ROEMHELD
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CATALOGUE

R-MAG Magnetic Clamping Systems

For every application a suitable solution:

- Sheet metal forming
- Injection moulding machines
- Rubber molding presses
- Mould carriers and special applications
- Die casting machines

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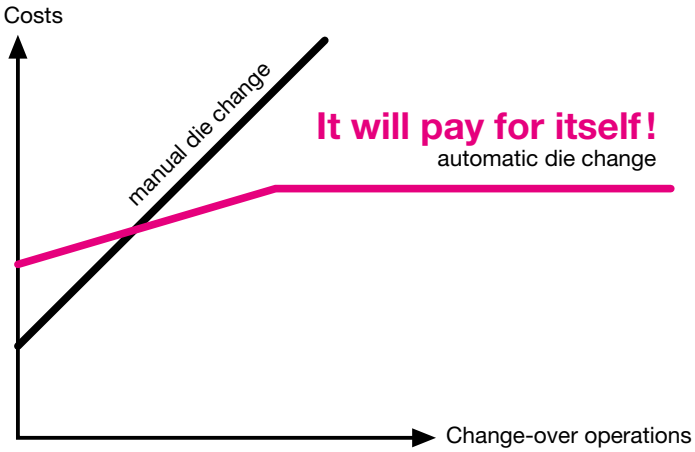
Advantages of Die Clamping Systems

Why die clamping systems?



Innovative technology and many years of experience are the basis for our range of die clamping and changing systems.

Rationalise your operation by using automatic die changing systems.

Increased productivity
- more capacity thanks to reduced set-up times
- less downtime, e.g. due to tool breakage or reworking the die
- short test period

Automation
- power-operated elements
- monitoring elements, in particular for pressure and position
- short cycles thanks to automatic triggering of functions
- integration with process monitoring and control

Increase in quality
- consistent quality
- repeatability of die position
- low-distorsion clamping

Operating facility
- operate under extreme circumstances (high temperature, spray)
- clamping in barely accessible positions without any problems
- clamping using high clamping forces
- dies may be changed by relatively unskilled workers
- repeatable die change process

Efficiency
- short set-up times even for small batches, smaller stock of parts
- simplified die change, also for the machine operator
- fewer jigs and fixtures required
- enhanced tool life as a result of less wear
- reduced run-in period for moulds and dies, i.e. fewer test pieces and less time required

Reduced rate of wear
- uniform and low-distortion clamping with high clamping forces
- compensating clamping force (elasticity)
- repeatable positioning and clamping process
- optimum selection of clamping points

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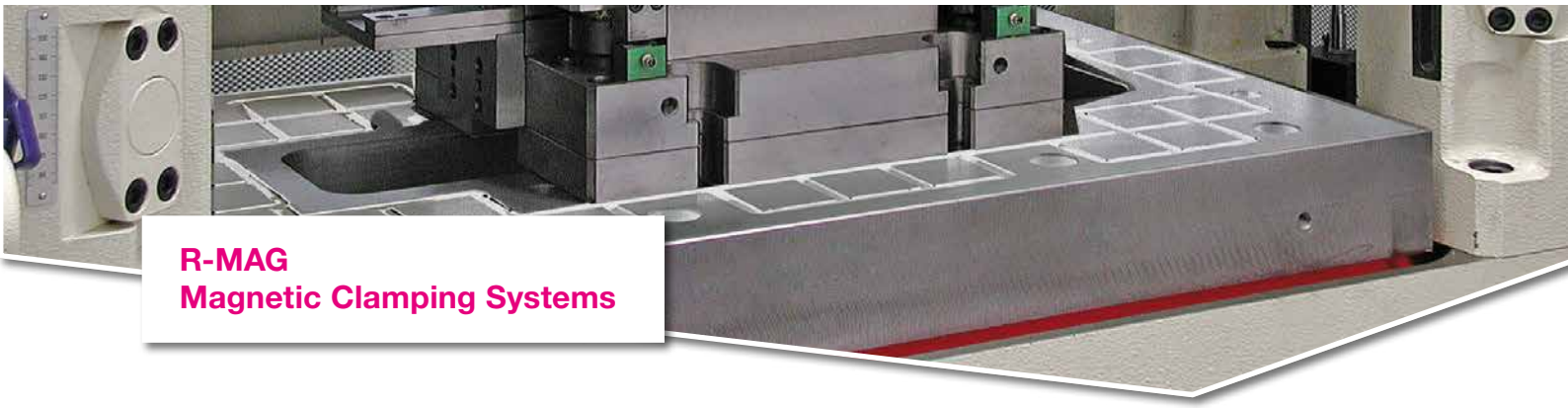


R-MAG
Magnetic Clamping Systems

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 and Special Applications 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

Accessories and Alternative Clamping Technology for R-MAG Magnetic Clamping Systems

R-MAG-M Magnetic Clamping System for Sheet Metal Forming
Operating temperature up to 100 °C

Advantages

- QUICK – Dies are clamped in one second at the touch of a button
- PROFITABLE – Setup cost optimisation from die change that takes only a few minutes
- FLEXIBLE – Die standardization no longer required
- ERGONOMIC – Safe die handling with ease
- RELIABLE – Distortion-free and full-surface retention force even if power fails
- SAFE – Various sensors monitor the entire clamping cycle

OUR HIGHLIGHTS

Long pole technology with:

- Extremely high clamping forces
- Clamping force display
- Interchangeable magnetic poles (without grinding)
- All-metal surface

Application

R-MAG-M magnetic clamping systems are used primarily for the automatic clamping of different dies on sheet metal forming presses and automatic punching machines.

Description

With magnetic clamping systems, the moulds are magnetically clamped or unclamped at the push of a button within a few seconds.
Since permanent magnets generate the force of the magnetic clamping plates, electric clamping is only required to magnetize the plates.
The magnetic clamping plates are de-energized in clamped condition and thus absolutely safe in case of power failure.
Additionally, the complete clamping cycle is monitored by different sensors, thus guaranteeing reliable die clamping.

