

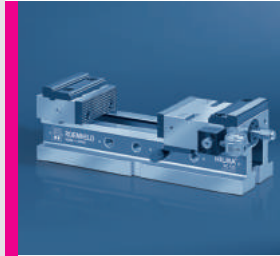
# ROEMHELD Group Program Summary

## PRODUCTS FOR PRODUCTIVITY

Workholding elements  
Hydraulic cylinders



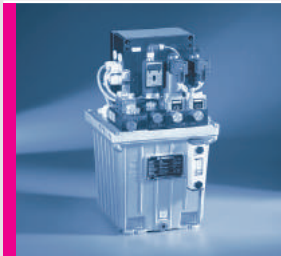
Workholding systems  
Machine vises



Zero point  
clamping systems



Clamping power units



Hydraulic components



Pneumatic elements



Handling technology



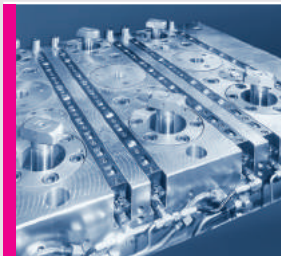
Press-in devices



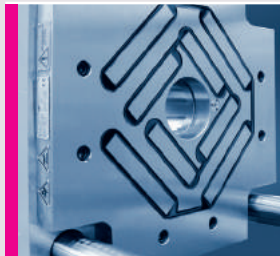
Drive technology



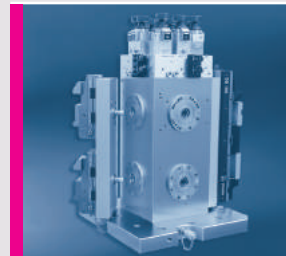
Die clamping systems



Magnetic clamping technology



System solutions





Content	Page
Hydraulic cylinders Workholding elements . . . . .	4-5
Workholding systems Machine vises . . . . .	6-7
Zero point clamping systems . . . . .	8
Plates – angles – cubes . . . . .	9
Clamping power units Pressure generators . . . . .	10
Hydraulic components . . . . .	11
Electro-mechanical clamping elements FSS clamping fixtures . . . . .	12
Drive technology Pneumatic elements . . . . .	13
Handling technology . . . . .	14
Press-in devices . . . . .	15
Die clamping systems . . . . .	16-17
Magnetic clamping technology Locking cylinders . . . . .	18
System solutions for production engineering . . . . .	19

## Quality as an obligation

To take a leadership role in the national as well as international quality competition the ROEMHELD Group feels obliged to a continuous process of improvements. Thereby the high quality of the processes and products is always guaranteed even with continuously changing demands on the market. ROEMHELD has achieved ISO 9001:2000 certification, which guarantees compliance with standard guidelines.

In addition, it is a stated objective to make the products and services of the ROEMHELD Group an established idea of quality. This will be a long-term guarantee that the ROEMHELD Group will offer efficient and economic products and will contribute to a considerable extent to the success of its customers.

## Solutions from the catalog or as a customer-specific design

In addition to the most comprehensive range of catalog elements and systems available in clamping technology, the ROEMHELD Group permanently develops, designs, manufactures and supplies customer-specific solutions in cooperation with their customers.

This program summary of the product range of the ROEMHELD Group shows essentially the catalog program.

Please contact Carr Lane Roemheld for customer-specific designs in North America.

## International aimed at global presence

Beside national customers, which are well looked after by 17 sales partners in Germany, export is more and more important. Already today the ROEMHELD Group shows an export share of approx. 50%, which increases to more than 65% because of indirect exports.

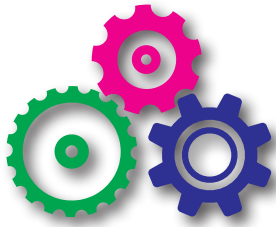
## Environment the protection of the environment is important to us

The companies of the ROEMHELD Group have their own environmental management systems. These ensure that the impact of the production on the outside world is kept to a minimum, only the necessary extent of emissions occur and resources such as energy, water, air and raw materials are used as carefully as possible.

The environmental management system of ROEMHELD is certified according to EN ISO 14001.



## ROEMHELD — a strong Group



ROEMHELD forms together with the specialists in clamping technology HILMA and STARK a group of companies, which offers an extensive product range in the field of clamping technology for production engineering.

The product range is supplemented by numerous hydraulic elements for general industrial use, as well as components and systems of the assembly and drive technology.

The ROEMHELD Group comprises about 500 employees with an annual turnover of approx. 98 million Euro.

Römheld GmbH Friedrichshütte

Germany



Hilma-Römheld GmbH

Germany



Stark Spannsysteme GmbH

Austria







## Hydraulic cylinders | Hydraulic workholding elements

Hydraulic cylinders for linear motions of every type  
Operating pressure: up to 500 bar

### Hydraulic cylinders

**Hydraulic cylinders, design with tube**  
with/without end position monitoring  
piston diameter: 25 ... 80 mm  
stroke: 60 ... 1200 mm



### Universal cylinders

**Hydraulic cylinders with round housing**  
for axial adjustability  
piston diameter: 10 ... 63 mm  
stroke: 8 ... 100 mm



### Threaded-body cylinders

**Compact hydraulic cylinders and built-in pistons for screwing in**  
piston diameter: 8 ... 50 mm, stroke: 4 ... 40 mm



### Block cylinders

**Hydraulic cylinders with block-type body made of steel, aluminium or bronze**  
with/without end position monitoring  
piston diameter: 16 ... 200 mm  
stroke: 8 ... 200 mm



### Hydraulic slides

**Hydraulic cylinders with integrated guides**  
with/without end position monitoring  
piston diameter: 25 ... 100 mm  
stroke: 20 ... 200 mm



Hydraulic elements for positioning and clamping of workpieces. Operating pressure: up to 500 bar

## Bore clamps

### Clamping elements for clamping in bore holes

with/without centering function / with pull-down clamping,  
with/without seat check, bore hole diameter: 6.6 ... 46 mm  
max. low-clamping force 0.6 ... 24.5 kN



## Position flexible clamping elements

### Clamping elements for "floating" clamping

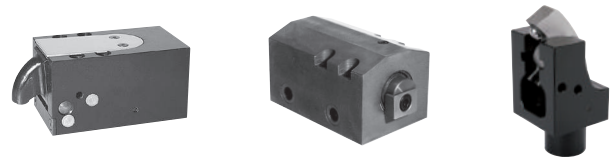
for exterior and interior clamping  
with/without position monitoring, max. clamping force: 7.5 kN



## Clamps / clamping cylinders

### Clamping elements for clamping in small recesses

with/without position monitoring, with/without self-locking  
max. clamping force: 2.5 ... 50 kN



## Hinge clamps

### Clamping elements with operation of a clamping lever

with/without position monitoring, max. clamping force: 1.3 ... 21.5 kN  
clamping stroke/clamping range: 2.0 ... 9.0 mm



