

Haimer Microset VIO Linear

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 holder presetting machine!**

The **Haimer Microset VIO Linear** 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



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Basic Units

List Price:

M-G1035	MICROSET Tool Presetter Type VIO 20/50 linear Microvision (Ø 420 x 500 mm)	\$80,160.00 US
M-G1036	MICROSET Tool Presetter Type VIO 20/70 linear Microvision (Ø 420 x 700 mm)	\$91,170.00 US
M-G1037	MICROSET Tool Presetter Type VIO 20/100 linear Microvision (Ø 420 x 1000 mm)	\$102,150.00 US
M-G1038	MICROSET Tool Presetter Type VIO 35/50 linear Microvision (Ø 700 x 500 mm)	\$91,170.00 US
M-G1039	MICROSET Tool Presetter Type VIO 35/70 linear Microvision (Ø 700 x 700 mm)	\$102,150.00 US
M-G1040	MICROSET Tool Presetter Type VIO 35/100 linear Microvision (Ø 700 x 1000 mm)	\$113,140.00 US
M-G1041	MICROSET Tool Presetter Type VIO 50/50 linear Microvision (Ø 1000 x 500 mm)	\$102,150.00 US
M-G1042	MICROSET Tool Presetter Type VIO 50/70 linear Microvision (Ø 1000 x 700 mm)	\$113,140.00 US
M-G1043	MICROSET Tool Presetter Type VIO 50/100 linear Microvision (Ø 1000 x 1000 mm)	\$123,040.00 US

Installation and Training - Travel Costs Not Included

91.101.33.00	\$3,243.00 US
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Maintenance Packages - Please see Service Flyer for details!

Part Number	Price for 1 Year	Total Price for 3 years
91.101.33.01 (Single) -One-time preventative maintenance call -Full check of the machine/parts -Calibration -Ordered as needed	\$2,184.00 US	N/A
91.101.33.20 (Premium Maintenance) -Three-year maintenance contract -Full check of the machine/parts -Calibration -Set price for three years	\$2,184.00 US	\$6,552.00 US
91.101.33.40 (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!	\$5,040.00 US	\$15,120.00 US

Spindle Options

List Price:

M-S1029	ISS-U High precision spindle "autofocus" motorized autofocus for precise focusing of the tools concentric run-out accuracy 0.002 mm - automatic adaptor identification - mechanical tool clamping	\$6,939.00 US
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	<ul style="list-style-type: none"> - spindle brake pneumatically - 4 x 90°, 3x 120° motorized indexing <p><i>* The ISS spindle is supplied without any adapter. A minimum of one adapter is necessary for usage. Please select the suitable ISS adapters from the "Adapters and reduction sleeves" section</i></p>	
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Machine options

List Price:

M-A2063	Technology package for VIO Linear Control electronics PC system and 27" 10-point multi-touch monitor, HD display resolution 1366 x 768 (16:9) 134x enlarged representation of the tool ITX PC system keyboard and mouse Unlimited tool storage – allows the saving and retrieval of single tools and tool sets in one tool database without memory limit User management – Creation of authorization levels for operators Levelling feet with vibration dampening Direct photo storage – Photo shooting of tools with external camera from Microvision, for the direct storage in the tool data Backup System Basic – Incl. backup software, for manual or automatic back of the data and for the creation of image backups	\$5,921.00 US
M-F1007	2nd camera for center height control of cutting edge adjustable LED illumination *Must also purchase either M-A2063 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 and M-S1029	\$26,945.00 US
M-Z2122	Control electronics PC system and monitor 27" 57-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-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 ***Only in combination with M-S1029 *** Included M-P1405 angle head measuring software	\$16,159.00 US
M-H1005	500mm Tailstock Tailstock with quill, to hold the tools and workpieces between center For measurement of milling arbors, reamers, and shafts <i>Incl. ISS center module</i>	\$27,962.00

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	<i>Only in combination with M-S1027</i> <i>Delivery time is 16 weeks minimum</i> <i>Cannot be used with automatic RFID system</i>	
M-H1006	700mm Tailstock Tailstock with quill, to hold the tools and workpieces between center For measurement of milling arbors, reamers, and shafts <i>Incl. ISS center module</i> <i>Only in combination with M-S1027</i> <i>Delivery time is 16 weeks minimum</i> <i>Base machine must be 700mm or higher</i> <i>Cannot be used with automatic RFID system</i>	\$33,048.00
M-I1016	Length stop system for length adjustment in non-Shrink holders Length stop system Z, software controlled and automatic length adjustment for tool holder with through hole and without set length screw <i>*Only for VIO Linear V50 or V70 models</i> <i>**Max. length of 700mm</i>	\$15,761.00 US
M-O1100	Y-Axis For measuring off-center tools Measuring + - 100mm <i>Delivery time upon request</i>	\$22,874.00 US

