

Haimer Microset VIO Linear Tool Shrink

Haimer Presetting Machine

HAIMER®
Quality Wins.

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HAIMER USA, LLC

2024

Dear Valued Haimer Customer,

Thank you very much for your inquiry. We are pleased to quote you the HAIMER Microset **“VIO Linear Tool Shrink” Tool holder presetting machine!**

The **Haimer Microset VIO Linear Tool Shrink** allows you to preset tool holders, boring heads, face mill cutters and other tooling:

- Highest dynamics and unrivalled measuring speed due to linear drives in X and Z-axis
- Up to 25% faster measuring cycles
- Unique design allows optimal access to the spindle
- Comfortable handling through two operation options - manual or motorized
- Rigid and ergonomic design that is FEM optimized and has a thermos-resistant cast iron construction
- Utilizes reflective light in segments for optical inspection of the cutting edge
- Has various measurement functions for turning, milling, and drilling tools
- Contains an intuitive menu navigation and control for simple operation
- Top Measurement values to ± 0.002 mm (± 0.00008 ") repeatability
- Wide variety of options available for flexibility and versatility
- Haimer Shrink Fit technology allows for shrinking and presetting in one machine
- *Process reliable shrinking only ensured with Haimer shrink fit chucks*



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Basic Units – See Technical Description for more details

List Price:

M-G1061	MICROSET Tool Presetter Type VIO 20/50 linear Toolshrink 500 (Ø 420 x 500 mm) Maximum presetting height 450 mm	\$214,570.00 US
M-G1080	MICROSET Tool presetter Type VIO 20/70 linear Toolshrink 700 (Ø 420 x 700 mm) Maximum presetting height 650 mm	\$224,550.00 US
M-G1081	MICROSET Tool presetter Type VIO 20/100 linear Toolshrink 1000 (Ø 420 x 1000 mm) Maximum presetting height 950 mm	\$235,540.00 US

**THIS MACHINE MUST SHIP INSURED VIA AN LTL CARRIER DIRECT TO THE SHIPPING LOCATION WITH AN AIR RIDE EQUIPPED TRAILER. NO EXCEPTIONS.*

Installation and Training - Travel Costs Not Included

91.101.34.00	\$8,546.00 US
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Maintenance Packages - Please see Service Flyer for details!

Part Number	Price for 1 Year	Total Price for 3 years
91.101.34.01 (Single) -One-time preventative maintenance call -Full check of the machine/parts -Calibration -Ordered as needed	\$2,855.00 US	N/A
91.101.34.20 (Premium Maintenance) -Three-year maintenance contract -Full check of the machine/parts -Calibration -Set price for three years	\$2,855.00 US	\$8,565.00 US
91.101.34.40 (Quality Wins Maintenance) -All the benefits of the Premium pkg. PLUS: -Warranty extended to three years total -Discounts on wear and spare parts -Travel costs included in the price!	\$5,880.00 US	\$17,640.00 US

Setting Masters – Required for the most accurate presetting capabilities during the shrinking process

List Price:

M-Z6025	Package for shrinking Ø3mm Adjusting adapter and cooling adapter insert	\$1,388.00 US
M-Z6026	Package for shrinking Ø4mm Adjusting adapter and cooling adapter insert	\$1,388.00 US
M-Z6027	Package for shrinking Ø5mm Adjusting adapter and cooling adapter insert	\$1,388.00 US
M-Z6028	Package for shrinking Ø3-5mm Adjusting adapters and one cooling adapter insert	\$1,388.00 US

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M-Z6000	Adjustment adapter package in metric Standard setting adapter with diameters (mm): 6, 8, 10, 12, 14, 16, 18, 20, 25	\$7,836.00 US
M-Z6008	Adjustment adapter for 32mm	\$963.00 US
M-Z6030	Package for shrinking Ø1/8" Adjusting adapter and cooling adapter insert	\$1,388.00 US
M-Z6005	Adjustment adapter package in inch Standard setting adapter with diameters: ¼, 3/8, 3/16, 5/16, ½, ¾, 1	\$7,832.00 US
M-Z6031	Adjustment adapter for Ø7/16"	\$1,388.00 US
M-Z6032	Adjustment adapter for Ø5/8"	\$1,388.00 US
M-Z6033	Adjustment adapter for Ø7/8"	\$1,388.00 US
M-Z6034	Adjustment adapter for Ø1-1/4"	\$1,388.00 US

Machine options

List Price:

