ROEMHELD

PROGRAM SUMMARY

Die Clamping and Changing Systems



Die Clamping Technology

- Hydraulic Clamping Elements
- Electro-mechanical Clamping Elements
- Mechanical Clamping Elements
- Magnetic Clamping Systems
- Grip Rail Couplings
- Hydraulic Power Units

Die Changing Technology

- Roller, Ball and Transport Bars
- Die Changing Carts
- Carrying Consoles
- Rack Systems for Die Storage
- Push-pull Chain Systems
- Rail-guided Die Changing Carts

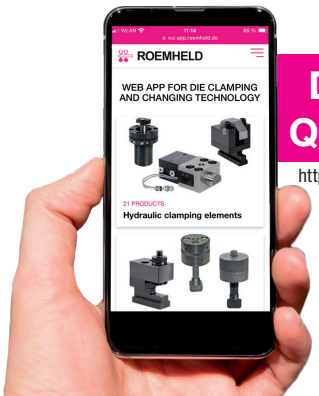
Rotor Locks

- On- and Off-shore Rotor Locks

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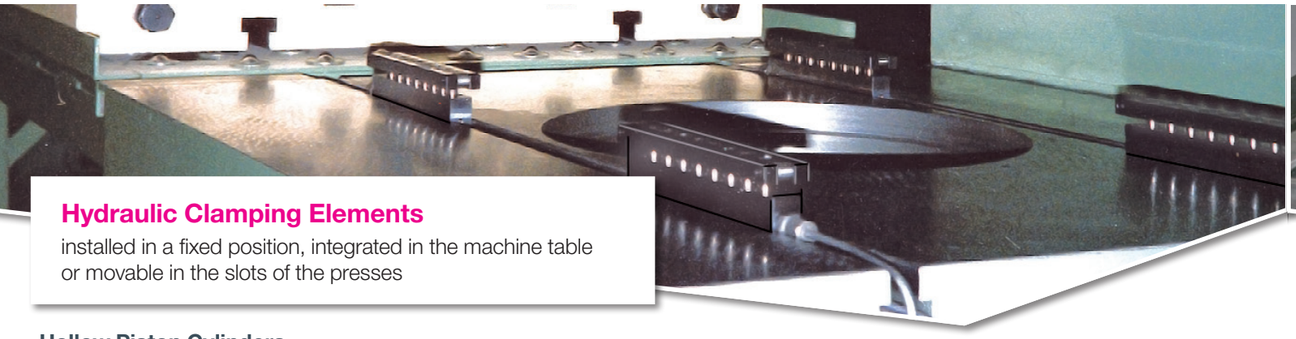


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Hydraulic Clamping Elements

installed in a fixed position, integrated in the machine table or movable in the slots of the presses



Hollow Piston Cylinders

for press bed and ram, single acting



2.1300
without spring return



2.1320
with spring return



3.2130
hydraulic clamping and spring unclamping

Spring Clamping Cylinders

which clamp mechanically by Belleville springs



2.1400
with hydraulic return



3.1403
spring clamping - hydraulic unclamping

Double-T Clamping Bars

hydraulic, for T-slots



2.1832
single acting with spring return



2.1832
double acting without carrying rollers



2.1832
double acting with carrying rollers

Clamping Bars

with press-in or built-in piston



2.2095
single acting with spring return



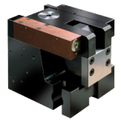
2.2096
single acting with spring return



2.2097
double acting

Block Clamps

with self-locking mechanical lock



2.2480
double acting

Swing and Pivot Cylinders

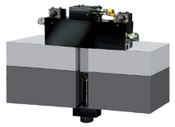
hydraulic clamping cylinders with tie rod, which swing or tilt into the clamping position



2.2185
Pivot and pull clamps



2.2230
Swing Sink Clamps for exterior clamping



2.2240
Wedge swing clamps with mechanical lock

Wedge Clamps for Tapered Clamping Edge



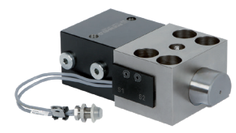
2.2401
without and with position monitoring at the side