Scope of system and delivery

R-MAG-M magnetic clamping systems are delivered as complete clamping systems with all required system components. The essential components of a system are:

- two magnetic clamping plates
- electric control in a splash-proof control box
- modern 8" colour touch panel
- required electrical connection cables

Customised versions

All R-MAG magnetic clamping systems are customized and manufactured to meet specific requirements.
For example, the size and pole technology of the magnetic clamping plates are selected according to the application and the machine.
Please contact us.

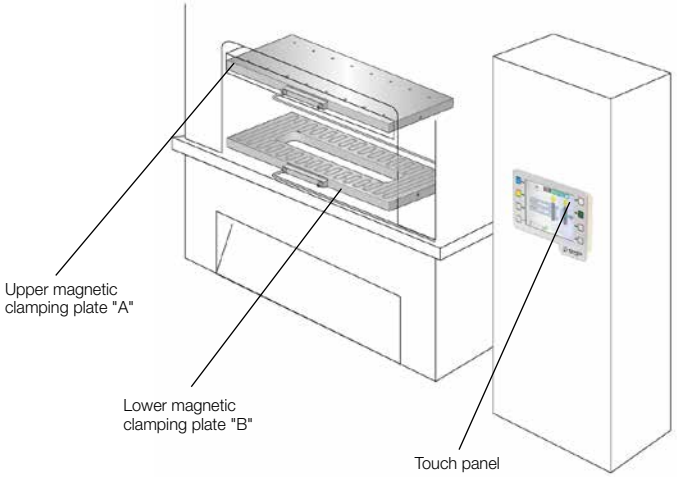
High safety standard thanks to:

- Inductive position monitoring of the die contact (switching distance 0.2 mm, adjustable)
- Redundant system with additional "flux sensor"
- Even the smallest die movements are monitored and reported
- Monitoring of correct magnetisation/power contacts
- Permanent temperature monitoring in the plate (overload protection)
- Standard interface according to EN 201/289 and Euromap

Technical Data

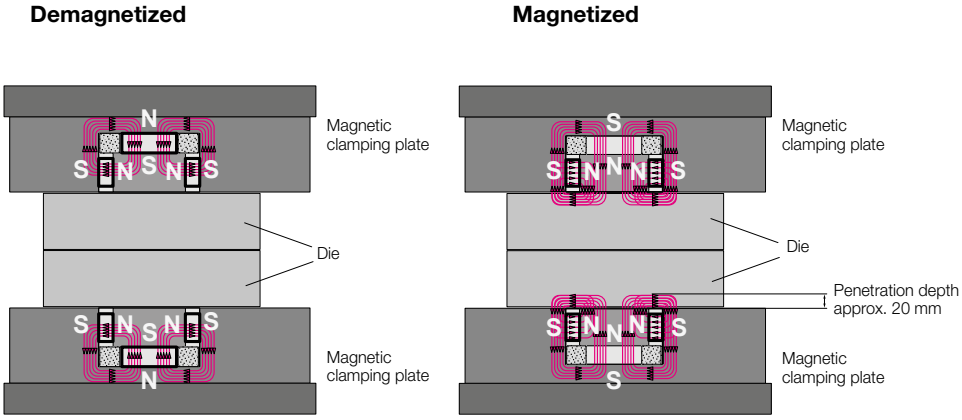
Surface of the magnetic plate			Metallic, smooth and sturdy
Size of the magnetic clamping plates			Customised
Pole technology			Long pole and square pole
Plate thickness			
Long pole ▭		[mm]	55
Square pole □		[mm]	38 or 55
Max. temperature		[°C]	100
Magnetic retention force (per pole)			
Long pole	232 × 68 mm	[kN]	21 (2100 kg)
Square pole	55 × 55 mm	[kN]	2 (200 kg)
Magnetic penetration depth		[mm]	20

Installation on a sheet metal forming press



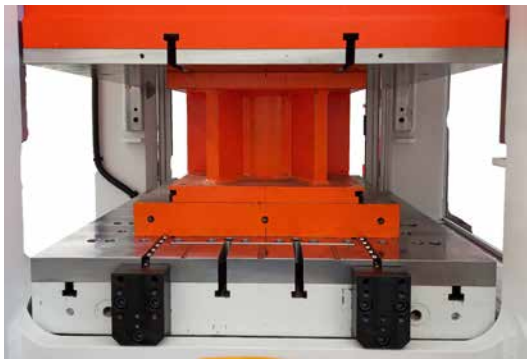
Function of the magnetic clamping plates

The electro-permanent magnetic clamping system is also firmly kept in place if the power fails. Power is only required for approx. 1 to 2 seconds to magnetize the system. After that, the clamping system works independently of any power supply. The magnetic clamping force is exclusively generated by the permanent magnets. Only when the mould is unclamped is electrical energy required again (1–2 seconds) to demagnetize the clamping plate. An existing AlNiCo magnet in the core is re-polarized by a current pulse. This magnet affects the magnetic field and relocates it completely to the interior of the magnetic clamping plate (demagnetized) or approx. 20 mm outside the plate (magnetized).



Available as an option:

- Control of external roller or ball bars
- Log files and all parameters stored on SD card
- Remote access via VPN, Ethernet, CAN-BUS, or RS485 protocol
- Higher operating temperature up to 230 °C
- When using R-MAG long poles:
  - With clamping force display (flux sensors in the plate)
  - Replaceable magnetic poles (without grinding)



R-MAG long pole technology

R-MAG square pole technology

Replacement of long poles

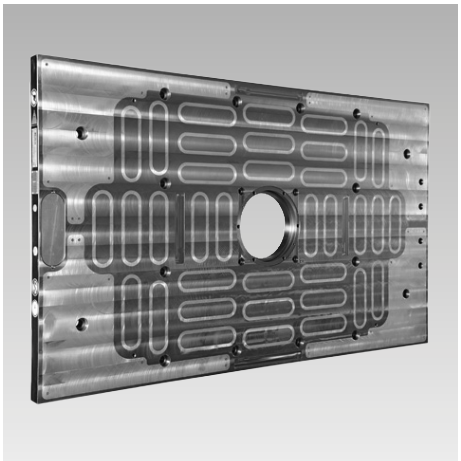
The long poles are pre-assembled and pluggable, allowing for easy replacement of the magnetic poles on site. Römheld offers you the option of replacing a (single) defective magnetic pole on site. This reduces system downtime.

