

FALL PROMO 2023

PRECISION TOOLS & INSTRUMENTS

Effective October 2nd through December 15th





















Dear Valued Customers,

I want to take a moment to express my sincere appreciation for your continued support and commitment to Mitutoyo products and services.

The 2023 fall promotion contains many new products such as the completely redesigned LH600F Linear Height Gage, IDC/IDF indicators and pneumatic fixturing for the Litematic. The promotion also features popular Mitutoyo tools and instruments including data management solutions, calipers, micrometers, linear encoders, indicators, height gages, microscopes, hardness testers, Quick Scope digital microscopes and Quick Image digital profile projectors. Prices are Effective October 2nd through December 15th, 2023.

You can find all of the latest promotions, products and events on our website, www.mitutoyo.com as well as My.Mitutoyo.

Thank you for trusting us with your metrology needs.

Sincerely,

Matthew B. Syc President, Mitutoyo America Corporation

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Mitutoyo is pleased to announce the release of MF microscope packages

that include the M2 geometric software and touch screen tablet as well as a retrofit package for D generation MF and MF-U microscopes in the field.

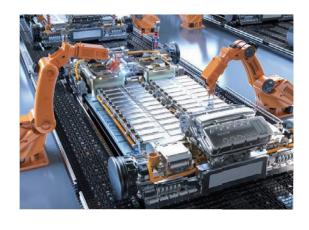
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Digimatic Scales

Solution for Battery Foil Thickness Measurement

The key to success:

High accuracy thickness measurement of battery foil samples

- > The combination of the Litematic and the vacuum plate system provides high accuracy measurement of easily deformed material.
- > Liternatics allow measurements at forces as low as 0.01N. The ceramic ball contact included with the Vacuum Packages will increase the force to 0.04N.
- > The vacuum plate absorbs the contact-sensitive specimen, such as a battery film, onto the plate surface for more stable measurement.
- > Mitutoyo America provides vacuum plate packages as well as custom made solutions.
- > Optional set 02AZE375 enables the application of up to 10 intermediate forces.
- > Data export to MeasurLink® and MS Excel.







318-221A + 64PKA297



318-221A + K543722



318-226A + 64PKA298 + 957460



Stand-alone Litematic Main Unit

Code	Model	Test Force*	List	Promo
318-221A	VL-50-B	0.01N	\$9,340.00	\$8,406.00

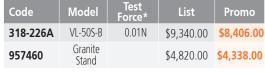
- > Measuring accuracy (20°C) up to (0.5+L/100) µm L=arbitrary measuring length (mm)
- > Repeatability up to 0.05 µm
- *The ceramic ball contact included with Vacuum Packages will add 0.03N



Vacuum Package Add-Ons

	Code	Model	List	Promo
3	64PKA297	50x50mm Vacuum Package	\$4,139.00	\$3,725.10
	K543722	Laser activated Vacuum Package	\$8,990.00	\$8,091.00

Separate Type Litematic Main Unit



- > Measuring accuracy (20°C) up to (0.5+L/100) µm L=arbitrary measuring length (mm)
- > Repeatability up to 0.05 µm
- *The ceramic ball contact included with Vacuum Packages will add 0.03N



Vacuum Package Add-Ons

Code	Model	List	Promo
64PKA298	100x100mm Vacuum Package	\$5,139.00	\$4,625.10





High-Accuracy Height Gage Linear Height LH-600F/FG600E

The highest accuracy height gage on the market is now even easier to use.

The Mitutoyo LH-600F Linear Height Measurement System is the latest model in the Mitutoyo Linear Height Gage line, designed to be more user-friendly while maintaining the best-in-class reliability and accuracy of previous models.

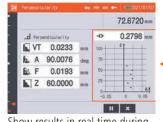
New Features:

- > Rotatable touch screen interface
- > New self-check feature
- > High-accuracy encoder more resistant to contaminants
- > Improved 2D mode
- > Calibration date warning
- > S1 Digimatic output capable of sending data directly to Excel, wired or
- > Additional probe and extension options

Still Featuring:

- > Resolution down to 0.1µinch (selectable)
- > Highest accuracy in its class \pm (1.1+0.6L/600) μ m
- > Pneumatic full/semi-float system with built-in compressor
- > Capable of standard measurements such as heights and diameters or advanced measurements like angles, diagonal distances and perpendicularity (optional probes may be required)
- > The Origin can be set at centerline positions, peaks of radii or simply on the surface plate or gage blocks

Perpendicular/straightness measurement - Graph creation



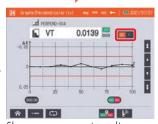
Show results in real time during measurement.



