



**ROEMHELD**  
HILMA ■ STARK



# HILMA.ASH

## Automated Workholding System

Long-stroke vise, hydraulic double-acting

jaw width 125 mm

## 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-vise 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.

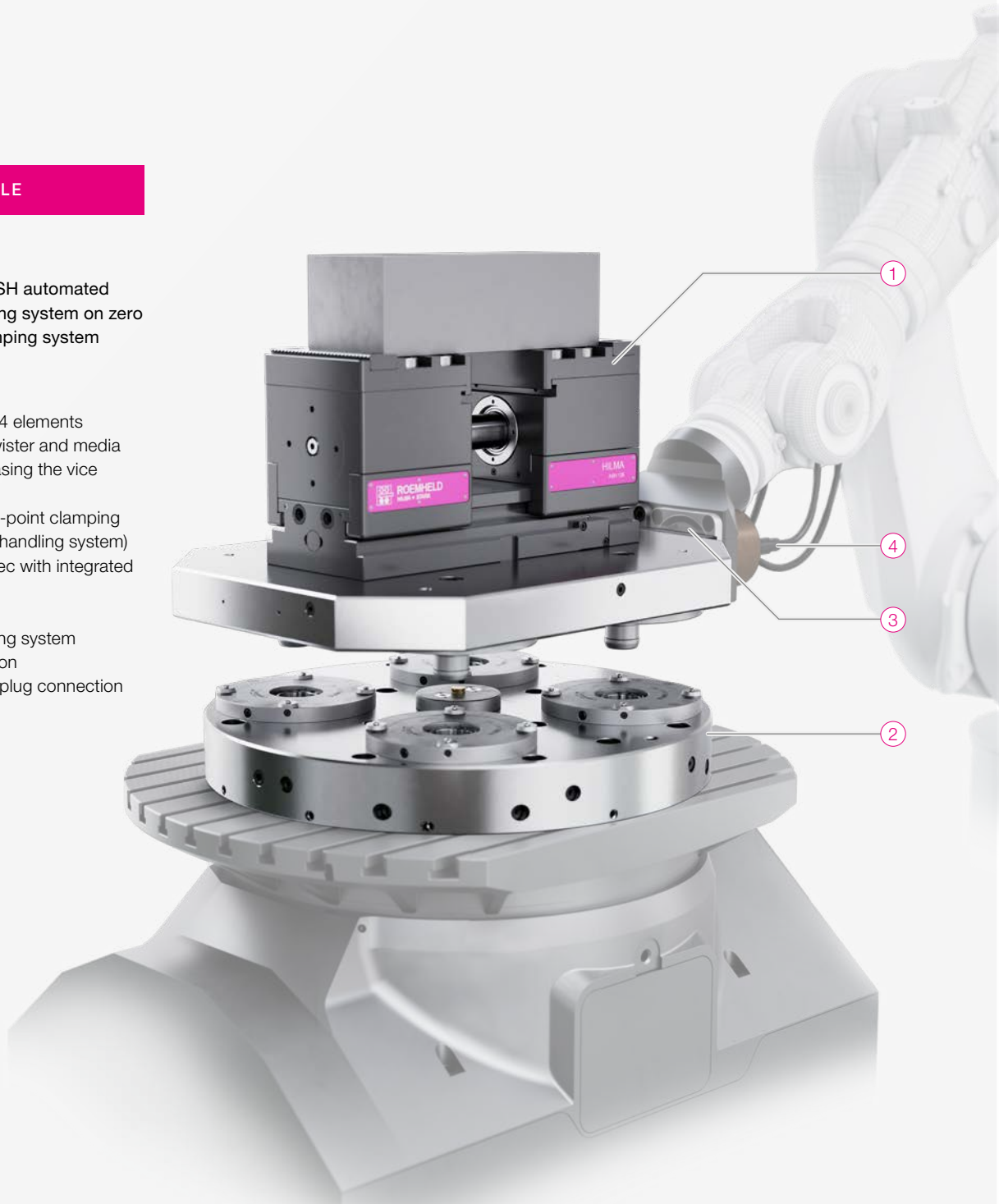
### APPLICATION EXAMPLE



Video

① **HILMA.ASH** automated workholding system on zero point clamping system

- ② Fast closing plate with 4 elements STARK.classicNG.2 Twister and media duct for clamping/releasing the vice
- ③ Coupling unit with zero-point clamping system (device pallet - handling system) 2 elements STARK.airtec with integrated query (S5000-230)
- ④ Connections for handling system
  - 1x pneumatic connection
  - 1x signal line with M12 plug connection
- ⑤ 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



Illustration 945868036  
Scope of delivery HILMA.ASH 125

### + Jaw change

- automated changing of clamping jaws (quick-change jaws)
- mechanical changing systems
- + flexible changeover operations
- + raw parts and semi-finished products can be clamped and machined with different clamping forces without manual intervention

### + Long-stroke - high clamping force

- hydraulic stroke up to 80 mm
- compact design
- + optimum accessibility combined with a large stroke provide maximum flexibility in automation
- + ideal for different sizes of component families

### + Optional position measuring system

- optionally left or right
- automated setting of new clamping ranges
- configured clamping & unclamping
- short strokes in clamping/releasing operation
- + increased process reliability & repeatable production
- + lower personnel and system costs

### + Design stable - maintenance free

- automation specific design
- central lubrication
- + high availability
- + durable design

Baureihe		HILMA.ASH 125
Clamping principle		concentric
Operation		hydraulic double-acting
Clamping force	[kN/bar]	40/160
Jaw width	[mm]	125
Length	[mm]	322
Stroke	[mm]	80
Spannbereich	[mm]	20 - 248
Part no. with electr. position measuring*		945868035
Part no.		945868036

\* electronic position measuring with 0 - 10 V output (24 VDC)

- ▶ Range of jaws on request



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