Hilma-Roemheld GmbH’s product and service portfolio:

Individual clamping systems and standard devices for cutting and non-cutting production:

- Clamping and changing systems for dies and machines
- Magnetic clamping technology for the plastics and rubber industries, for die casting machines and metal forming
- Worldleading systems, machine vises and standard fixtures
- Bread in-house services and global technical support by local partners
- Advice, project work, fitting, turn-key installation and commissioning of complete hydraulic systems and individual special solutions, training, repair and maintenance by own technicians, on-site repair service, 24-hour spare part service
- Solutions with clamping and positioning systems for production engineering proposed by the Roemheld Group – everything from one single supplier

With our sales and service network as part of the Roemheld Group, we are represented in 39 countries worldwide. Hilma clamping elements are exclusively manufactured in Hilchenbach (Germany). Our high rate of in-house production guarantees our customers maximum quality and reliability.

True to our commitment “Always close to the customer” we have sales offices and distribution partners in:

- Argentina, Australia, Belgium, Brazil, China, Denmark, France, Finland, DK, India, Italy, Iran, Japan, the Netherlands, Norway, Austria, Poland, Portugal, Sweden, Switzerland, Singapore, Slovenia, Spain, South Korea, Taiwan, Ukraine, USA, Canada, Mexico.

Hilma-Roemheld GmbH
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Subject to technical modification

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Modular rotor locks for on- and offshore wind turbines

Cylinders for locking the rotors of large offshore wind turbines to enable maintenance work to be carried out.

The modular rotor locking system includes:

- Locking cylinders with electromechanical or hydraulic locking systems
- Optional lateral locking or adjustable position monitoring
- An innovative and cost-effective modular system

In the course of continuous development, we have adapted our range of locking and wedge clamping elements to meet and exceed the requirements of the manufacturers of offshore wind power stations.

These new products mean that we now offer customers involved with wind power plants a very broad product range. It comprises – amongst other items – elements of mechanical, electromechanical and hydraulic design which are available with optional additional mechanical safety locks to meet increased safety requirements.

Rotor locks made by Hilma distinguish themselves by their compact, low-maintenance design.

All standard modules can be configured to a consistent concept. This enables us to assist expensive special/wakes with long lead times and instead offer swift, cost-effective solutions to meet your needs.

Hilma-Römheld GmbH, with its headquarters in the Siegerland region in Germany, is one of the leading companies for die clamping and changing systems, for workholding, for positioning and locking.

The company which was founded in 1947 has a workforce of 1,050 people. It develops, produces and sells worldwide individually clamping systems and standard devices for the cutting and non-cutting industries. As a member of the Roemheld Group, which has a head count of some 580 people, it is represented in 30 countries worldwide with sales and service agencies.

Based on some 60 years’ experience, Hilma develops and produces clamping and locking elements for almost all areas of industry and for almost all purposes:

- Locking and clamping systems with a clamping force of up to 1,250 kN
- Clamping elements for:
  - Forging application of up to 800 kN
  - Freeway-drying systems for temperatures as low as -70°C
  - Subsea locking systems up to 850 kN
  - Clamping technology for large pressures up to 20,000 kN
  - Transfer lines, clay tile industry, smelting plant and rolling mill construction
  - On- and offshore, …

We accept every challenge and provide locking systems to suit your specific requirements.
Cylinders for locking the rotors of large offshore wind turbines to enable maintenance work to be carried out.

The modular rotor locking system includes:

- Locking cylinders with electromechanical or hydraulic locking systems
- Optional lateral locking or adjustable position monitoring
- An innovative and cost-efficient modular system

In the course of continuous development, we have adapted our range of locking and wedge clamping elements to meet and exceed the requirements of the manufacturers of offshore wind power stations.

These new products mean that we now offer customers interested in wind power plants a very broad product range. It comprises – amongst other items – elements of mechanical, electromechanical and hydraulic design which are available with optional additional mechanical safety locks to meet increased safety requirements.

Rotor locks made by Hilma distinguish themselves by their compact, low-maintenance design. All standard modules can be configured to a consistent concept. This enables us to address bespoke specials with long lead times and instead offer swift, cost-effective solutions to meet your needs.

Hilma-Röhmheld GmbH, with its headquarters in the Siergental region in Germany, is one of the leading companies for die clamping and changing systems, for workholding, for positioning and locking.

The company, which was founded in 1947, has a workforce of 105 people. It develops, produces and sells worldwide individual clamping systems and standard devices for the cutting and non-cutting industries. As a member of the Roemheld Group, which has a head count of some 160 people, it is represented in 30 countries worldwide with sales and service agencies.

Based on some 60 years’ experience, Hilma develops and produces clamping and locking elements for almost all areas of industry and for almost all purposes:

- Locking and clamping systems with a clamping force of up to 1,250 kN
- Clamping elements for:
  - Forging application of up to 300°C
  - Freeway-drying systems for temperatures as low as -70°C
  - Parts of the locking system up to 855 kN
  - Clamping technology for large pressure up to 23,000 kN
  - Transfer lines, clay tile industry, smelting plant and rolling mill construction
  - On- and offshore, …

We accept every challenge and provide locking systems to suit your specific requirements.

