MASTER CATALOG

HAIMER®

HAIMER

PRESETTING TECHNOLOGY


Software

Top 10 Reasons to Use HAIMER Microset Presetting Technology

1

Increased Machine Utilization
Reducing set-up time by as much as 70% or more translates to more machine “up-time” and productivity.

2

Faster Set-ups
Even if set-ups are not being performed offline, using a tool presetter is significantly faster than setting tools in the machine manually or with a laser.

3

Reduced Scrap
Microset presetters use optical cameras for measurement, which provide higher degrees of accuracy versus manual setting methods. Options like automatic focusing and measuring further reduce deviations in measurement, regardless of the operator.

4

Longer Tool Life
Runout that is not often inspected for non-critical assemblies can be measured and accounted for easily with a presetter, thereby extending tool life by preventing inaccurate tools from ever entering the machine.

5

Fewer Collisions
With optional data transmission methods like post-processing or RFID, the manual entry of offsets into the machine can be eliminated. This reduces errors that occur from operators accidently mistyping offset values.

6

More Cost-Effective than Lasers
Machines make money when they are making chips and not being used as measuring devices.
Furthermore, one presetter can manage 10–30 machines which is more cost-effective than purchasing a laser for each machine.

7

Consistency
Confirmation that tools are set properly, within specified tolerances, every time.

8

Ease of Use
Simple software makes the process as easy as possible for all users. No software engineering degrees needed!

9

Universal
Easy to preset milling tools, adjustable boring heads, complex multi-inserted face-mills, PCD form tools, step-drills, etc. from all makes and manufacturers.

10

Industry 4.0 Success
Industry 4.0 is all about using gathered data to automate changes on the fly that optimize the machining process.
The future smart factory will require technologies that can receive and transmit such data. HAIMER Microset tool presetters are able to communicate (bi-directionally) with a variety of machine controls and CAD/CAM systems.

Precision and productivity in production

Whether presetting, shrinking, inspecting and correcting balance, or measuring – we offer the perfect solution for all tool sizes and work environments. Improve the quality and precision of your work pieces with our know-how and wide range of products.

UNO series – entry level tool presetters include high-tech options as standard

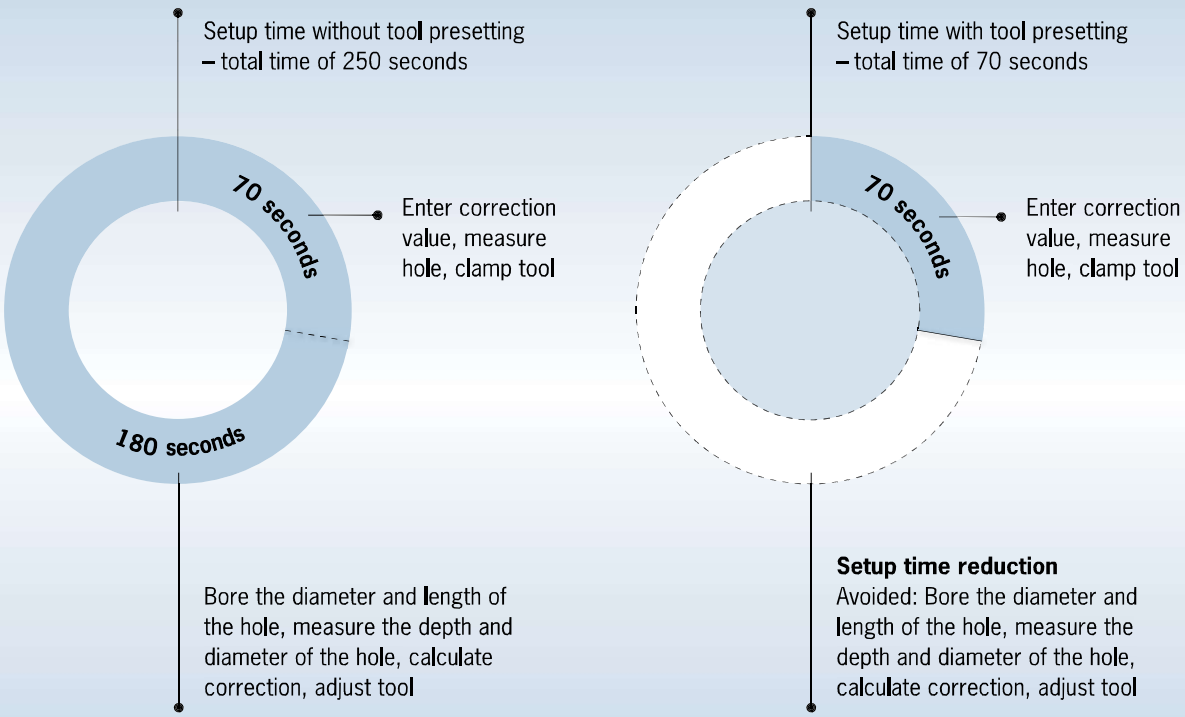
Save time and money, improve work piece quality

The efficient tool presetting equipment from HAIMER Microset optimizes your machining processes from the ground up. Improve your tool life, achieve better surface finishes and boost overall process reliability in your production.

