



**ROEMHELD**  
HILMA ■ STARK

## 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

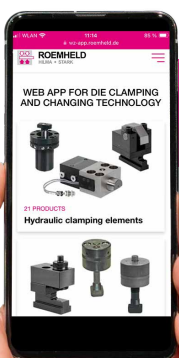
### Rotor Locks

- On- and Off-shore Rotor Locks

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### 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



**2.1330**

**Short-Stroke**  
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



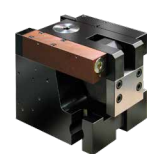
**2.2096**

single acting  
with spring return



**2.2097**

double acting



**2.2480**

double acting

#### Block Clamps

with self-locking mechanical lock

#### Swing and Pivot Cylinders

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



**2.1833**

**Swivel and pull clamps**  
with 90° swivel angle  
and position monitoring



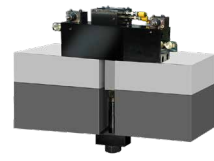
**2.2185**

**Pivot and pull clamps**



**2.2230**

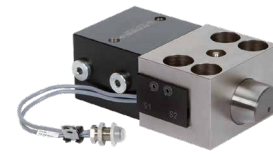
**Swing Sink Clamps**  
for exterior clamping



**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



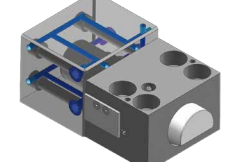
**2.2407**

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



**4.2180**

**Pull-clamping**  
elements



**4.2350**

**Pull Clamps**  
with T-Slot



**4.2351**

**Pull Clamps**  
with T-Slot

## Hydraulic Clamping Elements Hydraulic Power Units Hydraulic Accessories

### Hydraulic Clamping Cylinder for Insertion in T-slots



**3.2202**  
Sliding clamps  
compact



**3.2204**  
Sliding clamps  
classic



**3.2206**  
Angular clamps

### Built-in Pistons



**4.1070**  
with spring return

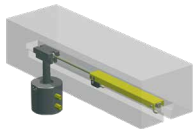
### Rapid Clamping Systems



**3.2260**  
Flexline-R  
sturdy version



**3.2280**  
Flexline  
with push chain



**3.2295**  
with  
pneumatic cylinder



**RHI-WZ003**  
Flexline 14.0  
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



**6.2275**  
Clamping Nuts  
mechanical  
with blind hole thread,  
without clamping force  
display



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

Die Changing Technology

Elements and systems for quick, simple and safe die change

Roller, Ball and Transport Bars

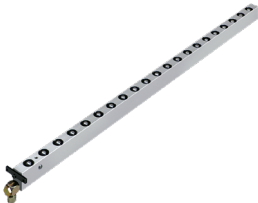
Roller Bars



8.18340

hydraulic  
with lifting of the bar

Ball Bars



8.18341

hydraulic  
with lifting of the individual balls

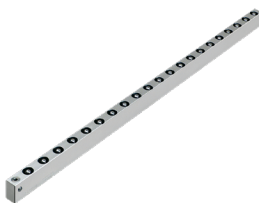
Roller Bars



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

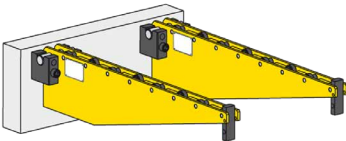


8.18347

mechanical  
without spring pack

Carrying Consoles  
Die Changing Consoles

Carrying Consoles



8.18350

hanging  
load per pair up to 30 kN

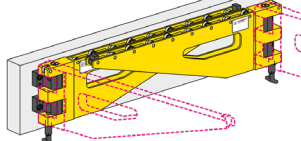
Carrying Consoles



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-pull 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  
with push chain drive  
die weight up to 40 tons



**Die Changing Carts  
Rack Systems for Die Storage**



**Magnetic Clamping Systems  
On- and Off-shore Rotor Locks**

## 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

### RW500 DS/RW850 S/ RW850 elmo



**8.8901A**

**manually movable or fully  
electric lifting and moving**  
with docking bar  
max. load capacity 850 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

