|  |  |
| --- | --- |
| **Contact person:**  Andreas Reich  Head of Quick Die-Clamping Technology  Tel.: +49 (0) 2733 / 281-162  Fax: +49 (0) 2733 / 281-169  Email: [a.reich@hilma.de](mailto:a.reich@hilma.de)  F. Stephan Auch  auchkomm Unternehmenskommunikation Tel.: +49 (0) 911 27 47 100 Email: [fsa@auchkomm.de](mailto:fsa@auchkomm.de) | Hilma-Römheld GmbH  Schützenstrasse 74  57271 Hilchenbach  Germany  Tel.: +49 (0) 27 33 / 281-0  Fax: +49 (0) 27 33 / 281-169  Email: [info@hilma.de](mailto:info@hilma.de)  [www.roemheld-gruppe.de/](http://www.roemheld-gruppe.de/) |

Press Release 12/2016

* **ROEMHELD at the Euroblech: easy-to-install die-clamping and changing systems for presses and die-cutters**
* **Elements with minimal space requirement, for automation and for oil-free clamping**
* **Transport cart for up to 1,600 kg and a new version of the die-clamping technology app: now also for smartphones**

*Hilchenbach, August 17th, 2016*. At the Euroblech exhibition, ROEMHELD’s focus will be on a range of easy-to-install die-clamping and ‑changing elements with minimal space requirement, for automated systems and for oil-free operation. The new range of compact, hydraulic sliding clamps designed especially for clamping in narrow spaces will be presented, as well as the new “Flexline” rapid clamping system with push chain for the automatic clamping of dies of varying sizes on the press ram.

There will also be several new wedge clamps on show: an electro-mechanical version which is characterised by its great flexibility, high clamping force and programmable drives, and a single-action variant which clamps mechanically using spring force and unclamps hydraulically. All components are suitable for initial installation or for retrofitting on existing machines and systems.

A die-changing cart with an increased load capacity of 1,600 kg and the clamping technology app which has been extended by numerous new functions round off the trade fair display of the ROEMHELD group, which can be found at stand M114 in hall 27.

**Compact sliding clamps for narrow spaces**

This new range of compact, hydraulic sliding clamps has been specially designed for narrow spaces in machines, systems and presses. The new “compact” version provides the same clamping force as the “classic” sliding clamp, but the size and weight have been reduced, in some cases considerably. Due to 0the new ergonomic design with recessed grips and rounded edges for simple insertion into the T-slots, handling has been made considerably safer and installation easier.

The size and weight have been reduced noticeably in comparison with the “classic” predecessor model, but the same clamping force is still achieved. The hydraulic clamping elements consist of a clamping block and a T-slot adapter which is used to manually position the clamp in the T-slots on the press bed or ram. Standardisation of the dies with regard to their width and depth is not necessary.

Clamping takes place by applying a maximum of 400 bar to the piston, achieving clamping forces between 19.6 and 78 kN depending on the version. The piston is released by means of spring force. To allow use in narrow construction spaces, the front of the clamping element has been redesigned: Both the clamping block and the insertion edges on the adapter have been ergonomically rounded, allowing particularly smooth insertion of the element. A special recess on the block ensures a better grip on the clamping element and thus facilitates changing of the die.

**“Flexline” rapid clamping system with push chain for fully automatic ram clamping**

Dies of varying sizes can be clamped automatically on the press ram using “Flexline”, the new rapid clamping system with push chain. The modular design and large number of variants mean it can be used on virtually all press models and for any die. “Flexline” is suitable for use on individual machines as well as for the automation of entire press lines.

The “Flexline” system can be optionally fitted with hollow piston and spring clamping cylinders or sliding clamps in accordance with the manufacturing situation, die geometry and clamping edge dimension. There are both single-action and dual-action variants available with maximum clamping forces up to 104 kN per clamping point. There are models with various monitoring options, different adjustment tracks of 660, 820 or 1100 mm and versions for varying DIN and inch slot widths.

The core of the system comprises electro-mechanically driven push chains which automatically move the selected clamping element from the parking position to the clamping edge of the ram. The central control unit applies the pressure evenly for all clamping elements and thus ensures uniform securing of the die. The motor can be mounted alternatively on the left or right in just a few simple steps, as can the module for position monitoring which comes as standard with the “Flexline”. When creating an individual variant, ROEMHELD provides assistance using a configurator.

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

The new wedge clamp 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 sliding tables, electrical servo presses, injection moulding machines 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, forming 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.

**Wedge clamp range extended by new single-action model**

In addition to the new electrical variants, the ROEMHELD product range has also been extended by new single-action wedge clamps. Dies are clamped mechanically by means of an integrated spring, which is returned hydraulically in the unclamping action. The self-locking mechanism of the clamping bolt means the wedge clamps are particularly suitable for hydraulic-free, long-term clamping. A visual clamping bolt display indicates whether the die is clamped securely, and an inductive position sensor is also available.

The new, single-action wedge clamps are protected against aggressive ambient conditions thanks to their special surface coating, and are available for any machine size. They can be mounted to any standard machine clamping plate using a hole pattern in accordance with Euromap specifications.

Special versions are also possible for deviating applications.

**Die-changing cart now with load capacity up to 1,600 kg**

In addition to their new products in the area of die clamping, ROEMHELD will also be presenting a further innovation from their products for safe die changing, such as media couplings, roller conveyors and ball bars as well as carrying consoles. The carrying capacity of the die-changing 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 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.

**Extended clamping technology app available in twelve languages**

The ROEMHELD app for tablets and smartphones provides interested parties with a comprehensive overview of products in the area of die-clamping and changing technology. It contains the entire product catalogue with over 1500 articles and variants, as well as 25 3D-animated product videos and numerous application photos. In the new version, which features a user interface available in twelve languages and catalogue sheets in five languages, the product configurators for roller/ball bars and the “Flexline” rapid clamping system have also been integrated. The app is suitable for tablets with Android, Windows and iOS operating systems as well as for Android smartphones and for use in the Google Chrome browser.

Catalogue sheets, videos and photos can be sent directly to your contacts from the app, and product enquiries can be sent using a corresponding form. The app can be found at <http://www.roemheld-gruppe.de/app>.

**ROEMHELD: optimising set-up times in sheet metal forming**

With their die-clamping and changing technology, ROEMHELD consider themselves as an expert for the optimisation of set-up times in forming technology. The division offers a wide range of hydraulic, mechanical, electro-mechanical and magnetic clamping elements as well as 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. 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.

**Photos:**



Photo 1:

The new “Flexline” rapid clamping system with push chain for the automatic clamping of dies of varying sizes on the press ram (photo: ROEMHELD).

****

Photo 2:

With the new electro-magnetic wedge clamp, dies can be secured with high clamping forces on sliding tables, electrical presses, injection moulding machines or in cleanroom environments (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)**.**

**Copy requested:**

auchkomm Unternehmenskommunikation, F. Stephan Auch, Gleißbühlstr. 16, D-90402 Nürnberg, [fsa@auchkomm.de](mailto:fsa@auchkomm.de), [www.auchkomm.de](http://www.auchkomm.de/)