ΩMEGA TMM

2022 CATALOG

WORLD CLASS TOOL MEASURING AND MANAGEMENT SOLUTIONS

MADE IN USA

WE ARE YOUR TOTAL SOLUTION

Highly Innovative

Customer-Driven

Made in the USA

Privately Owned Since 1948

Top Workplace Employer

Worldwide Exporter

ISO Certified

We are Omega TMM, the final word in tool presetting, inspection and tool management solutions where our passion is your production. Our machines and solutions are proudly designed, manufactured, and assembled in the USA and are the most accurate, reliable, and repeatable measuring machines for shop floor management on the market. The Omega TMM "customer-centric" mentality is where it all begins, from research and development to design, to manufacturing to after-sales service, everything we do is laser-focused on creating an outstanding customer experience.

GREAT PEOPLE

The most experienced employees in the industry. We invest in our people – our team goes through extensive training to understand your business. Our service people and staff are all located in North America. From the time you first meet with us, we are there to serve you for a lifetime relationship.

DEDICATED PROCESS

We believe in improving the process. From our Big Q meetings to daily 903 meetings – yes, we have a daily meeting to talk about YOU and how we can do it better. Our goal is for you to be 100% satisfied with your purchase. We are committed to you for the long term. Our team of experts will provide you with the right solution for your project.

CUTTING-EDGE TECHNOLOGY

Award winning technology. We listen to your needs and respond whether it is a presetter, inspection machine, accessory or our latest 2D Matrix 4.0 solution. It is all for you to measure precisely, accurately, and more reliably to save you money, time, and let you focus on your real business.

PRESETTER COMPA

Meet the Presetter: Hub of Innovation

With 12 presetter and inspection system lines, Omega TMM is the final word in presetting and inspection. Our presetter and shrink set machines proudly manufactured and assembled at our USA world headquarters in Fairport, New York, are the most accurate, reliable and repeatable machines on the market. Omega TMM has evolved from decades of leadership in the tool holder and presetter business, formerly known as Parlec Inc.

"Which presetter is right for my business?"

Here at Omega TMM we use a consultative approach to better understand what solutions are right for you and your business process. Business operations are different at all facilities and Omega TMM can offer a customized solution that specifically fits your business needs.

- RYAN MELEG, EVP SALES

LEGEND	
STANDARD	✓
OPTIONAL	●
NOT AVAILABLE	✗

3 Axis CNC	
Universal Power Clamping Spindle	
Taper 50 Spindle	
Auto Focus	
Virtual Control Device	
Perfect Set Height Adjustment	
RFID Tool Identification	
Data Output/Post Processing	
AAIM Profiling Software	
Mobile Command Center	

MADE IN USA

ARISON

SOLIS	HELIOS	FORTIS	FORTIS XL	EXACTUS LITE	EXACTUS	EXACTUS XL	ORIGIN
✓	✓	●	●	✗	●	●	✗
✓	✗	✓	✓	✗	✗	✗	✗
✗	✓	✗	✗	✓	✓	✓	✓
✗	✗	●	●	✗	●	●	✗
✓	●	●	✓	✗	●	✓	✗
✓	✓	●	●	✗	●	●	✗
●	●	●	●	●	●	●	✗
●	●	●	●	●	●	●	✗
✓	●	●	●	✗	●	●	✗
✓	●	●	●	●	●	●	✗

SOLIS

SOLIS is the fastest, most reliable, and most accurate heat shrink and measurement combo PERIOD. Through years of engineering and innovation Omega TMM has developed the ultimate machine to meet your high capacity heat shrink and presetting needs. Cutting edge technology, such as a proprietary self-cooling induction coil shrink head, mean SOLIS is built for continuous shrinking 24/7, making this presetter a real workhorse.

FEATURES

- C.H.I.L.L. automated 60 second tool cooling
- Perfect Set provides users the ability to set tool height to an industry leading +/- 5 microns
- Length Verification Spindle for quick serial shrinking of different length and diameter tools with no extra “masterpiece” step required
- Virtual Control Device for simple ergonomic use
- Mobile Command Center rolling kiosk
- Laser tool location finder to easily find your tool tip
- Fume extractor to remove all vapors produced from the heated tool
- A fully integrated heat shrink and presetting unit
- Up to 7 full CNC axis
- Serial shrinking of different tool height sand diameters
- 70x Magnification lens
- Pearlitic cast iron construction with our proprietary SYMMETRY design
- Holding recognition system
- Liquid cooled tray for hot cutting tools
- Micron accurate fine adjust
- P7 user interface suite
- LED Tool Inspection Light
- Dual 21.5” monitors for tool window and user interface
- 15” touch screen LVS monitor
- Automated unshrinking of damaged tools
- ECHO - Learning off presetter movements
- AAIM

SPECIFICATIONS

DIMENSIONS & WEIGHT

- **Length:** 1854mm (73”)
- **Width:** 813mm (32”)
- **Height:** 1930mm (76”)
- **Average Shipping Weight:** 930kg (2050lbs)

MEASURING ENVELOPE

- **Height:** 600mm
- **Diameter:** 320mm
- **Snap Gauge:** 75mm

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- 480V AC 3 phase
- **Air:** 80-110PSI

HELIOS

HELIOS is the most affordable and well optioned heat shrink and presetting combination on the market, HANDS DOWN. Standard features like 5 axis CNC, tool height setting, liquid chilled cooling collars, and automatic broken tool removal make the HELIOS the market leader in affordable heat shrink technology.

FEATURES

- C.H.I.L.L. automated 60 second tool cooling
- Perfect Set provides users the ability to set tool height to an industry leading +/- 20 microns (patent pending)
- No extra “masterpiece” step required
- Laser location finder to easily find your tool tip
- Fume extractor to remove all vapors produced from the heated tool
- A fully integrated heat shrink and presetting unit
- Up to 5 full CNC axis
- Serial shrinking of different tool heights and diameters
- Pearlitic cast iron construction with our proprietary SYMMETRY design
- Liquid cooled tray for hot cutting tools
- Micron accurate fine adjust
- P7 user interface suite
- Cold Source LED Tool Inspection Light
- Dual 21.5” monitors for tool window and user interface
- Automated unshrinking of damaged tools

SPECIFICATIONS

DIMENSIONS & WEIGHT

- **Length:** 1854mm (73”)
- **Width:** 813mm (32”)
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MEASURING ENVELOPE

- **Height:** 600mm
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- **Snap Gauge:** 75mm

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- 480V AC 3 phase
- **Air:** 80-110PSI

FORTIS

With over 1300 ft/lbs of power-clamping spindle force the FORTIS Series are the most repeatable measuring machines on the market.

