



**ROEMHELD**  
HILMA ■ STARK



# HILMA.UC 125

## 5-axis clamping system

Modular, flexible, precise, jaw width 125

MAXIMUM FLEXIBILITY - 5-AXIS CLAMPING SYSTEM

# HILMA.UC machine vice

The **HILMA.UC** 125 universal clamping system is suitable for almost unlimited clamping tasks. Small workpieces as well as large plates can be clamped and machined with high

degrees of freedom. Even when production requirements change, there is no need to invest in new clamping devices.

The **HILMA.UC** universal clamping system can be adapted to different workpiece geometries in just a few steps.

**Pull-down mechanism**

The clamping force is applied to the workpiece via the outer clamping claws above the workpiece support without touching it directly.

Extensive **range of clamping jaws** for different clamping tasks.

The DLC **coated spindle** (friction reducing) with fine thread has a tensile force of up to 52 kN (120 Nm)\*.

The **wide guideway** ensures a safe, vibration-free state.

The **adjustment spindle** is NOT mechanically loaded - it is only used for positioning.

**Actuation of the spindle**

**STARK zero point clamping system**  
Bore holes for retractable nipple as standard version in the base

The **centre bearing** holds the workpiece precisely and stiffly in the centre with repetitive accuracy.

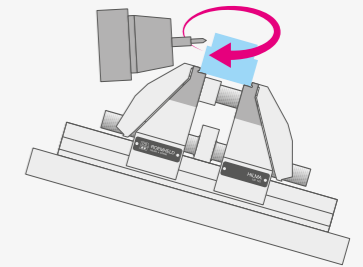


## Function and benefits



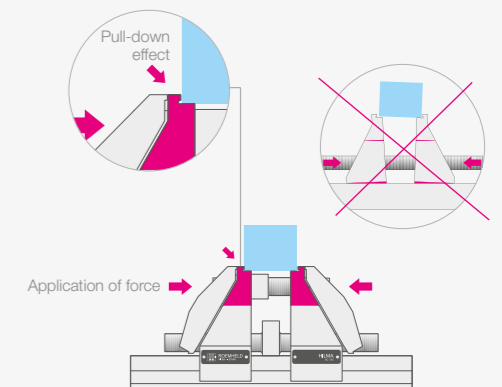
### Universal

- ▶ Adaptable to different workpiece geometries in just a few steps
- ▶ High degree of freedom and optimum accessibility to the workpiece
- ▶ For 3, 4 or 5-axis machining centres as well as turning and milling machines
- ▶ High clamping force
- ▶ Fast feed rate



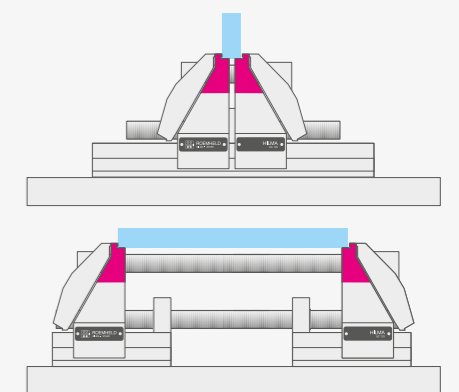
### Precise clamping

- ▶ Centre clamp - always holds small and large workpieces in zero position ( $\pm 0.01$  mm)
- ▶ Clamping with pull-down effect
- ▶ No force applied in the base
- ▶ More accurate and faster production
- ▶ Less tool wear



### Modular & flexible

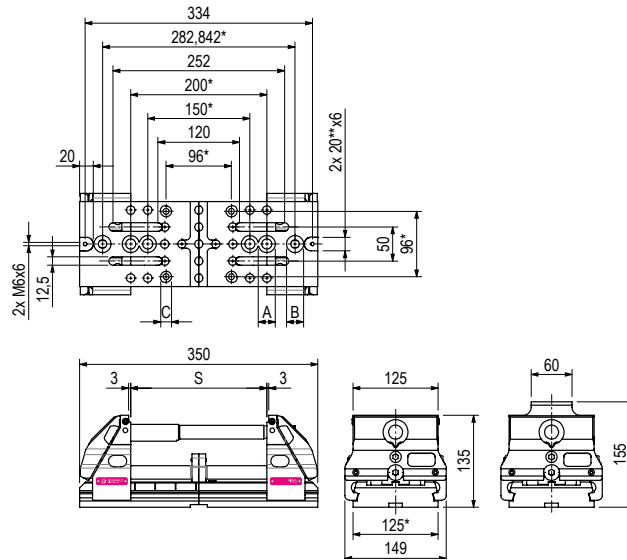
- ▶ Clamps small workpieces up to large plates
- ▶ Cubic and round workpieces
- ▶ Versatile accessories: Clamping jaws with grip, clamping claws, support strips, etc.
- ▶ Combination with STARK zero point clamping system as standard (retractable nipple bore holes)



\* Subject to technical changes, all data without guarantee



## HILMA.UC machine vice



\* Tolerance ± 0.02, \*\* tolerance + 0.02  
All dimensions in [mm]

| Series             |      | HILMA.UC 125  |
|--------------------|------|---|
| Clamping principle |      | concentric  |
| Operation          |      | mechanical  |
| Pull force         | [kN] | 52*   |
| Clamping range S   | [mm] | 0-200   |
| Base length        | [mm] | 350   |
| A                  | [mm] | 4x Ø 25 + 0.01 x 6; 4x M16x1.5 x 16                   |
| B                  | [mm] | 2x Ø 25 + 0.01 x 6; 2x countersink for M12 from above |
| C                  | [mm] | 4x Ø 16 ± 0.01 x 6; 4x M10 x 10                       |
| Part no.           |      | 970230101   |

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