



**ROEMHELD**  
HILMA ■ STARK

**Contact person:**

Andreas Reich  
Hilma-Römheld GmbH  
Head of Quick Die Clamping Systems  
Phone: +49 2739 4037 162  
E-mail: [a.reich@hilma.de](mailto:a.reich@hilma.de)

F. Stephan Auch  
auchkomm Unternehmenskommunikation  
Phone: +49 911 27 47 100  
E-mail: [fsa@auchkomm.de](mailto:fsa@auchkomm.de)

Römheld GmbH  
Friedrichshütte  
Römheldstrasse 1-5  
35321 Laubach  
Germany  
Phone: +49 (0) 6405 / 89-0  
Fax: +49 (0) 6405 / 89-211  
E-mail: [info@roemheld.de](mailto:info@roemheld.de)  
[www.roemheld.de](http://www.roemheld.de)

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- **ROEMHELD: Sturdy rapid clamping system Flexline R for the highest loads on press dies**
- **Flexibly configurable system for short set-up times**

*Laubach, April 29, 2025.* With the new rapid clamping system Flexline R ROEMHELD expands its product portfolio with a particularly sturdy solution for the automatic clamping of dies of different sizes on the press ram. Clamping takes place via hollow piston cylinders.

The new product is based on the Flexline system, which has been successful for many years. It has been further developed specifically for higher loads and demanding operating conditions. It is equipped with a stainless steel pull-push chain, reinforced stops, additional query options and improved emergency operation. It is available in numerous variants that can be configured to suit individual customer requirements.

Flexline R is suitable for all applications with frequent die changes, especially for use in automated press lines.

**Higher load capacity, reliable sensor technology and improved emergency operation**

At the heart of the new design is a welded stainless steel pull-push chain. It replaces the previous version made of plastic and ensures maximum stability and durability even under harsh conditions. The chain case, all brackets and the sheet metal parts are also made of reinforced stainless steel and are designed for robust application scenarios.

The new system also offers improved position monitoring: a high-precision magnetic field sensor detects the parking position, while the inductive sensor reports the position of the clamping element on the die. Optionally, the end position of the chain can also be queried using a sensor system integrated in the chain case.

Reinforced brackets for position monitoring are also new - for maximum operational safety. An emergency release on the drive motor provides additional safety in the event of an accident. If necessary, the die can be released manually.



## **Flexibly configurable**

Flexline R is available with two adjustment tracks - 660 and 1100 millimetres - and can be combined with four different clamping elements. Depending on requirements, single or double-acting hollow piston cylinders with up to 104 kW clamping force and operating pressures of 245 or 400 bar are available. The motor can be mounted on the left or right. The clamping positions are also freely selectable.

## **Low installation height, easy maintenance**

Thanks to its compact design, low weight and the use of low-maintenance modules, Flexline R is configured to meet the demanding requirements of modern press lines. The modules are easy to replace, which simplifies servicing and reduces downtimes. The electrical interface is via Harting connectors with IP65 protection. An individual colour and brand design is available as an option.

## **Simple operation**

With Flexline R, the electro-mechanical driven push chain automatically moves the hollow piston cylinder attached to the system from the park position to the die edge and back again. At the same time, it serves as a hydraulic and electric line to the clamping element. This eliminates the need for a separate energy supply system. It is guided in the T-slot of the machine and is compatible with sizes of 28 and 36 mm as well as 1 1/16".

## **About ROEMHELD:**

Whether aircraft, automobiles, machine tools or housings for smartphones: ROEMHELD technologies and products have been used in the manufacture of numerous industrial goods and products for end consumers for over 80 years.

Innovative and smart clamping technology solutions for workpieces and dies in forming technology and plastics processing form the core of the continuously growing portfolio. It is supplemented by components and systems for assembly and handling technology, drive technology and automation as well as locking systems for wind turbine rotors.

In addition to a constantly growing range of more than 25,000 catalog items, ROEMHELD specializes in the development and manufacture of customer-specific solutions and is regarded internationally as one of the market and quality leaders.



Innovation through tradition: ROEMHELD has its origins in the Friedrichshütte foundry founded in 1707, which still belongs to the ROEMHELD Group today and is one of the oldest active industrial companies in Germany.

The owner-managed group of companies employs around 500 people at its three sites in Laubach, Wilnsdorf and Rankweil/Austria and is represented by service and sales companies in over 50 countries. With customers primarily from the mechanical engineering, automotive, aviation and agricultural industries, ROEMHELD achieves an annual turnover of more than 90 million euros.

**Photo:**



The new robust quick clamping system with Flexline R push chain for the automatic clamping of dies of different sizes on the press ram (Photo: ROEMHELD).



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auchkomm Unternehmenskommunikation, F. Stephan Auch, Hochstraße 11, D-90429 Nuremberg, [fsa@auchkomm.de](mailto:fsa@auchkomm.de), [www.auchkomm.de](http://www.auchkomm.de)