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| **Contact person:**  Andreas Reich  Product Manager Quick die change Systems  Tel.: +49 (0) 2733 / 281-0  Fax: +49 (0) 2733 / 281-169  E-mail: [a.reich@hilma.de](mailto:a.reich@hilma.de)  F. Stephan Auch  auchkomm Unternehmenskommunikation Tel.: +49 (0) 911 / 27 47 100 E-Mail: [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  E-mail: [info@hilma.de](mailto:info@hilma.de)  [www.roemheld-gruppe.de/](http://www.roemheld-gruppe.de/) |

Press Release 5/2016

* **ROEMHELD: Rapid clamping system “Flexline” with push chain for fully automatic ram clamping**
* **Modular all-rounder on the press with numerous versions**
* **Rapid configuration of individual variants**

*Hilchenbach, June 20th, 2016*. The new “Flexline” rapid clamping system with push chain is designed for the automatic clamping of dies of varying sizes on the press ram. Thanks to its modular design and large number of possible variants, it can be used on virtually all press models and for any die. It is suitable for initial installation or for retrofitting individual presses as well as for the automation of entire press lines.

The rapid clamping system can be combined with a range of clamping elements so that it can be used with dies of varying geometries and clamping edge dimensions. Numerous monitoring options, different adjustment tracks and versions for varying slot widths compliment the range of applications. When creating an individual variant, ROEMHELD provides assistance using a configurator. A drawing can be made available in just a few minutes.

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 maximum adjustment tracks can be selected from 660, 820 or 1100 mm. The central control unit applies the pressure evenly for all clamping elements and thus ensures uniform securing of the die.

**Various clamping elements can be used**

As different clamping elements are recommended depending on the manufacturing situation, the “Flexline” system can be fitted with hollow piston and spring clamping cylinders as well as sliding clamps.

For “Flexline”, there are both single-action and dual-action variants available with maximum clamping forces up to 104 kN per clamping point. The spring clamping cylinder version is designed for the unpressurised long-term clamping of dies and is ideal for applications in high temperatures. Different diameters, operating pressures and clamping forces can be selected when using sliding clamps and hollow piston cylinders. Four different versions of the latter are available, including a compact, single-action cylinder with 90 mm diameter. At an operating pressure of 400 bar it can achieve a retention force 104 kN. The larger cylinder with a diameter of 105 mm is self-locking and achieves similar clamping forces but at considerably lower pressures up to 245 bar.

**Suitable for various slot widths**

ROEMHELD offers various “Flexline” variants for different T-slot widths: In addition to the DIN dimensions of 28 mm and 36 mm, further versions in 32 mm and 1 1/16 inch are available for the American market.

The drive is provided by a multi-frequency motor with rated output of 45 W, designed for a voltage of 400 V at a frequency of 50 Hz, or 480 V with a frequency of 60 Hz. There is also a 24 Volt version. 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”.

**Flexible position monitoring integrated**

An inductive sensor signals whether the clamping element is in the parking position or securing position. Optional micro switches are available which indicate the stopping points and the end of the chain. The automatic motion sequence and integrated control systems ensure high operational safety.

Various Harting connectors can be selected for the motor current and monitoring signals. Where required, the customer can also order a matching socket housing which facilitates assembly to the machine. It is also possible to configure the rapid clamping system with UL-compliant parts.

**Product configurator assists selection process**

The product configurator provides an overview of the individual equipment options, guiding you through the selection process of “Flexline” and generating a drawing of the configured clamping solution in just a few minutes.

ROEMHELD is also happy to provide customised solutions if a customer’s individual requirements cannot not met by the existing variants. Such requirements can often be met by adapting the standard system only slightly, in order, for example, to provide a modified T-slot dimension, a different track, a special mounting hole pattern or a different connection type. Versions for use in tight spaces and with different drives and clamping elements can usually also be implemented easily.

**Modular construction makes servicing easier and enables short delivery times**

The advantages of the rapid clamping system's modular design not only include shorter delivery times of just a few days but also the increased availability of replacement parts. “Flexline” is made up of standard components which can be easily replaced. A global network of service companies is available to provide rapid assistance in the event of maintenance and repair.

**ROEMHELD app on Quick-die-changing systems**

The ROEMHELD app for tablets provides comprehensive and descriptive information about products and solutions for quick die 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 QDC/QMC 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, electromechanical 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, Austria, the 500 employees achieved sales of around 98 million Euro in 2015.

**Picture:**



The new “Flexline” rapid clamping system with push chain is designed for the automatic clamping of dies of varying sizes on the press ram. Thanks to its modular design and large number of possible variants, it can be used on virtually all press models and for any die (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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auchkomm Unternehmenskommunikation, F. Stephan Auch, Gleißbühlstr. 16 D-90402 Nürnberg, Germany [www.auchkomm.de](http://www.auchkomm.de/) .