User-friendly R-MAG control and touch panel

The 8-inch touchscreen is easy to read, sturdy and ideally suited for use on machines and systems. The housing has a LAN connection and/or an SD card slot. The display shows the status of the device and the available functions. The current clamping situation is always indicated and changes colour depending on the system status: red for important alarms and messages, orange/yellow for secondary problems, green for validation, and grey for basic functions.
Multiple access levels allow for different permissions for the operator. To ensure safety and traceability of use, a unique operator ID and password are created.
The remote access function uses a VNC protocol. This enables remote diagnosis by our ROEMHELD engineers. Even if the touchscreen is defective, all functions are available on the service screen. This allows for remote troubleshooting or a system reset before on-site repair is necessary. The operator at the machine must confirm these processes. The buttons remain functional even if the touchscreen display is defective.

R-MAG-P Magnetic Clamping System for Injection Moulding Machines

Operating temperature up to 100 °C (150 °C optional)



Advantages

- QUICK – Dies are clamped in one second at the touch of a button
- PROFITABLE – Setup cost optimization from die change that takes only a few minutes
- FLEXIBLE – Die standardization no longer required
- ERGONOMIC – Safe die handling with ease
- RELIABLE – Distortion-free and full-surface retention force even if power fails – with exchangeable poles in long pole technology
- SAFE – Various sensors monitor the entire clamping cycle
  – with clamping force display in long pole technology

OUR HIGHLIGHTS

Long pole technology with:

- Extremely high clamping forces
- Clamping force display
- Interchangeable magnetic poles (without grinding)
- All-metal surface

Application

R-MAG-P magnetic clamping systems are primarily used for automatic clamping of different moulds on plastic injection moulding machines.

Description

With magnetic clamping systems, the moulds are magnetically clamped or unclamped at the push of a button within a few seconds.
Since permanent magnets generate the force of the magnetic clamping plates, electric clamping is only required to magnetize the plates.
The magnetic clamping plates are de-energized in clamped condition and thus absolutely safe in case of power failure.
Additionally, the complete clamping cycle is monitored by different sensors, thus guaranteeing reliable die clamping.

Scope of system and delivery

R-MAG-P magnetic clamping systems are delivered as complete clamping systems with all required system components. The essential components of a system are:

- two magnetic clamping plates
- electric control in a splash-proof control box
- modern 8" colour touch panel
- required electrical connection cables

Customised versions

All R-MAG magnetic clamping systems are customized and manufactured to meet specific requirements.
For example, the size and pole technology of the magnetic clamping plates are selected according to the application and the machine.
Please contact us.

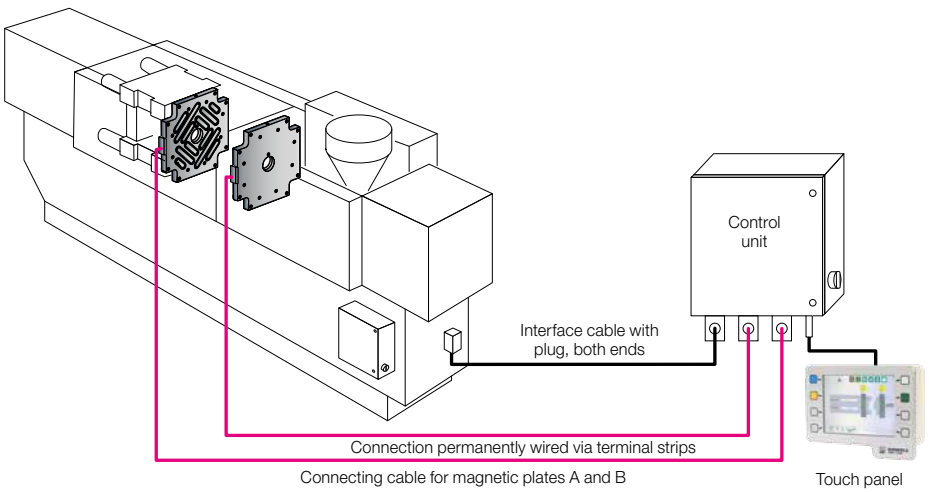
High safety standard thanks to:

- Inductive position monitoring of the die contact (switching distance 0.2 mm, adjustable)
- Redundant system with additional "flux sensor"
- Even the smallest die movements are monitored and reported
- Monitoring of correct magnetisation/power contacts
- Permanent temperature monitoring in the plate (overload protection)
- Standard interface according to EN 201/289 and Euromap

Basic technical data

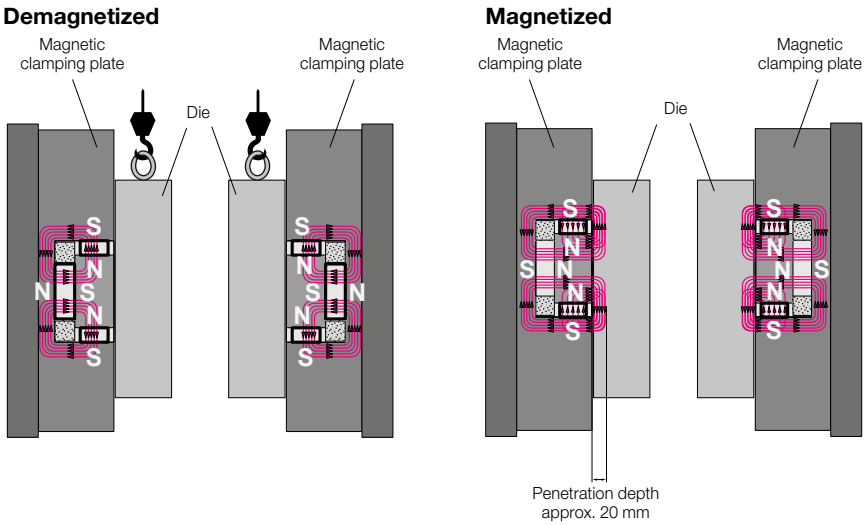
Surface of the magnetic plate			Metallic, smooth and sturdy
Size of the magnetic clamping plates			Customised
Pole technology			Long pole and square pole
Plate thickness			
Long pole ▭		[mm]	55
Square pole □		[mm]	38 or 55
Max. temperature		[°C]	100 (150 optional)
Magnetic retention force (per pole)			
Long pole	232 × 68 mm	[kN]	21 (2100 kg)
Square pole	55 × 55 mm	[kN]	2 (200 kg)
Magnetic penetration depth		[mm]	20