2.2402
with adjustable position monitoring at the back



2.2403
with safety step



2.2404
with form-fit safety step and position monitoring



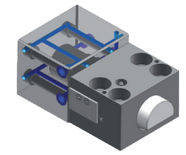
2.2405
with locking bolt



2.2407
with sequence valve control for high temperature ranges



2.2409
with single valve control for individual control

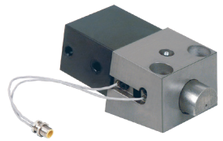


2.2410
with cooling circuit for temperatures up to 250 °C

Wedge Clamps for Flat Clamping Edge



2.2450
clamping with spring force and hydraulic unclamping



2.2451
hydraulic clamping and unclamping



2.2460
hydraulic clamping and unclamping



2.2503
Arch Clamps

Swing Sink Clamps

with 90 ° swing angle



4.2150
Swing Sink Clamps



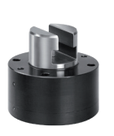
4.2170
Swing Clamps with 90° swing angle

Pull-clamping Elements

hydraulic pull-type cylinders with tie rod



4.2180
Pull-clamping elements

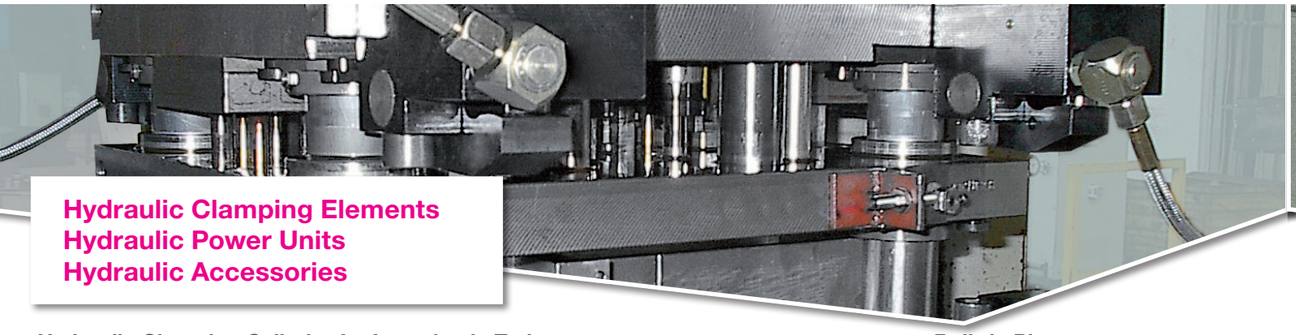


4.2350
Pull Clamps with T-Slot



4.2351
Pull Clamps with T-Slot

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Hydraulic Clamping Elements
Hydraulic Power Units
Hydraulic Accessories

