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Press Release 5/2017

* **ROEMHELD at the Fakuma: New subsidiary promotes magnetic clamping technology**
* **Joint Venture Römheld Rivi pools competencies**
* **Quick-clamping systems for high-temperature applications**

*Laubach, August 9, 2017*. At the Fakuma, the newly established ROEMHELD subsidiary Römheld Rivi GmbH presents itself for the first time to a broad specialist audience. The new company pools competencies and activities of the ROEMHELD Group around the magnetic clamping technology. Besides the introduction of the company, the focus of the fair presentation will be on magnetic quick-clamping systems for plastics and rubber processing that are also suitable for high-temperature processes.

At Stand 1223 in Hall A1, the company presents the diversity of M-TECS magnetic clamping plates which can be used for working temperatures of up to 240°C. Thus, besides the application for injection moulding, also processing of rubber and high-tech thermoplastics as polyetheretherketone (PEEK) or polyphenylene sulphone (PPSU) is possible, where conventional magnetic clamping systems fail in the long run. So far, Römheld Rivi is the only company worldwide that offers magnetic clamping plates for such temperatures.

**Quick clamping of different mould geometries and weights**

For clamping and releasing, the magnetic clamping systems require only a short current pulse, in operation, they work without any power supply. Permanent magnets generate a magnetic field that penetrates a few millimetres deep into the mould and hold even heavy mould halves weighing several tons in the correct position and bring them together absolutely parallel. Thus, also elements with complex geometries can be exactly clamped without deformation within seconds.

A further advantage of magnetic clamping systems is their flexibility: moulds of different sizes, weight and geometries can be clamped, a standardisation of the moulds is not required. All magnetic materials are clamped on the full surface and with a high bending stiffness. The uniform distribution of the clamping force ensures a low mould wear.

**Processing of high-performance plastics**

From the magnetic clamping technology benefit amongst others processors of thermoplastics such as PEEK that is used for example as sterilisable and biocompatible material in the medical technology, as flexible circuit carrier for electronic components or as heat-resistant material in the aerospace industry. In continuous use, the high-performance plastic can be used at temperatures up to 260°C; the smelting process only starts at approx. 335°C.

This results in high mould temperatures during processing that create the need for appropriate clamping means. Magnetic clamping plates of the M-TECS series which are already used for more than a decade in the rubber industry at working temperatures up to 240°C are applied as quick-clamping systems.

The size and shape of the magnetic clamping plates can be customised to the requirements of the client. Heating for high-temperature processes can be integrated. Since a clamping system consists only of a few components and has no moving parts, it can be retrofitted within a few hours on existing machines and then the system is in principle maintenance-free.

The M-TECS series fulfils the standards EN 201 and EN 289 for injection moulding machines and rubber presses. All requirements with regard to relevant signals such as magnetization, power supply*,* mould monitoring and emergency stop are met at the performance levels “d” and “e”. Safety signals and error messages are indicated on the operating panel.

**New subsidiary Römheld Rivi intends to develop the technology**

To develop the magnetic clamping technology – among others for Industry 4.0 applications – Hilma-Römheld has founded together with the Italian manufacturer of clamping means and long-term partner Rivi Magnetics S.r.L. the Joint Venture “Römheld Rivi”. The company is directed by Hans-Joachim Molka from the Management of Römheld and the owner of Rivi Magnetics, Divide Rivi. The company’s headquarter is in Hilchenbach. Sebastian Veit, so far product manager of Hilma-Römheld for magnetic clamping technology, is now responsible as team manager for sales in the international field service. He is supported by product manager Matthias Althaus, who also takes care of the back office of the new company. Daniel Szeremly is responsible for design and development.

**ROEMHELD: Optimizer of set-up times for plastic and rubber processing**

With an extensive portfolio of mould and die clamping technology, the optimizer of set-up times ROEMHELD solves almost any clamping technology task in plastic and rubber processing. The magnetic, hydraulic and electro-mechanical clamping systems are highly versatile and contribute to make processes in single and series production more efficient and economical. Products for mould/die change such as die changing cart, media couplings, roller bars and carrying consoles complement the product range.

The ROEMHELD Group stands for solutions that contribute to a more efficient and economical design of the processes in the single and series production of nearly all industries. With innovative products of the production, assembly, clamping and drive technology, the group of companies is one of the international market and quality leaders of the industries concerned. Elements for production, testing and maintenance of large-scale components for wind power plants, components for the automation of setups and machine communication within Industry 4.0 complement the portfolio. The activities around the magnetic clamping technology are grouped together in the Römheld Rivi GmbH founded in 2017.

The comprehensive product range of the brands ROEMHELD, HILMA and STARK with more than 25,000 components, modules and systems offers the right product for almost every application and is continuously expanded by customised solutions. The group of companies is represented in more than 50 countries worldwide with service and sales companies and supplies, in particular, the international mechanical engineering, the automotive, aerospace and agro-industry and medical technology. At the three locations in Laubach, Hilchenbach and Rankweil/Austria the 510 employees achieved in 2016 sales of around 105 million Euro.

**Photos:**



Photo 1:

The new joint venture Römheld Rivi set itself the objective of significantly expanding the product portfolio of magnetic clamping technology (Photo: ROEMHELD).



Photo 2:

The team of Römheld Rivi GmbH (Photo: Römheld Rivi GmbH).

**You can download the press release as a word document and the image material in print quality:** [**http://www.auchkomm.com/aktuellepressetexte**](http://www.auchkomm.com/aktuellepressetexte)**.**

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