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Press Release 11/2016

* **ROEMHELD at the K trade fair: magnetic clamping systems meet the highest safety requirements**
* **Electro-mechanical wedge clamps and safety transport cart with load capacity up to 1,600 kg**

*Hilchenbach, August 17th, 2016*. At the K trade fair, ROEMHELD will be presenting magnetic clamping systems which meet the highest safety requirements, new electro-mechanical wedge clamps and a powerful safety transport cart now with a maximum load capacity of 1,600 kg. The experts for the optimisation of set-up times will be focusing on the magnetic clamping system of the M-TECS series, which now features a new controller for optimised safety. At their exhibition stand F64 in hall 11, they will also be providing an overview of the entire range of die-clamping and changing products, with the emphasis on hydraulically driven components which can be easily retrofitted.

**Magnetic clamping systems with new controller for all dies and moulds**

The ROEMHELD magnetic clamping plates of the M-TECS series with new controller conform to the highest safety requirements of the press standards EN 201 and EN 289 for injection moulding machines and rubber presses. They fulfil all specifications relating to the relevant signals such as die monitoring, power supply, magnetisation and emergency stop on the performance levels “d” and “e”. All safety signals and error messages are displayed on the control panel, and on request these can also be transmitted via RS or Profibus interfaces to the press controller.

The rapid clamping systems enable moulds and dies of all sizes, geometries and weights to be positioned and clamped in a very short space of time. Different versions are available for various operating temperatures – up to 240° C for use in the plastics and duroplastics industry. All magnetic clamping plates can be supplied optionally with or without integrated heater and are manufactured in customer-specific sizes and geometries.

The rapid clamping systems can also be easily retrofitted on existing rubber forming presses, horizontally and vertically driven injection moulding machines, mould carrier systems and transfer moulding presses. A special feature of ROEMHELD magnetic clamping plates is the combined use of long and square poles, which makes use of the high force concentration of the long poles as well as the cost-effective design of the square poles.

The permanent magnets are independent from the power source, which means that the required force is supplied constantly in order to ensure reliable clamping of the die-halves, which can weigh several tonnes, without deformation, in the exact position and in a parallel state. The high precision in production also serves to reduce wear of the dies. As the magnetic field only penetrates the die by a few millimetres, it has no influence on the production.

**New electro-mechanical wedge clamps: powerhouse for oil-free, automated operation**

The new electro-mechanical wedge clamp is specially designed for oil-free and automated operations on large injection moulding machines and is characterised by great flexibility, high clamping force and programmable drives. It is made up of an electro-mechanical drive and a clamping bolt with guide housing. Because the clamping element is oil-free, it is particularly suited to operations on injection moulding machines, sliding tables, electrical servo presses or in cleanrooms. For the new 24-volt variant, the clamping forces have been increased significantly: up to 240 kN is possible with current consumption of just 3.8 A. This ensures that even in in tight spaces, dies are secured with high clamping forces. Both the clamping and release position of the clamping bolt can be programmed as required up to a maximum stroke value of 25 mm. The speed of the clamping bolt can also be selected. The fact that the position and clamping force are electrically monitored means the new components can also be integrated optimally into automated systems.

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.

**Die transport cart with safety function now with load capacity up to 1,600 kg**

ROEMHELD will also be presenting an innovation from their products for quick and safe die changing, such as media couplings, roller conveyors and ball bars as well as carrying consoles. The load capacity of the die transport cart has now been increased from 500 kg to 1,600 kg. An integrated and rapid-charging battery supplies sufficient power for several hours of driving operation. The transport cart features a special safety mechanism to ensure that heavy dies and moulds can be transported safely without slipping. The cart can only be moved once the hydraulic ball bars in the changing table have been lowered. Once the loaded cart has uncoupled, the hydraulic balls are lowered so that the die is seated firmly, and drive operation of the cart is then enabled again.

**ROEMHELD: optimising set-up times in plastics processing**

With their die-clamping and changing technology, ROEMHELD consider themselves as an expert for the optimisation of set-up times. For plastics processing, the product division offers a very wide selection of magnetic clamping systems, hydraulic rapid clamping systems as well as electro-mechanical and mechanical clamping systems. The extensive selection of products for die changing such as media couplings, roller conveyors, carrying consoles and transport carts completes the range.

Furthermore, ROEMHELD is a global market and quality leader in efficient solutions for industrial production, assembly, clamping and drive technology. Elements for the production, testing and maintenance of large-scale components for wind power plants, components for the automation of set-ups and machine communication within Industry 4.0 complement the portfolio. The comprehensive product range of more than 25,000 components, modules and systems offers the right product for almost every application and is continuously expanded by customised solutions.

ROEMHELD 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, Austria, the 500 employees achieved sales of around 98 million Euro in 2015.

**Photo:**



Magnetic clamping system for an 800 t injection moulding machine with combined long and square poles (photo: 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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