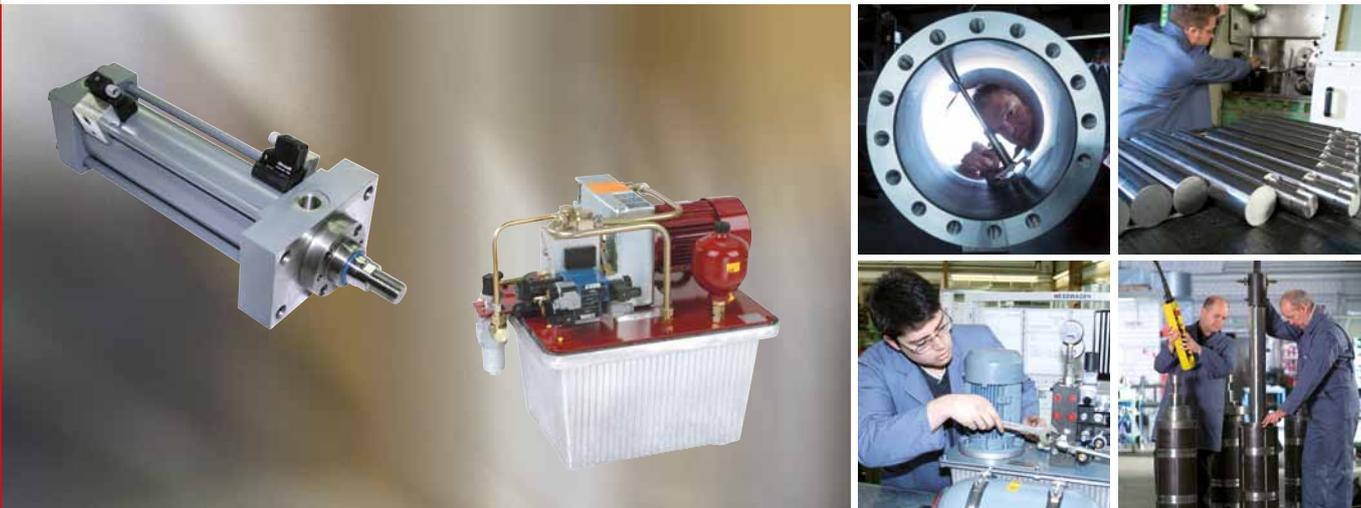


Product overview:
Cylinders - Drives - Special solutions



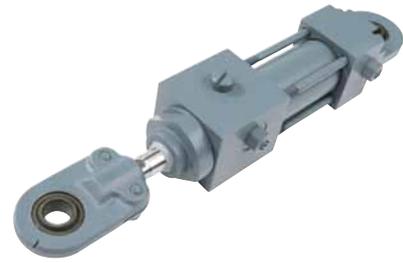
Precision in motion

Expertise

HYDROPNEU - Expertise overview

Standardized quality

Are you looking for hydraulic cylinders which are fully compatible with national and international standards without dispensing with the proven technology and quality of HYDROPNEU? Then our standard cylinders according to DIN/ISO are perfect for you. Standardized mounting dimensions and standardized installation dimensions for seals, its modular construction and the use of standard parts for components and accessories ensure maximum flexibility in terms of maintenance and replacement. The chosen materials and manufacturing processes meet the high quality demands of HYDROPNEU.



Standard cylinder DIN/ISO series

Proven precision

Do you need a cylinder which is optimized in performance, compact designed and manufactured in top quality? The appropriate additional features are more important to you than compliance with standards? In this case choose from our in-house standard series. HYDROPNEU standard cylinders provide economy of space thanks to their slim design and their minimum installation length. Along with features like for example a cooling jacket or the possibility of mounting switches, displacement transducers, etc., they offer optimal solutions for a lot of problems.



Standard cylinder

Individual variety

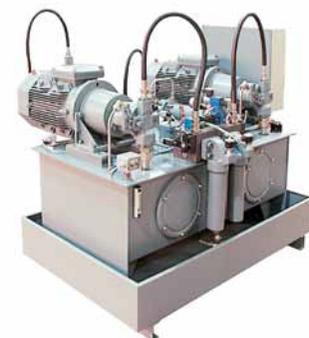
Do you need a custom-made cylinder for your application? Then our special cylinders are the right choice for you. We engineer the perfect solution for anything you want to move hydraulically. Whether through the use of special materials, unusual geometries or the integration and combination of various additional functions – HYDROPNEU special cylinders link innovation with quality and reliability. The spectrum of our solutions is highly appreciated in classical engineering as well as in high-tech medicine, for casting tools, in steel mills, for power plant construction and for turbine systems.



Special-cylinders

Customer-specific developments

Do you need a functional and modern supply unit for your hydraulic drives which should be reliable and energy-efficient? In this case we either offer proven technology from our wide range of realized hydraulic power units or we project a completely tailored solution for your particular needs. In both cases, you can be sure to be attended competently - from requirement specification to operation of the power unit.



Hydraulic power units

Complete system solutions

You need a complete hydraulic system, that is perfectly tailored to your application? You can expect from us to understand your processes due to many years of experience in cylinder and power unit construction. On this basis we project a hydraulic system in collaboration with you, which perfectly fulfills its task and forms a closed functional unit as complete hydraulic system. The hydraulic system can be easily integrated into your machine or system using precisely defined interfaces.



