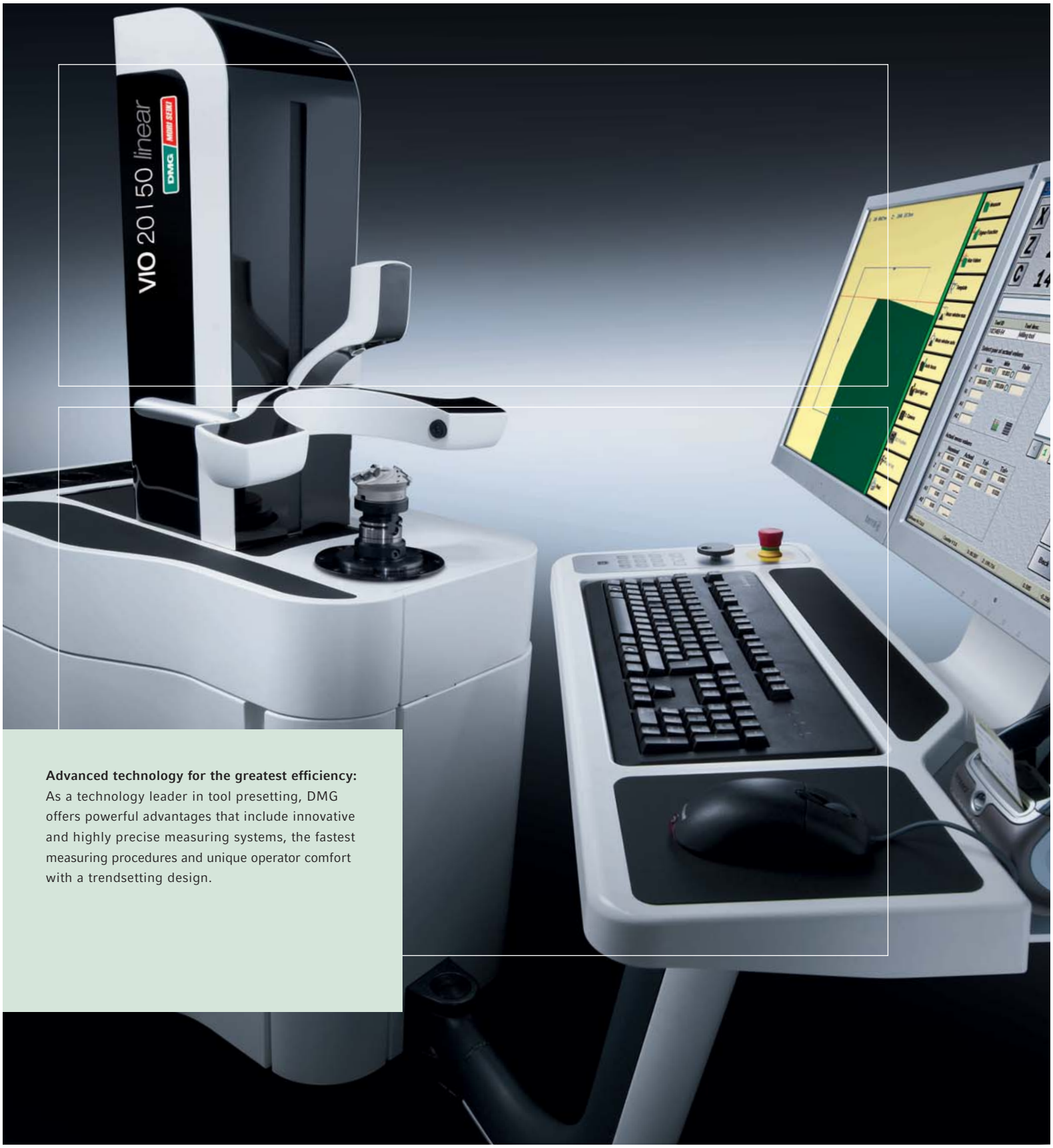
DMG Service Solutions

Tool presetting with highest precision and speed

DMG Microset

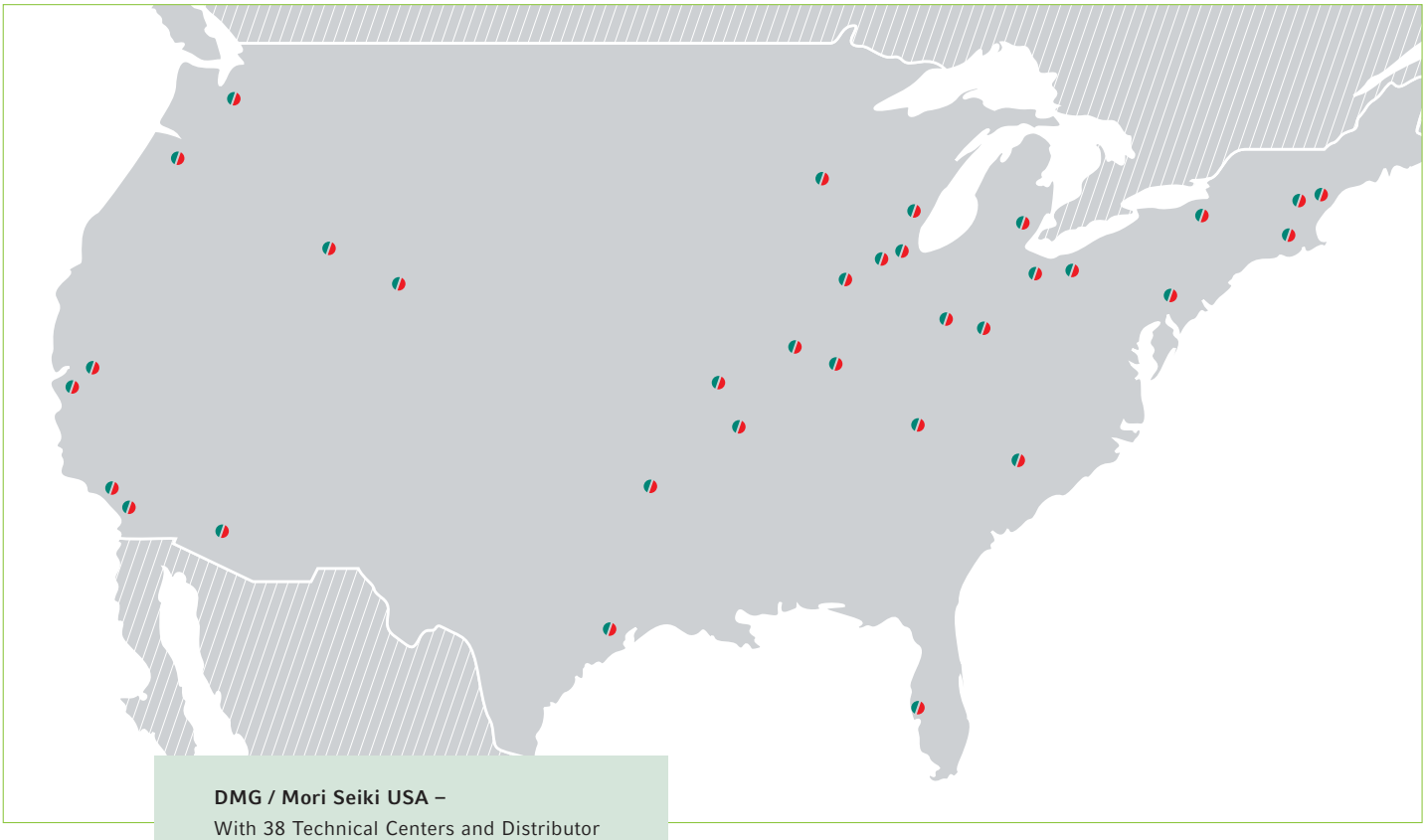
DMG



Advanced technology for the greatest efficiency: As a technology leader in tool presetting, DMG offers powerful advantages that include innovative and highly precise measuring systems, the fastest measuring procedures and unique operator comfort with a trendsetting design.

DMG Microset – Expertise in tool presetting.

With many years of experience in the market and unique expertise, DMG Microset has a versatile, flexible and broad range of solutions for tool measuring. Whether for vertical and horizontal devices or custom solutions, DMG Microset satisfies all application needs and offers the perfect solution for various tool sizes and machine environments. Detailed information is available online at www.dmg-microset.com.



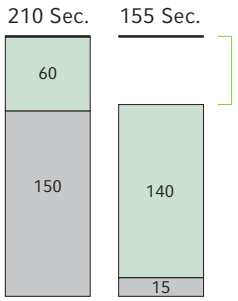
DMG / Mori Seiki USA –
With 38 Technical Centers and Distributor Locations, we always have someone close by to lend a hand.

External tool presetting – Save time and money.