FEATURES

- +1,300ft/lbs universal power clamping spindle with interchangeable cartridge system to work with any tool holding type
- Integrated spindle brake and 360° indexing
- 1 micron repeatable measuring
- Shop floor ready, full size freestanding machine
- Spindle weight capacity of over 200lbs
- Laser Location finder
- Cold Source LED Tool Inspection Light
- Robust easy to use control interface
- Instantly finds tool geometries
- Theoretical intersection points
- Fixed or Dynamic crosshairs
- Dual 21.5” monitors for tool window and user interface
- Pearlitic cast iron construction with our proprietary SYMMETRY design
- 70x Magnification lens

SPECIFICATIONS

DIMENSIONS AND WEIGHT

- **Overall Width:** 1575mm (62”)
- **Depth:** 813mm (32”)
- **Height:**
  400mm Column (1730mm / 68”)
  600mm Column (1930mm / 76”)
  800mm Column (2130mm / 84”)
- **Average Shipping Weight:** 522kg (1150lbs.)

MEASURING DIAMETERS

- 420mm (16.5”)

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- **Air:** 80-110PSI

OPTIONS

MEASURING LENGTHS

- 400mm (15.75”)
- 600mm (23.6”)
- 800mm (31.5”)

CONTROL SYSTEM OPTIONS

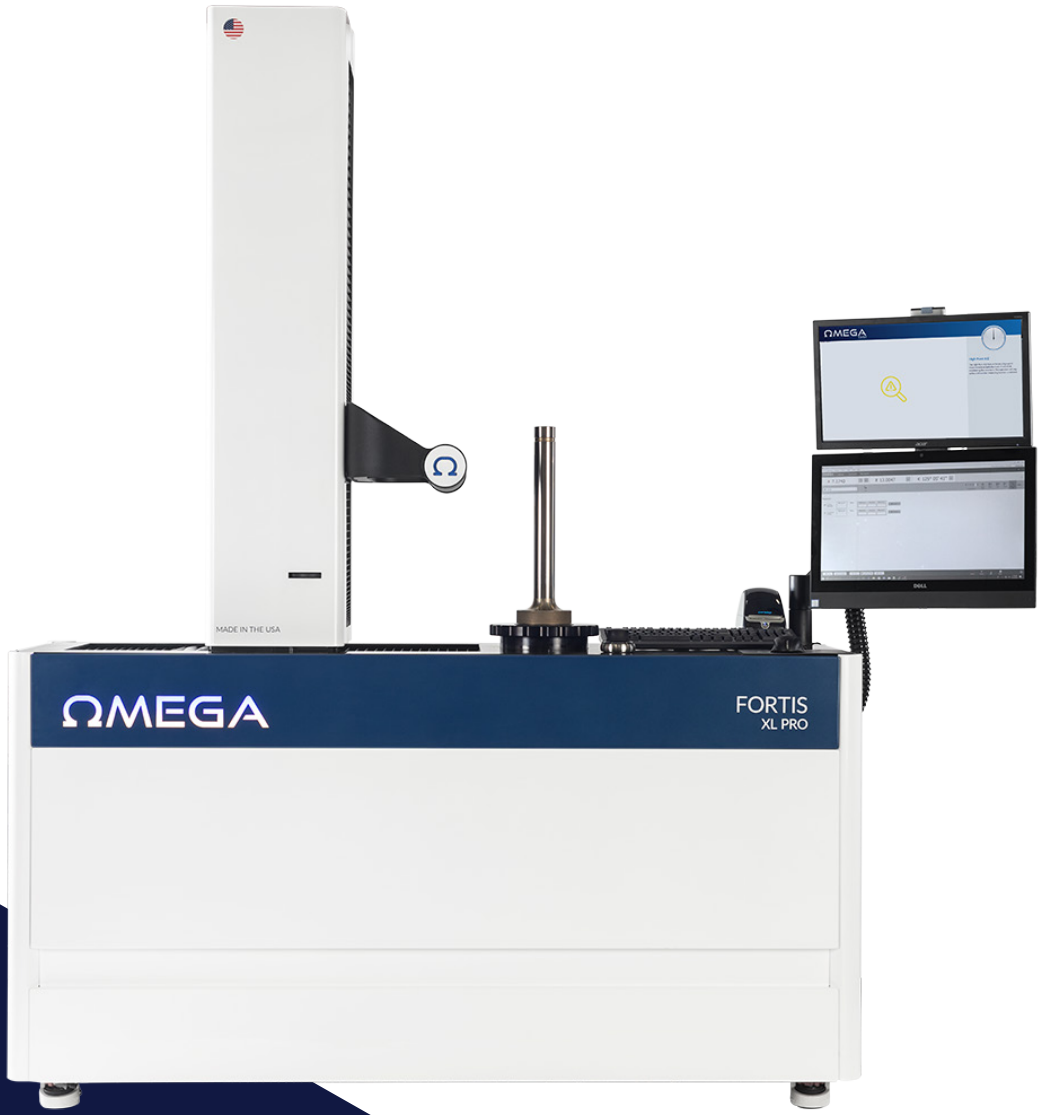
- G4 or P7 user interface
- Autofocus CNC Spindle
- Manual and automated RFID systems
- Mazak Cyber Tool and Smooth Tool Management system integration
- Data output
- Perfect Set with P7 Software
- Holder recognition system
- AAIM- tool profile software
- Virtual control device
- ECHO
- User management
- Rolling Kiosk
- Optional: Environmental Enclosure

UPGRADE TO FORTIS PRO

- System is full 3 axis CNC automation

FORTIS XL

The FORTIS-XL can handle heights and diameters up to 1000mm and with a 1000lb spindle capacity it can measure any tool in your arsenal.