M-A2062	Technology Package for VIO Toolshrink "TME" temperature monitoring system: sensors in the cooling body monitor the temperature of the holder after shrinking, and an integrated LED on the cooling body is red or green, increasing safety Control electronics PC system and 27" monitor package Unlimited tool storage – enables saving and retrieval of single tools and toolkits from tool database without memory limits Levelling feet with vibration dampening Direct photo storage – external camera from Microset for taking pictures of tooling and ability to store images in the tool data Backup system basic – Software for manual or automatic backup of data/images	\$17,935.00 US
M-Z2122	Control electronics PC system and monitor 27" 44-times magnification for cutting tools 10-point-multi touch monitor 27" HD-Display resolution 1366 x 768 (16:9) ITX PC-system keyboard and computer mouse Operating system Windows 10 Professional 32 Bit	\$2,121.00 US
M-Z6035	Smoke evacuation with activated carbon filter Smoke evacuation with automatic shut-off	\$6,334.00
M-Z2300	Color printer for list printing Color laser printer (A4, Ethernet, wlan, duplex, 600 x 600 dpi, color touch screen)	\$2,675.00 US
M-Z6020	Tool tray	\$1,897.00 US
M-Z6017	Tool inserts package – 4 x HSK40 <i>If neither „Tool Inserts Package“ is purchased, there would be empty holes on the shelf on the right side of the machine</i>	\$628.00 US
M-Z6016	Tool inserts package – 4 x ISO30/HSK50 <i>If neither „Tool Inserts Package“ is purchased, there would be empty holes on the shelf on the right side of the machine</i>	\$628.00 US
M-Z6010	Tool inserts package – 4 x ISO40/HSK63 <i>If neither „Tool Inserts Package“ is purchased, there would be empty holes on the shelf on the right side of the machine</i>	\$635.00 US
M-Z6015	Tool inserts package – 4 x ISO50/HSK100 <i>If neither „Tool Inserts Package“ is purchased, there would be empty holes on the shelf on the right side of the machine</i>	\$635.00 US

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	<i>the right side of the machine</i>	
M-Z2060	Levelling feet with vibration damping	\$396.00 US
M-F1007	2nd camera for center height control of cutting edge adjustable LED illumination *Must also purchase either M-A2062 or M-Z2122	\$9,689.00 US
M-O1000	Adjustable Optic Carrier System for adjusting the camera axis by +/-25° to measure cutting tools and gear skiving tools. For inspection of the cutting edge and cutting edge positions. *Only in combination with M-F1007	\$26,945.00 US
M-R4115	Angle head system for VIO Devices with ISS-U spindle System for adjusting the angular position of an angle head in the axial C-axis. Contains a stop block for automatic unlocking when the angle head is clamped. The cutting edge can be moved by the automatic rotation of the spindle for focusing and concentricity measurement. * Stop block/driver information must be provided by customer ** Not suitable for VDI tools	\$16,159.00 US

Software options

M-P4043	H3D-Scan Automatic scan of any tool contour. Creation and output of a 2D tool contour as a DXF file and a 3D model in step format for further processing. ** Requires min. Microvision software 7.7. ** Only in combination with automatic devices.	\$10,511.00 US
M-P5008	History of measurements Recording of all measurements and various activities. The stored measurements can be output as a CSV file. ** Requires min. Microvision Software 7.5.X.X	\$1,514.00 US
M-Z6510	Customized Shrink Parameter Adaptation of customer-specific shrink parameter for one tool holder type that does not function with standard HAIMER parameter. ** Price per tool holder ** Cooperation obligations of the customer: The customer has to provide an as-new test item as well as the associated technical documentation (data sheet)	\$656.00 US per holder
M-Z2074	Backup System Pro Incl. software for manual or automatic backup of data and images SSD Drive for storing data and image files UPS System to protect critical components and the control electronics for under/over voltage interruptions	\$4,015.00 US
M-Z2075	Backup System Basic Incl. software for manual or automatic backup of data and images	\$1,362.00 US
M-P4020	Direct Photo Storage External camera from Microset for taking pictures of tooling and ability to store images in the tool data	\$1,393.00 US
M-P1405	Angle head – Software module For measuring angle head tools 0-100°	\$2,675.00 US

Data transmission - Most common options listed, contact Haimer USA office for additional options!

