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Press Release 6/2016

* **ROEMHELD: New programmable, electro-mechanical wedge clamps for sliding tables, injection moulding machines and presses**
* **Hydraulic-free solution for automatic clamping even in cleanroom conditions**

*Hilchenbach, July 11, 2016*. Clamping systems without hydraulic support are called for when operations on sliding tables, injection moulding machines and bed and ram of forming presses require the oil-free clamping of dies. For such applications, ROEMHELD has developed new electro-mechanical wedge clamps that are characterised by their great flexibility, high clamping force and programmable drives. They are suitable for versatile application in all situations in which hydraulic oil is not desired: for example in purely electrical machines, in the food industry and in cleanrooms. The fact that all functions are electrically monitored means the new components can also be integrated optimally into automated systems.

As with their hydraulically driven counterpart, the electro-mechanical wedge clamps are also dual-action and made up of a guide housing and clamping bolt. For the 24-Volt variant, the retention forces have been increased significantly: up to 240 kN is possible with current consumption of just 3.8 A. This makes the clamping elements particularly suited to systems in which dies and moulds have to be secured in tight spaces with high clamping forces.

**Freely programmable stroke and clamping speed**

Thanks to the programmable standard drives, the clamping and release position of the bolt can be freely programmed up to a maximum stroke value of 25 mm. The speed of the clamping bolt can also be selected. The self-locking mechanism of the wedge clamp ensures that the die is held securely even in the event of a power failure. The drive programming, including the previously entered values, is also retained in the event of a power failure.

Installation is simple thanks to the basic interface with plug-in connection of the motor and control cables. The delivery scope also includes a control module which enables the connection to an external PLC controller.

**Electric monitoring for increased safety**

In addition to the self-locking characteristics, a high degree of operating safety is also provided by the electric monitoring of the clamping force and bolt position. The position monitoring components are integrated in the drive in order to save space and serve to indicate whether the bolt is in the off-position or extended. Data collection in conjunction with the programmable drive enables fully automatic operation and makes the wedge clamp a perfect Industry 4.0 element.

**High flexibility for versatile applications**

Numerous standard versions and equipment options allow the wedge clamp to be used in a variety of applications. For example, the clamping element is suitable for dies with varying clamping edge heights and mounting dimensions in accordance with the Euromap standard or individual specifications.

**ROEMHELD app on die clamping and changing**

The ROEMHELD app for tablets provides comprehensive and descriptive information about products and solutions for die clamping and changing systems in sheet metal forming. It contains the entire product catalogue with over 1500 articles and variants, features many product videos, some animated 3D illustrations, application pictures and technical data sheets, showing a variety of application areas on presses and die-cutters**.** The app can be found at <http://www.roemheld-gruppe.de/app>.

**About ROEMHELD:**

With their die clamping and changing technology, ROEMHELD consider themselves as an expert for the optimisation of set-up times. The product range offers a very wide selection of hydraulic, mechanical, electro-mechanical and magnetic clamping elements and rapid clamping systems for virtually any clamping task. The extensive selection of products for die changing such as media couplings, roller conveyors, carrying consoles and transport carts completes the range.   
ROEMHELD is a global market and quality leader in efficient solutions for industrial production, assembly, clamping and drive technology. The company is represented in more than 50 countries worldwide with service and sales companies and supplies in particular the international mechanical engineering, automotive, aerospace and agricultural industry as well as the field of medical technology. At the three locations in Laubach, Hilchenbach and Götzis, Autria, the 500 employees achieved sales of around 98 million Euro in 2015.

**Picture:**



The new programmable, electro-mechanical wedge clamps for oil-free clamping of dies (picture: ROEMHELD).

**You can also download the press text as a Word document and the images in print quality here:** [**http://www.auchkomm.com/aktuellepressetexte**](http://www.auchkomm.com/aktuellepressetexte) **.**

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