FEATURES

- +1,300ft/lbs universal power clamping spindle with interchangeable cartridge system to work with any tool holding type
- Integrated spindle brake and 360° indexing
- Simple to use 3D VCD with programmable smart buttons
- 1 micron repeatable measuring
- Shop floor ready, full size freestanding machine
- Spindle weight capacity of over 1000lbs
- Laser Location finder
- Cold Source LED Tool Inspection Light
- Robust easy to use control interface
- Pearlitic cast iron construction with our proprietary SYMMETRY design
- Instantly finds tool geometries
- Theoretical intersection points
- Fixed or Dynamic crosshairs
- Dual 21.5" monitors for tool window and user interface
- 70x Magnification lens

*Shown with optional casters

SPECIFICATIONS

DIMENSIONS AND WEIGHT

- **Overall Width:** 1838mm (72.4")
- **Depth:** 701mm (27.6")
- **Height:**
  600mm Column (1948mm/76.7")
  1000 mm Column (2342mm/93.2")
- **Average Shipping Weight:** 1020 kg (2240 lbs.)

MEASURING DIAMETERS

- 420 mm (16.5")

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- **Air:** 80-110PSI

OPTIONS

MEASURING LENGTHS

- 650mm - 1000mm Length
- 650mm - 950mm Diameter

CONTROL SYSTEM OPTIONS

- P7 user interface
- Autofocus CNC Spindle
- Manual and automated RFID systems
- Mazak Cyber Tool and Smooth Tool Management system integration
- Data output
- Perfect Set automated tool height system
- Holder recognition system
- AAIM- tool profile software
- ECHO
- User management
- Snap Gauge: 100mm

UPGRADE TO FORTIS XL PRO

- System is full 3 axis CNC automation

EXACTUS LITE

Need accurate measurements straight from your workbench?
The EXACTUS LITE tabletop machine is your answer.

FEATURES

- Precision ground taper 50 spindle
- Adapters available for all tool holding types
- 1 micron repeatable measuring
- Vacuum clamping
- Shop floor ready
- Laser Location finder
- Cold Source LED Tool Inspection Light
- Robust easy to use control interface
- Pearlitic cast iron construction with our proprietary SYMMETRY design
- Instantly finds tool geometries
- Theoretical intersection points
- Fixed or Dynamic cross-hairs
- 21.5” LCD touchscreen control
- Label printer
- 70x Magnification lens

*Shown with optional workbench

SPECIFICATIONS

DIMENSIONS AND WEIGHT

- **Overall Width:** 748mm (30”)
- **Depth:** 527mm (21”)
- **Height:**
  400mm Column (890mm/ 35”)
  600mm Column (1115mm/44”)
  800mm Column (1315mm/42”)
- **Average Shipping Weight:** 272 kg (600 lbs.)

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- **Air:** 80-110PSI

OPTIONS

MEASURING LENGTHS

- 400mm (15.75”)
- 600mm (23.6”)
- 800mm (31.5”)

CONTROL SYSTEM OPTIONS

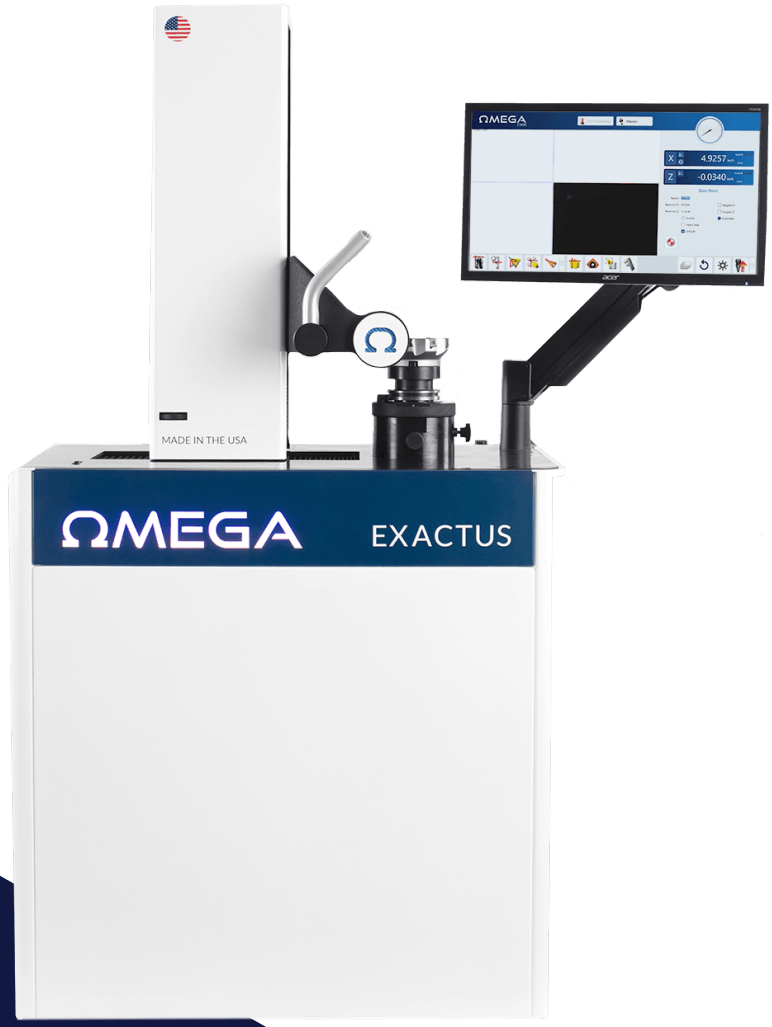
- G4 or P7 user interface
- Manual RFID systems
- Mazak Cyber Tool and Smooth Tool Management system integration
- Data output
- Single or dual 21.5” monitors
- User management
- Document manager
- Template Tracking

ACCESSORIES AVAILABLE

- Solid Maple Top Workbench

EXACTUS

Easy to use, accurate, and robust. The EXACTUS line can transform your production efficiency from good to world class.



FEATURES

- Precision ground taper 50 spindle
- Adapters available for all tool holding types
- 1 micron repeatable measuring
- Vacuum clamping
- Shop floor ready full size freestanding machine
- Laser Location finder
- Cold Source LED Tool Inspection Light
- Robust easy to use control interface
- Pearlitic cast iron construction with our proprietary SYMMETRY design
- Instantly finds tool geometries
- Theoretical intersection points
- Fixed or Dynamic cross-hairs
- 21.5” LCD touchscreen control
- Label printer
- 70x Magnification lens

SPECIFICATIONS

DIMENSIONS AND WEIGHT

- **Overall Width:** 1575mm (62”)
- **Depth:** 813mm (32”)
- **Height:**
  400mm Column (1730 mm / 68”)
  600mm Column (1930 mm / 76”)
  800mm Column (2130 mm / 84”)
- **Average Shipping Weight:**
  522kg (1150lbs.)