Construction

HYDROPNEU - We provide solutions

Special-cylinders



Hydraulic cylinder with mechanical interlock

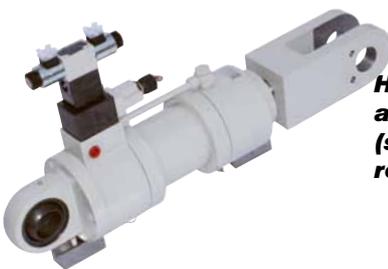


Hydraulic cylinder with guide function



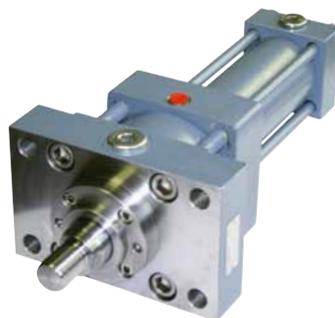
Hydraulic cylinder with reinforced hydraulic interlock

Hydraulic cylinder with cooling



Hydraulic cylinder with attached valve control (shut-off element, flow regulator, directional valve)

Hydraulic cylinder with power stroke



Hydraulic cylinder with attached limit switch operation

Examples of the product range:

- Single rod cylinders, double rod cylinders
- Block cylinders, multi-cylinders
- Single-acting cylinders with/without spring return
- Core-pulling cylinders, sliding cylinders
- Telescopic cylinders
- Cylinders with attached control valves
- Cylinders with rapid traverse / working motion control
- Lifting cylinders with attached clamping unit and valve manifold
- Cylinders with mechanical or hydraulic piston rod interlock
- Corrosion resistant hydraulic cylinders
- Stroke/rotation cylinders and rotary drives
- Pressure intensifiers
- Servo cylinders
- Cylinders according to EC Directive 94/9/EC (ATEX)

Additional cylinder options:

- Special seals for HFA, HFB, HFC and HFD liquids
- Special seals for high temperatures
- Special seals for high and extreme low piston speeds
- Piston rod on both sides

Accessories for standard cylinders, standard cylinders DIN/ISO and special cylinders:

- Mounting parts
- Assembly tools
- Position sensors
- Displacement transducers

Standard

HYDROPNEU - Quality from experts

Standard cylinder DIN/ISO series

Type 46

- Single rod cylinder according to ISO 6022 / DIN 24333
- Operating pressure 250 bar
- Piston-Ø 40 - 320 mm; Stroke up to 2000 mm

Type 46



Type 47

Type 47

- Single rod cylinder according to DIN ISO 6020/1
- Operating pressure 160 bar
- Piston-Ø 25 - 320 mm; Stroke up to 2000 mm



Type 48

Type 48

- Single rod cylinder according to DIN 24336
- Operating pressure 100 bar
- Piston-Ø 25 - 200 mm; Stroke up to 2000 mm



Type 51

Type 51

- Single rod cylinder according to ISO 6020/2 / DIN 24554
- Operating pressure 160 bar
- Piston-Ø 25 - 200 mm; Stroke up to 2000 mm



Type 41



Standard cylinder series

Type 41

- Round single rod cylinder
- Operating pressure 125 bar
- Piston-Ø 12 - 200 mm; Stroke up to 2000 mm

Type 44



Type 44

- Round single rod cylinder with cooling jacket
- Operating pressure 160 bar
- Piston-Ø 40 - 180 mm; Stroke up to 2000 mm

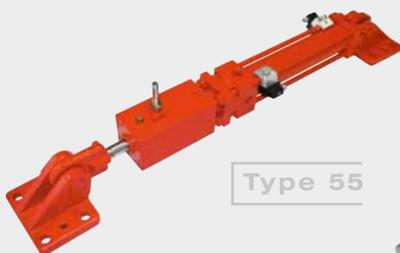
Type 53



Type 53

- Single rod cylinder in tie rod design with hydraulic interlock
- Operating pressure 160 bar
- Piston-Ø 40 - 200 mm; Stroke up to 2000 mm

Type 55



Type 55

- Single rod cylinder in tie rod design with built-on variable proximity switches
- Operating pressure 100 bar
- Piston-Ø 25 - 200 mm; Stroke up to 2000 mm

Type 57



Type 57

- Single rod block cylinder
- Operating pressure 400 bar
- Piston-Ø 16 - 200 mm; Stroke up to 2000 mm

HYDROPNEU - Convincing technology

power units

Customized hydraulic power units:

HYDROPNEU engineers and builds customized hydraulic power and control units from low-priced compact units in modular design up to large units, additionally with electronic control on request.

- Pump drive system (motor and pump) with the possibility of choosing between all established fixed displacement pumps as well as variable capacity pumps with appropriate control for pressure, flow and power.
- Oil-immersed pump installation or installation on the oil tank
- Flow rate Q up to 700 l/min
- Operating pressure up to 700 bar
- Power up to 110 kW
- Standard oil tanks consisting of aluminum or steel
- Oil tank up to 1500 l usable volume
- Special oil tanks according to customer specification
- Connecting plates with hydraulic valves
- Use of common monitoring devices for oil level, temperature, quality, pressure and flow
- Design according to EC Directive 94/9/EC (ATEX)

Hydraulic power unit with control cabinet for the supply of drive cylinders in power plants

- Pump performance 90 kW
- Redundant application of the components



Compact power unit for hydraulic supply of a machine tool



Solutions

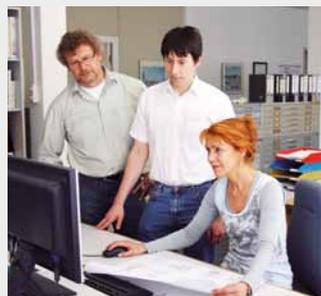
HYDROPNEU - Everything from a single source

HYDROPNEU realizes the complete project work and engineering of hydraulic drives and power transmissions. You are attended individually by a HYDROPNEU expert from consulting to production, delivery and in the ensuing period. Our systems provide best and always reliable work in all kinds of industries.

From project start ...



... to project conclusion:



The customer is always the centre of attention.



Precision in motion

