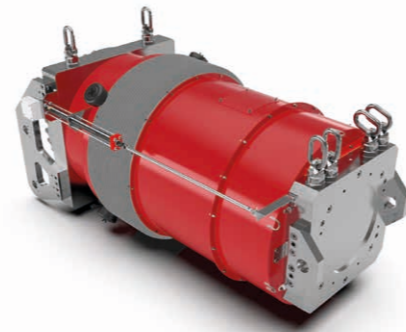
bar nominal pressure



Options

Depending on the application, we offer various options for cylinders.

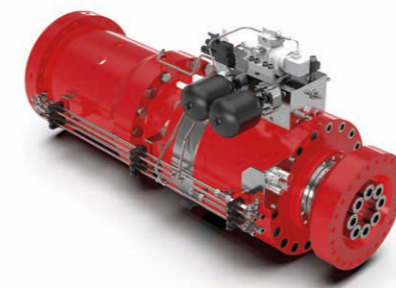
- // Inductive end position detection
- // Inductive position measuring systems
- // Draw-wire position measuring systems
- // Hydrostatic bearing
- // Control blocks with piping
- // Water cooling
- // Special coatings
- // Rotary union for media supply
- // Hydraulic units
- // Software, control, visualization



Large cylinders

These heavyweights with a stroke up to 12 metres are used wherever there is a need for outstanding robustness, reliability and power.

- // Piston diameter up to 1.000 mm
- // Stroke length up to 12 m
- // Nominal pressure up to 700 bar
- // Weight up to 25 t



Servo cylinders

Our servo cylinders promise utmost accuracy, dynamics and frequency, as well as side load capacity:

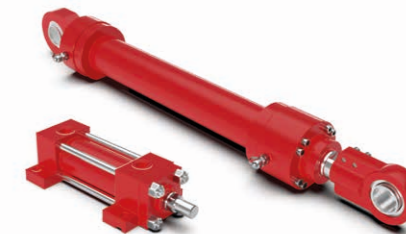
- // Servo-hydraulic axis
- // Hydrostatic bearing
- // Cylinder with annular gap seal
- // Minimum wear
- // High static stiffness and good damping
- // Nominal force of up to 1.000 kN with a piston diameter of 302 mm



Special cylinders

Based on customer requirements, we can produce our cylinders in a wide range of variants with virtually no limits on dimensions and design.

- // Multiple cylinders
- // Damping systems
- // Water cooling
- // Attached rotary distributors
- // Special displacement measuring systems
- // Explosion proof (ATEX)
- // On/off shore cylinder
- // One-off or series production



Standard cylinders

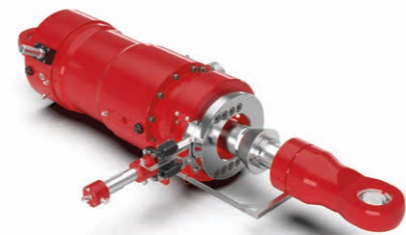
Our standard cylinders are used worldwide. The mounting dimensions, installation lengths, piston rod ends and connecting threads conform to global standards.

ISO 6022

- // Diameter 40 to 320 mm
- // Stroke lengths up to 6 m
- // Nominal pressure up to 250 bar

ISO 6020-2

- // Diameter 25 to 200 mm
- // Stroke lengths up to 4 m
- // Nominal pressure up to 160 bar



Cylinders for hydraulic steel structures

Especially for the requirements of hydraulic steel structures, we design the cylinders according to standards (DIN 19704) and in numerous variants:

- // Leakage detection
- // Stainless steel piston rods
- // Mechanical or hydraulic locking
- // Special coatings
- // Seawater resistant



Telescopic cylinders

Telescopic cylinders can generate large strokes with relatively small installation lengths. Designs up to 4 stages are possible.

- // Single- and double-acting
- // Piston diameter up to 500 mm
- // Stroke lengths up to 10 m
- // Nominal pressure up to 500 bar



Pressure intensifiers

Linear hydraulic compressors with separation chamber system

- // Compression ratio 4:1
- // Max. compression pressure 300 bar
- // Compression medium natural gas, air, oil
- // Water-cooled design
- // Temperature monitoring using thermal sensor



Revamping

This comprehensive repair and service offering enhances the lifetime and safety of your cylinders. We carry out an expert survey and analysis to support you during the maintenance work and ensure a smooth process so that your cylinders are revamped as soon as possible.



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TECHNOLOGY FOR HIGHER STANDARDS