Machine Accessories

120-2604896	ISS Master Microset ISS Zero Gauge. <i>*Recommended when purchasing machine</i>	\$3,428.00 US
M-Z2300	Laser Printer for list printing Color laser printer (A4, Ethernet, Wlan, Duplex, 600 x 600 dpi, Color-Touchscreen)	\$2,675.00 US
M-Z1014	Dust cover VIO	\$525.00 US
M-Z2060	Levelling feet with vibration damping	\$396.00 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. <i>** Requires min. Microvision software 7.7.</i> <i>** Only in combination with automatic devices.</i>	\$10,511.00 US
M-P1570	Database import Zoller Pilot 3 One-time import of XML files from a Zoller device using Pilot 3.0 software <i>*File must be provided in XML Zoller format!</i> <i>**Obligation of the customer to cooperate. Third-party costs may apply.</i>	\$2,675.00 US
M-P4020	Direct Photo Storage External camera from Microset for taking pictures of tooling and directly storing in the tool data	\$1,393.00 US
M-Z2074	Backup System Pro Incl. software for manual or automatic backup of data and images	\$4,015.00 US

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	SSD Drive for storing data and image files UPS System to protect critical components and the control electronics for under/over voltage interruptions	
M-Z2075	Backup System Basic Incl. software for manual or automatic backup of data and images	\$1,362.00 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-P5014	Microvision DEMO Dongle Allows the licensing of the Microvision, as well as its modules, to be limited in time. Activation of locked functions by transmitting and entering an unlock code. ** Requires min. Microvision Software 7.2.0.11	\$554.00 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 or sales team for additional options!

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 **customer is under obligation to cooperate, or third-party costs may apply	\$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 **customer is under obligation to cooperate, or third-party costs may apply	\$15,344.00 US each interface
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 – must purchase M-P1506 - Required information RFID Manufacturer (Balluff, Euchner, Pepperl+Fuchs) RFID Code Tags/chips part number(s) – e.g. Balluff, BIS C-122-04/L) **customer is under obligation to cooperate, or third-party costs may apply	\$10,762.00 US
M-P1505	RFID Technology automatic	\$18,853.00 US

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	tool identification and data chips - read-write unit for RFID chips - e.g. Balluff, Euchner, Pepperl+Fuchs - data format to be ordered separately – must purchase M-P1506 - Required information RFID Manufacturer (Balluff, Euchner, Pepperl+Fuchs) RFID Code Tags/chips part number(s) – e.g. Balluff, BIS C-122-04/L) **customer is under obligation to cooperate, or third-party costs may apply	
M-P1563	RFID technology ISS Balluff automatically Integrated reading unit in the ISS spindle for reading the head bolt of different RFID chips for Balluff BIS M systems. Identify: - ISO, BT, ANSI, CAT 40 with RFID chip in the head bolt for BIS M systems. - ISO, BT, ANSI, CAT 50 with RFID chip in the head bolt for BIS M systems. ** Requires a suitable ISS adapter. ** Only in combination with ISS spindle and PPLH-7 clamp: M-S1029, M-S1030, M-S1032 and M-S1033. ** Not in combination with M-I1016. //Obligation of the customer to cooperate. Third-party costs may apply	\$18,853.00 US
M-P1506	RFID technology for any other, single data format Customer MUST supply completed RFID info EN V4 at time of order placement including sample RFID chip with machine too, written data, and screen shots as outlined in form RFID info EN V4 If not possible at time of order placed – order for M-P1506 MUST be placed on separate purchase order **customer is under obligation to cooperate, or third-party costs may apply	\$3,082.00 each format
M-P1536	Additional manual RFID read and write unit for Balluff **Only in combination with an automatic RFID system **customer is under obligation to cooperate, or third-party costs may apply	\$2,675.00 US
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. *Does not work with all controls, please consult with HAIMER USA's technical department	\$7,454.00 US

Reducers/Adapters - Most common tapers listed, contact Haimer USA office or sales team for additional options!

M-R1000	ISO50 : ISO, BT, BBT, ANSI, CAT 40 Note – reduction of setting length 20 mm (0.79 in)	\$1,353.00 US
M-R1070	ISO50 : HSK ACET 25 / BDF 32 Note – reduction of setting length 50 mm (1.97 in)	\$2,488.00 US
M-R1034	ISO50 : HSK ACET 32 / BDF 40 clamping Note – reduction of setting length 50 mm (1.97 in)	\$3,989.00 US
M-R1035	ISO50 : HSK ACET 40 / BDF 50 clamping Note – reduction of setting length 60 mm (2.36 in)	\$3,989.00 US
M-R1036	ISO50 : HSK ACET 50 / BDF 63 clamping Note – reduction of setting length 70 mm (2.76 in)	\$3,989.00 US