MEASURING DIAMETERS

- 420 mm (16.5”)

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- **Air:** 80-110PSI

OPTIONS

MEASURING LENGTHS

- 400mm Column (13.75”)
- 600mm Column (23.6”)
- 800mm Column (31.5”)

CONTROL SYSTEM OPTIONS

- G4 or P7 user interface
- Autofocus CNC Spindle
- Manual and automated RFID systems
- Mazak Cyber Tool and Smooth Tool Management system integration
- Data output
- Perfect Set with P7 Software
- AAIM - tool profile software
- Virtual control device
- ECHO
- User management

UPGRADE TO FORTIS PRO

- System is full 3 axis CNC automation

EXACTUS XL

Cast iron construction with our proprietary SYMMETRY design, our innovative virtual control device, and multiple spindle options make the EXACTUS-XL the definition of the word “heavyweight”.

FEATURES

- Precision ground taper 50 spindle
- Integrated spindle brake and 360° indexing
- Simple to use 3D Virtual Control Device with programmable smart buttons
- Shop floor ready, full size freestanding machine
- Laser Location finder
- Cold Source LED Tool Inspection Light
- Robust easy to use control interface
- Pearlitic cast iron construction with our proprietary SYMMETRY design
- Instantly finds tool geometries
- Theoretical intersection points
- Fixed or Dynamic crosshairs
- Dual 21.5” monitors for tool window and user interface
- 70x Magnification lens

**Shown with optional casters*

SPECIFICATIONS

DIMENSIONS AND WEIGHT

- **Overall Width:** 1838mm (72.4”)
- **Depth:** 701mm (27.6”)
- **Height:**
  600mm Column (1948 mm/76.7”)
  1000mm Column (2342mm/93.2”)
- **Average Shipping Weight:** 1020kg (2240lbs.)

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- **Air:** 80-110PSI

OPTIONS

MEASURING LENGTHS

- 650mm - 1000mm Length
- 650mm - 950mm Diameter

CONTROL SYSTEM OPTIONS

- P7 user interface
- Autofocus CNC Spindle
- Manual and automated RFID systems
- Mazak Cyber Tool and Smooth Tool Management system integration
- Data output
- Perfect Set automated tool height system
- AAIM- tool profile software
- Taper 60 spindle
- HSK 125a spindle
- ECHO
- User management

UPGRADE TO FORTIS XL PRO

- System is full 3 axis CNC automation

ORIGIN

Easy to use, cost effective, and shop floor ready, the ORIGIN is the perfect entry level machine in the optical presetting industry.

FEATURES

- Cast aluminum construction with proprietary SYMMETRY design
- Precision ground taper 50 spindle
- Integrated spindle brake and 360° indexing
- Cold Source LED Tool Inspection Light
- Intuitive icon based software
- 21.5” LCD screen
- Maintenance free design
- 1-year parts and labor warranty
- 70x Magnification lens

*Shown with optional workbench

SPECIFICATIONS

DIMENSIONS AND WEIGHT

- **Overall Width:** 610mm (24”)
- **Depth:** 686mm (27”)
- **Height:** 965mm (38”)
- **Average Shipping Weight:** 102kg (225lbs.)

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- **Air:** 80-110PSI

OPTIONS

MEASURING ENVELOPE

- 480mm (18”) Height
- 250mm (10”) Diameter

ACCESSORIES

- Adapters for all tool holding styles
- Label printer
- Sturdy Industrial Grade Maple Bench
- Monitor Arm

WARRANTY

- One-Year Parts & Labor Warranty

ACCESSORIES AVAILABLE

- Solid Maple Top Workbench

APEX

Reflection and dirt are the enemies of creating an accurate tool profile. Our APEX machine features a full environmental enclosure with an automated light diffuser to make sure your tools are kept safe from the perils of the shop floor. The APEX can profile all types of tools or grinding wheels for any industry using our AAIM software creating the perfect DXF for comparison or export. Whether it is basic presetting or profiling wheels or form tools the APEX is a world class machine.

FEATURES

- Fully integrated environmental enclosure with auto-retracting light diffuser
- AAIM profiling software
- User management
- ECHO learning function
- Instantly finds tool geometries
- Theoretical intersection points
- Fixed or Dynamic crosshairs
- Dual 21.5” monitors for tool window and user interface
- Virtual Control Device
- 70x Magnification Lens
- +600lb/ft universal power clamping spindle with interchangeable cartridge system to work with any tool holding type
- Pearlitic cast iron construction with our proprietary SYMMETRY design
- Integrated spindle brake and 360° indexing
- 1 micron repeatable measuring
- Shop floor ready, full size freestanding machine
- Laser Tool Location finder
- LED Tool Inspection Light
- Robust easy to use control interface

SPECIFICATIONS

DIMENSIONS AND WEIGHT

- Length: 939.8 mm (37”)
- Width: 1168.4mm (46”)
- Height: 1828.8mm (72”)
- Weight: 475kg (1046lbs)

MEASURING ENVELOPE

- 600mm Height
- 420mm Diameter
- 100mm Snap Gauge

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- **Air:** 80-110PSI

OPTIONS

- Holder Recognition System
- Automated RFID
- Data output
- Perfect Set automated tool height system
- Mazak Cyber Tool and Smooth Tool Management system integration

MICRO

Developed specifically for micro tools with micro features. With an industry-leading 300x lens, the MICRO presetter can measure even the most microscopic features repeatedly and accurately.

If your process requires the use of micro tooling from endmills and drills to super abrasive grinding tools. The 300x lens on the Omega TMM MICRO will ensure a crisp image with industry leading accuracy to set your tools.

FEATURES

- 300x magnification bi-telecentric lensing
- +600 lb/ft universal power clamping spindle with interchangeable cartridge system to work with any tool holding type
- Integrated spindle brake and 360° indexing
- 1 micron or less repeatable measuring
- Shop floor ready, full size freestanding machine
- Laser Location finder
- Cold Source LED Tool Inspection Light
- Robust easy to use control interface
- Instantly finds tool geometries
- Pearlitic cast iron construction with our proprietary SYMMETRY design
- Theoretical intersection points
- Fixed or Dynamic cross-hairs
- Dual 21.5” monitors for tool window and user interface
- 3-Axis CNC
- P7 User Interface

SPECIFICATIONS

DIMENSIONS AND WEIGHT

- **Overall Width:** 1575mm (62”)
- **Depth:** 813mm (32”)
- **Height:** 600mm Column (1730mm / 68”)
- **Average Shipping Weight:** 522kg (1150lbs.)

