



ROEMHELD
HILMA ■ STARK



HILMA.ASH

Automated Workholding System

Hydraulic double-acting, jaw width 125

ECONOMIC PRODUCTION

HILMA.ASH automated workholding system

The hydraulically double-acting long-stroke **HILMA.ASH** clamp is characterised by its long-stroke of 80 mm.

This machine-vice is ideal for different sizes of component families that are clamped in one workholding system. Therefore, the number of workpiece-specific clamping devices can be significantly reduced and clamping tool costs can be saved. Another advantage: The machine running time is not limited by the number of clamping tools and pallets.

The long-stroke offers sufficient flexibility for the fully automated production of workpieces for initial and subsequent clamping.

An automated jaw change is also possible. This means that, without manual intervention and without problems, raw parts and semi-finished products can be held and machined alternately with different clamping forces.

In conjunction with a handling system (e.g.: robot), the **HILMA.ASH** replaces a large number of conventional workholding systems, which often only have a few millimetres of stroke and therefore offer little flexibility. Families of parts can be produced much more economically with the **HILMA.ASH** than with standard vices or pallet systems thanks to shorter set-up times and lower personnel and system costs.

VIDEO



HILMA.ASH automated workholding system on zero point clamping system

- ▶ Fast closing plate with 4 elements STARK. classicNG.2 Twister and media duct for clamping/releasing the vice
- ▶ Coupling unit with zero-point clamping system (device pallet - handling system)
2 elements STARK.airtec with integrated query (S5000-230)
- ▶ Connections for handling system
 - 1x pneumatic connection
 - 1x signal line with M12 plug connection
- ▶ Process reliability
 - Release control
 - Clamp control
 - Release control
 - Clamp control



Functions and benefits

- ▶ hydraulic actuation, double-acting
- ▶ 125 mm jaw width
- ▶ hydraulic stroke up to **80 mm**
- ▶ Automation-compatible design with wipers and central lubrication
- ▶ Compact design for optimum accessibility even with small workpieces



+ Automated workpiece change

- ▶ automated setting of new clamping ranges
- ▶ configured clamping & unclamping
- ▶ Short strokes in clamping/releasing operation

+ Flexible changeover operations

- ▶ automated changing of clamping jaws (quick-change jaws)
- ▶ mechanical changing systems

+ Programmable via position measuring system

- ▶ time measurement
- ▶ volume counter
- ▶ electrical position measuring system*
*coming soon

+ Higher quality at lower cost

- ▶ increased machine running times & short setup times
- ▶ lower personnel and system costs
- ▶ increased process reliability & repeatable production results due to monitoring of all functions and less manual operations
- ▶ reduction of workpiece-specific clamping devices

Vice-type		HILMA.ASH 125
Clamping principle		against the fixed jaw, concentric
Operation		hydraulic double-acting
Clamping force	[kN/bar]	40/160
Jaw width	[mm]	125
Length	[mm]	320
Stroke	[mm]	80
Part no.		945868035



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