HAIMER®
Quality Wins.

MASTER CATALOG

HAIMER®

PRESETTING TECHNOLOGY

HAIMER

VIO basic

Suitable for large and heavy tools

TOOL PRESETTERS – SEMI-AUTOMATIC

The VIO basic, with optional semi-automatic (autofocus) or manual operation, is one of the most modern presetting devices in its class, with many features and an extensive set of standard equipment.

Standard Equipment

- Microvision VIO image processing system
- SK50 ultra-high precision spindle, manual
- Robust, long-life cast iron construction
- Thermally optimized material combination for improved repeatability
- Manual fine adjustment
- 24" multi-touchscreen
- Pneumatic spindle brake
- Vacuum clamping
- System VIO includes storage for up to 9 adapters

- Sigma function
- Memory for 1,000 zero points
- Unlimited tool memory
- User management
- Swiveling operating panel
- Edgefinder
- Inspection light
- 2 µm spindle runout (0.00008")
- ± 2 µm repeatability (0.00008")

Measurement Range
VIO basic

– Maximum tool diameter on X-axis	16.53 / 27.56 / 39.17 in (420 / 700 / 1000 mm)
– Maximum snap gauge tool diameter on X-axis	3.93 in (100 mm)
– Maximum tool length on Z-axis	19.69 / 27.56 / 39.37 in (500 / 700 / 1000 mm)
– Maximum tool weight	352 lbs (160 kg)
– Weight	881 lbs – 1,213 lbs (400 kg – 550 kg)
– Order No.	M-G1026*

Options

- ISS-U universal ultra-high precision spindle with automatic adapter identification, mechanical tool clamping, spindle brake pneumatically and 4 × 90° or 3 × 120° indexing motorized
- 4 × 90° and 3 × 120° pneumatic indexing
- Turning package: Second camera incl. indexing, 4 × 90° and 3 × 120°
- Bidirectional interface
- Manual RFID system
- 27" multi-touchscreen
- Label printer
- Post-processor
- HQR-Connect
- HRFID-Connect

* this part number is for the smallest unit in X and Z, please contact HAIMER for the part numbers of the larger machines

Presetting Technology

VIO *linear*

Perfect for rapid measurements, even on highly complex tools

TOOL PRESETTERS – FULLY AUTOMATIC

VIO *linear* – The complete solution: for fully automatic high-end tool presetting with customizable options.
The modular concept makes it possible to preset tools up to 39.37" in length and diameter.

Standard Equipment

- Microvision VIO image processing system
- High-precision and fast axis-positioning via linear motion
- SK50 ultra-high precision spindle, autofocus
- 4 × 90° and 3 × 120° electronic indexing
- Pneumatic spindle brake
- Robust, long-life cast iron construction
- Thermally optimized material combination for improved repeatability
- Motorized fine adjustment of all axes
- 24" multi-touchscreen

- System VIO includes storage for 9 adapters
- Sigma function
- Memory for 1,000 zero points
- Unlimited tool memory
- User management
- Swiveling operating panel
- Edgefinder
- Inspection light
- 2 µm spindle runout (0.00008")
- ± 2 µm repeatability (0.00008")

Measurement Range
VIO linear

– Maximum tool diameter on X-axis	16.53 / 27.56 / 39.17 in (420 / 700 / 1000 mm)
– Maximum snap gauge tool diameter on X-axis	3.93 in (100 mm)
– Maximum tool length on Z-axis	19.69 / 27.56 / 39.37 in (500 / 700 / 1000 mm)
– Maximum tool weight	352 lbs (160 kg)
– Weight	881 lbs – 1,213 lbs (400 kg – 550 kg)
– Order No.	M-G1035*

Options

- ISS-U universal ultra-high precision spindle with automatic adapter identification, mechanical tool clamping, pneumatic spindle brake and 4 × 90° and 3 × 120° motorized indexing
- Second camera for measuring the center of rotation
- Bidirectional interface
- Manual or automatic RFID system
- 27" multi-touchscreen
- Post-processor
- VIO Fit/Scan
- Angular head system, swiveling camera carrier, Y-axis offset for measuring multiple slewing gear witness

- HQR-Connect
- HRFID-Connect
- Robot-ready software interface for integration of a robot cell to preset tools without operator
- Length stop system for automatic length adjustment for hydraulic or ER collet chucks
- Direct photo storage for easy integration of tool data
- Gear Skyving System
- Y-axis for measurement of multi-tool turning holder
- Reamer module for guided reamer

Presetting Technology

* this part number is for the smallest unit in X and Z, please contact HAIMER for the part numbers of the larger machines

VIO *linear* toolshrink
Shrinking and presetting combined

SHRINKING/PRESETTING

The combination of shrinking and presetting technology with precise length adjustment on the µm scale makes the VIO *linear* top of its class, which includes the toolshrink variant. The VIO *linear* toolshrink is the ideal choice, especially when using shrink fit holders, duplicate assemblies, or multi-spindle machines.

Standard Equipment

– Microvision VIO image processing system

– ISS-U universal ultra-high precision spindle with automatic adapter identification, mechanical clamping and 4 × 90° and 3 × 120° motorized indexing

– Best shrinking results, regardless of the holder brand

– High precision and fast axis-positioning through linear motion

– Fully automatic HAIMER induction unit 13 kW coil

– Automatic detection of shrinking parameters

– Automatic length adjustment within ± 10 µm (0.0004")

– Extractor with filter

– HAIMER contact cooling TME-12: Intelligent Cooling System with sensor

– 24" touchscreen

– Ideally used with HAIMER shrink fit holders for best results

– Dynamic shrinking for short process times

Measurement Range

VIO linear toolshrink

– Maximum tool diameter on X-axis	16.53 in (420 mm)
– Maximum snap gauge tool diameter on X-axis	3.93 in (100 mm)
– Maximum tool length on Z-axis shrinking	2.36 – 25.59 in (60 – 650 mm)
– Maximum tool length on Z-axis measuring	19.69 / 27.56 / 39.37 in (500 / 700 / 1000 mm)
– Maximum tool weight	352 lbs (160 kg)
– Weight	1,587 – 1,764 lbs (720 – 800 kg)
– Order No.	M-G1061 *

Options

– Second camera for measuring the center of rotation
– Post-processor
– Bidirectional interface
– VIO Fit
– VIO Scan
– Manual RFID system
– Automatic RFID system
– Label printer
– TME cooling system with temperature monitoring
– 27" multi-touchscreen
– HQR-Connect
– HRFID-Connect

– Robot-ready software interface for integration of a robot cell to preset tools without operator
– Length stop system for automatic length adjustment for hydraulic or ER collet chucks
– Direct photo storage for easy integration of tool data
– Gear Skyving System
– Reamer module for guided reamer
– Quick in/out, shrinking like a Power Clamp i4.0 (no setup)
– Scan function for shrinking parameter
– Pre-installed HAIMER data base

Presetting Technology

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