MEASURING DIAMETERS

- 420mm (16.5”)

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- **Air:** 80-110PSI

“There is no other presetting machine available on the market that can come close to the accuracy and repeatability of the Omega TMM MICRO on even your smallest of tooling.”

- MIKE BERNITT, DIRECTOR OF OPERATIONS

OPTIONS

CONTROL SYSTEM OPTIONS

- P7 user interface
- Autofocus CNC Spindle
- Manual and automated RFID systems
- Mazak Cyber Tool and Smooth Tool Management system integration
- Data output
- Perfect Set automated tool height system
- Holding recognition system
- AAIM- tool profile software
- Virtual control device
- ECHO - Learning of presetter movements
- User management

VERI-GRIND

The VERI-GRIND is the benchmark for grinding wheel form and offset verification in both the metal cutting and stone grinding industries.

FEATURES

- Instantly finds tool and wheel geometries
- Theoretical intersection points
- Fixed or Dynamic cross-hairs
- Dual 21.5” monitors for tool window and user interface
- Label printer
- Precision ground taper 50 spindle
- Adapters available for all tool holding types
- 1 micron repeatable measuring
- Vacuum clamping
- Pearlitic cast iron construction with our proprietary SYMMETRY design
- Shop floor ready full size freestanding machine
- Laser Location finder
- Cold Source LED Tool Inspection Light
- Robust easy to use control interface
- AAIM profiling software with tolerance banding
- 70x Magnification lens

SPECIFICATIONS

MEASURING DIMENSIONS

- 420mm (16.5”) Diameter
- 400mm (15.75”) Height

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- **Air:** 80-110PSI

DIMENSIONS AND WEIGHT

- **Overall Width:** 1575mm (62”)
- **Depth:** 813mm (32”)
- **Average Shipping Weight:** 522kg (1150lbs.)

OPTIONS

CONTROL SYSTEM OPTIONS

- Automated or manual RFID
- Data output
- Document manager
- User management
- ECHO

VERI-GRIND LITE

VERI-GRIND LITE is the cost effective bench-top solution for grinding wheel verification.

FEATURES

- Precision ground taper 50 spindle
- Adapters available for all tool holding types
- Template tracking to verify wheel forms
- 1 micron concentricity
- Vacuum clamping
- Shop floor ready
- Laser Location finder
- Cold Source LED Tool Inspection Light
- Pearlitic cast iron construction with our proprietary SYMMETRY design
- Robust easy to use control interface
- Instantly finds tool geometries
- Theoretical intersection points
- Fixed or Dynamic cross-hairs
- 21.5” LCD touchscreen control
- Label printer
- 70x Magnification lens

*Shown with optional workbench

SPECIFICATIONS

MEASURING DIMENSIONS

- 420mm (16.5”) Diameter
- 400mm (15.75”) Height

UTILITIES

- 120V AC or 220V AC, 50Hz to 63Hz
- **Air:** 80-110PSI

DIMENSIONS AND WEIGHT

- **Overall Width:** 748mm (30”)
- **Depth:** 527mm (21”)
- **Machine Height:**
  400mm Column (890mm/ 35”)
  600mm Column (1115mm/44”)
  800mm Column (1315mm/42”)
- **Average Shipping Weight:** 272kg (600lbs.)

OPTIONS

MEASURING OPTIONS

- G4 or P7 user interface
- Manual RFID systems
- Data output
- Single or dual 21.5” monitors

ACCESSORIES AVAILABLE

- Solid Maple Top Workbench

SHRINKSET

Shrink/remove and cool your tools automatically with the press of a button.

FEATURES

- 480v power supply
- Oscillating air cooling *(SHRINKSET and SHRINKSET LITE)*
- Lightning fast quench cooling *(SHRINKSET Pro)*
- Adapters and stop discs for multiple tool types are included
- Automated Cooling Cycle
- Easy to use full color LCD touch-screen display
- Automated Heat Cycle
- Manufactured, assembled, and supported in the U.S.A.

ACCESSORIES AVAILABLE

- Solid Maple Top Workbench

SHRINKSET LITE

- **Machine Type:** Compact Tabletop
- **Heating Time:** <5 Seconds
- **Cooling Time:** 2 Minutes
- **Cooling Type:** Oscillating Air
- **Tool Size:**
  Max Length: 280mm/533mm with Ext. (11”/21”)
  Max Diameter: 3mm-32mm (1/8”-1 ¼”)
- **Adapters Included:**
  HSK100/63/50/40
  CAT50/40/30
  Capto C6

SHRINKSET

- **Machine Type:** Full-Size Tabletop
- **Heating Time:** <5 Seconds
- **Cooling Time:** 2 Minutes
- **Cooling Type:** Oscillating Air
- **Tool Size:**
  Max Length: 560mm (22”)
  Max Diameter: 3mm-32mm (1/8”-1 ¼”)
- **Adapters Included:**
  HSK100/63/50/40
  CAT50/40/30
  Capto C6

SHRINKSET PRO

- **Machine Type:** Freestanding Machine
- **Heating Time:** <5 Seconds
- **Cooling Time:** 30 Seconds
- **Cooling Type:** Auto Quench
- **Tool Size:**
  Max Length: 560mm (22”)
  Max Diameter: 3mm-32mm (1/8”-1 ¼”)
- **Adapters Included:**
  HSK100/63/50/40
  CAT50/40/30
  Capto C6

INSPECT | VUE | VUE LITE

VUE

The Omega TMM Vue is a simple yet robust machine for the inspection of your cutting tools. With magnification up to 145x and easy measurements of helical angle and landwidth the Vue is the perfect inspection machine for any tool maker!