Installation on an injection moulding machine



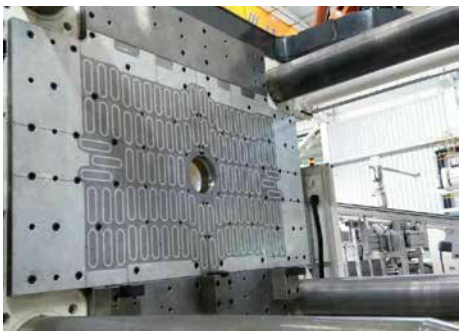
Function of the magnetic clamping plates

The electro-permanent magnetic clamping system is also firmly kept in place if the power fails. Power is only required for approx. 1 to 2 seconds to magnetize the system. After that, the clamping system works independently of any power supply. The magnetic clamping force is exclusively generated by the permanent magnets. Only when the mould is unclamped is electrical energy required again (1–2 seconds) to demagnetize the clamping plate. An existing AlNiCo magnet in the core is re-polarized by a current pulse. This magnet affects the magnetic field and relocates it completely to the interior of the magnetic clamping plate (demagnetized) or approx. 20 mm outside the plate (magnetized).



Available as an option:

- Log files and all parameters stored on SD card
- Remote access via VPN, Ethernet, CAN-BUS, or RS485 protocol
- Higher operating temperature up to 230 °C
- When using R-MAG long poles:
  - With clamping force display (flux sensors in the plate)
  - Replaceable magnetic poles (without grinding)



R-MAG-P, with long poles for injection moulding machines

R-MAG long pole technology

Replacement of long poles

The long poles are pre-assembled and pluggable, allowing for easy replacement of the magnetic poles on site. Römheld offers you the option of replacing a (single) defective magnetic pole on site. This reduces system downtime.

R-MAG-P, with square poles for injection moulding machines up to 300 t

R-MAG square pole technology

User-friendly R-MAG control and touch panel

The 8-inch touchscreen is easy to read, sturdy and ideally suited for use on machines and systems. The housing has a LAN connection and/or an SD card slot. The display shows the status of the device and the available functions. The current clamping situation is always indicated and changes colour depending on the system status: red for important alarms and messages, orange/yellow for secondary problems, green for validation, and grey for basic functions.
Multiple access levels allow for different permissions for the operator. To ensure safety and traceability of use, a unique operator ID and password are created.
The remote access function uses a VNC protocol. This enables remote diagnosis by our ROEMHELD engineers. Even if the touchscreen is defective, all functions are available on the service screen. This allows for remote trouble-shooting or a system reset before on-site repair is necessary. The operator at the machine must confirm these processes. The buttons remain functional even if the touchscreen display is defective.

R-MAG-R Magnetic Clamping System for Rubber Moulding Presses
Operating temperature up to 230 °C

Vertical application

Horizontal application

Advantages
- QUICK – Dies are clamped in one second at the touch of a button
- PROFITABLE – Setup cost optimization from die change that takes only a few minutes
- FLEXIBLE – Die standardization no longer required
- ERGONOMIC – Safe die handling with ease
- RELIABLE – Distortion-free and full-surface retention force even if power fails
- SAFE – Various sensors monitor the entire clamping cycle

Application
R-MAG-P magnetic clamping systems are primarily used for automatic clamping of different dies on rubber presses.

Description
With magnetic clamping systems, the moulds are magnetically clamped or unclamped at the push of a button within a few seconds.
Since permanent magnets generate the force of the magnetic clamping plates, electric clamping is only required to magnetize the plates.
The magnetic clamping plates are de-energized in clamped condition and thus absolutely safe in case of power failure.
Additionally, the complete clamping cycle is monitored by different sensors, thus guaranteeing reliable die clamping.

Scope of system and delivery
R-MAG-R magnetic clamping systems are delivered as complete clamping systems with all required system components. The essential components of a system are:
- two magnetic clamping plates
- electric control in a splash-proof control box
- A manual remote control
- required electrical connection cables

Customised versions
All R-MAG magnetic clamping systems are customized and manufactured to meet specific requirements.
For example, the size and pole arrangement of the magnetic clamping plates are selected according to the application and the machine.
Please contact us.

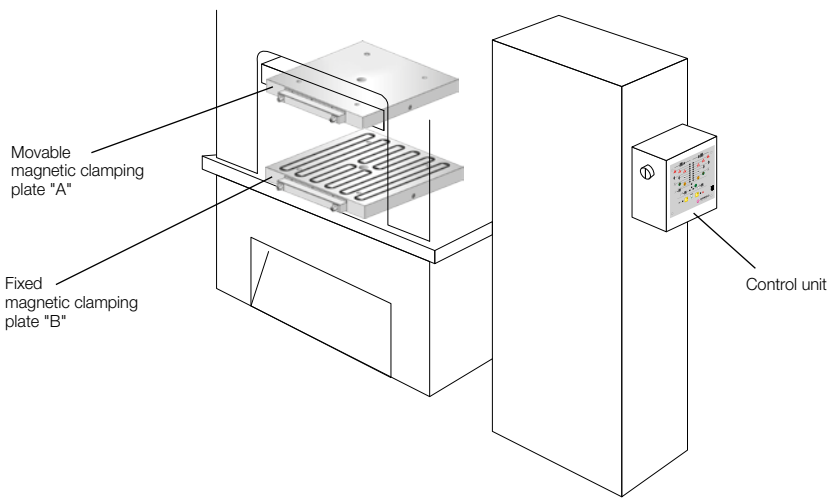
Safety functions
- The inductive limit switch checks for form-fit contact of the die and guarantees clamping without force loss.
- Sensors inside the coils register the slightest die movements due to changes in the magnetic flow between the magnetic clamping plate and die.
- A temperature sensor in the magnetic clamping plate prevents overheating and thus damage to the system.