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M-R1037	ISO50 : HSK ACET 63 / BDF 80 clamping Note – reduction of setting length 80 mm (3.15 in) *Does not apply for HSK 80F “Makino” taper, contact office for quote	\$3,284.00 US
M-R1038	ISO50 : HSK ACET 80 / BDF 100 clamping Note – reduction of setting length 90 mm (3.54 in)	\$3,989.00 US
M-R1039	ISO50 : HSK ACET 100 / BDF 125 clamping Note – reduction of setting length 110 mm (4.33 in)	\$3,989.00 US
M-R1048	ISO50 : PSC 63 clamping - IKZ Note – reduction of setting length 120 mm (4.72 in)	\$5,221.00 US
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-R4070	ISS adapter for HSK-E25	\$8,225.00 US
M-R3024	ISS adapter for HSK ACET 32 / BDF 40	\$5,473.00 US
M-R3025	ISS adapter for HSK ACET 40 / BDF 50	\$5,473.00 US
M-R3026	ISS adapter for HSK ACET 50 / BDF 63	\$5,473.00 US
M-R3027	ISS adapter for HSK ACET 63 / BDF 80 *Does not apply for HSK 80F “Makino” taper, contact office for quote	\$4,955.00 US
M-R3028	ISS adapter for HSK ACET 80 / BDF 100	\$5,473.00 US
M-R3029	ISS adapter for HSK ACET 100 / BDF 125	\$5,473.00 US
M-R3032	ISS adapter for PSC 63 – IKZ	\$13,487.00 US

Technical Data

M-G1035.US - 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-G1036.US - Type VIO 20/70 linear Microvision

Adjustment Ø 420 mm, Measuring 700 mm

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

M-G1037.US - Type VIO 20/100 linear Microvision

Adjustment Ø 420 mm, Measuring 1000 mm

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

M-G1038.US - Type VIO 35/50 linear Microvision

Adjustment Ø 700 mm, Measuring 500 mm

Weight: up to 600 kg, Measure without arm (B/L/H): ca. 610/1200/1750 mm

M-G1039.US - Type VIO 35/70 linear Microvision

Adjustment Ø 700 mm, Measuring 700 mm

Weight: up to 600 kg, Measure without arm (B/L/H): ca. 610/1200/1950 mm

M-G1040.US - Type VIO 35/100 linear Microvision

Adjustment Ø 700 mm, Measuring 1000 mm

Weight: up to 600 kg, Measure without arm (B/L/H): ca. 610/1200/2250 mm

M-G1041.US - Type VIO 50/50 linear Microvision

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Adjustment Ø 1000 mm, Measuring 1000 mm

Weight: up to 600 kg, Measure without arm (B/L/H): ca. 610/1350/1750 mm

M-G1042.US - Type VIO 50/70 linear Microvision

Adjustment Ø 1000 mm, Measuring 700 mm

Weight: up to 600 kg, Measure without arm (B/L/H): ca. 610/1350/1950 mm

M-G1043.US - Type VIO 50/100 linear Microvision

Adjustment Ø 1000 mm, Measuring 1000 mm

Weight: up to 600 kg, Measure without arm (B/L/H): ca. 610/1350/2250 mm

All models fully equipped with:

- Image Processing System Microvision with the following features:
 - PC Technology, Windows 10 Professional
 - Standard PC Pentium, CPU Intel Pentium G870 / LGA1155 / Box, 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
 - Heidenhain glass scales
 - 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
 - Unlimited tool database, memory of the tools with picture, technological parameters
 - Operator management – create different authorization levels for operators
 - Wide features for backup and data management
 - Sigma function
 - Release-by-touch hand grip
 - Absolute-, difference- and increment display, Radius/Diameter-Switch
 - Interfaces: Ethernet-card, USB and RS232 ports
- ISO50 High Precision spindle motorized "Autofocus," with vacuum clamping, concentric runout accuracy 0.002mm, motorized indexing 4 x 90° and 3 x 120°
- Linear drives in X and Z axes for maximum positioning accuracy and dynamic performance
- Manual operation with CNC mode for X- and Z- axis (optimal ease because of positioning)
- Collision safety system (minimum velocity: 180 mm/s)
- 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
- 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: 100 V - 115 V + 230 V
- Electrical power consumption: 140 VA max.
- Pressure min. 87 psi to 116 psi max.
- Air consumption max. 10 liters per hour (depending on the equipment and the work cycles)

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- Weight: up to 800 kg, Measure without arm (w/l/h): ca. 610/1050/1750 mm
- Device Color: Standard HAIMER, titanium gray, calcite white
- Label Printer for label printing
- Calibration Master

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

Terms:	Net 30 days (subject to credit approval) – FOB Villa Park, Illinois. All prices quoted as U.S.D.
Delivery:	12 - 14 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)
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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