## Swing clamps

### Clamping elements with swing piston

with/without position monitoring  
max. clamping force: 0.6 ... 41 kN,  
clamping stroke: 6 ... 50 mm



## Work supports

### Elements to support workpieces

single or double acting, max. load force 4 ... 102 kN  
plunger diameter: 16 ... 50 mm, plunger stroke: 6 ... 20 mm



## Concentric clamping elements

### Clamping elements for concentric positioning and clamping

for exterior and interior clamping, max. clamping force: 5 ... 44 kN  
repetitive clamping accuracy:  $\pm 0.005$  mm



## Fixture clamps

### Compact standard clamping systems for use on fixtures

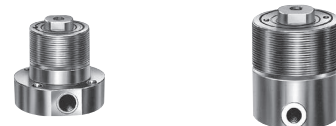
with fixed jaw, concentric or position flexible  
max. clamping force: 6.5 ... 15 kN, jaw width: 40 ... 65 mm



## Hollow-piston cylinders

### Clamping cylinders with through hole in the piston

piston diameter: 20 ... 80 mm  
max. push force: 10 ... 153 kN, clamping stroke: 6 ... 40 mm







## Workholding systems | Machine vises

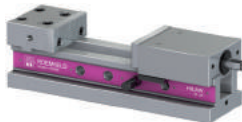
Mechanically, mechanically-hydraulically or hydraulically operated standard fixtures for workpieces

### Machine vises

**Mechanically-hydraulically or hydraulically operated clamping against the fixed jaw**

- with hydraulic power transmission
- completely encapsulated lead screw area
- sizes: 100 ... 160 mm
- max. clamping force: 25 ... 50 kN

#### Series EL



#### Series NC



#### Series KNC



### 5-axis clamping systems

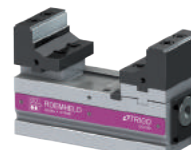
**Mechanically or hydraulically operated clamping against the fixed jaw or concentric clamping**

- compact design
- collision-free tool paths
- sizes: 40 ... 125 mm
- max. clamping force: 8 ... 35 kN

#### Series MC



#### Series SCS



#### Series PC

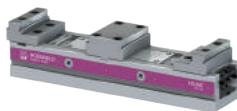


### Double and multiple clamping systems

**Mechanically, mechanically-hydraulically or hydraulically-operated clamping against the fixed jaw**

- safe loading and unloading by 3rd-hand function
- sizes: 24 ... 160 mm
- max. clamping force: 25 ... 63 kN

#### Series DS



#### Series DF



#### Series MSH

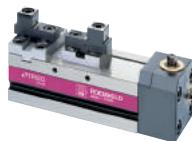


### Compact clamping systems

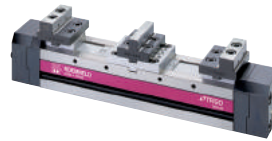
**Single and double clamping systems mechanically or hydraulically operated clamping against the fixed jaw**

- compact design
- different overall lengths
- sizes: 80 mm, max. clamping force: 12 ... 20 kN

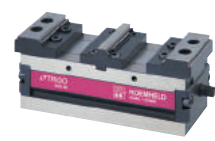
#### Series CS



#### Series DCS



#### Series DUO



## Variant clamping system VarioLine

### Series VL

#### Mechanically-hydraulically or hydraulically operated clamping against the fixed jaw

- option: clamping force display
  - system with variants for customized machine vises
- sizes: 100 ... 160 mm  
max. clamping force: 25 ... 60 kN  
length of base: up to 750 mm



## Concentric clamping systems

### Series ZH

#### Hydraulically operated, double acting concentric clamping

- high repetitive clamping repeatability  $\pm 0.01$  mm
  - fixing and mounting possibilities for customer-specific clamping jaws
- sizes: 100 ... 160 mm  
max. clamping force: 16 ... 64 kN



## Automation

### Series ASH

#### Hydraulically operated, double acting clamping against the fixed jaw

- also available with position measuring system (electrically or via flow rate)
  - setups can be automated
- sizes: 100 ... 125 mm  
hydraulic stroke: up to 250 mm  
max. clamping force: 32 kN



## Clamping jaws

top jaws with grip  
spacer jaws  
precision step reversible jaws  
precise step bars  
formed jaws  
central jaws  
pendulum jaws  
precision step jaws  
Vee jaws  
QIS base jaws  
with permanent magnets  
QIS interchangeable jaws, smooth  
QIS interchangeable jaws, serrated  
QIS interchangeable jaws, crowned  
QIS interchangeable jaws, stepped  
QIS interchangeable jaws, prismatic  
QIS interchangeable jaws, soft  
floating central jaws  
SlimFlex jaws  
clamping jaws, soft  
clamping jaws, extra high  
clamping jaws, extra large  
clamping jaws with grip bar  
special grip jaws  
reversible step jaws  
interchangeable inserts, round, with grip  
interchangeable inserts with grip/smooth  
interchangeable inserts  
with hard-metal coating/smooth  
reversible jaws



## Tower clamping systems

### Series TS

#### Arrangement of the clamping points: TS: 4 x 90° | TS-TriStar: 3 x 120° mechanically operated clamping against the central fixed jaw

- for 4, 8 or 16 workpieces
  - 3rd-hand function for safe loading and unloading
- sizes: 24 ... 160 mm  
max. clamping force: 12 ... 60 kN



### Series TS-TriStar



## Milling and turning machining

### Series KK

#### Box jaws, mechanically operated

- lead screw and nut completely encapsulated
  - easy pre-adjustment using a scale
- track: 150 and 180 mm  
max. clamping force: 30 ... 63 kN



## Magnetic clamping systems M-TECS

### Series MTECS V

#### Horizontal or vertical

- easy positioning of workpieces
  - 5-sided workpiece machining
- square poles: 50 or 70 mm  
plate thickness: 310x250 to 1000x610 mm (and specials)  
max. retention force: 350 ... 750 daN/Pol



### Series M-TECS H







## Zero point clamping systems

Clamping systems for exact zero point positioning and clamping of workpieces and fixtures

### SPEEDY metec

#### Easy, compact and sturdy

clamping: mechanically  
unclamping: mechanically  
max. retention force: 12 ... 50 kN



### SPEEDY classic

#### Clamping force monitoring, seat check, blast cleaning, flow power

clamping: mechanically  
unclamping: hydraulically or pneumatically  
max. insertion force: 30 kN  
max. retention force: 55 kN



### SPEEDY airtec

#### Quick and precise

clamping: mechanically  
unclamping: pneumatically  
max. clamping force: 20 kN  
max. retention force: 55 kN



### SPEEDY easy click

#### Clamping by pressing

clamping: mechanically  
unclamping: pneumatically  
max. clamping force: 5 kN  
max. retention force: 10 kN



### SPEEDY hydratec

#### Quick and flexible

clamping: hydraulically  
unclamping: hydraulically  
max. clamping force: 20 kN  
max. retention force: 38 kN



