



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



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



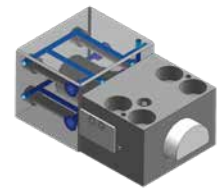
2.2407

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

Pull-clamping Elements

hydraulic pull-type cylinders with tie rod

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 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



6.2275

**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

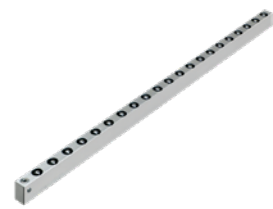


8.18342

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

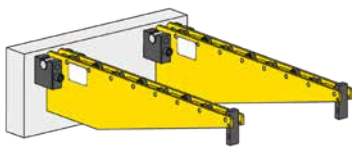
without spring pack



Carrying Consoles Die Changing Consoles

Carrying Consoles

Carrying Consoles



8.18350

hanging

load per pair up to 30 kN

Carrying Consoles

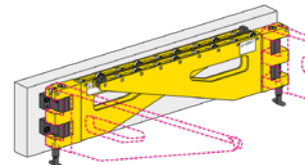


8.18351

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
ewith push chain drive
die weight up to 40 tons



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

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

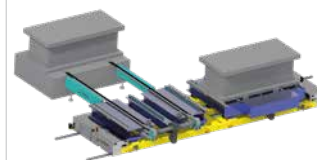
Die Load Platform RLP



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 Systems On- and Off-shore Rotor Locks

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**

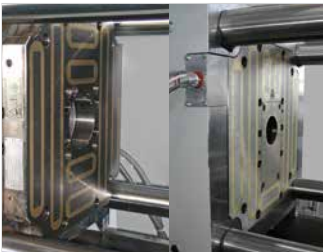
operating temperature
up to 230°C



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

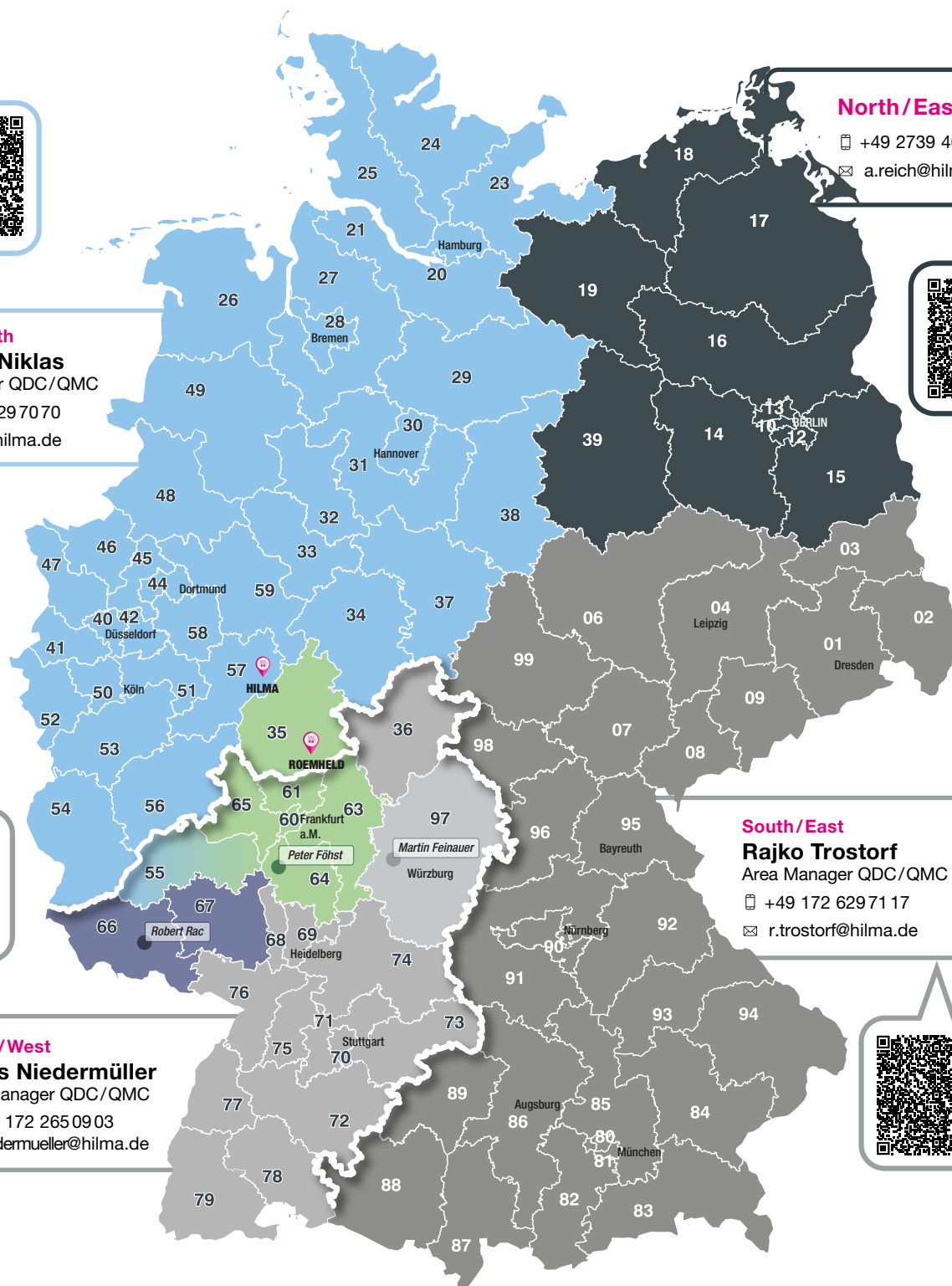


wz.roemheld.de/en/rotorlock

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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