



ROEMHELD

PROGRAM SUMMARY

Elements and systems for production engineering

Power workholding



Hydraulic cylinders



Hydraulic pressure generators
Clamping and industrial power units



Assembly and handling technology



Linear actuator technology

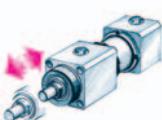


System solutions for production engineering





Hydraulic cylinders



Hydro-cylinders

Hydraulic cylinder, design with tube
piston diameter from 25 to 80 mm
stroke from 60 to 1,200 mm
max. operating pressure 200 / 250 bar



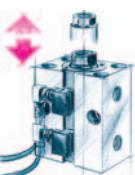
Universal cylinders

Hydraulic cylinders with round housing
piston diameter from 10 to 63 mm
stroke from 8 to 100 mm
max. operating pressure from 200 to 500 bar



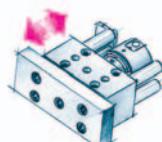
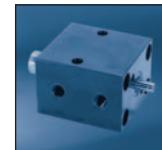
Threaded-body cylinders

Hydraulic cylinders and pistons for direct screwing-in in the fixture body
piston diameter from 4 to 50 mm
stroke from 4 to 40 mm
max. operating pressure from 160 to 500 bar



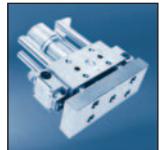
Block cylinders

Hydraulic cylinders with block-type body made of steel, aluminium or bronze
piston diameter from 16 to 200 mm
stroke from 8 to 200 mm
max. operating pressure from 160 to 500 bar



Hydraulic slides

Hydraulic cylinders with integrated guide rods and front block
piston diameter from 25 to 100 mm
stroke from 8 to 200 mm
max. operating pressure 250 / 500 bar



Hollow-piston cylinder

Hydraulic cylinders with extended piston rod and through hole with internal thread
piston diameter from 20 to 80 mm
stroke from 6 to 40 mm
max. operating pressure 500 bar



Elements for oil supply



Rotary couplings

Rotary couplings and rotary valve couplings for supply of pressure oil to rotating and swivelling installations
max. operating pressure 250 / 500 bar



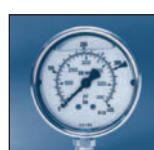
Couplings

Couplings to separate and connect hydraulic, pneumatic and vacuum lines
single elements and multi-couplings
nominal diameter 3, 5 and 8
max. operating pressure 300 up to 500 bar



Tubing elements

Fittings, hydraulic oil, precision steel tubes, connecting inserts, pressure gauges, tube clamps, high-pressure hydraulic hoses, high-pressure filters, hydraulic accumulators, pressure switches

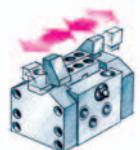


Hydraulic clamping elements



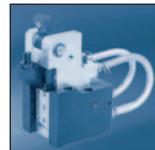
Bore clamps

Clamping elements for clamping in bore holes
Max. low clamping forces up to 9.8 kN
Bore diameter from 7.8 up to 46 mm
Max. operating pressure from 50 to 500 bar



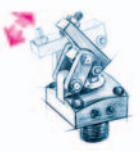
PosiFlex clamping elements

Clamping elements for the position flexible or "floating" clamping of workpieces
max. clamping force from 5.0 kN to 25.5 kN
clamping stroke/pendulum range from 4 to 12 mm
max. operating pressure from 250 to 500 bar



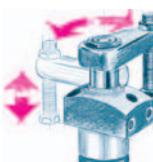
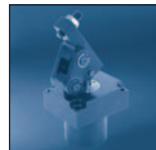
Clamps / clamping cylinders

Hydraulic clamps and clamping cylinders
max. clamping force from 2.2 to 50 kN
clamping stroke from 3 to 16 mm
max. operating pressure from 100 to 500 bar



Hinge clamps

Clamping elements with reverse swing clamping lever
Max. clamping forces from 2.2 up to 15 kN
Clamping stroke from 3 up to 7 mm
Max. operating pressure from 70 to 250 bar

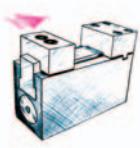


Swing clamps

Clamping elements with swing piston
max. clamping force from 0.6 to 41.0 kN
clamping stroke from 6 to 50 mm
max. operating pressure from 150 to 500 bar

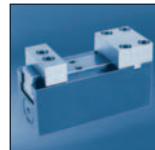


Fixture clamps

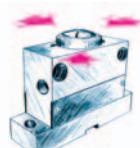


Fixture clamps

Compact hydraulic machine vices with fixed jaw, concentric or position flexible
max. clamping force from 4 to 15 kN
clamping stroke from 5 to 45 mm
max. operating pressure 250 bar