### SPEEDY sweeper

#### For automation

clamping: mechanically  
unclamping: hydraulically or pneumatically  
max. insertion force: 20 kN  
max. retention force: 38 kN



### System 3000

#### Strong and unique

clamping: hydraulically  
unclamping: hydraulically  
max. clamping force: 50 kN



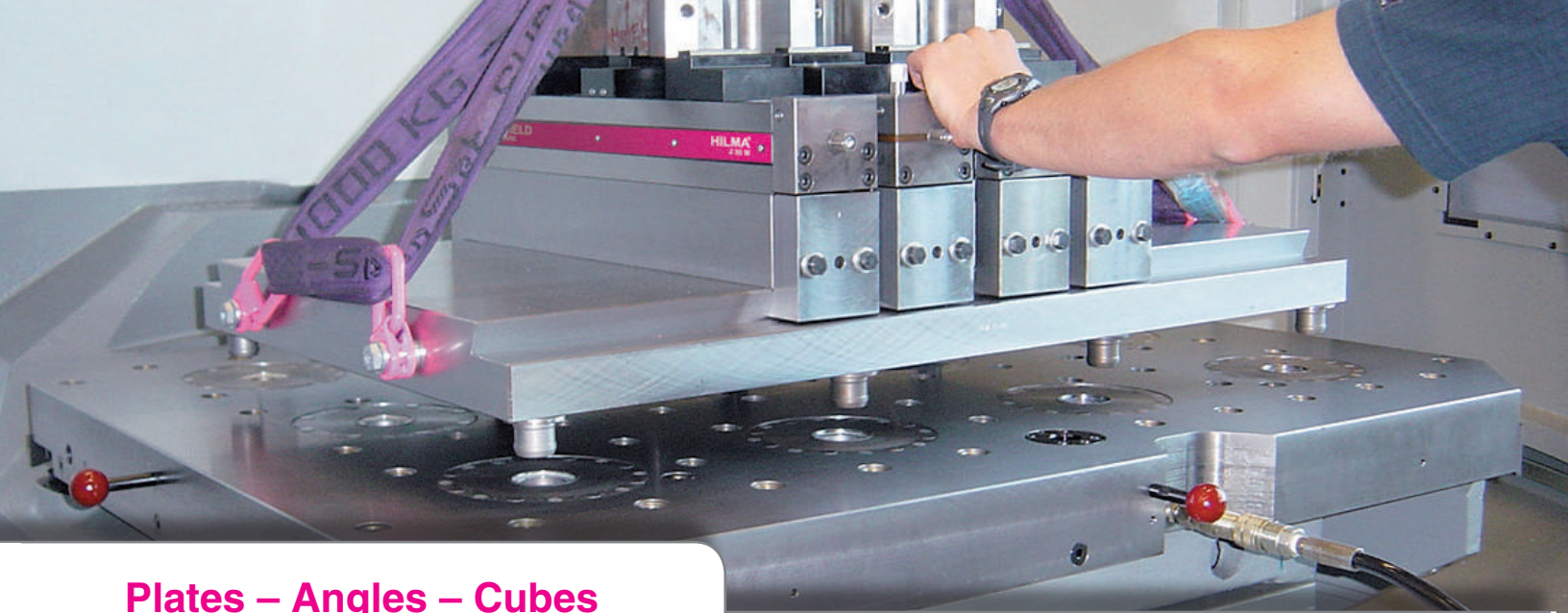
### Couplings

#### Universal and compact for hydraulics, pneumatics vacuum and electrics

nominal diameters: 3 ... 8 mm







## Plates – Angles – Cubes

From standard elements to systems for flexible use - with minimum set-up time

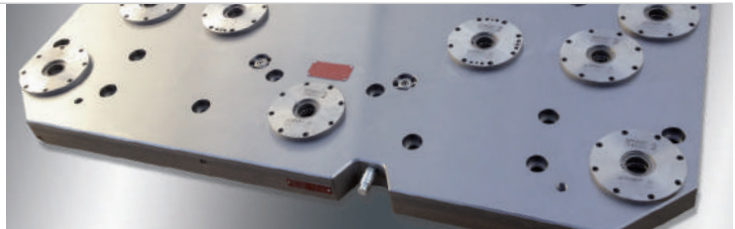
– mechanical – hydraulic – pneumatic – electrical – single acting – double acting –