Technical Data

Size of the magnetic clamping plates		Customised
Pole technology		Long pole
Max. temperature	[°C]	230
Effective magnetic force	[kg/cm^2]	5–12
Magnetic penetration depth	[mm]	20
Plate thickness	[mm]	min. 55

* force directly on the magnet

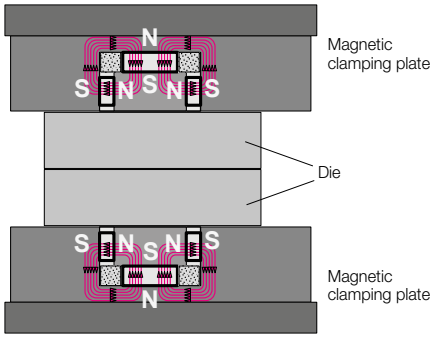
Installation on a rubber press



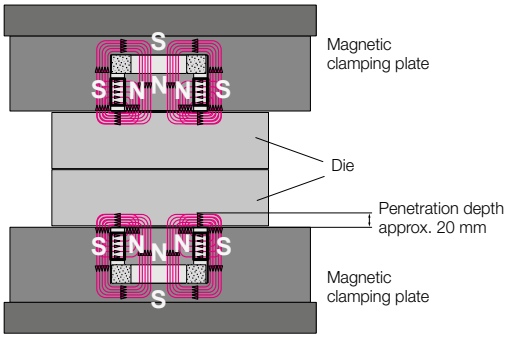
Function of the magnetic clamping plates

The electro-permanent magnetic clamping system is also firmly kept in place if the power fails. Power is only required for approx. 1 to 2 seconds to magnetize the system. After that, the clamping system works independently of any power supply. The magnetic clamping force is exclusively generated by the permanent magnets. Only when the mould is unclamped is electrical energy required again (1–2 seconds) to demagnetize the clamping plate. An existing AlNiCo magnet in the core is reversed in polarity by a current pulse. This magnet affects the magnetic field and relocates it completely to the interior of the magnetic clamping plate (demagnetized) or approx. 20 mm outside the plate (magnetized).

Demagnetized



Magnetized



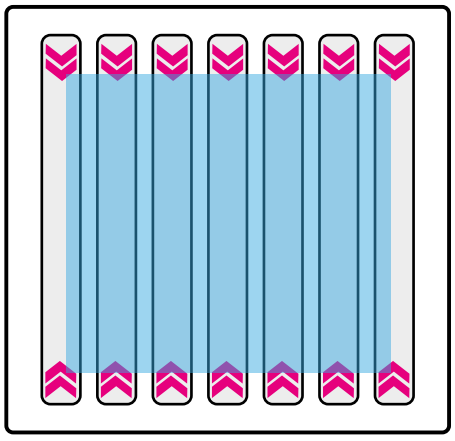
Magnetic clamping plate design

1. The fixing grid is designed to align with the existing bore holes to the greatest extent possible.
2. The mechanical limit switch checks for perfect contact of the die and then releases the magnetization.
3. Optional slots for roller or ball bars (also part of the ROEMHELD Group product range) can be inserted in the lower magnetic clamping plate to simplify die change.

Other safety devices in the plate:

- Sensors inside the coils respond to induction and report the slightest die movements.
- A temperature sensor in the magnetic clamping plate prevents overheating and thus damage to the system.

Power concentration of long pole technology



The magnetic field lines of the partially covered poles act in addition to the completely covered poles on the die and enable safe clamping of the smallest dies.

Electric control

- Highest safety standards as per EN 201 and EN 289
- Control via remote control or machine panel
- Simple error diagnosis via readout
- Easy and safe operation
- IP 54 splash-proof
- Error code indication on the LCD display
- Lacquering in preferred colour
- Integration via EUROMAP interface
- Easy to maintain with exchangeable master module
- Key switch protects from unauthorized operation

R-MAG-F Magnetic Clamping Systems for Mould Carriers and Special Applications

Operating temperature up to 100 °C

Advantages

- QUICK – Dies are clamped in one second at the touch of a button
- PROFITABLE – Setup cost optimization from die change that takes only a few minutes
- FLEXIBLE – Die standardization no longer required
- ERGONOMIC – Safe die handling with ease
- RELIABLE – Distortion-free and full-surface retention force even if power fails – with exchangeable poles in long pole technology
- SAFE – Various sensors monitor the entire clamping cycle with clamping force display in long pole technology

OUR HIGHLIGHTS

Long pole technology with:

- Extremely high clamping forces
- Clamping force display
- Interchangeable magnetic poles (without grinding)
- All-metal surface

Application

R-MAG-F magnetic clamping systems are used primarily for the automatic clamping of different dies in mould carrier presses and in vertical special applications.

Description

With magnetic clamping systems, the moulds are magnetically clamped or unclamped at the push of a button within a few seconds.
Since permanent magnets generate the force of the magnetic clamping plates, electric clamping is only required to magnetize the plates.
The magnetic clamping plates are de-energized in clamped condition and thus absolutely safe in case of power failure.
Additionally, the complete clamping cycle is monitored by different sensors, thus guaranteeing reliable die clamping.

Scope of system and delivery

R-MAG-F magnetic clamping systems are delivered as complete clamping systems with all required system components. The essential components of a system are:

- two magnetic clamping plates
- electric control in a splash-proof control box
- modern 8" colour touch panel
- required electrical connection cables

Customised versions

All R-MAG magnetic clamping systems are customized and manufactured to meet specific requirements.
For example, the size and pole technology of the magnetic clamping plates are selected according to the application and the machine.
Please contact us.