FEATURES

- Ball nose
- Radii inspection using edge detection
- Step reamer
- .DXF file overlay
- Rake angle inspection using scales
- Helical angle and land width 0.0030mm tool getting measurements plotting with points
- Angle measurements plotting with points
- Measurements found after the points
- Rotating Axis
- Creation of Reports
- Document the Image

ACCESSORIES AVAILABLE

- Solid Maple Top Workbench

ADVANCED SOFTWARE

- **Microscope:** 00484-1A 12x optical system
- **Magnification:** 12.5x, 20x, 30x, 40x, 50x, 60x, 70x, 80x, 90x, 110x, 120x, 125x, 130x, and 145x
- **Field of View:** 12.5x = 25mm, 20x = 16.7mm, 30x = 11.6mm, 40x = 8mm, 50x = 6.6mm, 60x = 5.4mm, 70x = 4.55mm, 80x = 4.0mm, 90x =3.5mm, 110x = 3.0mm, 120x = 2.8mm, 125x = 2.6mm, 130x = 2.5mm, 145x = 2.3mm
- **Range of Focus:** 36mm (1.437")
- **Camera:** 5 megapixel, ½" format USB 3.0 color camera
- **Computer:** Dell mini-tower or desktop, i7 quad core processor, 8 GB RAM, 500 GB hard drive. Digital DP 4K video card
- **Monitor:** 24" diagonal 3480 x 2160 RES flat panel
- **Operating System:** Windows 7, 64 bit; Windows 10, 64 bit
- **Scales:** Fagor 1 micron
- **Light:** Variable Intensity LED work light manufacturers, operating systems and computer components as needed 1Realtime Cutting Tool Inspection
- **Language:** English, German, Chinese
- **Software Upgrades:** Software upgrades are free using "Check for Upgrade" in software File menu, v. 7 only
- **Screen Resolutions:** Low = .010mm (.00039") High = .001mm (.000039")
- **Repeatability:** .005 mm (.0002") at max. magnification
- **Measuring Range:** 75mm vertical x 200 mm horizontal (50mm of additional vertical optionally available)

GENERAL INFORMATION

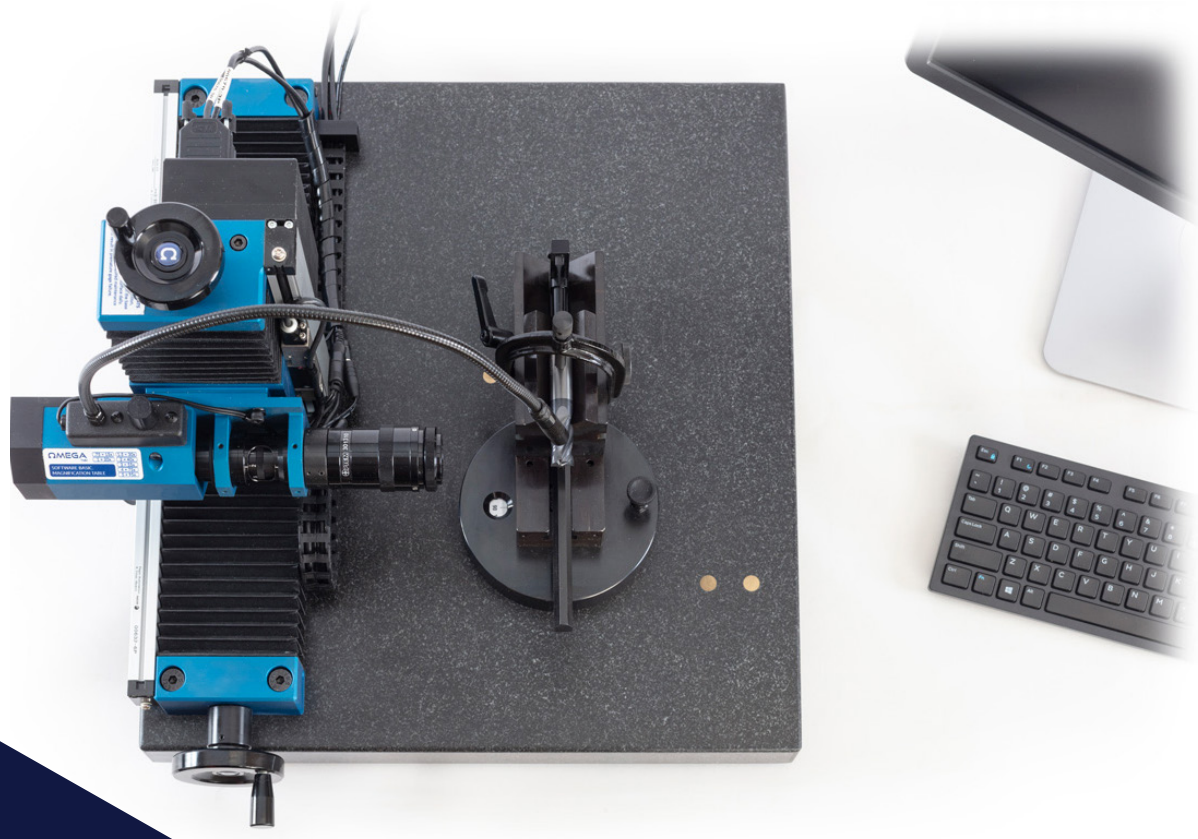
- **Dimensions:** 24" wide x 19" deep x 18" high
- **Weight:** 140 lbs
- **Power:** 110V default; 220V optional

WARRANTY

- One year on all parts supplied by Omega TMM at the time of purchase as an upgrade or full system

VUE LITE

Simple and easy-to-use are the two words that come to mind when using the Vue Lite tool inspection machine. With 95x magnification and the most intuitive tool inspection software in the industry the Vue Lite is light-years ahead of its competition.



FEATURES

- Ball nose
- Radii inspection using edge detection
- Step reamer
- .DXF file overlay
- Rake angle inspection using scales
- Helical angle and land width 0.0030mm tool getting measurements plotting with points
- Angle measurements plotting with points
- Measurements found after the points
- Rotating Axis
- Creation of Reports
- Document the Image

ACCESSORIES AVAILABLE

- Solid Maple Top Workbench

ADVANCED SOFTWARE

- **Microscope:** 00464-1A 6X optical system
- **Magnification:** 15x, 20x, 30x, 40x, 55x, 75x, 95x2
- **Field of View:** 15x = 22mm, 20x = 16.5mm, 30x = 11.0mm, 40x = 8mm, 55x = 6.5mm, 75x = 4.2mm, 95x =3.5mm
- **Camera:** 5 mega pixel, ½" format USB 3.0 color camera
- **Range of Focus:** 12mm
- **Computer:** Dell mini-tower or desk top, i7 quad core processor, 8 GB RAM, 500 GB hard drive. Digital DP 4K video card
- **Monitor:** 24" diagonal 3840 x 2160 RES flat panel
- **Operating System:** Windows 7, 64 bit; Windows 10, 64 bit
- **Scales:** Fagor 1 micron
- **Light:** Variable Intensity LED work light
- **Language:** English, German, Chinese
- **Software:** Software upgrades are free using "Check for Upgrade" in software file menu, v.7 only
- **Measuring Range:** 75mm vertical x 200mm horizontal
- **Repeatability:** .010mm (.0005") at max. magnification

