

# MITUTOYO'S COMPLETE LINE OF MEASURING INSTRUMENTS AND METROLOGY SOLUTIONS

## Coordinate Measuring Machines



**Manual CMM - Bridge Type**  
Crysta PM 400/500/700 Series

**CNC CMM - Bridge Type**  
CRYSTA-Apex S500/700/900/1200 Series  
CRYSTA-Apex S1600/2000 Series  
CNC CMM - High Accuracy

STRATO-Apex 500/700/900/1600 Series  
FALCIO-Apex 1600/2000/3000 Series

**CNC CMM - Ultra High Accuracy**  
Legex 600/700/900/1200 Series

**CNC CMM - In-line Type**  
High-Speed  
MACH Series

**CNC CMM - Car Body Measuring Type**  
CarbStrato/CarbApex

**MiCAT Planner Software**

**Probe Systems**  
Surftest  
SurfaceMeasure

## Vision Measuring Systems



**2-D Manual Vision - Desktop**  
Quick Image QS-L

**3-D CNC Vision - Desktop**  
Quick Scope QS-250

**3-D CNC Vision-Standard**  
Quick Vision Elf

**3-D CNC Vision High-Speed**  
Quick Vision Stream Plus

**3-D CNC Vision - Standard**  
Quick Vision Apex

**3-D CNC Vision - Moving Bridge Type**  
Quick Vision Accel

**3-D CNC Vision High-Accuracy**  
Hyper QV  
UMAP

**3-D CNC Vision Ultra High-Accuracy**  
Ultra QV  
UMAP

**PFF (Points from Focus)**

**QV PAK Software and Accessories**

## Form Measurement



**Surface Roughness Testers**  
SJ-210 Series  
SJ-310 Series  
SJ-410 Series  
SJ-500/P Series  
SV-2100/3200 Series  
SV-3000/SV-M3000 CNC Series

**Surface Roughness /Contour Measuring Systems**  
SV-C3200/4500 Series  
SV-C4500 CNC Series

**Form Measuring Instruments (Formtracer)**  
CS-3200 Series  
CS-5000/CS-H5000 CNC Series

**Roundness Measuring Instruments (Roundtest)**  
RA-120/120P Series  
RA-1600/M Series  
RA-2200AS/DS/AH/DH Series  
RA-2200CNC/RA-H5200CNC Series

**Contour Measuring Instruments (Contracer)**  
CV-2100 Series  
CV-3200/4500 Series

## Optical Measurement



**Vertical Profile Projectors**  
PJ-A3000 Series  
PJ-H30 Series  
PV-5110 Series  
PH-A14 Series  
PH-3515F Series

**Toolmaker's Microscopes**  
TM-505/1005 Series

**Measuring Microscopes**  
MF Series  
MF-U Series  
Microscope Accessories  
QM Data 200  
Vision Unit  
QSPAK Software

**High Power Inspection Microscopes**  
FS-70 Series  
VMU  
Wide VMU  
Eyepieces, Objectives

**Stereo Microscopes**  
MSM-400 Series  
Magnifiers, Pocket Comparators, Loupes

## Sensor Systems



**Linear Gages**  
Linear Gage LGB  
Linear Gage LGK  
Linear Gage LGF  
Linear Gage LGF-Z  
Linear Gage LGD  
Linear Gage LGS  
Laser Hologage LGH  
Laser Hologage  
Long Stroke Linear Gage LG/LGM

**Linear Gage Counters**  
EC Counter  
EB Counter  
EG Counter  
EH Counter  
EV Counter  
D-EV Display Unit  
SENSORPAK  
Litematic and Litematic Head

**Laser Scan Micrometers**  
LSM-9506  
LSM-902/6900  
LSM-5005  
LSM-501S  
LSM-503S  
LSM-506S  
LSM-512S  
LSM-516S

**Laser Scan Micrometers Display Units**  
LSM-5200 Display Unit  
LSM-6200 Display Unit

**Laser Scan Micrometers Accessories**

## Test Equipment



**Portable Hardness Testing Machines**  
Hardmatic HH-411 Series  
Hardmatic HH-300 Series

**Rockwell Hardness Testing Machines**  
HR521/523 Series  
HR320, HR430 Series

**Macro Vickers**  
HV110/120 Type A, B and D

**Micro Vickers**  
HM210/220 Type A, B and D  
MZT 500 Series

**Hardness Tester Accessories**

## Digital Scales and DRO Systems



**Digimatic Scale Units**  
ABSOLUTE Digimatic Scale Units  
EC Counter  
ABSOLUTE Coolant Proof Digimatic Scale Units  
ABSOLUTE Digimatic Scale Units  
Quill Kit with ABSOLUTE Encoder  
KA Counter Milling System

**Linear Scales**  
AT203 Linear Scales  
AT211A/AT211B Linear Scales  
ST700/ST700L Series Linear Scales  
ST24/ST44 Linear Scales  
ST36 Linear Scales  
ST46 EZA Linear Scales  
ST-F11 Fiber Scale