You can monitor the graphs of past measurement results.



Show results after measurement.



Show measurement results in graph form.

Order No	Description	Range (Stroke)	Resolution (selectable)	List	Promo
Promo030	LH-600F INCH/MM	977mm (600mm) / 38" (24")	0.0001/0.001/0.01/0.1mm .0000001/.000001/.00001/.0001"	\$9,995.00	\$8,995.50

Easy operation using keypad and touch screen navigation

Contextual guidance on the large-screen touch panel supports your measurements.





Simple, straightforward keys with icons

Icons allow the user to find the required operation at a glance.



Height (top)

measurement

Shaft (top)

measurèment

Hole (bottom)

measurement



measurement

Shaft (bottom)

measurement

Hole (top)

measurement





Width (inside) measurement





Circle (shaft) measurement



Max.-Min. (top) measurement



Circle (hole) measurement



(bottom) measurement

Touch panel with guidance

Measurement guidance is displayed on the large touch panel of the 8.4-inch color LCD, enabling intuitive operation.



Operable with gloves

Advanced measurement functions



Part program measurement



2D measurement



Measurement settings







Probe selection



Measurement origin switching

Other





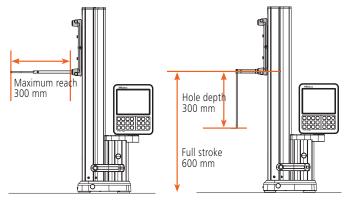


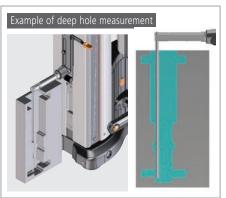


Data output

Expanded measurement area

With the new optional probes, you can now measure areas that were beyond the capacity of conventional probes.





To see full brochure, use the QR code below.



IDC/IDF Digimatic Indicators

High-performance ABS Digimatic Indicators

- >20 µinch/0.5 µm resolution. The ID-C and ID-F ranges now include models with 0.0005 mm resolution. The units are also capable of resolution switching. *Except for the ID-C 0.01 mm resolution model.
- > Large screen and analog bar. The units have large screens that can display various information in an easy-to-read manner. They also have an analog bar, convenient for observing subtle movements such as the approach to tolerance.
- > **New Digimatic S1 Output.** S1 is Mitutoyo's new, bidirectional output format that enables writing information to the gages such as calibration date warnings, operator info, and the ability to poll the serial number (wired or wirelessly) for easier gage management.
- **> Calibration period notification function.** The LCD displays an icon to notify the user when the set calibration time approaches. This facilitates the proper precision management of ID-C/ID-F.



> **Simple Calculation Function.** The result of the spindle movement value multiplied by the calculation coefficient can be displayed in real time. This reduces the work of measuring with a jig or similar tool.

f(x) = Ax f(x): Displayed value x: Spindle movement value A: Selected value



Large screen and analog bar

The units have large screens that can display various information in an easy-to-read manner. They also have an analog bar, convenient for observing subtle movements such as the approach to tolerance.



ID-C Series - Battery Operated

Order No.				Maximu	m Permissible	Error	Measuring		Net m	ass (g)				
With Lug	Flat Back	Range	Resolution	MPE	Hysteresis MPE _H	Repeatability MPE	force MPL (N)	Interface	With Lug	Flat Back	List	Promo		
543-702	543-702B	0.5" / 12.7mm		0.00042#./			1.5 or less	d1/d2/S1	195	165	\$482.00	\$433.80		
543-707	543-707B	0.5" / 12.7mm	0.00002" / .00005" / 0.0001" / 0.0005" 0.0005mm / 0.001mm /	± 0.00012" / 0.002mm /			0.00008" /	0.00008" /	0.4 to 0.7	d1/d2/S1	190	160	\$753.00	\$677.70
-	543-722B	1" / 25.4mm			0.00006 / 0.002mm	,	0.00008 / 0.002mm	1.8 or less	d1/d2/S1	-	195	\$620.00	\$558.00	
-	543-732B	2" / 50.8mm	0.01mm	± 0.0002" / 0.005mm			2.3 or less	d1/d2/S1	-	260	\$808.00	\$727.20		
543-712	543-712B	0.5" / 12.7mm					0.9 or less	d1/S1	190	160	\$352.00	\$316.80		
543-717	543-717B	0.5" / 12.7mm		± 0.001 " / 0.02mm	n 0.001" /	0.001" / 0.0005" / 0.02mm 0.01mm	0.2 to 0.5	d1/S1	185	155	\$564.00	\$507.60		
-	543-727B	1" / 25.4mm	0.0005" / 0.01mm				1.8 or less	d1/S1	-	190	\$516.00	\$464.40		
-	543-737B	2" / 50.8mm		± 0.0015" / 0.04mm			2.3 or less	d1/S1	-	245	\$677.00	\$609.30		