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M-P1511	Data output post processor each data format Data output via Ethernet (based on shared folder) or USB keychain, for one specified controller type The controller must be a standard one, without any special Hard- or Software <i>*Must supply right type of control, software version (release) & machine to Haimer</i> <i>**customer is under obligation to cooperate, or third-party costs may apply</i>	\$2,675.00 US each format
M-P1303	Postprocessor Standard Package Incl. over 100 Postprocessors of most standard controls, ex. Siemens, Heidenhain, Fanuc, Hurco, Haas, Okuma, Heller, Storrec, Selca, Makino, and many more! Contact Haimer USA for complete list! <i>*Any modifications to standard posts would incur additional service costs, please contact Haimer Technical department for details.</i>	\$2,675.00 US
M-Z2081	Industrial Scanner – Premium Suitable for printed and laser-etched codes Identifies tools by scanning 1D and 2D barcodes, UPC/EAN, DataMatrix, QR codes or Micro QR	\$4,582.00 US
M-P1516	Bidirectional interface for data transfer Data out and input via Ethernet Connection of external data bank, programming systems, CAD-CAM and Tool management-systems <i>*only in combination with M-Z2120, PC System and 27" monitor</i> <i>**customer is under obligation to cooperate, or third-party costs may apply</i>	\$15,344.00 US
M-P1504	RFID technology manual tool identification by data carrier with manual handling - read and write Hard- and Software for RFID data carrier - e.g. Balluff, Euchner, Pepperl+Fuchs - data format to be ordered separately <i>**customer is under obligation to cooperate, or third-party costs may apply</i>	\$10,762.00 US
M-P1505	RFID Technology automatic tool identification with data chips - read-write unit for RFID chips - e.g. Balluff, Euchner, Pepperl+Fuchs - data format to be ordered separately <i>**customer is under obligation to cooperate, or third-party costs may apply</i>	\$18,853.00 US
M-P1536	Additional manual RFID read and write unit for Balluff <i>**Only in combination with an automatic RFID system</i> <i>**customer is under obligation to cooperate, or third-party costs may apply</i>	\$2,675.00 US
M-P1506	RFID technology for any other, single data format <i>**customer is under obligation to cooperate, or third-party costs may apply</i>	\$3,082.00 each format
M-P1551	HQR-Connect After measuring the tool, a label with a QR code is printed, and includes all needed data for feed the machine tool control. The QR code scanner, connected to the machine control via USB, reads the QR code and transmits the tool data directly into the control. <i>*Does not work with all controls, please consult with HAIMER USA's technical department</i>	\$7,454.00 US

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Adapters and reducing sleeves - Most common tapers listed, contact Haimer USA office or sales team for additional options!

M-R3045	ISS adapter ISO, BT, BBT, ANSI, CAT 40	\$2,675.00 US
M-R3046	ISS adapter ISO, BT, BBT, ANSI, CAT 50	\$2,675.00 US
M-R1077	ISS adapter HSK ACET 32 / BDF 40 Toolshrink	\$5,525.00 US
M-R1075	ISS adapter HSK ACET 40 / BDF 50 Toolshrink	\$5,525.00 US
M-R1074	ISS adapter HSK ACET 50 / BDF 63 Toolshrink	\$5,525.00 US
M-R1073	ISS adapter HSK ACET 63 / BDF 80 Toolshrink	\$5,525.00 US
M-R1076	ISS adapter HSK ACET 100 / BDF 125 Toolshrink	\$5,525.00 US
M-R1079	ISS Adapter PSC 63 - IKZ / Toolshrink	\$13,460.00 US

Technical Data

M-G1061 - Type VIO 20/50 Linear Microvision

Adjustment Ø 420 mm, Measuring 500 mm

Weight: up to 800 kg, Measure without arm (w/l/h): ca. 610/1050/1750 mm

M-G1080 - Type VIO 20/70 linear Microvision

Adjustment Ø 420 mm, Measuring 700 mm

Weight: up to 600 kg, Measure without arm (W/L/H): ca. 610/1050/1950 mm

M-G1081 - Type VIO 20/100 linear Microvision

Adjustment Ø 420 mm, Measuring 1000 mm

Weight: up to 600 kg, Measure without arm (W/L/H): ca. 610/1050/2250 mm

All models fully equipped with:

Presetting Specifications

- Image Processing System Microvision with the following features:
 - PC Technology, Windows 10 Professional
 - German or English
 - Standard PC Pentium, CPU Intel Pentium G870 / LGA1155 / 10-point-multi touch monitor 24"
 - 2 GB RAM, 500 GB hard drive, DVD-ROM drive, Ethernet on Board
 - Mega-pixel camera with telecentric lens and blue light of telecentric lighting
 - Resolution about 5.0 µm/pixel, field of vision app. 5.2 x 5.2 mm, full screen imaging, 39x magnification
 - Display Accuracy 0.001 mm, repeatability of +/- 0.002 mm
 - Cutting edge inspection
 - Measuring with fixed or dynamic cross hair
 - Intuitive user interface for shortest measuring cycles
 - Clear concise screen image extremely ergonomic operation and operator safety
 - Toolkits, order based, for a data transfer to the CNC machines
 - Tool database, memory of the tools with picture, technological parameters
 - Wide features for backup and data management
 - Absolute-, difference- and increment display, Radius/Diameter-Switch
 - Interfaces: Ethernet-card, USB and RS232 ports
- Linear drives in X and Z axes for maximum positioning accuracy and dynamic performance
- User Management – Create authorization levels for operators
- Manual operation with CNC mode for X- and Z- axis (optimal ease because of positioning)
- Collision safety system (minimum velocity: 180 mm/s)
- ISS Spindle with mechanical clamping (5000 N)

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- Motorized fine adjustment by linear drives
- Motorized spindle with 36 U/min
- Heidenhain glass scales for X and Z axis
- Based made of rigid cast-iron construction
- Thermal printer for label printing, including 800 labels
- Calibration Master
- Edge Finder for fast positioning of the cutting edge
- Unique ergonomic design provides optimum access to the spindle.
- Stable metal cabinet, compressed air maintenance unit, master tool for calibration
- Electrical voltage: 480V, 3-Phase; 120V
- Electrical power consumption: 13 KVA max.
- Pressure min. 87 psi to 116 psi max.
- Air consumption max. 10 liters per hour (depending on the equipment and the work cycles)
- Device Color: Standard HAIMER titanium gray, calcite white

Toolshrink Specifications:

- Maximum shrinkable range 650 mm
- Induction-axis with linear drive (500 mm) for maximum dynamics and positioning accuracy
- Motorized induction coil
- Haimer induction technology with automatic adjustable inductor for HSS and carbide cutting tools.
- Induction unit for the cutting tool diameters from 4 to 32 mm.
- Optional shrinking diameter 3mm (does not include setting adapter)
- Shrink temperature up to max. 350°C
- Heating time about 4 seconds
- Induction performance 13 KVA
- Cooling time about 30-60 seconds
- Fully automatic smoke evacuation
- User guide through optical operation information for the exact work
- Waste gas suction with carbon filter and automatic shutoff
- Short cycle times
- Water cooling for short cooling times and automatic shutoff

**** Prior to order being processed and placed, check with HAIMER Technical Services team to ensure that all technical specifications have been clarified**

Terms:	90% NET30, 10% Upon sign off (subject to credit approval) – FOB Villa Park, Illinois. All prices quoted as U.S.D.
Delivery:	16 - 20 weeks upon receipt of purchase order. However, this delivery may possibly be expedited. Please contact Haimer USA for availability in Villa Park Illinois (all stock is subject to prior sale)
NRTL and CSA Approval:	Customer is responsible for all NRTL / CSA certification, including costs and field evaluations
Machine-Warranty:	Haimer USA., the ("Seller") warrants to the user, who purchases and uses ("The User") the product, as hereinafter defined against defects in materials and workmanship for one year from the date of delivery of the product to the user. That includes parts in the machine and labor. (Does not include optional parts & accessories)

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Parts & Accessories Warranty:	Haimer USA LLC., the ("Seller") warrants to the user, who purchases and uses (the "User") the product, as hereinafter defined against defects in materials and workmanship for 90 days from the date of delivery of the product to the user. That includes parts & accessories. (Does not include machines)
<p>This Warranty does not cover damage due to improper use or handling. Only for manufacture defects</p> <p>Any attempts to repair, disassemble, modify, alter or otherwise change the Product voids this warranty. It is the User's responsibility to see that the product is suitable for the User's applications of the product.</p> <p>Common wear parts such as bearings, seals & rotary unions (and the like), which are subject to wear and tear, are not included in this warranty.</p> <p>Our obligation under this warranty is to the initial User only / This Warranty provides for no credit or cash refund to this User.</p> <p>This Warranty is limited exclusively to the repair or replacement of the parts found defective by Haimer USA LLC Service department</p> <p>This Warranty is subject to change without notice, provided however, even though Haimer shall not be required to give notice of a change in its Warranty, Haimer USA will make reasonable effort to notify customers and Distributors, who shall be obligated to notify its customers, of any substantive changes in the Warranty by either written notice to the changed Warranty in the product's package.</p>	

This quote is good for 30 days. Please feel free to call me with any questions and thanks again for the opportunity to quote.

Best regards,

Brendt Holden

President

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