### Quick-locking plates

#### For milling machining

from standard components, adapted to the machine and machining task

- fully assembled with 3D dimensional and functional test

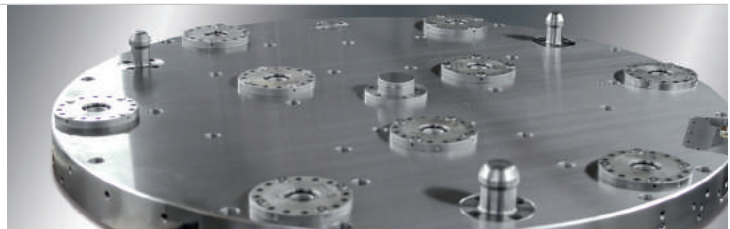


### Quick-locking plates

#### For turning machining

from standard components, adapted to the machine and the machining task

- standard clamping monitoring
- applicator for pre-centering



### Quick-locking cubes

#### For milling machining

from standard components, adapted to the machine and the machining task

- 3rd-hand-function (DHF) prevents dropping parts



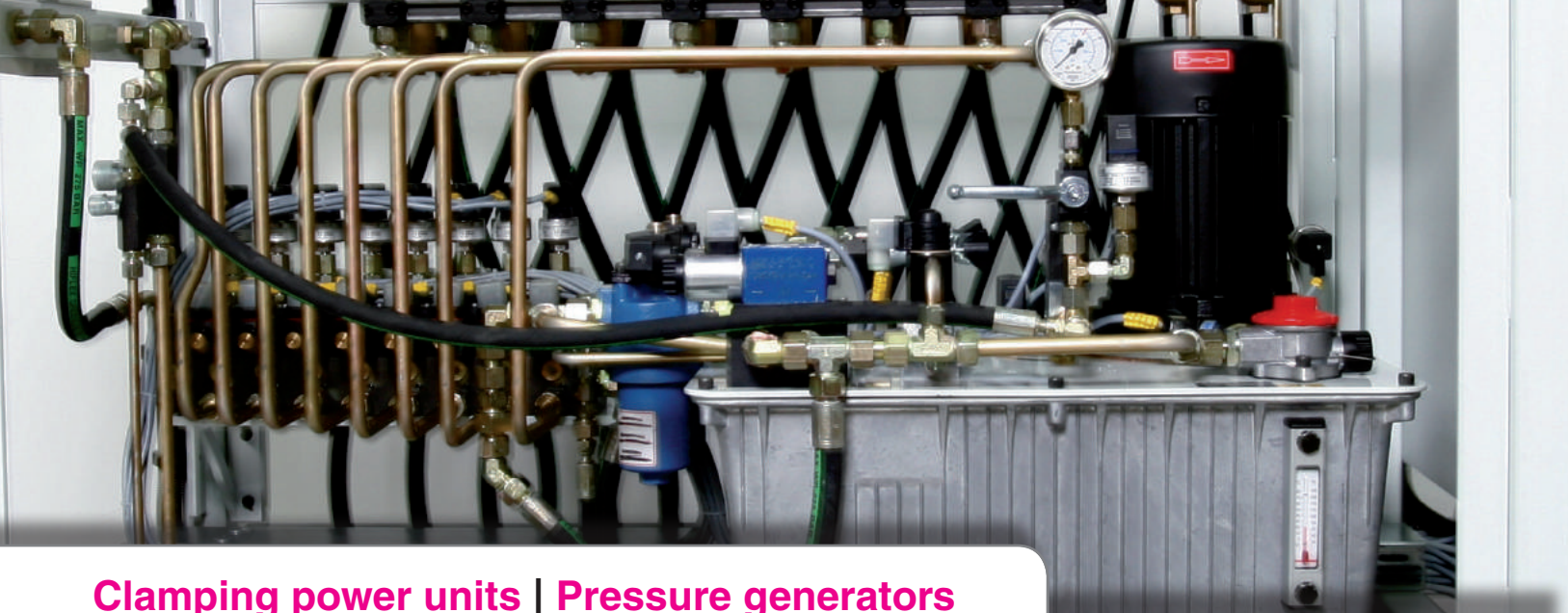
### Quick-locking plates

#### For automation

from standard components, adapted to the machine and machining task

- flow power as interface for pneumatic or hydraulic clamping fixtures and signal queries





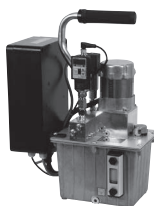
## Clamping power units | Pressure generators

Clamping power units, hydraulic power units, hydro-pneumatic pump units and manually-operated pumps to generate and control hydraulic pressure

### Power units D 8.010

**Compact and lightweight energy-saving intermittent cycling**

flow rate: 0.5 ... 0.8 l/min  
max. operating pressure: 200 bar  
reservoir volume approx. 3.5 l  
voltage: 400 VAC or 24 VDC



### Power units D 8.0115

**Ready for connection energy-saving intermittent cycling**

flow rate: 0.8 ... 3.5 l/min  
max. operating pressure: 160 ... 500 bar  
reservoir volume approx. 5 l  
voltage: 400 VAC



### Power units D 8.013

**With two-hand operator console**

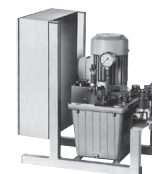
flow rate: 0.9 ... 4.5 l/min  
max. operating pressure: 50 ... 500 bar  
reservoir volume approx. 11 l  
voltage: 400 VAC



### Power units D8.015 | D8.018

**With proportional pressure adjustment**

flow rate: 0.9 ... 4.5 l/min  
max. operating pressure: 200 ... 500 bar  
reservoir volume approx. 11 l  
voltage: 400 VAC



### Power units D 8.021

**Basic version**

flow rate: 0.9 ... 6.2 l/min  
max. operating pressure: 50 ... 500 bar  
reservoir volume approx. 11 l  
voltage: 400 VAC



### Power units D 8.031

**Oil reservoir V = 27 l, 40 l and 63 l**

flow rate: 4.5 ... 24 l/min  
max. operating pressure: 50 ... 500 bar  
voltage: 400 VAC



### Hydro-pneumatic pump units

**For single and double acting cylinders**

flow rate: 0.85 ... 1.5 l/min  
air pressure: 0.85 ... 5.0 bar  
max. operating pressure: 500 bar



### Manually-operated pumps

**Hydraulic pumps for single-acting cylinders**

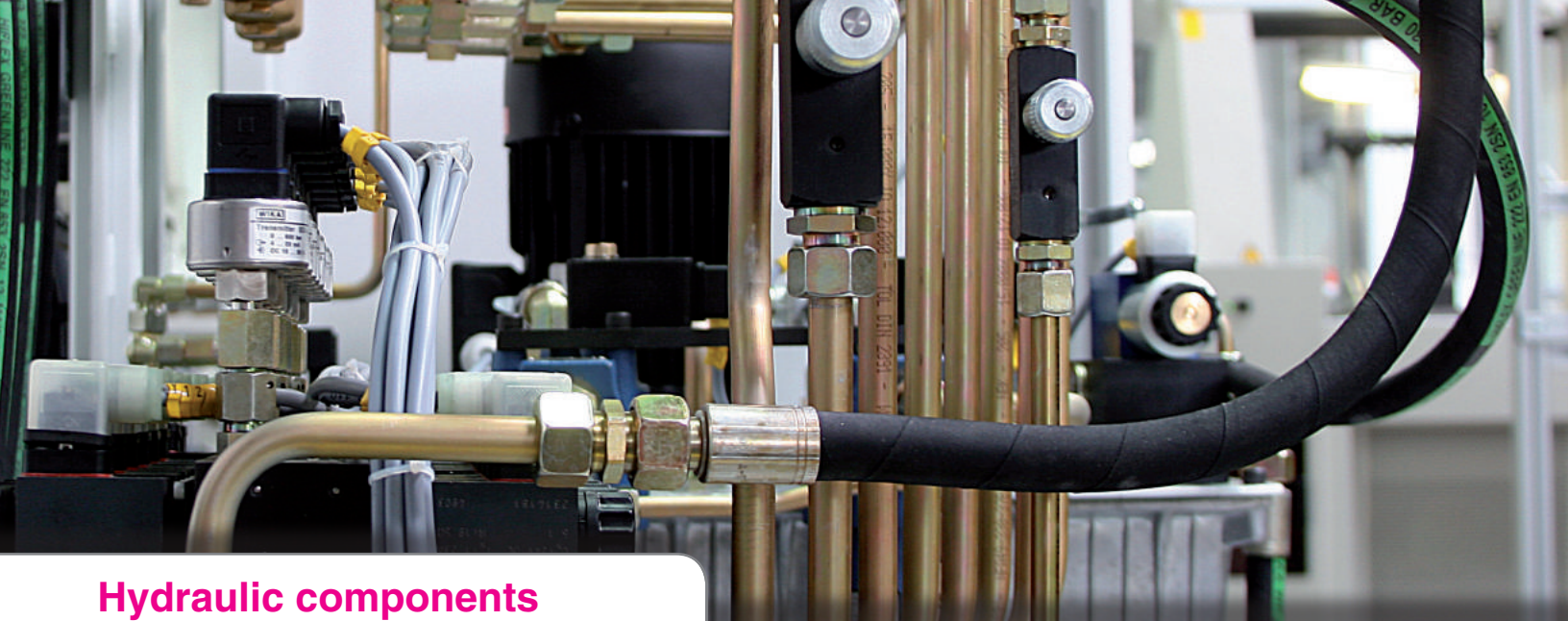
operation by hand or foot lever  
displacement per stroke: 2 ... 12 cm<sup>3</sup>