- Minimize the idle time of your machines
- Reduce scrap and tooling costs
- Increase process reliability in your production
- Improve your tool life
- Generate consistent quality in your products

Reduce up to 70 % of your set up time!

Boring Head Example:

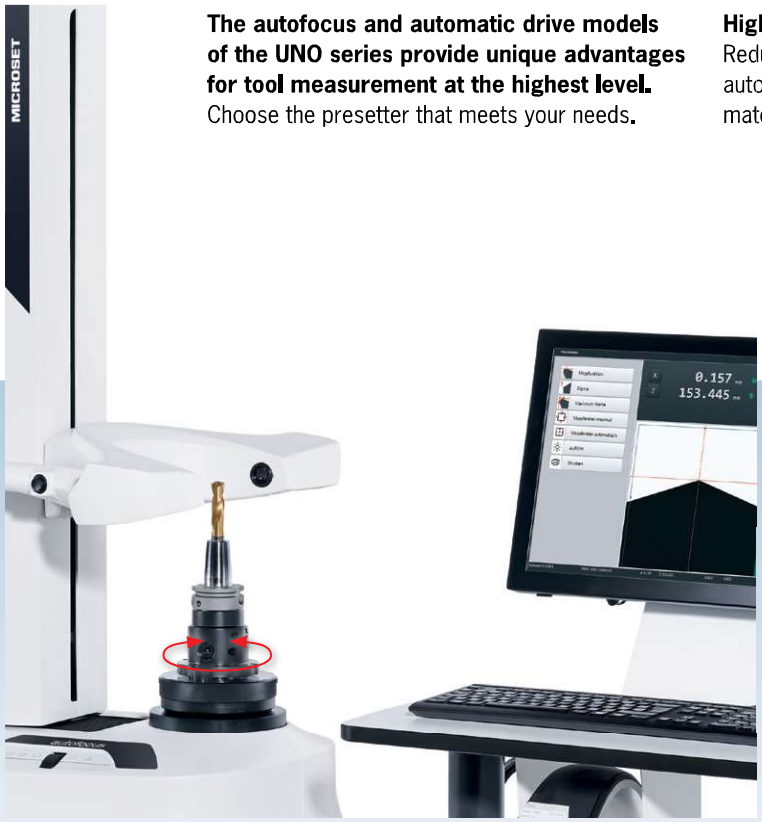


UNO series – entry level tool presetters include high-tech options as standard

In addition to its precision, speed and reliability, the UNO series also includes numerous features in hardware. The new design and improved ergonomics set the standard by using high-quality components from Festo/SMC, Bosch, Heidenhain, and IDS.

1: Camera system for setting the center of rotation
2: Tactile measurement of the center of rotation
3: Release-by-touch function, easy to operate without buttons
4: Useful system cabinet with 3 drawers, 1 door and internal oil tray. Also includes 3 maintenance doors (on all sides)
5: Keypad and µm-precise adjustments
6: 150° swiveling adapter storage
7–8: Measuring based on the snap gauge principle for diameters up to 100 mm

UNO autofocus & automatic drive – efficient and precise



The autofocus and automatic drive models of the UNO series provide unique advantages for tool measurement at the highest level.
Choose the presetter that meets your needs.

Highlights
Reduce the work load of the operator through the automation of presetting, with full or partially automated measuring functions.

autofocus

Automatically focuses on the cutting edge. Motorized spindles with convenient system cabinet and 24", 10 point touchscreen as standard.

automatic drive

Fully automatic tool presetting and measurement independent of the operator (CNC-controlled, 3-axis), with convenient system cabinet and 24" touch display standard.

VIO linear – maximum ease of use and functionality

Optimize process reliability in your production with fully automatic measurement capabilities. The open device platform allows for the integration of both new and existing production processes.

Maximum stability and precision
The FEM-optimized, thermally stable cast iron construction of the VIO *linear* series ensures accurate measuring results and equipment longevity. Additionally, highly dynamic, wear-free linear drives ensure accurate long-term quality. The parallel drive and guidance system ensures optimal distribution of forces and guarantees ±2 µm measurement repeatability.

Highlights
- High rigidity ensures low distortion even at the maximum permissible load
- FEM-optimized and thermally stable cast iron construction
- Maximum tool weight 352 lbs (160 kg)
- Fast, silent and highly accurate cutting edge approach via unique linear drive

Leader in innovation:
- Fully automatic measuring cycles for maximum operating convenience
- High quality components from Heidenhain, Bosch Rexroth
- Maintenance free linear drives for higher speed, low noise and highly accurate positioning
- User-friendly operating panel ensures ultimate flexibility
- High power software Microvision VIO
- Release-by-touch
- Measure-by-touch (optional)

1: Second camera for measuring the center of rotation (optional)
2–3: Fully automatic axis drive via modern linear technology