GENERAL INFORMATION:

- **Dimensions:** 24" wide x 19" deep x 18" high
- **Weight:** 140lbs
- **Power:** 110V default; 220V optional

WARRANTY

- One year on all parts supplied by Omega TMM at the time of purchase as an upgrade or full system

MATRIX 4.0

Matrix 4.0 is the most robust cost-effective solution on the market to move toward secure tooling data management.

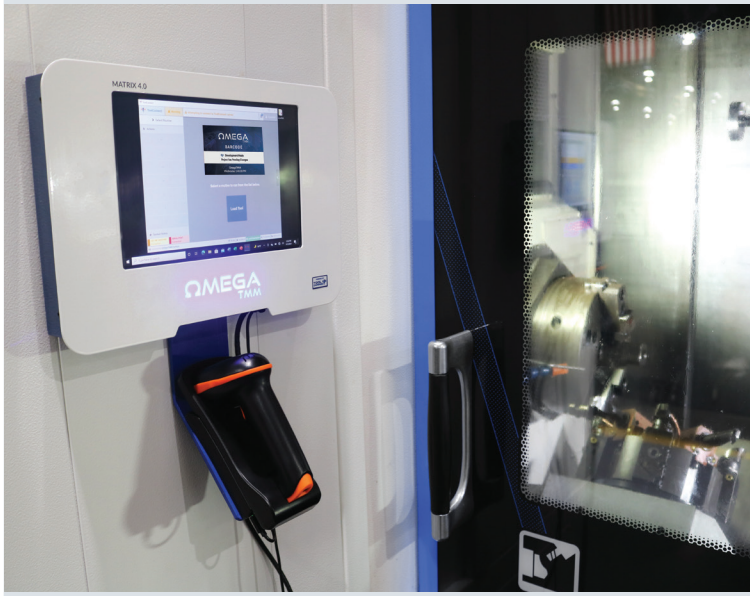
The Omega TMM Matrix 4.0 system provides universal direct connectivity to safely upload machine tool offsets with minimal human interaction. Multiple checks and balances provide piece of mind that you have the right tool in the right pocket in the correct machine tool.

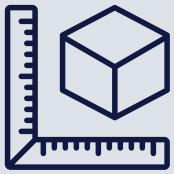
ADVANTAGES

- Universal - 2-Way Direct Communication Via Ethernet
  - *Keyboard emulator not required*
  - *Works with any CNC machine control*
- Data Transfer - Process Control
  - *Mitigates operator error, removes the human element of typing in offsets*
  - *Fewer broken tools and non-conforming parts*
- Reliable, secure system that creates repeatable tool management ecosystem
  - *Increase efficiency and uptime*
- Open System - Platform compatible with multiple manufacturers
  - *Ability for additional IOs supported*
- Software developed and supported in the USA
  - *Quick response to support your operations*

HIGHLIGHTS

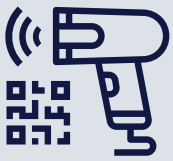
- 2D Matrix Scanning
  - *Powered by Caron Engineering Tool Connect*
  - *Full service provided by our team of certified technicians*
- Durable and Shop Floor Ready
  - *Configured to your exact requirements*
- Customized to Your Shop Floor
  - *A no-cost shop floor assessment to identify your individual needs*
- Compatible with ANY Presetter
- Two-Way Communication





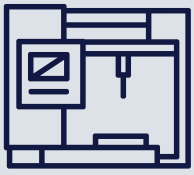
MEASURE TOOL

Capture tool data and print matrix code



SCAN MATRIX CODE

Optional hands-free scanning



PLACE TOOL IN CNC

Ready to use

G 4

Our G4 software is an easy-to-use touchscreen User Interface that allows any operator to walk up to an Omega TMM Presetter, and measure features like length and diameter, verify geometry like angles and radii, and inspect tool runout and insert quality. G4 is intuitive, with all features on one screen, yet you still get the micron precision and repeatability you've come to expect with an Omega TMM Tool Measuring Machine.

"G4 is the evolutionary camera platform that delivers increased performance through optimized image processing, faster rotation speeds, and added features like vertical runout and more. G4 is the workhorse of our Next-Generation Omega TMM tool measuring machines, available now!"

- TIM SHOR, DIRECTOR OF SOFTWARE ENGINEERING

CONTACT US FOR A LIVE, VIRTUAL DEMO: SALES@OMEGATMM.COM

HIGHLIGHTS

- Faster processing speeds
- Single-screen user interface
- Horizontal and Vertical runout features
- Custom label applications to show specific information like geometric features, barcodes, 2D matrix, and more
- Instant Geometry function
- High-Point and Theoretical Measuring cross-hairs

MEASURING FUNCTIONS

- High Point measuring
- Theoretical Intersection
- Perfect Cut mode
- Horizontal and Vertical Tool Runout
- Instant Geometry
- Fixed Coss-Hairs
- Chamfer
- Trace Image
- Automatic Focus
- Radium and Angle Measurement
- Tool Inspection

P7

P7 is the advanced interface built on our G4 camera platform. With all the functions of G4, we've expanded capabilities to include automatic measuring routines, inspection and qualifying functions, as well as a simple-to-use tool database whether you have 10 tools or 10,000. We've made it easy to get consistent measuring results regardless of user, leading to better tooling and better parts.

All P7 machines come with our standard modules like our Measuring screen, Tools and Lists, and Video Library, and have add-ons available for increased functionality and specific applications. From setting tool heights to specific stick-out lengths, reverse engineering tool profiles, creating automated measuring routines at the click of a button, and more, P7 can be custom tailored to meet the needs of any shop.