**Screw pumps**

displacement: 21 cm<sup>3</sup>







## Hydraulic components

Elements for oil supply and control to hydraulic elements

### Hydraulic valves

Directional control and shut-off valves  
Throttle and pressure control valves  
Pressure relief valves  
Check valves  
Sequence valves  
Valve combinations



### Hydraulic accumulator

Diaphragm accumulator for hydraulic oil with nitrogen gas filling  
nominal volume: 13 ... 750 cm<sup>3</sup>  
connections: G<sup>1</sup>/<sub>4</sub> ... G<sup>1</sup>/<sub>2</sub>  
max. operating pressure: 250 ... 500 bar



### Rotary couplings

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



### Intensifiers

Hydraulic-hydraulic or pneumatic-hydraulic  
single and double acting  
max. output pressure: 500 bar



### Pressure transducer

Piston pressure switch  
with continuously adjustable switching point  
manifold mounting or G<sup>1</sup>/<sub>4</sub>



### Coupling elements

For hydraulic oil, compressed air and vacuum  
nominal diameter: ND 3 ... 8  
max. flow rate 8 ... 35 l/min  
max. operating pressure: 300 ... 500 bar



### Multi-couplings

2 to 12 passages  
nominal diameter: ND 5 ... 8  
depressurised coupling or coupling against pressure  
max. operating pressure: 300 bar



### High-pressure filters

In-line filters, plug-in filters and rectifier filter  
filter fineness: 10 and 100 µm  
material: stainless steel and steel  
max. operating pressure: 350 and 500 bar



### Coupling units and systems

Manually or automatically operated  
for single or double acting elements  
max. operating pressure: 400 and 500 bar



### Piping elements

Fittings  
Hydraulic hoses/Hydraulic oil  
Precision steel pipes  
Plug-in connectors  
Pressure gauges/pipe clamps







## Electro-mechanical clamping elements

### Electric swing clamps

max. clamping force: 7 kN  
clamping stroke: 23 mm  
swing angle: max. 180°  
voltage: 24 V DC



### Electric block cylinders

max. clamping force: 10 ... 20 kN  
stroke: 100 mm  
voltage: 24 / 48 V DC



### Electric work supports

max. load force 20 kN  
plunger stroke: 20 mm  
voltage: 24 V DC



### Electric wedge clamping elements

max. retention force: 130 ... 320 kN  
clamping stroke: 20 mm  
voltage: 24 V DC



## FSS clamping systems

Flexible clamping and support elements for clamping of thin-walled workpieces with free-form surfaces

### Clamping and supporting elements

**Elements with their own linear actuator and vacuum clamping technology**

piston rod Ø: up to 70 mm  
strokes: 100 up to 1000 mm  
max. axial support force: 1.2 ... 12.0 kN



The core elements of a FSS clamping system are the clamping and support elements that can be used in unlimited quantity and that together form the contact surface of the workpiece. Since each element can be positioned individually on the relevant workpiece geometry, FSS clamping systems allow for a flexible configuration of individual surfaces to clamp and support workpieces. Depending on the workpiece surface and geometry, clamping forces of 300 N per element and more can be obtained.



## Drive technology

Electrically and manually operated linear actuators for adjusting procedures under demanding conditions in industry, automotive engineering and medicine technology

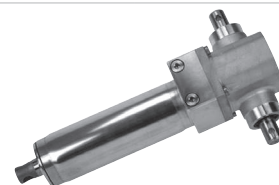
### Electrically-operated linear actuators

**Voltage: 12 or 24 VDC**  
**version with limit switches**  
**or stroke measuring system**  
 max. force: 0.3 ... 6.0 kN  
 stroke: 100 ... 600 mm



### Manually-operated linear actuators

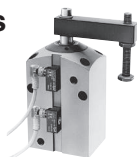
**Manual-hydraulic version**  
 max. force: 4.5 ... 12.5 kN  
 stroke: 80 ... 600 mm



## Pneumatic elements

### Pneumatic swing clamps

**With adjustable magnetic sensors**  
 double acting  
 max. clamping force: 140 ... 1400 N  
 max. operating pressure: 7 bar

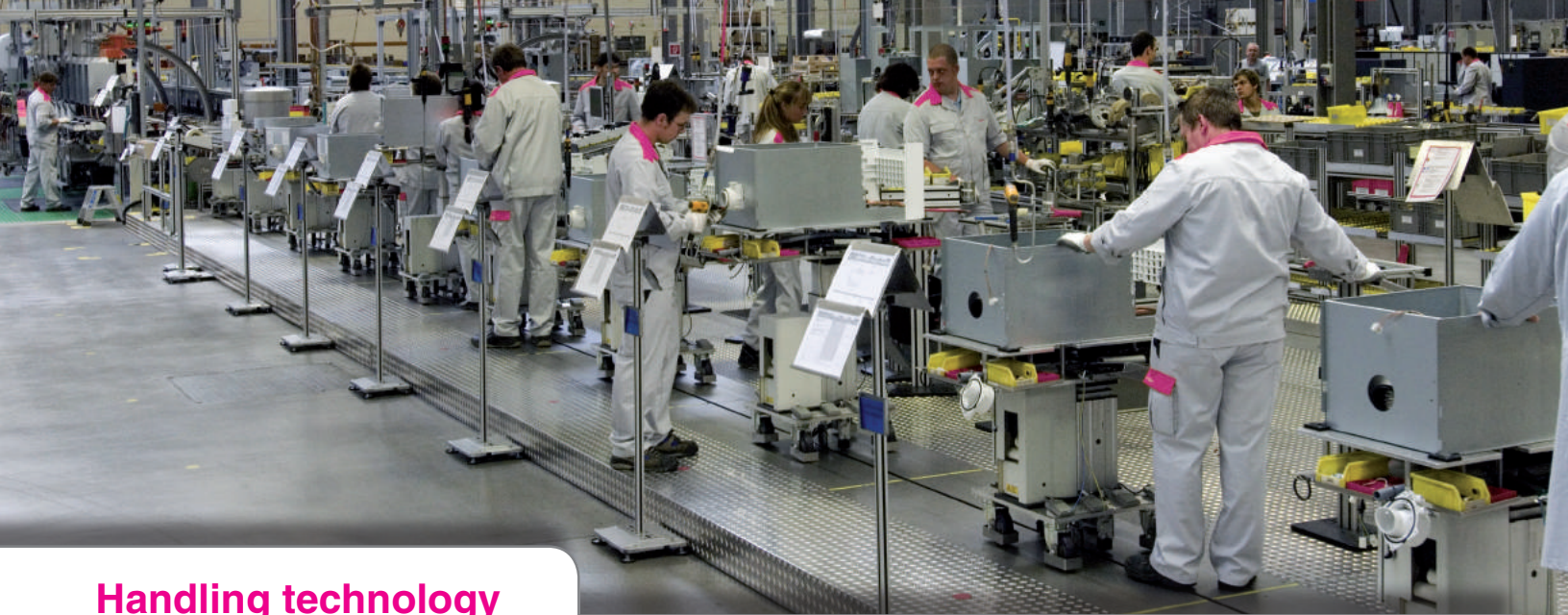


### Pneumatic rotary valve couplings

**Number of stations: 5 ... 8**  
 nominal diameter 3  
 max. operating pressure: 10 bar







## Handling technology

**Modular Units program – modules for rotating, lifting, tilting and moving of heavy workpieces**  
Individual modules can be easily combined to built multi-functional units