ID-F Series - AC Powered

			Maximum	Permissible Err	or	Measuring		Net mass		
Order No.	Range	Resolution	MPE	Hysteresis МРЕн	Repeatability MPE _R	force MPL (N)	Interface	(g)	List	Promo
543-852A	1" / 25.4mm	0.005mm / 0.001mm / 0.01 mm	± 0.0001" / 0.0025mm	0.00008" /	0.00008" /	1.8 or less	d1/d2/S1	240	\$757.00	\$681.30
543-854A	2" / EO 9mm	0.00002" / .00005" / 0.0001" /	± 0.00016" / 0.004mm			2.3 or less	d1/d2/S1	330	\$860.00	\$774.00
543-858A	2" / 50.8mm	0.0005"/ 0.001" (selectable)	± 0.00012" / 0.003mm	0.002mm	0.002mm	2.3 or less	d1/d2/S1	330	\$877.00	\$789.30

Calculation-Type Digimatic Indicator ID-C

- > Calculation-Type Digimatic Indicator features both a key lock and parameter lock.
- > Fast measurement frequency up to 50 per second.
- > An analog bar provides easy-to-read values when scanning for Max, Min and TIR Values.
- > Improved parameter setting software makes it even easier to set all of the available parameters and determine and upload the proper coefficients for calculation. (optional) 21EZA313
- > The ABSOLUTE Digimatic indicator performs internal calculations using the formula Ax+B+Cx-1 (assuming spindle displacement as x), while the specified coefficients

feature allows for reading measurements directly, without searching for conversions.

A, B and C can be set with respect to the purpose of measurement or dimensions of the fixtures. This unique





MeasurLink® ENABLED

Order No.	Resolution	Range	Accuracy	Measuring Force	List	Promo
543-342B-10	.00005/.0001/.0005" (0.001/0.01mm)	.5"/12.7mm	±.00010"/0.003mm	1.5N or less	\$504.00	\$453.60





SPC cable - 1m: 905338 2m: 905409



Installed on

gage probe

(page 9)

optional bore

Stem dia. 3/8" #4-48 UNF Thread

Bore Gage ABSOLUTE Digimatic Indicator ID-C

- > Hold automatically picks up hole diameter after a sweep.
- > Bore Gage Digimatic Indicator features both a key lock and parameter lock.
- > Fast measurement frequency up to 50 per second.
- > An analog bar indicator is integrated to enhance the intuition in reading.
- > Up to three sets of master values and upper/lower tolerance values can be memorized.

MeasurLink® ENABLED Data Management Software by Mituto > GO/NO-GO judgment

- > Employing the ABSOLUTE linear encoder, the ID-C always displays the spindle Absolute Position from the origin at power-on.
- > Improved parameter setting software makes it even easier to set all of the available parameters and determine and upload the proper coefficients for calculation. (optional) 21EZA313

MeasurLink® ENABLED



Order No. Resolution Range Accuracy **Measuring Force** Promo .00005/.0001/.0005" 543-312B-10 .5"/12.7mm ±.00010"/0.003mm 1.5N or less \$504.00 \$453.60 (0.001/0.01mm) Selectable



SPC cable - 1m: 905338 2m: 905409

Peak Hold ABSOLUTE Digimatic Indicator ID-C

With Max./Min. Value Holding Function

- > Peak Hold Digimatic Indicator features both a Key Lock and Parameter Lock.
- > An analog bar provides easy-to-read values when scanning for Max, Min and TIR Values.
- > GO/NO-GO judament
- > The maximum, minimum or runout value can be displayed during measurement.
- > Fast measurement frequency up to 50 per second.
- > Employing the ABSOLUTE linear encoder, the Signal ID-C always displays the spindle Absolute Position from the origin at power-on.
- > Improved parameter setting software makes it even easier to set all of the available parameters and then determine and upload the proper coefficients for calculation. (optional) 21EZA313

			/ - I	- /		
Order No.	Resolution	Range	Accuracy	Remarks	List	Promo
Stem dia. 3/8", #4-48 UNF Thread						
543-302-10	.00005/.0001/.0005" 0.001/0.01mm	.5"/12.7mm	±.00010"/0.003mm	w/lug	\$504.00	\$428.40
543-302B-10	Selectable	.5"/12.7mm	±.00010"/0.003mm	Flat-back	\$504.00	\$428.40

SPC cable - 1m: 905338 2m: 905409



Digimatic Indicator ID-H

Remote Programming Capable

> This digital indicator offers the excellent accuracy and functionality expected from this class of indicator. Take advantage of its high accuracy backed up by 0.5µm / .00002" resolution, remote control functionality via a handheld controller (or an RS-232C interface) and easy runout measurements with the well-established analog bar display.