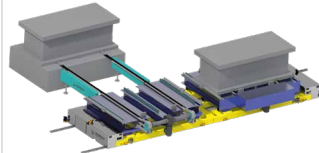
### Die Load Platform RLP



**8.8915**

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

### Die Changing Cart RWS



**8.8920**

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

## Rack Systems for Die Storage

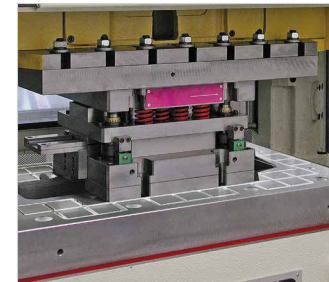
### Rack Systems



**8.8910**

with integrated ball or roller bars

## Magnetic Clamping Technology



**9.1132**

**Magnetic Clamping Systems  
for Sheet Metal Forming  
R-MAG-M**  
operating temperature  
up to 100°C



**9.1134**

**Magnetic Clamping Systems  
for Injection Moulding  
Machines  
R-MAG-P**  
operating temperature  
up to 150°C



**9.1136**

**Magnetic Clamping Systems  
for Rubber Moulding Presses  
R-MAG-R**  
operating temperature  
up to 230°C



**9.1138**

**Magnetic Clamping Systems  
for Mould Carriers  
R-MAG-F**  
operating temperature  
up to 100°C



**9.1140**

**Magnetic Clamping Systems  
for Die Casting Machines  
R-MAG-D**  
operating temperature  
up to 200°C

## On- and Off-shore Rotor Locks

### Rotorlock

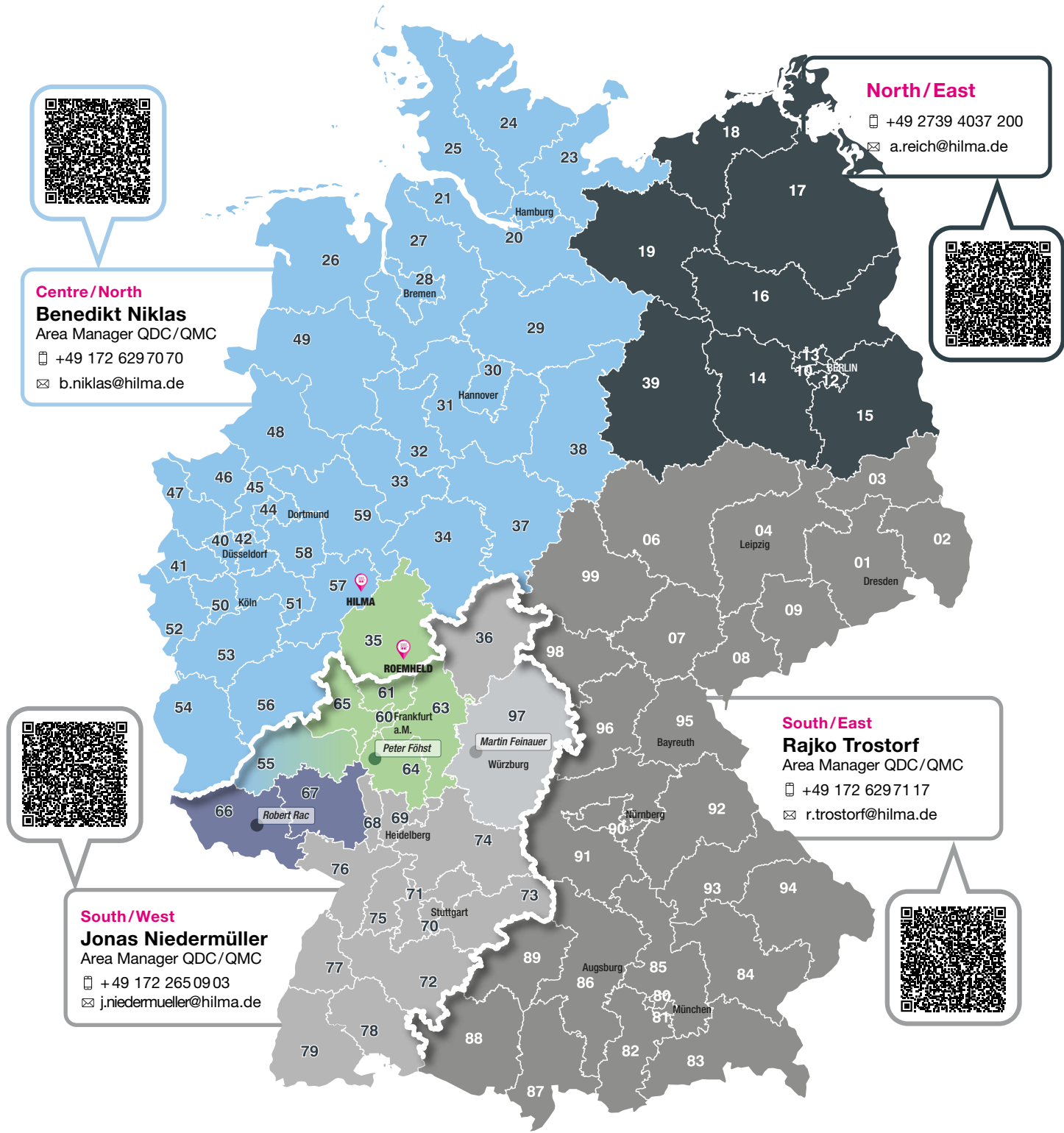


[wz.roemheld.de/en/rotorlock](http://wz.roemheld.de/en/rotorlock)

Locking cylinder to fix rotors of large off-shore  
wind power plants for maintenance work



|                                                                                                                                                                                                            |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                           |                                                                                                                                                                                                            |
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**ROEMHELD**  
HILMA ■ STARK

## 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



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