### Rotating modules – horizontal axis

**For rotation of the workpiece around the horizontal axis**

manually or electrically operated  
option: indexing  
option: flow power  
workpiece weight: up to 200 kg



### Rotating modules – vertical axis

**For rotation of the workpiece around the vertical axis**

manually or electrically operated  
option: indexing  
option: flow power  
workpiece weight: up to 1000 kg



### Lifting modules

**For guided lifting and lowering of the workpiece**

operated by a hydraulic or electrical actuator  
workpiece weight: up to 600 kg  
max. strokes: 200 ... 1000 mm



### Tilting modules

**For tilting or swivelling of the workpiece around an axis between the final positions 0° and 90°**

manually or electrically operated  
option: indexing  
workpiece weight: up to 100 kg



### Cart modules

**To displace manually individual modules or module combinations**

with parking brake  
max. load: 2000 and 6000 N



### Floor modules

**Base frame for 1 or 2 modules**

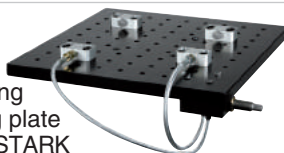
to compensate unevenness of the floor  
space and good stability  
max. load: 6000 and 8000 N



### Clamping fixtures

**To clamp workpieces on modular fixtures**

- hydraulic and mechanical clamping elements with universal clamping plate
- quick-change mounting plate with STARK zero point clamping system



### Accessories

Base plates, Adaptor plates, Flange plates, Table plates, Supply units, Hand panels, Foot switches, Operating panels, Power supply for mobile systems, Command modules





## Press-in devices

**modupress** module program – hydraulically or electrically-operated press in devices for power-operated processes such as jointing, pressing-in, jolting, deforming and riveting

### Press-in devices P 1.100

#### Portal design hydraulic drive

creep/rapid speed control with  
optional force/stroke monitoring  
max. press-in force: 40 ... 100 kN



### Press-in devices P 1.200

#### C-frame design hydraulic drive

creep/rapid speed control with  
optional force/stroke monitoring  
max. press-in force: 40 ... 100 kN



### Press-in devices P 1.101

#### Portal design electrical drive

creep/rapid speed control with  
optional force/stroke monitoring  
max. press-in force: 7 and 25 kN



### Press-in devices P 1.201

#### C-frame design electrical drive

creep/rapid speed control with  
optional force/stroke monitoring  
max. press-in force: 7 and 25 kN



### Press-in devices P 1.102

#### Portal design hydraulic drive

creep/rapid speed control with  
programming of the operating time  
max. press-in force: 40 ... 100 kN



### Press-in devices P 1.202

#### C-frame design hydraulic drive

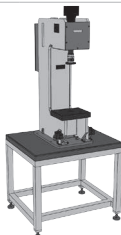
creep/rapid speed control with  
programming of the operating time  
max. press-in force: 40 ... 100 kN



### Press-in devices P 1.220

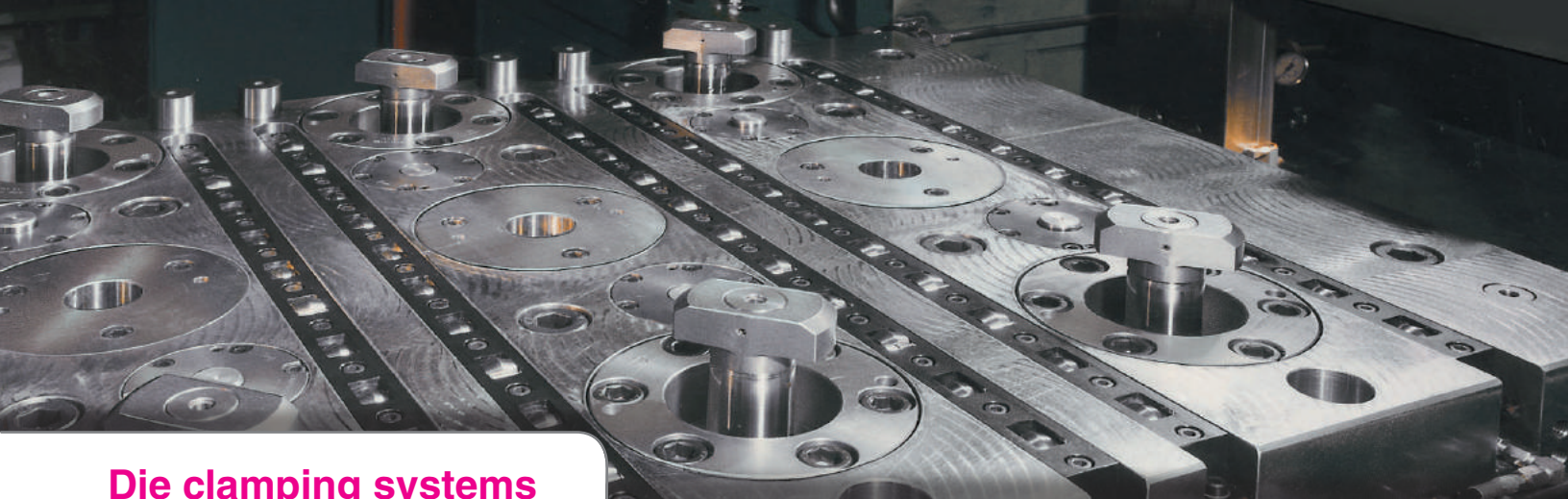
#### C-frame compact design table-top version hydraulic drive

with integrated power unit  
and pressure switching  
max. press-in force: 40 ... 100 kN



### Accessories

Protection cabins, Light grids,  
Sliding tables, Sensor technology,  
Quick-disconnect couplings



## Die clamping systems

Die clamping and changing systems for press automation  
Quick changing systems for machines, presses and equipments

### Hydraulic workholding elements

#### Hollow-piston cylinders

for retrofitting on press bed and ram

#### Spring clamping cylinders

for spring-loaded long-term clamping

#### Angular clamps

for clamping on small clamping edges



#### Clamping bars

flat clamping element for bed and ram  
max. clamping force: 30 ... 116 kN, piston stroke: up to 8 mm

#### Double-T clamping bars

to use the complete bed or ram surface  
max. clamping force: 16 ... 320 kN

#### Sliding clamps

for insertion in T-slots  
max. clamping force: 19 ... 78 kN, piston stroke: up to 12 mm