Hydraulic Clamping Cylinder for Insertion in T-slots



3.2205
Sliding clamps
with spring return



3.2206
Angular clamps
with spring return



3.2207
Angular clamps
with spring return

Built-in Pistons



4.1070
with spring return

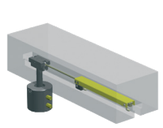
Rapid Clamping Systems



3.2260
Flexline-R
sturdy version



3.2280
Flexline
with push chain



3.2295
with
pneumatic cylinder



RHI-WZ003
Flexline I4.0
with condition monitoring

Grip Rail Couplings



4.2900
hydraulic, mechanical,
electrical or
hydro-mechanical



RHI-WZ001
coupling and clamping
without energy

Hydraulic Power Units



7.1600
Power Units
500/250/160 bar
0,82/2,1/3,5 l/min



7.1800
Power Units in Modular Design
30 to 500 bar
0,9 to 12 l/min



8.800
Hydraulic Clamping Pump
manually operated
100, 200 and 500 bar

Hydraulic Accessories



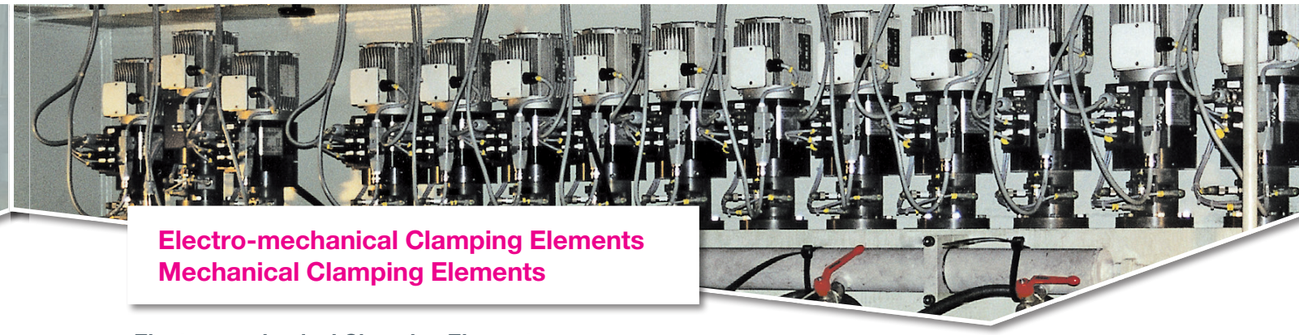
11.2800
Fittings and pipes



11.3800
High-pressure hoses, connector blocks couplings and plug-in connectors



11.9200
Pressure switches, valves, pressure gauges and hydraulic oil



Electro-mechanical Clamping Elements
Mechanical Clamping Elements

Electro-mechanical Clamping Elements



5.2620
Tenon-Type Clamps
self-locking
with position monitoring



5.2640
Swivel and Pull Clamps
self-locking
with position monitoring



5.2650
Swing Clamps
with position monitoring



5.2670
Wedge Clamps
for flat or tapered clamping edge

Mechanical Clamping Elements



6.2210
Sliding Clamps
with integral
high-pressure spindle



6.2270
High-Pressure Spindles, mechanical
with integrated wedge system

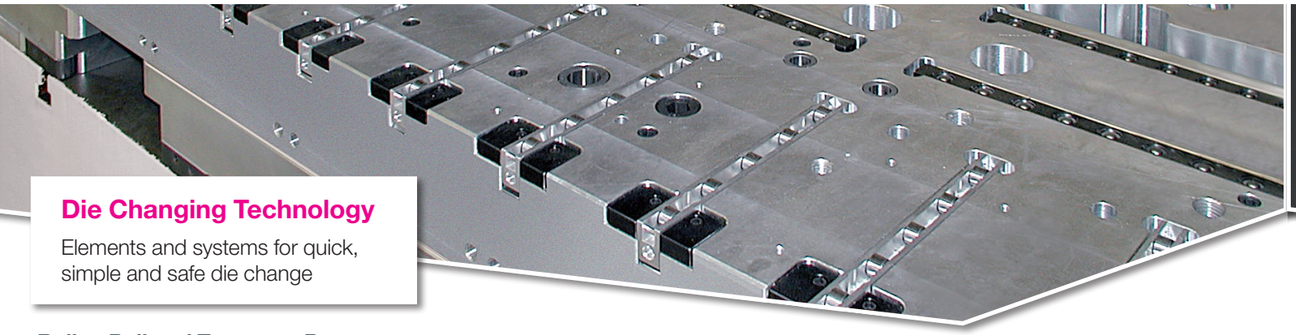


6.2274
Clamping Nuts mechanical
with through-hole thread, without
clamping force display



6.2276
Clamping Nuts mechanical
with through-hole thread and
optional clamping force display

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Die Changing Technology

Elements and systems for quick, simple and safe die change



Carrying Consoles
Die Changing Consoles

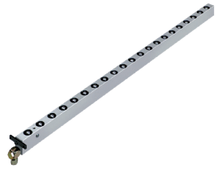
Roller, Ball and Transport Bars

Roller Bars



8.18340
hydraulic
with lifting of the bar

Ball Bars



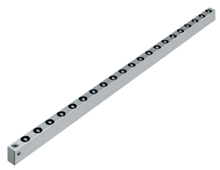
8.18341
hydraulic
with lifting of the individual balls

Roller Bars



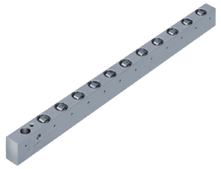
8.18342
hydraulic
with lifting of the individual rollers