Stem dia. 3/8" #4-48 UNF Thread

- >The maximum, minimum or runout value can be displayed during measurement.
- > GO/NO-GO judgment is performed by setting the upper and lower tolerances. If a judgment result is out of tolerance, the display backlighting changes from green to red, so tolerance judgment can be made at a glance.
- > With RS-232C input/output



Order No.	Resolution	Range	Model	Accuracy	List	Promo
543-562A	.00002", .00005", .0001", 0.0005mm,	1.2" / 30.4mm	ID-H530E	0.0015mm	\$1,000.00	\$900.00
543-564A	0.001 , 0.0003fffff, 0.001mm	2.4" / 60.9mm	ID-H560E	0.0025mm	\$1,190.00	\$1,071.00

SPC cable - 1m: 936937 2m: 965014

ABSOLUTE Digimatic Indicator ID-U

- > Slim digital indicator with low price.
- > Large LCD and simple key operation.
- > After the initial origin setting, the ID-U no longer needs absolute positioning over the entire battery life; the origin is remembered even after power-off.
- > Ideal for installation into measuring devices because of compact design and long battery life.
- > Employing the ABSOLUTE linear encoder, the ID-U always displays the spindle Absolute Position from the origin at power-on. Also unlimited response speed eliminates overspeed errors.
- > Flat-back type has no option for backs.

Order No.	Resolution	Range	Model	Accuracy	Measuring force	List	Promo
575-123	.0005"/0.01mm	1" / 25.4mm	ID-U1025E	.0008"	1.8N or less	\$221.00	\$198.90

SPC cable - 1m: 905338 2m: 905409



Bore Gages

- > Carbide-tipped contact points for durability.
- > The dial indicator is fully protected by a rugged cover.
- > Optional extension rods can be attached for measuring deep holes.



See Digimatic indicators made specifically for bore gages (page 7)



511-751

Order No.	Range	Anvils	Spacers	List	Promo
511-751-20	.7 - 1.4"	9	2	\$467.00	\$443.65
511-752-20	1.4 - 2.5"	6	4	\$455.00	\$432.25
511-753-20	2.0 - 6.0"	11 (2" sub anvil)	4	\$497.00	\$472.15
511-754-20	4.0 - 6.5"	13	4	\$657.00	\$624.15
511-755-20	6.5 - 10"	6	7	\$741.00	\$703.95
511-756-20	10 - 16"	5 (3" sub anvil)	7	\$880.00	\$836.00



Linear Gages / EJ Counters

Mitutoyo

EJ Series Industrial interface-mounted compact counter

Compact size and easy to use

Up to 8 compact counters (EJ counters) can be linked providing the capacity to connect up to 16 gages. On a DIN rail, each unit can be connected directly without using cables, so it takes up minimal space. All linked units and gages can be driven by a single power source.

EtherNet/IP, CC-Link, PROFINET, EtherCAT or USB Connection

Data can be output through an industrial interface by linking a compact counter (EJ counter) with an interface unit. Constant data monitoring and positional management are performed. A USB interface is also provided for easy connection with a computer.

Note: The range of interfaces is set to be expanded in the near future.

Calculation function

Enables sum difference operations between 2 gages connected to the same counter. Functions such as tolerance judgment and peak hold are also included.



Order No	Description	List	Promo
542-190	LG100-110, Range: .4"/10mm, Res: .00005"/1µm	606.00	\$575.70
542-193	LG100-125, Range: 1"/25mm, Res: .00005"/1µm	\$772.00	\$733.40
542-196	LG100-150, Range: 2"/50mm, Res: .00005"/1µm	\$936.00	\$889.20
542-191	LG100-0510, Range: .4"/10mm, Res: .00002"/0.5μm	\$661.00	\$627.95
542-194	LG100-0525, Range: 1"/25mm, Res: .00002"/0.5μm	\$827.00	\$785.65
542-197	LG100-0550, Range: 2"/50mm, Res: .00002"/0.5μm	\$992.00	\$942.40
542-192	LG100-0110, Range: .4"/10mm, Res: 5µinch/0.1µm	\$716.00	\$680.20
542-195	LG100-0125, Range: 1"/25mm, Res: 5µinch/0.1µm	\$882.00	\$837.90