#### Swivel and pull clamps

clamping cylinders with tie rods

#### Wedge clamps

sturdy clamping elements for straight or inclined  
clamping edge  
max. clamping force: 1250 kN

#### Block clamps

with self-locking mechanical lock  
max. clamping force: 200 kN



#### Pull-type clamping element

max. clamping force: 104 ... 160 kN, clamping stroke: 10 mm

#### Swing/swing sink clamping elements

without interfering edges when inserting the die  
max. clamping force: 60 ... 164 kN

#### Rapid clamping systems

automatic travelling units with clamping element



#### Pull-type cylinders

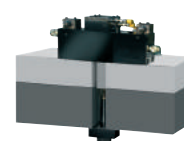
pull-type cylinder with tie rod for inaccessible points

#### Wedge swing clamps

with mechanical lock

#### Grip rail couplings

rapid clamping system for grip rails





## Electro-mechanical clamping elements

### Tenon-type clamping elements

clamping by grip and pull movement

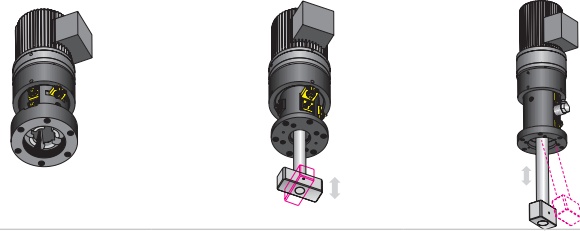
### Swivel and pull clamps

clamping by swivel and lifting movement

### Swing clamps

clamping by swing and lifting movement

max. clamping force: 70 ... 160 kN



### Wedge clamping elements

compact electro-mechanical power package

max. clamping force: 160 kN, retention force 300 kN

### Angular clamps

clamping in any position of the travelling path

max. clamping force: 50 kN, retention force 320 kN



## Mechanical clamping elements

### Sliding clamps

with integral high-pressure spindle

### Clamping blocks with high-pressure spindle

with integral high-pressure spindle

### High-pressure spindles, separate

with integral wedge system

max. clamping force: 40 ... 120 kN



### Clamping nuts, mechanical

without / with clamping force display

max. clamping force: 60 ... 200 kN

### Clamping nuts, hydro-mechanical

with integral hydraulic cushion

max. clamping force: 60 ... 150 kN



## Die changing technology

### Roller bars

hydraulic or spring-loaded

### Ball bars

hydraulic or spring-loaded

### Roller conveyors

without lifting

### Roller and ball inserts

spring-loaded



### Carrying consoles, hanging

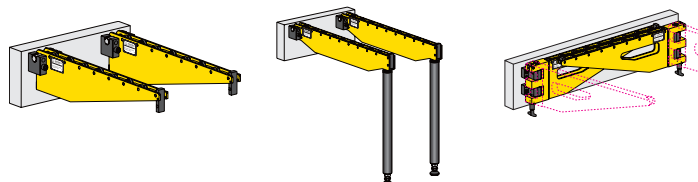
max. load per pair: 5 ... 30 kN

### Carrying consoles, supported

max. load per pair: 20 ... 250 kN

### Carrying consoles, swivelling

max. load per pair: 10 ... 60 kN



### Changing carts

for handling of dies up to 500 kg

with ball table, hydraulic height adjustment

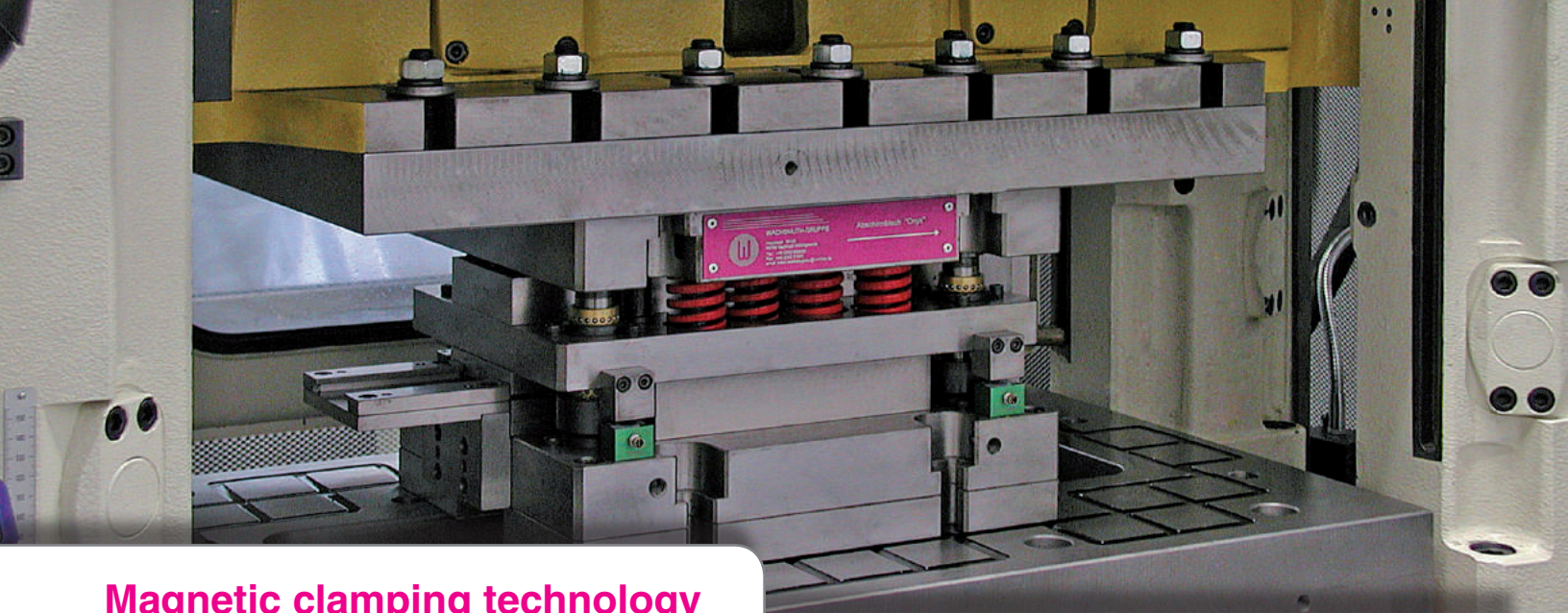
and safety docking station

### Die changing consoles

with drive system for die weights up to 250 kN







## Magnetic clamping technology

M-TECS magnetic clamping plates and systems for injection molding machines, forming presses, rubber presses, mould carriers, milling machines and machining centers

### M-TECS 130-K

For the plastics industry  
max. temperature range: 130 °C  
plate thickness: 47 mm



### M-TECS 240-D

For die-casting machines  
max. temperature range: 240 °C  
plate thickness: 55 mm



### M-TECS 80-F

For mold carrier systems  
max. temperature range: 80 °C  
plate thickness: 47 mm