Ball Bars



8.18343
mechanical
with spring pack

Roller Bars



8.18344
mechanical
with spring pack

Roller and Ball Inserts



8.18345
mechanical
with spring pack

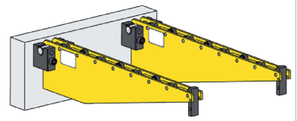
Roller Conveyors



8.18347
mechanical
without spring pack

Carrying Consoles

Carrying Consoles



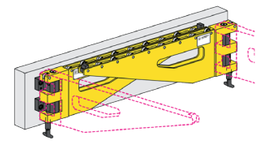
8.18350
hanging
load per pair up to 30 kN

Carrying Consoles



8.18351
supported
load per pair up to 250 kN

Carrying Consoles



8.18352
swivelling
load per pair up to 60 kN

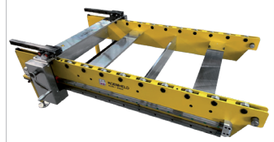
Die Changing Consoles

Die Changing Consoles



8.18353
electrically driven
with push-push drive
die weight up to 25 tons

Die Changing Consoles



8.18354
manually driven
with crank handle
and transmission gearing
die weight up to 6 tons

Die Changing Consoles



8.18360
electrically driven
with push-pull chain drive
die weight up to 50 tons

Push Chain Direct System



8.18362
with Push-pull System
electrically driven
ewith push chain drive
die weight up to 40 tons

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Die Changing Carts
Rack Systems for Die Storage

Die Changing Carts

RW 500



8.8900
manually movable
with safety docking station
max. load capacity 500 kg

RW 1000



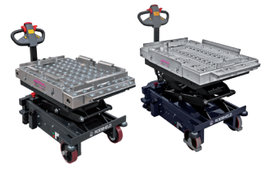
8.8901
manually movable
with safety docking station
max. load capacity 1,000 kg

RW 600 elmo



8.8901A
manually movable
electro-hydraulic lifting
and lowering
max. load capacity 600 kg

RWA 1000 elmo



8.8901B
electrically movable
electro-hydraulic lifting
and lowering
max. load capacity 1,000 kg

RWA 1600



8.8902
electrically movable
electro-hydraulic lifting platform
without and with push-pull
system
max. load capacity 1,600 kg

RWA 2500/4000/6000



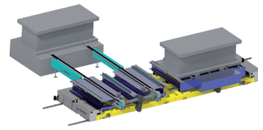
8.8904
electrically movable
electro-hydraulic lifting platform
with push-pull system
max. load capacity 2,500,
4,000 or 6,000 kg

RWT



8.8905
electrically movable
electro-hydraulic lifting platform
with push-pull system
max. load capacity 4,000 kg

RWS



8.8920
rail-guided
electrically movable
with integrated push-pull system
max. load capacity 40 tons

Die Load Platform RLP

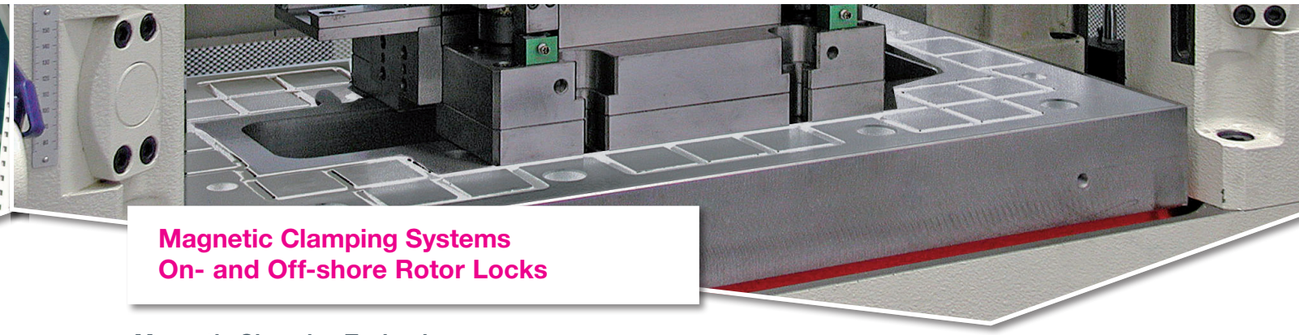


8.8915
hydraulic
with die changing table
hand pump and
hydraulic ball bars
max. load capacity 1,000 kg