High safety standard thanks to:

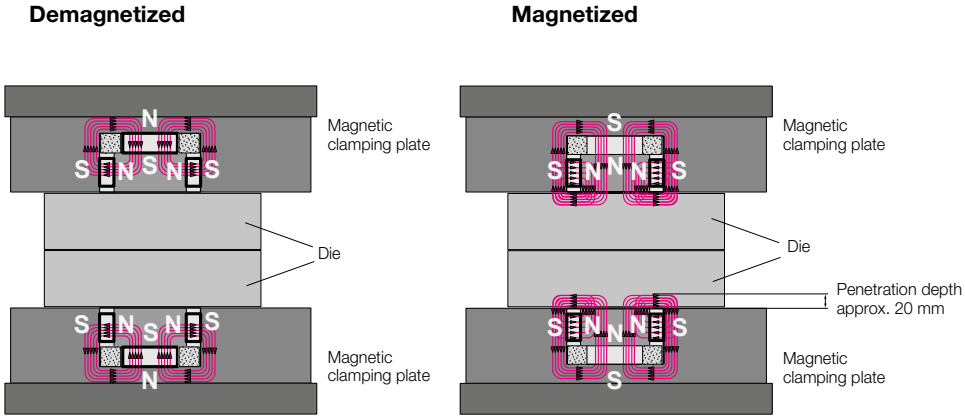
- Inductive position monitoring of the die contact (switching distance 0.2 mm, adjustable)
- Redundant system with additional "flux sensor"
- Even the smallest die movements are monitored and reported
- Monitoring of correct magnetisation/power contacts
- Permanent temperature monitoring in the plate (overload protection)
- Standard interface according to EN 201/289 and Euromap

Technical Data

Surface of the magnetic plate		Metallic, smooth and sturdy
Size of the magnetic clamping plates		Customised
Pole technology		Long pole and square pole
Plate thickness		
Long pole ▭	[mm]	55
Square pole □	[mm]	38 or 55
Max. temperature	[°C]	100
Magnetic retention force (per pole)		
Long pole 232 × 68 mm	[kN]	21 (2100 kg)
Square pole 55 × 55 mm	[kN]	2 (200 kg)
Magnetic penetration depth	[mm]	20

Function of the magnetic clamping plates

The electro-permanent magnetic clamping system is also firmly kept in place if the power fails. Power is only required for approx. 1 to 2 seconds to magnetize the system. After that, the clamping system works independently of any power supply. The magnetic clamping force is exclusively generated by the permanent magnets. Only when the mould is unclamped is electrical energy required again (1–2 seconds) to demagnetize the clamping plate. An existing AlNiCo magnet in the core is re-polarized by a current pulse. This magnet affects the magnetic field and relocates it completely to the interior of the magnetic clamping plate (demagnetized) or approx. 20 mm outside the plate (magnetized).



Available as an option:

- Control of external roller or ball bars
- Log files and all parameters stored on SD card
- Remote access via VPN, Ethernet, CAN-BUS, or RS485 protocol
- Higher operating temperature up to 230 °C
- When using R-MAG long poles:
  - With clamping force display (flux sensors in the plate)
  - Replaceable magnetic poles (without grinding)

R-MAG long pole technology

R-MAG square pole technology

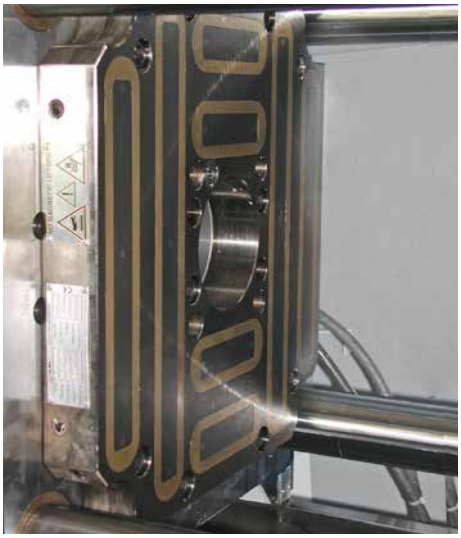
Replacement of long poles

The long poles are pre-assembled and pluggable, allowing for easy replacement of the magnetic poles on site. Römheld offers you the option of replacing a (single) defective magnetic pole on site. This reduces system downtime.

User-friendly R-MAG control and touch panel

The 8-inch touchscreen is easy to read, sturdy and ideally suited for use on machines and systems. The housing has a LAN connection and/or an SD card slot. The display shows the status of the device and the available functions. The current clamping situation is always indicated and changes colour depending on the system status: red for important alarms and messages, orange/yellow for secondary problems, green for validation, and grey for basic functions.
Multiple access levels allow for different permissions for the operator. To ensure safety and traceability of use, a unique operator ID and password are created.
The remote access function uses a VNC protocol. This enables remote diagnosis by our ROEMHELD engineers. Even if the touchscreen is defective, all functions are available on the service screen. This allows for remote troubleshooting or a system reset before onsite repair is necessary. The operator at the machine must confirm these processes. The buttons remain functional even if the touchscreen display is defective.

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


Ejector side


Nozzle side

Advantages
- QUICK – Dies are clamped in one second at the touch of a button
- PROFITABLE – Setup cost optimization from die change that takes only a few minutes
- FLEXIBLE – Die standardization no longer required
- ERGONOMIC – Safe die handling with ease
- RELIABLE – Distortion-free and full-surface retention force even if power fails
- SAFE – Various sensors monitor the entire clamping cycle

Application
R-MAG-D magnetic clamping systems are primarily used for automatic clamping of different dies on rubber presses.

Description
With magnetic clamping systems, the moulds are magnetically clamped or unclamped at the push of a button within a few seconds.
Since permanent magnets generate the force of the magnetic clamping plates, electric clamping is only required to magnetize the plates.
The magnetic clamping plates are de-energized in clamped condition and thus absolutely safe in case of power failure.
Additionally, the complete clamping cycle is monitored by different sensors, thus guaranteeing reliable die clamping.

Scope of system and delivery
R-MAG-D magnetic clamping systems are delivered as complete clamping systems with all required system components. The essential components of a system are:
- two magnetic clamping plates
- electric control in a splash-proof control box
- A manual remote control
- required electrical connection cables