The highly efficient tool presetting devices from DMG Microset are the most productive and efficient. Presetting parallel to production time leads to significant time savings: Setup times are optimized and machine downtimes are significantly reduced.

Improved tooling with safe, early detection of damaged tools reduces the number of rejected parts and enhances quality. Cutting inspection guarantees the highest processing safety, starting with the first workpiece.

Setup of a face-milling cutter without a presetting device



Approximate measurement of lengths and diameter with a calliper

Machine setup*

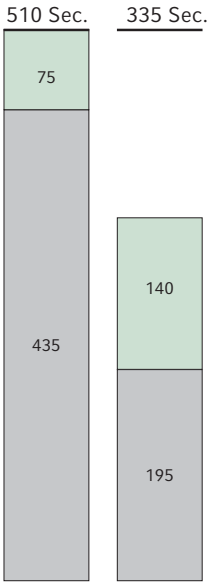
Setup of face-milling cutter with DMG Microset

A 26% time savings

External tool measurement**

Match tool data to the machine

Setup of a drilling tool without a presetting device



Approximate setup of a drilling tool with a calliper

Machine setup*

Setup of drilling tool with a DMG Microset presetting device

A 34% time savings

External tool measurement**

Match tool data to the machine

* Define tools // Length and diameter marking // Enter diameter correction into the control

** Measuring of length and diameter on presetting device // Define control-specific tool parameters // Transfer of tool data to the machine

DMG Microset Service – Comprehensive consulting and support.