P7 MODULES

AAIM

Automated Analysis Inspection and Measurement software allows you to verify profiles and the most difficult forms with ease. Our fully automated imaging software will create a 2+ million point cloud to generate a micron precise DXF for overlay or export. Robust features like tolerance bands, nominal vs. actual comparison, and shadow delete make AAIM your number one choice for all your profiling needs. (3 axis CNC required)

MACRO

The world's only "learning presetter"! Simply turn on the Echo function, measure your tool and Echo will learn your movements, optimize the program, and create your macro. This is hands down the simplest way to program presetting macros on the market. Period. (3 axis CNC required) The Omega TMM Macro module allows users to create automated measuring routines to fit their process and their needs. Our Macro Builder uses an intuitive drag-and-drop canvas to select customizable commands, allowing users to build routines that can be applied to a single tool or an entire class of tooling. A Macro can be fully automated on a Presetter equipped with 3-Axis CNC, or can give step-by-step measurement instructions on a manual machine with an Autofocus spindle.

VERI-GRIND SOFTWARE

The VERI-GRIND module and VERI-GRIND machines were created to capture tool profiles and automatically align multiple profiles in a set. Within the module, the cutting profile is captured for one or multiple tools in a set. These profiles are then layered and can be automatically adjusted using the "Best Fit" feature, which will take into account the thickness of material being grinded, and will position each tool to achieve the desired profile. The tool measurements can be printed, posted, or written to the tool via RFID and loaded into the machine center, ready for production.

P7 MODULES

POST PROCESSOR

The Post Processor in P7 allows for one-way communication from the P7 database directly to a machine center controller, to update data such as tool offsets and supporting information. The Omega TMM Applications team can write custom post templates to integrate to a machine center that allows for a process that does not depend on users manually typing data into the controller. Mitigating the opportunity for user error results in fewer mistakes like mistyped offset values, while at the same time allowing for the immediate transfer of all information that would alternatively need to be manually entered or updated each time a tool is loaded.

RFID

Omega TMM Presetters can transmit data to an RFID chip either manually or with our fully automated RFID system. When a machine center utilizes RFID to maintain and update tool data and information, transmitting tool offset values and other information from the Presetter to the RFID chip on the tool holder is the best way to input this data. When appropriately equipped, an Omega TMM Presetter can automatically identify a tool in the spindle by reading the RFID tag, immediately run an automatic measuring routine, and then write specific tool data back to the RFID tag with the click of a single button.

Custom Interfaces & 3rd Party Integrations

P7 supports a range of integration options with 3rd party providers, which can include RFID hardware, tooling databases, and machine control systems.

Our in-house Software team can design and build custom interfaces for one-off solutions or to meet specific needs. Whether the machine needs to communicate with an automated robot for lights-out operation, or if a shop uses a machine center with a unique control, we can create a custom interface if necessary to provide communication and make the process as efficient as possible.

CONTACT US FOR CUSTOM INTEGRATIONS: SALES@OMEGATMM.COM

ACCESSORIES & U

TAPER 50 ADAPTERS

Adapt your taper 50 machine to work with any type of tool holder.

- All taper types
- ABS
- Big Plus
- Clamping HSK
- Clamping Capto
- Clamping KM
- VDI

CLAMPING CARTRIDGES

All cartridges are universal clamping giving you 600+ ft/lbs of pull force on every tool.

- All taper types
- ABS
- Big Plus
- Clamping HSK
- Clamping Capto
- Clamping KM
- VDI

CERTIFIED TEST BARS

- 50 taper: 50mm diameter 150mm projection
- 50 taper: 50mm diameter 300mm projection
- 50 taper: 50mm diameter 450mm projection

ZERO GAUGES

- 50 taper: 50mm diameter 75mm projection

PGRADES

MADE IN USA

BLUE UNDERGLOW

- Available on all floor models
- Dress up your shop by adding a blue glow that will make your Omega TMM the most recognizable machine on the shop floor

WORKBENCH

- Mounting table-top machines

ALL AVAILABLE ACCESSORIES

- Tool tray
- Cartridge tray
- Accessory tray
- Printer
- Tabletop
- Holder Recognition System (HRS)
- Perfect Set
- Automated RFID
- Virtual Control Device (VCD)
- Measuring Sleeves for SOLIS
- Mazak Cybertool
- Mobile Command Kiosk
- Self-Leveling Casters

OUR PROMISE TO YOU

A 10-year Warranty

Proving we are committed to providing a high level of quality, dependability and reliability.

Again, congratulations on your purchase of an Omega TMM machine, and be assured you made the best decision. Omega TMM prides itself on being the only US manufacturer of tool presetters and backs our machines with the best warranty in the industry. With thousands of machines in service today, we have built our reputation by providing world class service to extend the life of your presetter. Omega TMM has evolved from decades of leadership in the tool holder and presetter business, now run exclusively under the Omega TMM brand.

CONTACT US TODAY:
SALES@OMEGATMM.COM

"We here at Omega TMM take great pride in working with you, our customers, to provide a complete solution that assists you in making your processes as lean as possible. ***We want you to be 100% satisfied with your purchase and we are committed to you for the long term.*** Your success is our success. Our team of experts will provide you the right solution for your project, increasing your productivity and lowering your scrap rate.

That's our promise to you."

MADE IN USA

SALES

Contact us to learn more about available machines, accessories, software and general questions.

P: 1-844-396-5537 Press 2

E: Sales@omegatmm.com

Find your sales manager by state:
www.omegatmm.com/sales

SERVICE DEPARTMENT

Customer service for machinery maintenance and repairs is available by phone, or on-location technicians.

P: 1-844-396-5537 Press 1

E: Service@omegatmm.com

Find Service tips and key contact form:
www.omegatmm.com/sales/service

CALIBRATION SCHEDULING

We highly recommend annual calibration service by an Omega TMM service expert. Call to schedule your next calibration:

P: 1-844-396-5537 Press 1

E: Service@omegatmm.com

RESOURCES & PRESETTER TRAINING

Take advantage of additional resources and training videos on your new presetter.

Find useful resources at:
www.omegatmm.com/resources-downloads

VIRTUAL EVENTS & DEMOS

Our 'John F. Nuccitelli Center for Customer Excellence' hosts live events covering product demos, technology updates and more! No cost! Schedule one today.

P: 1-844-396-5537

E: Sales@OmegaTMM.com

ISO & CALIBRATION CERTIFICATES

Available upon request. Please contact us with your specific needs and our Customer Service team will deliver as needed.

P: 1-844-396-5537 Press 1

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TMM

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