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Press Release 3/2023

* **The new HILMA.UC 125 machine vise is universal and flexible**
* **Conversion for new workpieces in just a few steps**
* **A modular clamping device for numerous applications**

*Rankweil (Austria), 13 July 2023.* The new Hilma.UC 125 machine vise is a true centric clamp. With it, users can retrofit more quickly for different workpieces. At the same time fewer clamping devices are needed for a wide range of clamping tasks. This is what STARK Spannsysteme GmbH promises. The company from the ROEMHELD Group is presenting the modularly designed all-rounder for 3- to 5-axis machining at EMO 2023 in Hanover.

The high level of flexibility is achieved by a separable base and two parallel slides. An adjustment spindle is used to position the slides. The workpiece is clamped by a tension spindle with a tensile force of 52 kN. A centre bearing holds the workpiece precisely and in the centre with repetitive accuracy.

**Innovative clamping physics with active pull-down clamping**

A special feature of the HILMA.UC 125 is its clamping physics. By turning the tension spindle, force is applied to the workpiece via the outer clamping claws on the clamping jaws above the workpiece stop. The closed flow of force from the tension spindle to the adjustment spindle prevents force being applied to the base. Bending the clamp up is thus avoided. An active pull-down mechanism in the clamping jaws prevents the workpiece from lifting.

The "UC" in the clamping system name stands for "Universal Clamp", because the machine vise can be adapted to a wide variety of workpiece geometries in just a few steps. The jaw opening can be extended up to 600 mm in just a few steps, according to STARK. This is one of the largest values currently available on the market. Different clamping jaws for raw and finished parts as well as cubic and round workpieces are also offered as part of the modular system. For this reason, no further investment in new clamping devices is required even when production requirements change.

The HILMA.UC has been designed to be easily accessible from all sides so that workpieces can be precisely machined with 5-axis machining in a single arrangement. Although it was designed for 5-axis machining, the clamping device can naturally also be used for 3- and 4-axis machining.

**One machine vise for different clamping tasks**

The universal modular design of the HILMA.UC 125 machine vise opens up a wide range of applications. Not only extensions for different clamping widths are available. There are also numerous options for mounting that can be adapted to the respective application. The clamp can either be placed directly on the machine table or in a zero point clamping system.

Furthermore, different clamping tasks can be realised very easily and reliably using flexible adapter plates. "Together with comprehensive accessories, the HILMA.UC 125 is a universal clamping system for workpieces of different sizes and geometries. So one vise is enough instead of numerous systems, each with different jaw openings", explains Guido Born, Product Manager at STARK Spannsystem GmbH.

**ROEMHELD at EMO:** Hall 4, Stand E54

**About STARK**

STARK Spannsysteme GmbH, located in Rankweil/Austria, has been a member of the ROEMHELD Group since 2000. Founded in 1977, the company designed the world's first zero point clamping system in 1988. Today, the high-tech company STARK develops and produces zero point clamping systems and HILMA vises of the highest quality and precision for international customers. These customers are from the automotive, aviation and medical technology sectors, among others. Products from STARK Spannsysteme stand for minimum set-up times, fast production and a high level of flexibility. They are supplemented by customised solutions. STARK currently employs around 75 people.

**About ROEMHELD:**

Whether for aircraft, automobiles, machine tools, or cases for smartphones: ROEMHELD technologies and products have been used to manufacture numerous industrial commodities and goods for end users for more than 80 years.

Innovative and smart clamping technology solutions for workpieces, as well as for dies in forming technology and plastics processing, form the core of our ever-increasing portfolio. This is supplemented with components and systems for assembly and handling technology, drive technology and automation, and locking mechanisms for rotors on wind energy systems.

In addition to a constantly growing range of more than 25,000 catalogue items, ROEMHELD also specialises in developing and realising customised solutions and is internationally regarded as one of the market and quality leaders.

Innovation through tradition: ROEMHELD was established in 1707 with a foundry in Friedrichshütte, which still belongs to the ROEMHELD Group today and counts as one of Germany’s oldest active industrial businesses.

The owner-managed group of companies employs approximately 530 workers at the three locations Laubach, Wilnsdorf and Rankweil/Austria and is represented in over 50 countries by service and sales organizations. With customers from the mechanical engineering sector and the automobile, aviation, and agricultural industries, ROEMHELD generates an annual turnover of more than 90 million Euros.

**Photo:**

Ein Bild, das Maßstabsmodell enthält.

Automatisch generierte Beschreibung

With the new HILMA.UC machine vise, users can retrofit vises for different workpieces more quickly and require fewer clamping devices (photo: STARK).

**You can download the press release as a word document and the image material in print quality:**

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