DMG Microset's precise tool presetting supports you in all required steps to help you achieve maximum profitability and processing quality. If desired, we analyze your production environment to optimize processes and put your DMG presetting device into professional operation. We also offer you individual financing packages, education and training possibilities, as well as tailored service and maintenance for your machine.

Support over the entire life cycle of your machine:

Maintenance and support

On-site service, DMG Original Spare Parts, maintenance packages, calibration, laser compensation and geometry measurement.

Consulting

Analysis of operational procedures, special measurement tasks, workflow optimization, live demonstrations and financing advice.

Setup

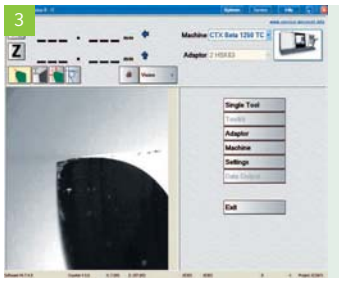
Inspection of measuring precision and geometry, and setup of data transfer. Training as needed.

|1| Consulting:
Comprehensive consulting for technology, workflows and financing
|2| Setup:
Expert start-up and orientation
|3| Maintenance and support:
On-site service, DMG / Mori Seiki – One call support

UNO 115 *eco* – Best price / performance ratio in its class.

For tool measurements up to ø 9.1 in. and measuring lengths up to 14.6 in. the UNO Series is optimally suited to be a stand-alone solution for entry-level machining. Proven components like the Edge-Finder for fast positioning of the tool cutter in the measuring window and the stable cast-iron tool bed are key features of the DMG Microset. Comprehensive measuring functions, including the cutting inspection capabilities of the Microvision II IT image processing software, are unparalleled in their class. The UNO 115 *eco* presetting device assures long-lasting, consistent processing quality at an unbeatable price.

|1| Edge-Finder for fast positioning of the tool edge in the standard version |2| Microvision II IT with a 19" screen |3| Reflected light blade inspection with MV II IT software



Highlights

_ Robust device with minimal space requirements
_ Microvision II IT image processing with comprehensive measuring functions
_ Laser Edge-Finder for fast focusing of the tool edge
_ Pneumatic axis clamping in both axes
_ Free-moving linear guidance systems
_ Incremental measuring system with glass scales
_ CMOS digital camera with a telecentric lens

Options

_ Data transfer with a post processor
_ Indexing device for turning tools
_ Floor cabinet and tool / adapter storage
_ Thermal printer
_ Reflected light blade inspection

VIO 210 – The universal presetting device.

For tool measurements of ø 16.5 in. and measuring lengths of 18.3 / 27.6 in., the proven VIO 210 Series is adapted to meet challenging requirements. The stable ribbed and warp-resistant cast-iron tool bed is of the highest quality. Cutting coverage precision is achieved with the blade using a high mega pixel camera, and Microvision II IT and Microvision III intelligent image processing software. With the ETT (easy tool data transfer) software, tool data can be quickly transferred, without errors, to the machine control.

|1| Keypad for exact and comfortable setup
|2| Second camera
|3| VIO 210 with MV III

Highlights

_Easy handling with intelligent image processing
_Single-handed operation with infinite fine adjustment in the X- and Z-axis
_Laser Edge-Finder for fast focusing on the tool edge
_Highest repeat measuring accuracy
_Free moving linear guidance systems
_CMOS digital camera with a telecentric lens
_Stable cast-iron construction

Options

_Touch screen for easy operation
_Second camera for fulcrum measurement
_Vacuum clamping
_ISS spindle
_Pneumatic spindle brake
_Pneumatic indexing for turning tools
_Data transfer (Balluff, postprocessor or ETT)

Available image processing

_Microvision II IT / III

VIO – The modular series with superior performance.

The new VIO Series will captivate you with high-tech features that come standard. As a modular concept with an ergonomic design, the VIO Series was awarded the 2010 iF product design award, beating every other tool presetting device design in productivity and flexibility. Freely selectable measuring lengths in X- and Z-axis, numerous automation solutions and additional options can meet the most unique client demands. Whether as a basic VIO version or premium VIO *linear* version, this series will captivate you with efficiency and flexibility at an attractive price.

Global leader with:

- a Servo manual operation for optimal ease-of-use
- b High quality components (e.g. ISS precision spindle)
- c Linear drives for speed and precision (only VIO *linear*)
- d Flexible and user-friendly control panel
- e Unique ergonomics
- f High performance software MV II IV or MV IV

Sizes / Series (X-, Z-axis in in.):
20: 8.3 / 19.7, 8.3 / 27.6, 8.3 / 39.4
35: 13.8 / 19.7, 13.8 / 27.6, 13.8 / 39.4
50: 19.7 / 19.7, 19.7 / 27.6, 19.7 / 39.4

VIO basic version –
Absolute flexibility and reliability.