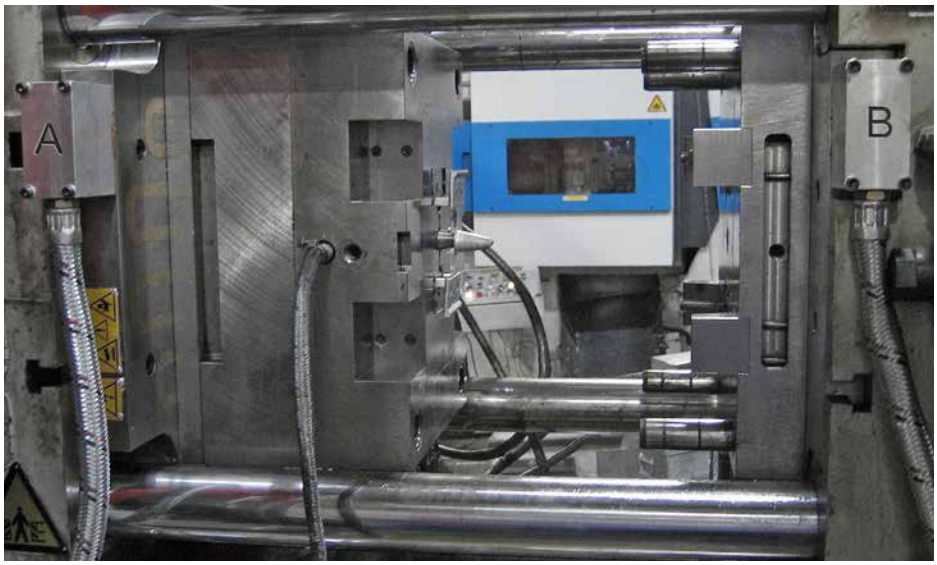
Customised versions
All R-MAG magnetic clamping systems are customized and manufactured to meet specific requirements.
For example, the size and pole arrangement of the magnetic clamping plates are selected according to the application and the machine.
Please contact us.

Safety functions
- The inductive limit switch checks for form-fit contact of the die and guarantees clamping without force loss.
- Sensors inside the coils register the slightest die movements due to changes in the magnetic flow between the magnetic clamping plate and die.
- A temperature sensor in the magnetic clamping plate prevents overheating and thus damage to the system.

Technical Data

Size of the magnetic clamping plates		Customised
Pole technology		Long pole
Max. temperature	[°C]	200
Effective magnetic force	[kg/cm^2]	5–12
Magnetic penetration depth	[mm]	20
Plate thickness	[mm]	min. 55

* force directly on the magnet

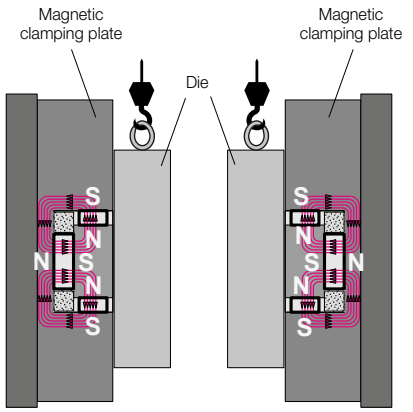


Magnetic clamping system integrated in a die casting machine

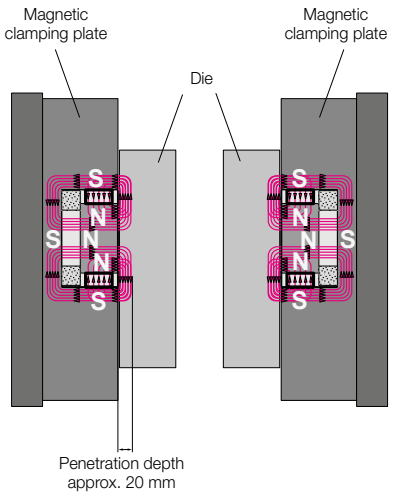
Function of the magnetic clamping plates

The electro-permanent magnetic clamping system is also firmly kept in place if the power fails. Power is only required for approx. 1 to 2 seconds to magnetize the system. After that, the clamping system works independently of any power supply. The magnetic clamping force is exclusively generated by the permanent magnets. Only when the mould is unclamped is electrical energy required again (1–2 seconds) to demagnetize the clamping plate. An existing AlNiCo magnet in the core is re-polarized by a current pulse. This magnet affects the magnetic field and relocates it completely to the interior of the magnetic clamping plate (demagnetized) or approx. 20 mm outside the plate (magnetized).

Demagnetized



Magnetized



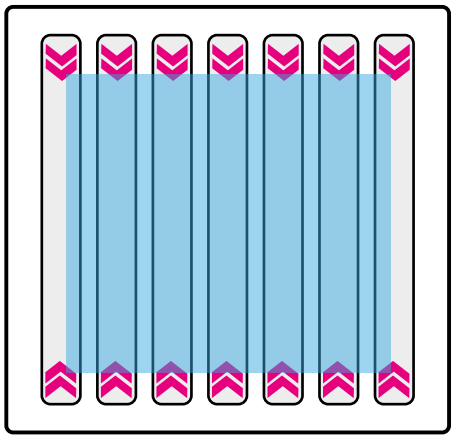
Magnetic clamping plate design

1. The fixing grid is designed to align with the existing bore holes to the greatest extent possible.
2. The mechanical limit switch checks for perfect contact of the die and then releases the magnetization.
3. Optional slots for roller or ball bars (also part of the ROEMHELD Group product range) can be inserted in the lower magnetic clamping plate to simplify die change.

Other safety devices in the plate:

- Sensors inside the coils respond to induction and report the slightest die movements.
- A temperature sensor in the magnetic clamping plate prevents overheating and thus damage to the system.

Power concentration of long pole technology



The magnetic field lines of the partially covered poles act in addition to the completely covered poles on the die and enable safe clamping of the smallest dies.

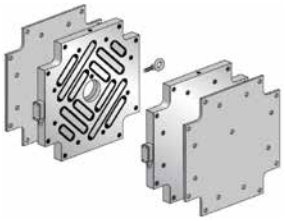
Electric control

- Highest safety standards as per EN 201 and EN 289
- Control via remote control or machine panel
- Simple error diagnosis via readout
- Easy and safe operation
- IP 54 splash-proof
- Error code indication on the LCD display
- Lacquering in preferred colour
- Integration via EUROMAP interface
- Easy to maintain with exchangeable master module
- Key switch protects from unauthorized operation

Insulation plates

The insulation plates are mounted between the machine table and the magnetic clamping plates. They enable uniform heat distribution and prevent heat from passing from the die to the machine.
The insulation plates are available with a thickness of 6 and 10 mm.

Since the magnetic clamping plates are equipped with firmly mounted insulation plates, this investment is not required for all new dies.



Eccentric ring

Too many tool changes can wear the centring on the magnetic clamping plate. An exchangeable centring ring guarantees the precise centring of the dies without exchanging the complete clamping system.