Rack Systems



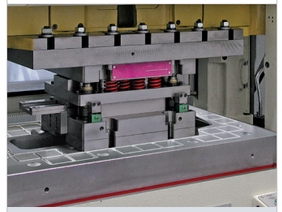
8.8910
with integrated ball
or roller bars



Magnetic Clamping Systems
On- and Off-shore Rotor Locks

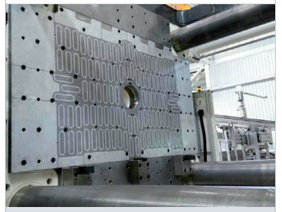
Magnetic Clamping Technology

R-MAG-M



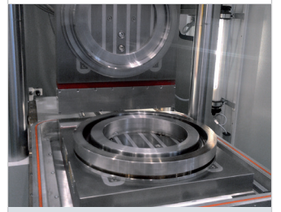
9.1132
Magnetic Clamping Systems
for Sheet Metal Forming
operating temperature
up to 100 °C

R-MAG-P



9.1134
Magnetic Clamping Systems
for Injection Moulding
Machines
operating temperature
up to 150 °C

R-MAG-R



9.1136
Magnetic Clamping Systems
for Rubber Moulding Presses
operating temperature
up to 230 °C

R-MAG-P



9.1138
Magnetic Clamping Systems
for Mould Carriers
operating temperature
up to 100 °C

R-MAG-D



9.1140
Magnetic Clamping Systems
for Die Casting Machines
operating temperature
up to 200 °C

On- and Off-shore Rotor Locks

Rotorlock



wz.roemheld.de/en/rotorlock
Locking cylinder to fix rotors of large off-shore
wind power plants for maintenance work

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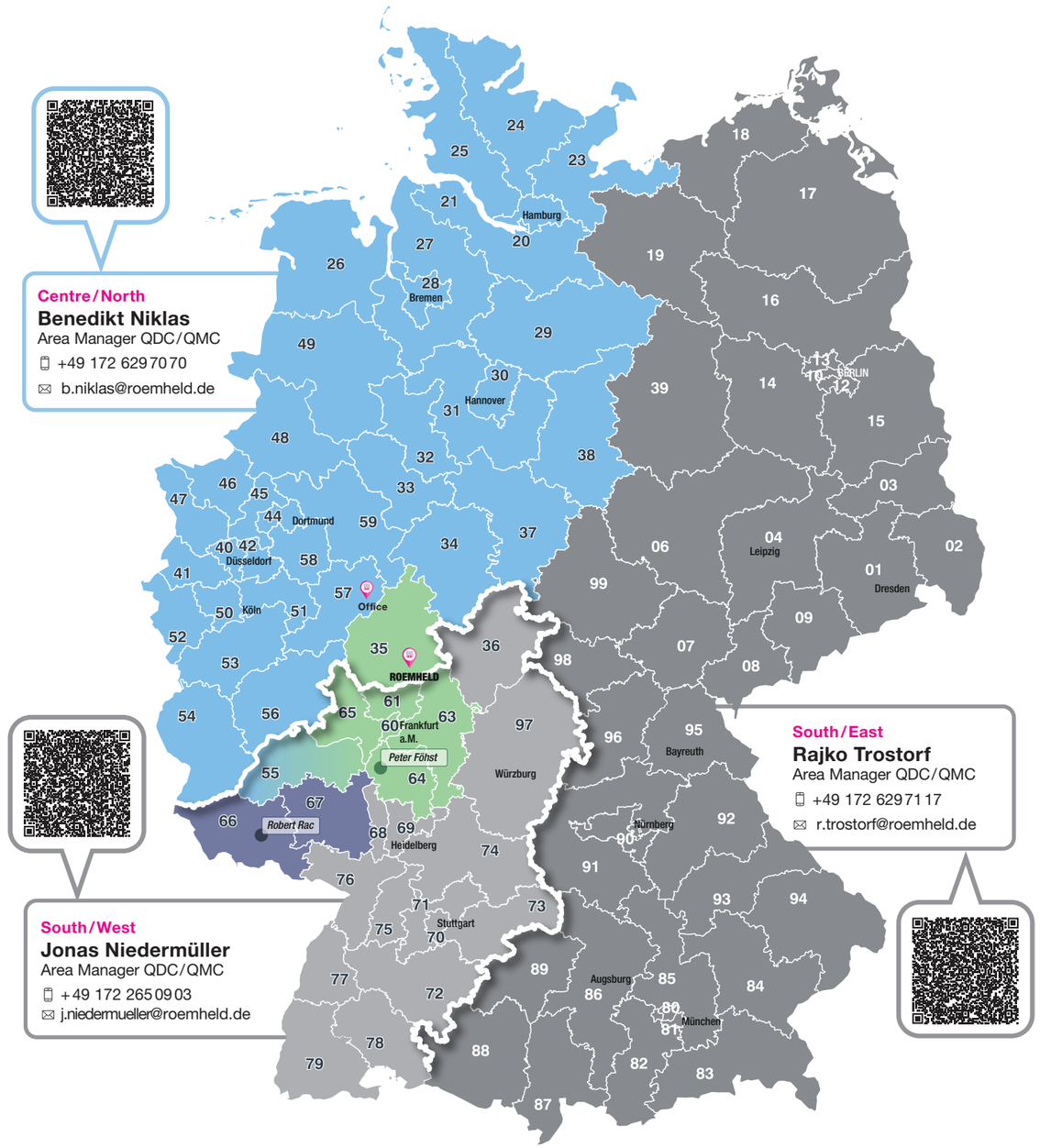
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ROEMHELD