The VIO Series is adapted to measure all tools. It is compatible with the machine tools of every manufacturer, and covers even the most unique requirements with numerous options. The basic version, with a manual operating concept, comes standard with glass scales, linear guidance systems and the MV III high performance software. Unique features of this design include the flexible retrofitting possibilities.

|1| Single handed operation for servo manual procedures
|2| Optional: Second camera for rotation center positioning
|3| Control console pivoting range

Highest stability and precision

The thermo-optimized, cast-iron construction of the VIO Series enables long-term measuring precision. Highly dynamic linear drives and laser measuring of the tool geometry assure highly precise, long-term quality. The parallel drive and guide systems ensure optimal force distribution and guarantee a repeat measuring accuracy of ±0.00004 in.

Excellent Ergonomics

The VIO Series also sets new standards for ergonomics. The highly advanced design features a pivoting control console, free access to the spindle as well as intuitive and easy handling.

Highlights

_ Warping no greater than 0.0001 in 0.0001 in. with maximum loading
_ Vibration damping material
_ Robust, durable basic construction
_ Thermo-optimized material combination
_ High dead weight

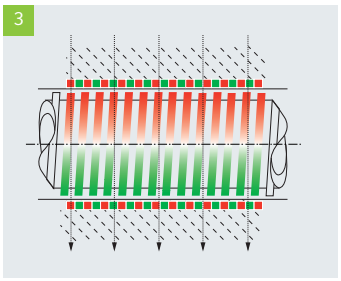
Highlights

_ Pivoting control console
_ Servo manual operation
_ Central control unit
_ Integrated tool storage
_ Vibration-free operator console

product design award 2010

VIO *linear* – Highest precision and speed.

Maximum ±0.00004 in. repeat measuring accuracy and up to 25% faster measuring cycles, which are unmatched in the market. This impressive performance is possible for the first time as a result of tool presetting in the linear drives. The series sets additional standards for image processing – and also for the most unique customer requests. The design was awarded the coveted 2010 iF product design award.



|1| Precision spindle with the HSK 63 tool holder
|2| Perfectly adjusted drive and guide design
|3| Function principle of the synchronous linear motor

Precision spindle

High precision spindles stand for precise and reproducible measuring results. In order to satisfy the highest demands for rotation precision and fast exchange of the inserts, the VIO *linear* has been equipped with an innovative, high quality precision spindle.

Performance and pure dynamics

Precise tool presetting with the VIO *linear* Series enhances productivity and precision in machine tool operations, thus opening new dimensions. Maximum speed of more than 7.1 in. / sec. and an axis positioning accuracy of ± 0.00004 in.

Highlights

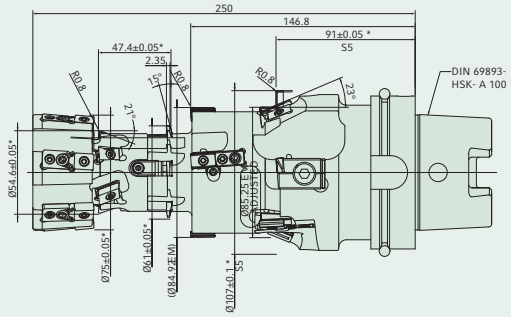
_ High precision with the direct measuring system
_ Indexing with 0.001° resolution
_ Universal direct clamping system
_ Quality bearing with high basic load rating (1,214.0 lbf.)
_ High torque for heavy tools
_ Mechanical clamping force of 1,124.0 lbf.

Highlights

_ 67x magnification
_ Repeat measuring accuracy of ±0.00004 in.
_ µm accurate positioning
_ Closed loop bearing control in all axes
_ Auto focus with 20% faster visualization
_ Pivoting second camera

Highest flexibility for varying applications and sizes:
The VIO Series offers tool presetting devices for every user. With size flexibility, freely selectable axes and options, DMG Microset offers the right device for your demands.

1



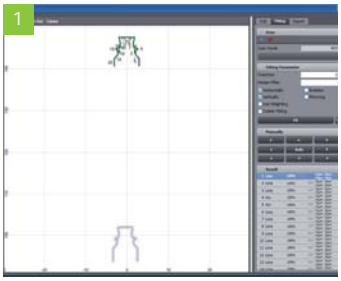
2

Optional VIO *scan* – Simple target-performance comparison of the tool contours

The new VIO *scan* for the VIO *linear* Series guarantees the highest quality. The contour of all tools and workpieces can be measured precisely. A target-performance comparison with the original DXF contour drawing can be printed as a report to confirm quality. This option is available for all VIO *linear* Series devices.

|1| Original DXF contour drawing |2| Special tool from the automotive industry

1



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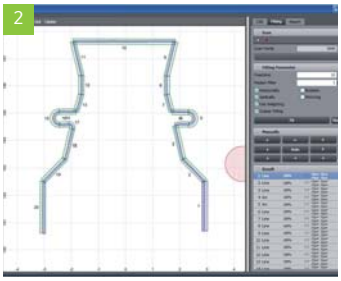

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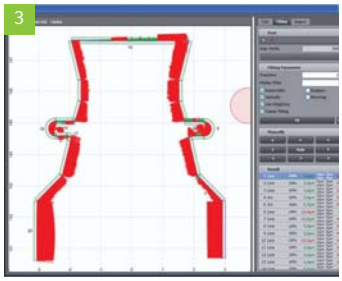


|1| Reference contour and scanned contour
|2| Contours are automatically fitted
|3| Contour deviations are automatically marked

Optional tailstock

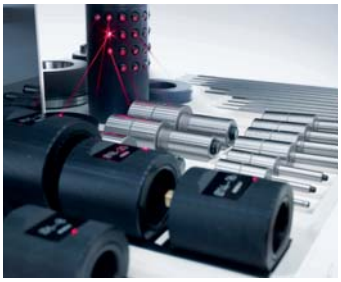
The VIO Series devices can be immediately equipped with a tailstock. This option assures absolute parallelism and rotation precision for the measuring of larger turning tools.