### M-TECS 80-B

For sheet metal forming  
max. temperature range: 80 °C  
plate thickness: 55 ... 67 mm



### M-TECS 240-G

For the rubber and Duroplast industry  
max. temperature range: 240 °C  
plate thickness: 55 ... 75 mm



### M-TECS 40-F

For machining  
max. temperature range: 40 °C  
plate thickness: 55 ... 67 mm



## Locking cylinders

To fix rotors of on- and offshore wind power plants for maintenance works

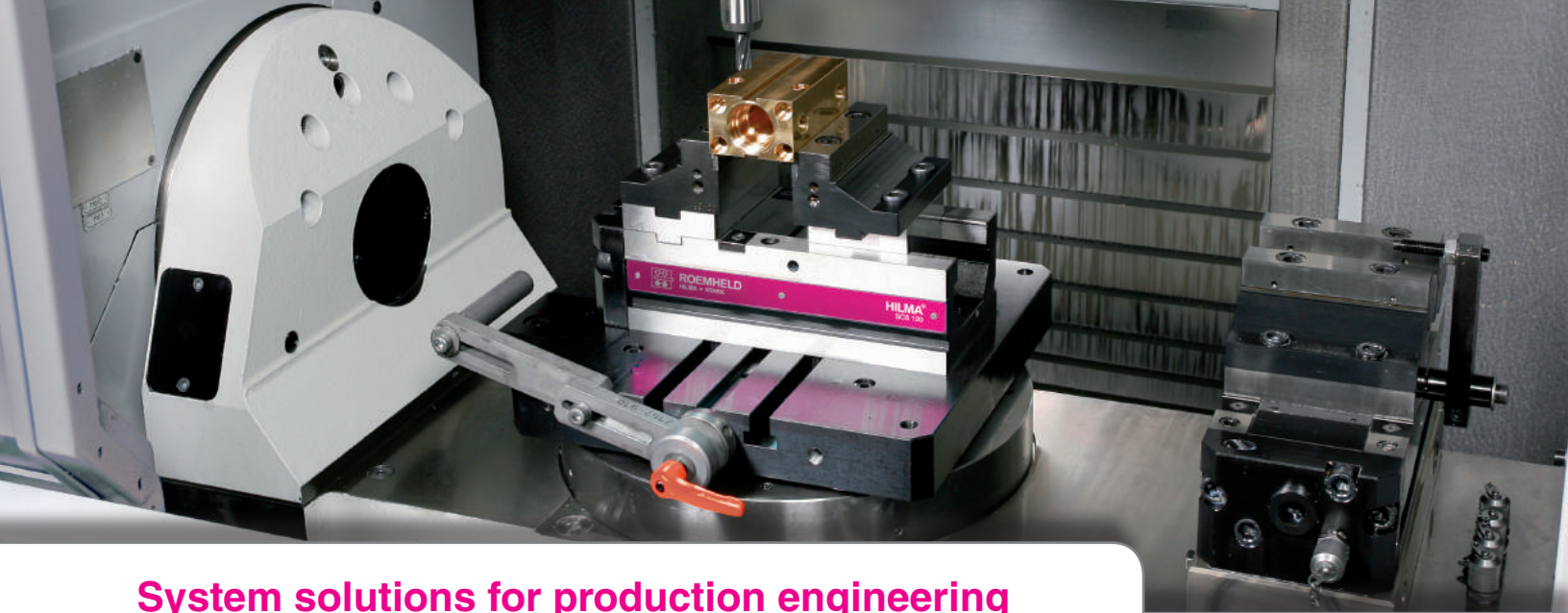
### Rotorlock

Hydraulic, mechanical or electro-mechanical

sizes: up to 7500 kN side load  
with position monitoring  
corrosion protection as per DIN ISO 12944  
max. temperature range: -40 ... +70 °C







## System solutions for production engineering

Consulting, design, planning, engineering, construction design, production, delivery, start up and maintenance of clamping and positioning systems

### All from a single source

#### From the idea to the engineering up to start up and maintenance

If it is the matter of planning of clamping systems for a new machine tool or of optimizing and transition to flexible of already existing clamping processes, we give you our advice and support.

Based on your demands, we develop for you ideas and support you in engineering, start up and maintenance.



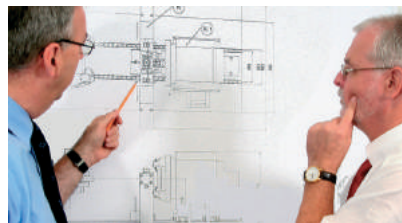
### Expert know-how on call

#### Individual consultation and services

From the first consultation free of cost up to order-related services, our activities for all tasks are adapted to your requests and objectives.

If it is a matter of preparation of concepts or constructional sketches for partial or complete solutions or calculations of amortizations or detailed designs:

You decide yourself which services you would like to use.



### Approved and reliable solutions

#### Clamping and fixture systems made of standard modules

With the experience in realizing versatile individual projects in the individual companies of the ROEMHELD Group, we are now in the position to offer a unique, modular product range of clamping and fixture systems.

The use of approved and reliable standard modules is the key for optimized production and engineering costs and guarantees the realization of individual system solutions without risks.

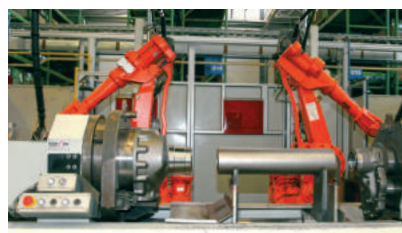


### System solutions – directly from the manufacturer of power workholding

#### Customer-specific clamping and positioning systems

Our engineering know-how and the huge number of fully-developed clamping and positioning technologies in the ROEMHELD Group allows us to produce and to deliver customer-specific systems.

Due to design and production of the relevant components within the ROEMHELD Group we have access to extended know-how and well-proven production engineering, which together with our engineering know-how guarantees a fully-developed and reliable function of the complete system.



## ROEMHELD Product Lines:

### Power Workholding



- Power workholding devices
- Quick die change for stamping
- CNC machining center vises
- Quick mold change for plastics and rubber
- Zero point mounting systems
- Assembly devices



### Quick Die Clamping



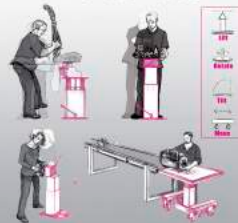
### Machine Vises



### Zero Point Mounting



### Assembly Products



### Quick Mold Clamping



facebook.com/CarrLaneRoemheld



linkedin.com/company/carr-lane-roemheld



youtube.com/carrlaneroemheld



instagram.com/carrlaneroemheld



Are you interested in an individual consultation or do you have any questions about our products?

We are pleased to support you.

927 Horan Drive • Fenton, MO 63026  
Phone 636-386-8022 • Fax (636) 386-8034  
Web: [carrlaneroemheld.com](http://carrlaneroemheld.com)  
Email: [info@clrh.com](mailto:info@clrh.com)