Wedge clamping elements in hydraulic or electric versions

Data sheet WZ 2.2450

Data sheet WZ 2.2451

Data sheet WZ 5.2670

Roller or ball bars

Roller and ball bars in the lower magnetic clamping plate allow easy and trouble-free die change and prevent damages to the surface.

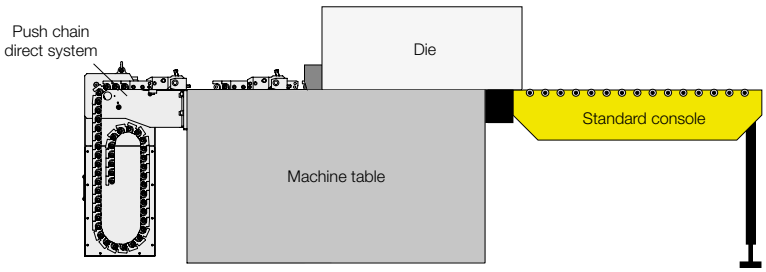
See roller and ball bar configurator:
https://www.roemheld-gruppe.de/productconfigurator/?lang=en

Data sheets WZ 8.18340 – 8.18347

Driven die changing systems

Data sheet WZ 8.18362

Combination of push chain direct system with standard carrying console

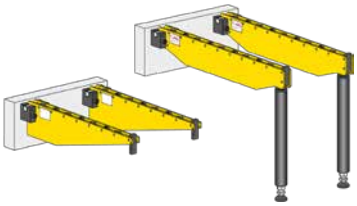


Die changing carts and carrying consoles

Data sheet WZ 8.8900

Data sheet WZ 8.8904

Data sheets WZ 8.18350 – 8.18354



Magnetic clamping systems also available for:

- Sheet metal forming
- Plastics industry
- Rubber moulding presses
- Mould carriers
- Die casting machines

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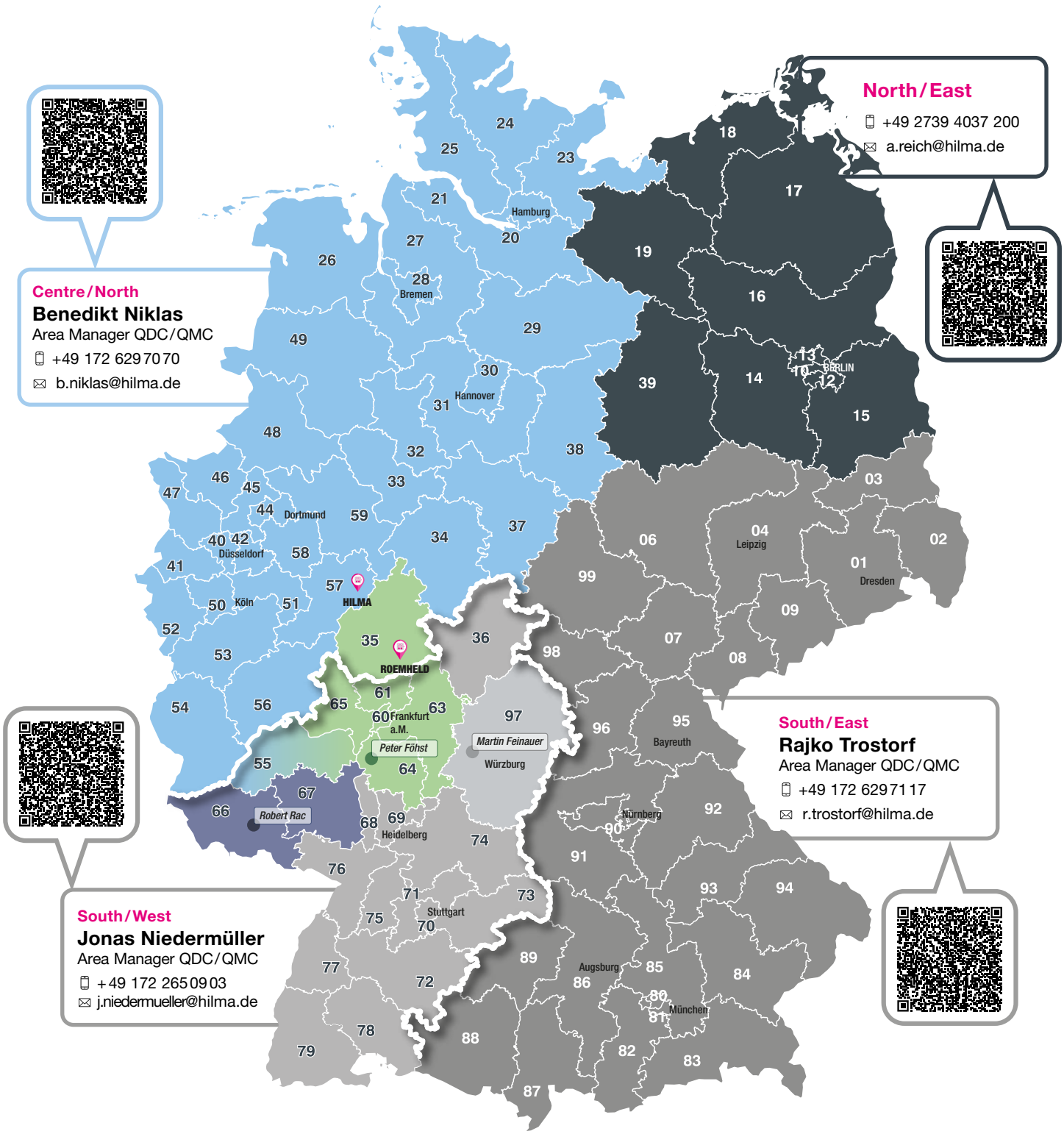

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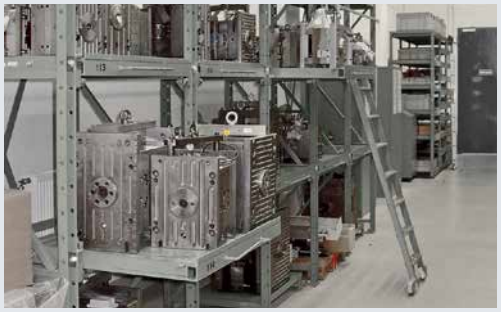

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