VIO *linear* toolshrink – Measure, position and shrink tools.

In comparison with other conventional devices, the VIO *linear* leads to time savings with the toolshrink design and the integrated shrink unit. The linear drives allow an extremely fast and µ-accurate positioning of the axes, while also protecting the tool and shrink coil. The exchange of spool elements is no longer necessary. Neither is the automatic unshrinking of tools with larger shafts as a cutter diameter. Consequently, you are offered the easiest handling in this class. The intuitive operator guide also ensures fast integration in the plant and long-term advantages for the user. The tool presetting devices of the VIO *linear* can be retroactively equipped with “toolshrink”.

Highlights

_ Optimal shrink results independent of the mount brand
_ Excellent handling
_ Faster / more precise axis positioning with the linear drive
_ Protection of the inductor unit (does not have dead weight)
_ Access to the service flap without disassembling a unit



Pick by Light for correct selection of exchange parts

Technical Data

_ Traverse path of slide unit / inductor including linear drives: 22.4 in.
_ Shrink chuck temperature: max 350° C
_ Warming time: Approx. 4 seconds
_ Tool diameter: 0.2 – 1.3 in.
_ Material shrink chucks: Hard metals and HSS
_ Induction shrink capacity: 13 / 20 KVA
_ Cooling times: 30-60 seconds
_ Automatic control of the shrink parameters

AIRMATRIX – Absolute precision for universal tool measurements.

AIRMATRIX offers an entirely new dimension in tool presetting. The new Airdrive Technology assures unique precision in tool presetting. The advanced procedure allows unlimited measuring of diverse tools and erases differentiation in horizontal and vertical presetting devices. The recording unit can be freely positioned over an air lubricated bearing on the precision glass plate and driven up from every side to the horizontally insertable tool.

Highlights

_ Unrivalled precise tool measuring with the new Airdrive design
_ Unique construction makes measuring of all turning and milling tools possible
_ Flexible traverse paths and measuring possibilities with free-moving camera holders
_ Intuitive operation with automatic cutter detection
_ No mechanical wear and very little maintenance
_ Robust device due to a non-temperature sensitive design

Precision in new dimensions

Precise positioning is achieved with a data matrix code. Furthermore, the construction relies on minimal software compensation with little tolerance compensation to produce the most exact measuring values.

Highlights

_ Coded glass plate as a reference for the X- and Z-axis for maximum dynamics and positioning precision
_ Minimal processing tolerances

Data matrix coding for exact positioning

Precise sensor technology for flexible handling

Easy and flexible handling

The freely movable recording unit is equipped with two CMOS cameras and can measure almost all turning and milling tools. When combined with automatic edge identification, the concept leads to fast and accurate presetting.

Highlights

_ Fastest measuring results
_ Easy manual operation of the camera holder with an air storage system
_ Universal application: Measuring of turning and milling tools

No wear

AIRMATRIX is suitable for applications in almost all climates due to its temperature-resistant components. When compared to conventional designs, minimal mechanical components makes the device almost maintenance free.

Highlights

_ Robust construction for all climates
_ Minimal maintenance required
_ Spindle with mechanical clamping (5,000 N)
_ Reference disc instead of glass scales in the X and Z direction

Measuring system and coordinate classification in one component

Microvision – The highest measuring precision and efficient data handling.

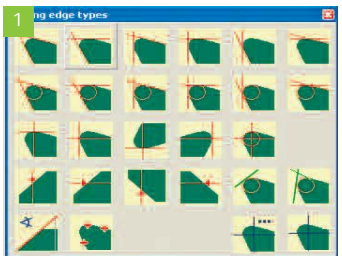
The Microvision image processing system gives users a high cost savings potential in job preparation with fast and precise measuring, independent of the operator and tool setup. High effeciency imaging assures maximum quality in the manufacturing process. Tool edge detection is performed with an advanced CMOS camera, and the setup and measuring is done on a user-friendly screen. Advanced measuring procedures allow complex tool measuring in no time.

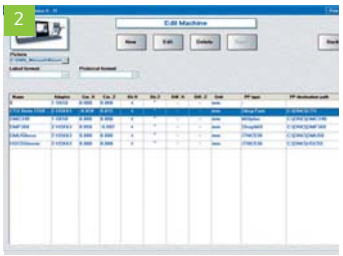
|1| Possible tool edge molds
|2| Machine data management
|3| Measuring process for a 4-blade tool

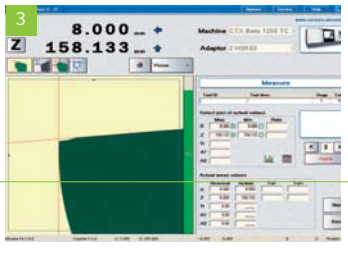
Image processing for beginners.
For precise measuring and setup of the tools.

