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Press Release 3/2019

* **ROEMHELD: Self-locking wedge clamping element with spring force**
* **Application possible without permanent hydraulic supply**

*Hilchenbach, 26 March 2019*. A model for safe and self-locking long-term clamping of dies with straight clamping edge completes the ROEMHELD Group's series of new wedge clamps. The element for the clamping of dies on presses and injection moulding machines does not require a permanent hydraulic supply. Spring force is applied for fixing and only a pressure of up to 160 bar is required for release. The machine hydraulics can therefore be used in this regard.

A high degree of operating safety is guaranteed by way of an inductive and additional optical position control and the special design of the clamping device: The clamping bolt is inclined 6° and executes an idle stroke and clamping stroke simultaneously with the fixing action, whereby it is lowered down onto the clamping edge in an axial direction. A self-locking connection is resulted from the angle, the application of spring force and the effectuated frictional connection, and this can be maintained over lengthy periods of time.

As the compact and robust wedge clamps can easily withstand environmental influences such as heat and dirt, they are characterised by their high functional safety, even in the most challenging production processes. Temperatures of up to 160 °C are possible at the clamping point, and the housing is coated with a rust protection.

**Variant system allows individual customer adaptations**

The wedge clamps are constructed as a variant system and can be adapted for numerous applications. Even in the standard range, four possible hydraulic connections provide flexibility for assembly, the dimensions of the clamping element comply with the Euromap Directives. The tolerance for the clamping edge height is ± 0.5 mm and deviations can be compensated with spacer plates. The operating force is 25 to 120 kN, depending on the respective design size, and the cylinder diameters are between 35 and 85 mm. Additional versions are available for angled clamping edges, with permanent lubrication or multi-layer coating to improve wear properties.

**ROEMHELD: Setup time optimiser for sheet forming, plastic and rubber processing**

With its extensive range of quick die clamping technology, the setup time optimiser ROEMHELD can complete virtually any clamping technology task in sheet forming, plastic and rubber processing. The magnetic, hydraulic and electromechanical clamping systems are versatile in use and help to make the processes of single and series production in virtually every industry more efficient and economical. Products for changing dies, including die changing carts, roller bars and powered carrying consoles complete the range.

**About ROEMHELD:**

Whether for aircraft, automobiles, machine tools or cases for smartphones: technologies and products of the ROEMHELD Group have been used to manufacture numerous industrial commodities and goods for end users for more than 60 years.

Efficient clamping technology solutions for workpieces, as well as for dies in forming technology and plastics processing, form the core of our ever-increasing portfolio. This is supplemented with components and systems for assembly and handling technology, drive technology and locking mechanisms for rotors on wind energy systems.

As well as a wide range of approximately 20,000 catalogue items, the ROEMHELD Group is also specialised in the development and realisation of customised solutions and is internationally respected as one of the market leaders for quality today.

Innovation through tradition: ROEMHELD was established in 1707 with a foundry in Friedrichshütte, which still belongs to the ROEMHELD Group today and counts as one of the oldest active industrial businesses in Germany.

The owner-managed group of companies employs approximately 560 workers in its three locations of Laubach, Hilchenbach and Rankweil/Austria, and is represented in over 50 countries by service and sales organisations. With customers from the mechanical engineering sector, as well as the automobile, aviation and agricultural industries, the ROEMHELD Group generates an annual turnover of more than 100 million Euro.

**Photos:**



Photo 1:

The new wedge clamp for the clamping of dies on presses and injection moulding machines does not require a permanent hydraulic supply (photo: ROEMHELD).



Photo 2:

An inductive and an optical position control contribute towards a high degree of operational safety (photo: ROEMHELD).

**The JPG images in print resolution and the text of the press release as a Word document with captions can be downloaded from the page**

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