Concentric clamping elements

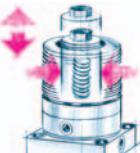


Concentric clamping elements

Hydraulically operated elements for concentric positioning and clamping of workpieces
for interior or exterior clamping
max. clamping force from 2.8 to 85 kN
repetitive accuracy of clamping force up to ± 0.005 mm



Hydraulic work supports



Work supports

Hydraulic work supports to support workpieces
max. support force from 6 to 102 kN
plunger stroke from 6 to 20 mm
max. operating pressure 500 bar





Hydraulic pressure generators I Clamping and industrial power units



Power units

Completely equipped standard power units
with gear pumps or radial piston pumps with
programmable control, electric control or terminal box
max. flow rate from 0.82 to 24.0 l/min
operating pressure from 50 to 500 bar



Hydro-pneumatic pump units

Pneumatically-operated pumps
to generate hydraulic pressure
for single and double acting cylinders
max. flow rate from 0.85 to 1.5 l/min
max. operating pressure 500 bar



Intensifiers

Hydraulic and pneumatic-hydraulic intensifiers
for single and double acting cylinders
max. output pressure from 300 to 500 bar



Manually-operated pumps

Pumps for clamping fixtures
and every kind of operations
operation by hand or foot lever
displacement per stroke from 2 to 12 cm³
screw pumps with displacement 21 cm³



Hydraulic valves



Hydraulic valves

Directional control valves, shut-off valves, flow control valves, pilot operated check valves, pressure relief valves, pressure reducing valves, sequence valves, valve module combinations



Pneumatic elements



Pneumatic swing clamps

Swing clamps in three different aluminium housings for adjustable magnetic sensors
max. clamping force from 140 to 1400 N
clamping stroke from 7 to 18 mm
max. operating pressure 7 bar



Pneumatic rotary couplings

Rotary valve couplings for air supply to rotating and swivelling installations
max. operating pressure 10 bar





Assembly and handling technology



modulog modular system

Modules for lifting, rotating, tilting and moving of workpieces up to 1,000 kg

All modules are complete functional units that can be easily combined to built multi-functional units.

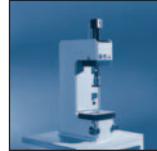


Press units

Hydraulic press-in devices

for power-operated processes

with O-shaped or C-shaped press-in frame
cylinder stroke 100 to 500 mm
nominal pressure force 25 to 150 kN



Linear actuator technology



Hydroactuators

Hydro-mechanical actuators

for every kind of linear motions

max. lifting force from 5.6 to 12.0 kN
stroke from 100 to 1,000 mm



Electroactuators

Electro-mechanical actuators

for every kind of linear motions

max. lifting force from 0.5 to 20.0 kN
stroke up to 1,500 mm

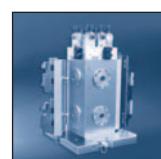


System solutions for production engineering



Consultation, design, engineering, delivery and service of clamping and positioning systems

- Modular clamping and fixture systems
- Customer-specific clamping and positioning systems



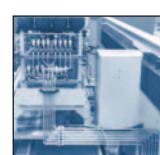
Service



Technical service for customers

Maintenance, mounting and repair

- maintenance works at hydraulic fixtures and hydraulic power units
- assembly of hydraulic fixtures
- repair works





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- Hydraulic pressure generators | Clamping and industrial power units
- Assembly and handling technology
- Linear actuator technology
- System solutions for production engineering

HILMA

Clamping systems and standard fixtures for metal cutting and non-cutting manufacturing

- Machine vices and workpiece clamping systems for machining centres and flexible manufacturing systems
- Tool clamping and changing systems for deformation tools
- Magnetic power workholding for plastic and rubber industry

STARK

Zero-point mounting systems

- SPEEDY classic – mechanical clamping, hydraulic release
- SPEEDY metec – the mechanical zero point mounting system
- SPEEDY airtac – the pneumatic fast changing element
- SPEEDY hydratec - hydraulic double acting
- Pallet changer, set-up and adjustment places
- Plates, angle brackets and cubes



N/C rotary table systems for machine tools, machining centres and special machines

- N/C rotary table systems
- N/C multi-axes swivel systems
- N/C indexing devices and indexing tables
- Pallet changers
- Contactless transmission of signals by rotary tables

FRIEDRICHSHÜTTE

Quality in grey iron and nodular iron Complex cast parts – completely machined

- Casting qualities: GG and GGG unalloyed
- Quantities from 1 up to series
- Machining and surface treatment

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