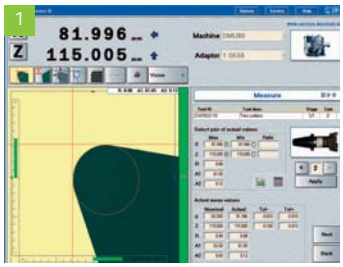
Microvision II IT

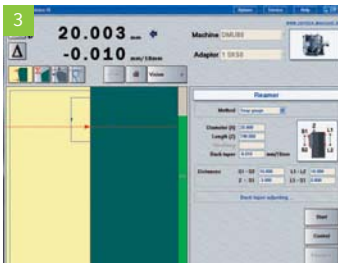
_19" screen
_33x magnification
_Comprehensive measuring functions
_Template functions
_Fixed / overhung cross hairs (automatic measuring)
_Automatic contour detection
_Measurable multiple cutter tools (cutter heads)
_Measuring window freely definable
_Zero point control
_Available for UNO 115 eco, VIO 210



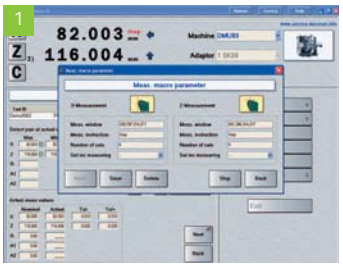


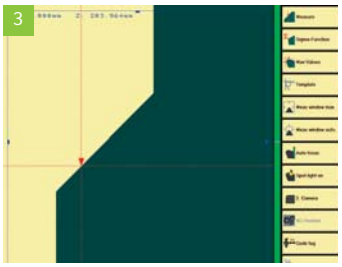


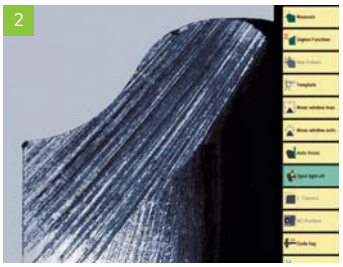




|1| Analog setup bars for simplified precision tool setup
|2| Cutter head program
|3| Special measuring program “Reamer”







|1| Measuring program for over-sized tools
|2| Cutter inspection for surface inspection of the tool cutter
|3| Measuring of the Z coordinates with the default X values

The MV III software, developed by DMG, offers intuitive operations with an advanced user interface.

Microvision III

_CMOS digital camera with a telecentric lens
_19" screen
_33x magnification
_Edge inspection with live image display
_Automatic edge recording with contour analysis
_Large standard modules for all important measuring tasks
_Sigma functions for the measuring of moulding tools
_Measuring window at approx. 0.2 x 0.2 in.
_Unlimited tool data and zero-point memory
_Multi-user capable user management
_Data backup, remote maintenance
_Available for: VIO 210, VIO

Options

_19" touch screen
_Post processor for transfer
_ETT // Easy tool data transfer for bidirectional transfer of tool data
_Modules for tool identification systems (e.g. Balluff)
_Connection to external tool management
_CAD / CAM interfaces

Fully automatic measuring with multiple options. Includes two 19" screens and up to 67x magnification.

Microvision IV

_2x 19" screens CMOS digital camera with a telecentric lens and 67x enlargement
_Fully automatic measurement of tools
_Edge inspection with live image display
_Measuring window approx. 0.2 in.
_Intuitive user interfaces for the shortest measuring cycles
_Multi-user capable operator management
_Process safety with automatic adapter detection
_Available for: VIO *linear*

Options

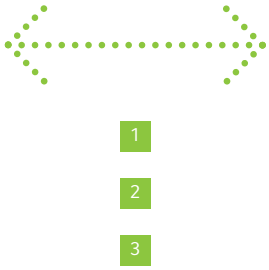
_Bidirectional data transfer
_ETT // Easy tool data transfer for simple data transfer to the machine tool
_Integration of tool management systems
_Support for tool identification systems
_2x 19" touch screen
_VIO *scan* contour recording (for VIO *linear* with MV IV)

Data transfer to the machine – For absolute process safety.

DMG offers the possibility of data transfer to the machine for each of your tool presetting devices. Machines can be connected with Fanuc, Siemens or Heidenhain controls via a post processor. Heidenhain controls can be connected with the practical Easy Tool Transfer (ETT) for Microvision III / IV.

Optimal data transfer for machines of all manufacturers and model years.

Tool presetting



Workpiece processing

1

ETT / DNC protocol

With a DNC protocal, bidirectional access to the CNC control is possible. Tool offsets will be stored in the memory of the machine with the touch of a button.

2

Post processor / Ethernet

Both programs are transferred via the network to the CNC control. Simple import to the controls, tool offsets and additional automatic inputs are available.