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Hilma-Römheld GmbH, with its headquarters in the Sauerland region in Germany, is one of the leading companies for die clamping and changing systems, for workholding, for positioning and locking.

The company which was founded in 1947 has a workforce of some 580 people, it is represented in 30 countries worldwide with sales and service agencies.

Based on some 60 years’ experience, Hilma develops and produces clamping and locking elements for almost all areas of industry and for almost all purposes:

- Locking and clamping systems with a clamping force of up to 125,000 N

Clamping elements for:

- Forging application of up to 300° C
- Freeway drying systems for temperatures as low as -70° C
- Stable locking systems of up to 850 N
- Clamping technology for large pressures up to 25,000 kN
- Transfer lines, clay brick industry,smelting plant and rolling mill construction
- On- and offshore, …

Cylinders for locking the rotors of large offshore wind turbines to enable maintenance work to be carried out.

The modular rotor locking system includes:

- Locking cylinders with electromechanical or hydraulic locking systems
- Optional lateral locking or adjustable position monitoring
- An innovative and cost-effective modular system

In the course of continuous development, we have adapted our range of locking and wedge clamping elements to meet and exceed the requirements of the manufacturers of offshore wind power stations.

These new products mean that we now offer customers in whom with wind power plants a very broad product range. It comprises – amongst other items – elements of mechanical, electromechanical and hydraulic design which are available with optional additional mechanical safety locks to meet increased safety requirements.

Rotor locks made by Hilma distinguish themselves by their compact, low-maintenance design.

All standard modules can be configured to a consistent concept. This enables us to address extensive special needs with long lead times and instead offer swift, cost-effective solutions to meet your needs.

Electromechanical design

A stable housing and provided with surface protection for use in on- and offshore areas.

Hydraulic design with housing

The double-acting hydraulic cylinder generates the extending and retracting movement of the bolt and retains it in the locking position. Suitable for installation into the existing mounting hole.

Hydraulic design without housing

The double-acting hydraulic cylinder generates the extending and retracting movement of the bolt and retains it in the locking position. Suitable for installation into the existing mounting hole.

Hydraulic design with position monitoring

The double-acting hydraulic cylinder generates the extending and retracting movement of the bolt and retains it in the locking position. Position monitoring is installed in the flange-mounted housing. The guided hydraulic cylinder is installed in a stable housing and provided with surface protection for use in on- and offshore areas.

In order to achieve maximum safety, an additional mechanical lock can be additionally fixed to the housing.

Applications:

- For on- and offshore wind turbines 1 – 6 MW
- For safe checking and for plant maintenance work

Rotor lock hydraulic or electromechanical

Application:

- For on- and offshore wind turbines 1 – 6 MW
- For safe checking and for plant maintenance work

Hydraulic design with housing

The double-acting hydraulic cylinder generates the extending and retracting movement of the bolt and retains it in the locking position. The guided hydraulic cylinder is installed in a stable housing and provided with surface protection for use in on- and offshore areas.

Position monitoring for the locking and unlocking position is integrated into the housing.

Hydraulic design without housing

The double-acting hydraulic cylinder generates the extending and retracting movement of the bolt and retains it in the locking position. Suitable for installation into the existing mounting hole.

Hydraulic design with position monitoring

The double-acting hydraulic cylinder generates the extending and retracting movement of the bolt and retains it in the locking position. Position monitoring is installed in the flange-mounted housing. The guided hydraulic cylinder is installed in a stable housing and provided with surface protection for use in on- and offshore areas.

Electromechanical design

The fixed motion of the lock is driven by an electromotor. The clamping and unlocking positions are inductively monitored.

Due to the design and the drive, the locking position is self-holding. The locking element is ideally suited for on- and offshore applications.

Special features:

- In standard or offshore design
- Hydraulic operation of the bolt “rotor locked/rotor unlocked”
- Position monitoring
- Compact and maintenance-free design
- Non-return valves as an option
- Additional mechanical lock as an option
- For offshore plants with surface protection. as per DIN ISO 12944, C4
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Roter locks

- Hydraulic
- Electromechanical
- Modular design
  ... all from one single supplier
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Hilma-Roemheld production plant with an extensive vertical range of manufacture and expertise.

**Modular rotor lock for on- and offshore wind turbines**

**Partners with expertise:**

- **ROEMHELD**
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  - E-Mail: info@roemheld.de

- **STARK**
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  - E-Mail: verkauf@starkt.de

- **FTW**
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  - Phone: +49 (0) 34 43 / 6 90-0, Fax: +49 (0) 34 43 / 6 90-12
  - E-Mail: kontakt@ftw.info

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**Rotor locks**

- Hydraulic
- Electromechanical
- Modular design

... all from one single supplier