**Counters**  
KA-200 Counter  
KLD Counter  
PSU-200

**Image Correlation Encoder**  
MICSYS-SA1 2-D

## Small Tool Instruments and Data Management



**Small Tool Instruments**  
Digimatic Micrometers  
QuantuMike  
MDH -25M Micrometers  
Quickmike  
Outside Micrometers  
Micrometer Heads  
Holtests  
Inside Micrometers  
Bore Gages  
Digimatic Calipers  
Dial Caliper  
Vernier Calipers  
Digimatic Height Gages  
Linear Height Gages  
Digimatic Depth Gages  
Vernier Depth Gages  
Dial Depth Gages  
Gage Blocks  
Height Masters  
Reference Gages

Granite Surface Plates  
Digimatic Indicators  
Digimatic Solar Indicators  
Dial Indicators  
Stands

**Data Management (SPC)**  
MeasurLink Software  
U-Wave  
Input Tools  
Multiplexers - MIG-4USB,  
MIG-8USB  
Gage Selector 3  
EC Counter  
DP-1VR Miniprocessor  
SPC Connecting Cables

**Mitutoyo**



## TRACEABILITY / VERIFICATION

High accuracy, low uncertainty and validated measurement methods are the reasons customers rely on Mitutoyo America Corporation. We go to great lengths to ensure that our reference standards and measurements are traceable through our nation's highest measurement institute, the National Institute of Standards and Technology (NIST), headquartered just outside Washington, DC.

Traceability requires the establishment of an unbroken chain of comparisons to references. At the Mitutoyo America Calibration Laboratory, our master gage blocks are directly compared against the master gage blocks at NIST on a regular interval. The result is reference gage blocks calibrated just "one step removed" from NIST – providing the Mitutoyo America Calibration Lab with the highest reliability and lowest possible measurement uncertainty in our reference standards.

And while Mitutoyo America Corporation is at the forefront in application of today's metrology best practices, we don't stop there. We are committed to the research and development of tomorrow's standards as well. We are an active leader in national and international metrology standards and a strong supporter of various metrology societies and educational institutions around the country.

- ASME B89, the U.S. dimensional metrology standards writing committee
- ASME B46, the U.S. surface texture standards writing committee
- ISO/TC 213, the international standards writing committee for geometric product specifications
- NCSL International, the leading society committed to excellence in measurement science
- Center for Precision Metrology, University of North Carolina at Charlotte
- Mitutoyo Metrology Laboratory, Northern Illinois University

## SUPPORT SERVICES

At Mitutoyo America Corporation, we know your business demands more than quality metrology products. You need a partner with the resources to provide support and add value that contributes to your success.

### FIELD SERVICE

Mitutoyo America Corporation boasts one of the most comprehensive A2LA-accredited field service groups in the United States. Factory-trained service technicians are strategically located throughout the country to ensure quick response times for installation, calibration and repair.

### REPAIR/PARTS FACILITIES

Two state-of-art repair facilities offer quality repairs with quick turnaround. We have an inventory of thousands of replacement parts in each repair center. Our goal is to keep your Mitutoyo tools and instruments in optimal working condition.

### PRODUCT TRAINING AND SUPPORT

Once the product is delivered, our support continues. Mitutoyo America Corporation has training centers located throughout the country offering training sessions on a regular basis. We also offer on-site training for those unable to visit our facilities. An extensive knowledgebase has been built and is maintained with past and present information to help our customers. Phone and email support allow customers to reach us in a manner that is convenient for them.

### TECHNICAL SUPPORT

For the most complex challenges, we have high-level technical experts ready to provide additional support.

## SALES SOLUTIONS/ SYSTEM DESIGN & INTEGRATION

Standard products alone cannot always solve your measuring challenges. That is why we established an engineering group to provide custom solutions. Whether you need fixturing or the integration of the latest metrology equipment into an automated cell, the Sales Solutions Group can customize a solution that's right for your needs.

Whatever the level of complexity for application and integration of measurement technologies – proven or newly emerging – you can count on the Sales Solutions Group to develop a plan to improve your process capability, productivity and bottom line.



## Mitutoyo

Find additional product literature and our product catalog [www.mitutoyo.com](http://www.mitutoyo.com)

Note: All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this printed matter as well as other technical data are to be regarded as approximate average values. We therefore reserve the right to make changes to the corresponding designs. The stated standards, similar technical regulations, descriptions and illustrations of the products were valid at the time of printing. In addition, the latest applicable version of our General Trading Conditions will apply. Only quotations submitted by ourselves may be regarded as definitive. Specifications are subject to change without notice.  
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Aurora, Illinois (Headquarters)  
Boston, Massachusetts  
Huntersville, North Carolina  
Mason, Ohio  
Plymouth, Michigan  
City of Industry, California  
Birmingham, Alabama  
Renton, Washington  
Houston, Texas