3

Serial interfaces

Generally, process safety is not dependent on the model year of the machine. DMG Microset can support almost every control with tool data via a serial interface, such as the V 24.

DMG Microset Partnerships – We cooperate, you profit.

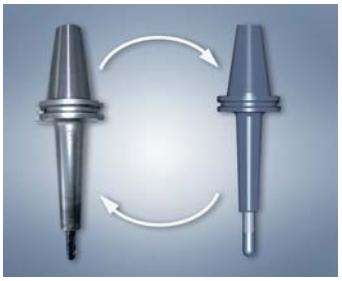
Through strong partnerships, DMG Microset can offer you an unrivalled, broad product range for tool presetting and measuring. Efficiently personalized for your specific production requirements. Take advantage of the benefits that come with having a single contact partner for all your needs.

Tebis ToolControl - Complete process safety

Tools selected by NC programming are not always available 1:1 in presetting. Alternative, similar tools increase the danger for collision. DMG Microset tool presetting devices scan the tools automatically and transfer the data to TebisControl software. With this, real data simulation and collision examination are conducted. This eliminates costly repairs and machine downtimes while increasing unsupervised run time.

Highlights

_ Collision safety
_ Increases machine running time
_ Fast cycle times
_ Reduced personnel needs



Walter Maschinenbau – Precision in new dimensions

The cooperation between DMG Microset and Walter Maschinenbau GmbH enables both manufacturers to offer the entire spectrum of tool measuring from one source for the first time ever. WALTER is among the leading producers of high quality measuring machines and perfectly complements the range of presetting tools from DMG Microset. Your advantage - Leading technologies for a competitive advantage.

Highlights

_ Leading producer of top class measuring machines
_ Contact-free and fully automatic, complete measuring
_ Most precise measuring performances with impressive E1 values
_ Temperature resistance for optimum measuring performance with a massive granite base

Adapter / Spindles – Reliable solutions for any situation.

High quality adapters and spindles are important for precise tool presetting. DMG Microset offers an extremely broad range of choices, ensuring that handling of these parts is easy and efficient. We advise you on your individual requirements and application needs.

|1| HSK 63 adapter with manual clamping
|2| VDI 40 adapter with manual clamping
|3| Capto adapter with integrated manual clamping systems

Adapter

From the standard tool holder to the customer-specific special tool holder, DMG Microset offers a solution for every situation. You benefit from our many years of experience in special tool construction.

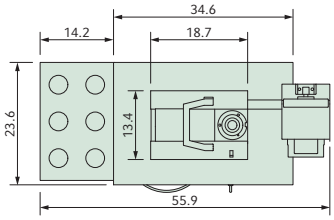
|1| Universal clamping system
|2| Head bolt independent clamping system for SK tools
|3| Pneumatic HSK-clamping system

Spindles

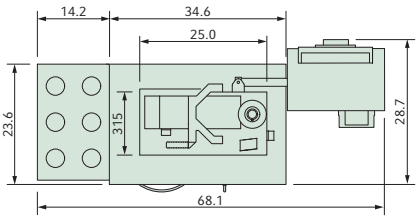
DMG Microset offers universal clamping systems, independent of head bolt geometry, that clamp precisely and reliably. You can also obtain attachment holders for all customary tool pickup systems from DMG Microset.