Everything for a quick and safe die change
on presses, machines and plants

from storage, transport and insertion to positioning and clamping of dies

Complete solutions from a single source!

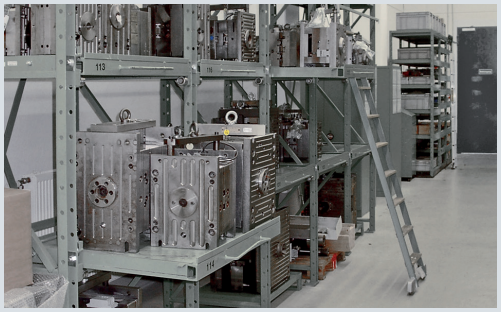
Your advantages

- Quick die change - easy and safe
- Reduction of set-up times
- Possible automation of the die change
- Higher productivity

STORAGE

RACK SYSTEMS FOR DIE STORAGE

Heavy duty shelving with integrated ball and roller bars



TRANSPORT

DIE CHANGING CARTS

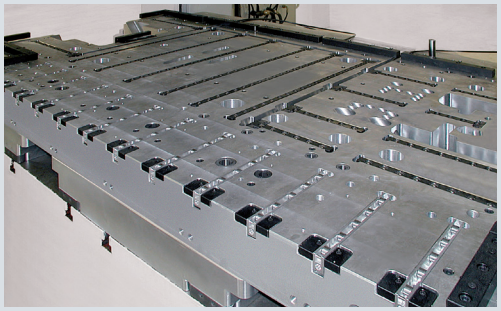
for the safe handling of heavy dies



INSERTION

CARRYING CONSOLES / ROLLER AND BALL BARS

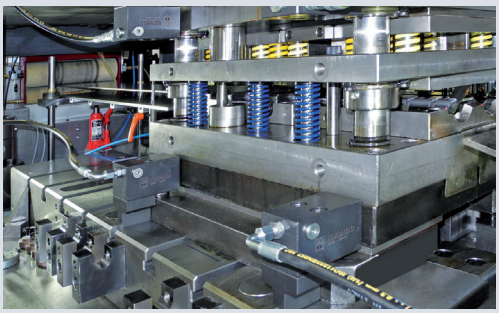
for the movement of dies



POSITIONING AND CLAMPING

DIE CLAMPING SYSTEMS

hydraulic, magnetic, elektro-mechanical or mechanical



Die Clamping and Changing Systems · 11-26 EN Subject to modifications.

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