Floor Plans

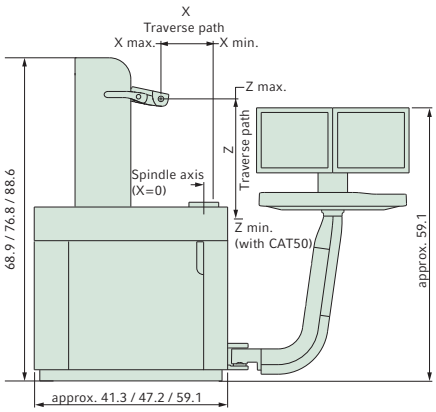
UNO 115 *eco*



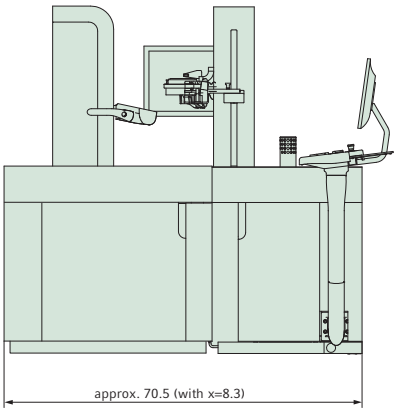
VIO 210



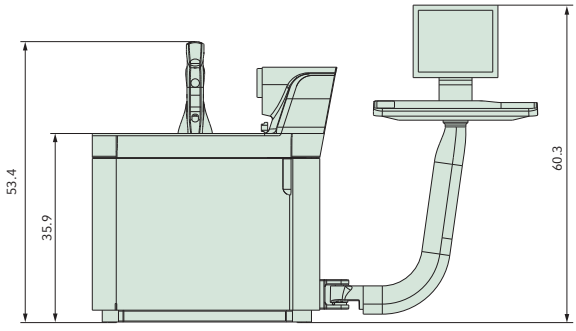
VIO *linear*

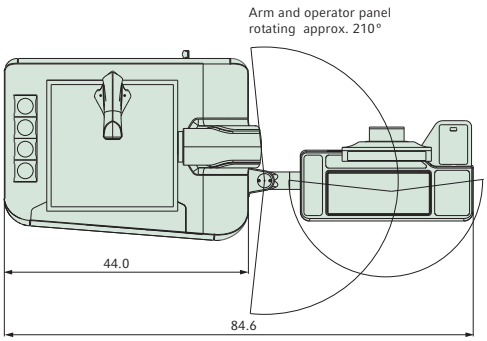


VIO *linear* toolshrink



AIRMATRIX





Measurements in inches

Technical Data

		UNO 115 *eco*	VIO 210	VIO / VIO *linear*	AIRMATRIX
Maximum tool diameter		9.1	16.5	39.4	15.7
Precision spindle Steep taper ISO 50		•	•	○ *	•
Spindle break		○	○	•	○
4 x 90° indexing for turning tools (e.g. VDI)		○	○	•	○
Vacuum clamping		–	○	○	–
ISS spindle (mechanical clamping)		–	○	○	–
Turret table for adapter uptake (diameter in in.)		–	–	–	–
Operation		Manual	Manual	Manual / Motorized	Manual
Linear drives in X and Z		–	–	○	–
Second camera		–	○	○	•
Movable Y-axis		–	–	○	–
Rotation precision on the spindle nose		.000008 in.	.000008 in.	.000008 in.	.000008 in.
Repetition precision		0.0002 in.	.000008 in.	.000004 in.	±.000004 in.
Available software – image processing		MV II IT	MV II IT / MV III	MV III / MV IV	MV V
Weight	lbs.	143.3	540.1	992.1 / 1,157.4 / 1,322.8	859.8
Software characteristics					
Image processing - Microvision (MV)			**MV II IT**	**MV III**	**MV IV**
Screen size			19"	19"	19"
Camera system (CMOS) with a telecentric lens			•	•	•
Touch screen			–	○	○
Display precision			0.001	0.001	0.001
Live image cutter inspection (enlargement)			33x	33x	67x
Measuring functions					
Maximum function			•	•	•
Cross line stable / movable (automatic measuring)			•	•	•
Sigma function (contour analysis)			•	•	•
Multi-cutter tools			–	•	•
Rotation			•	•	•
Reamer program			–	○	•
Radius / Angle			•	•	•
Distances			•	•	•
Retaining function			•	•	•
Absolute / Difference / Chain dimensions (Display in inches)			•	•	•
Template functions - templates			•	•	•
VIO *scan*			–	–	•
RFID systems (e.g. Balluff)			–	○	○
Measuring window freely definable			•	•	•
Zero-point control			•	•	•
Storage for adapter / machine zero-points			Unlimited	Unlimited	Unlimited
Tool storage			–	Unlimited	Unlimited
Graphics library for tools			–	•	•
Tooling sheet - tool kits			–	•	•
User rights			•	•	•
Data display					
Label printer			○	○	○
Control rights display via RS-232			–	○	○
Control rights display via USB			○	○	○
Control rights display via Ethernet			○	○	○
Control rights display via WLAN			–	○	○

* Optional CAT 50 precision spindle or ISS spindle

• = Standard, ○ = Optional, – = Not available

DMG Microset product overview – Tool presetting for every requirements.

A tool presetting device has a number of advantages for every user, such as time-saving setup procedures. In this context, an adequate price / performance ratio is as important as satisfying the customer's demands. Whether single products, vertical, horizontal or universal devices - DMG Microset offers the right solution for all application areas and all tool sizes: Presetting devices from DMG Microset are superior in their quality, stability, precision and functionality.

The right tool presetting device for your requirements.

The selection of the right tool presetting device greatly depends on the maximum measurements of the applied tools. Even the desired level of measurement automation is critical. Is a data transfer to the machine controls necessary? Will certain measuring procedures, such as the practical Sigma function or VIO scan, be necessary? Do you prefer comfortable operation of your machine? DMG Microset has the right solution for configuration needs.

UNO115 ***eco*** **//** MV II IT
Measuring lengths:
X-axis 4.5 in.,
Z-axis 14.6 in.

VIO 210 // MV II IT / III
Measuring lengths:
X-axis 8.3 in.,
Z-axis 18.3 / 27.6 in.

VIO // MV III
VIO ***linear*** **//** MV IV
Measuring lengths:
X-axis 8.3 / 13.8 / 19.7 in.,
Z-axis 19.7 / 27.6 / 39.4 in.

AIRMATRIX
Measuring lengths:
X-axis 7.9 in.,
Z-axis 19.7 in.

Series / Sizes (measurements in inches):
20: 8.3 /19.7, 8.3/27.6, 8.3/39.4
35: 13.8/19.7, 13.8/27.6, 13.8/39.4
50: 19.7/19.7, 19.7/27.6, 19.7/39.4

Configure your DMG Microset tool presetting device online! http://configurator.dmgmicroset.com/en

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