Linear Gage LG200 Series





Order No	Description	List	Promo
542-081	Main EJ Module Counter	\$524.00	\$497.80
542-081A	Main EJ Module w/AC Components	\$606.00	\$575.70
21HZA149	USB only interface	\$385.00	\$365.75
21HZA186	CC-Link Module (Mitsubishi), and USB	\$854.00	\$811.30
21HZA187	PROFITNET Module	\$854.00	\$811.30
21HZA188	EtherNet/IP Module	\$887.00	\$842.65
21HZA264	EtherCat Module	\$850.00	\$807.50

High accuracy

Precision and accuracy demanded by the automated assembly and inspection markets, are guaranteed. Due to our expertise as a manufacturer of measuring instruments, repeatability in the full measurement range (2σ) and narrow-range precision are also quaranteed.

Environment resistance

Sliding durability of more than 50 million cycles*, with protection level of IP67G. A highly oil-resistant material is used in the rubber cap and cable sheath, so it can be used even in harsh environments.

* 10 mm range models (Actual value from in-house tests)

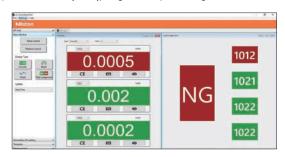
Reference point detection (LG100 Series)

Reference point signal output functions are featured throughout this series. When incorporating into a device the master setting value is easy to set and is retained after shutdown.

LG QuickSetup Tool

A configuration tool is FREE for use with the EJ counter when connected via the optional USB interface. Multiple settings normally carried out with counter operating keys can now be easily applied from a computer. Live displays allow for easily viewing gage positions or measurements at a glance.

Note: This software can be used free of charge and downloaded from the Mitutoyo website. https://www.mitutoyo.co.jp/eng/contact/products/lg/



Quickmikes

The new Quickmike series still boasts the super-fast spindle feed rate that's 20x faster than standard micrometers.

IP65 protection – can be used around cutting fluids

- > MIN Hold the minimum measurement can be held on the display for more repeatable and accurate measurements
- > Larger LCD 33% larger, 10mm character height
- > Function lock prevents accidental changes
- > 5 year battery life − more operating time, less downtime looking for and replacing batteries
- > Non-rotating spindle







Order No.	Range	Resolution	Accuracy	Flatness	Parallelism	List	Promo
293-676-20	0 - 1.2"	.00005"/0.001mm	±0.0001"	0.000012"	0.00008"	\$673.00	\$639.35
293-677-20	1 - 2.2"	.00005"/0.001mm	±0.0001"	0.000012"	0.00008"	\$735.00	\$698.25

SPC cable with data switch - 1m: 05C7A662 2m: 05C7A663



MDC-Lite Micrometer

- > Provided only with zero set and in/mm (inch/metric models only) keys.
- > A ratchet stop or friction thimble for a constant measuring force.
- > Measurement readout with large characters on the LCD.
- > No spindle clamp. No data output.

Order No.	Range	Resolution	Remarks	List	Promo
293-831-30	0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	Ratchet Stop	\$171.00	\$162.45
293-832-30	0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	Friction Thimble	\$182.00	\$172.90



Digimatic Micrometer

- > New electromagnetic ABSOLUTE sensor Improved resistance to environmental conditions such as dirt, oil and water, which can cause false readings.
- > New ratchet thimble on select models improves one-hand operability.
- > New anti-slip finish for improved grip while taking measurements.
- >Long battery life 2.4 years under normal operation.
- > Fully compatible with existing Mitutovo Digimatic peripherals (SPC Cables. U-WAVE wireless transmitters, DP1-VA, etc.) – SPC output-enabled IP65 models.
- > Function-lock system prevents inadvertent setting changes.
- > Certificate of Inspection provided.





COOLANT PROOF

	Order No.	Range	Resolution	Remarks	List	Promo
fit	293-330-30*	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Stop	\$272.00	\$258.40
	293-340-30	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Stop	\$226.00	\$214.70
	293-344-30	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Thimble	\$226.00	\$214.70
	293-349-30	0-1"/0-25.4mm	.0001"/0.001mm	Ratchet Thimble, tenths reading	\$226.00	\$214.70
fit	293-331-30*	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Stop w/Standard	\$320.00	\$304.00
	293-341-30	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Stop w/Standard	\$275.00	\$261.25
	293-345-30	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Thimble w/Standard	\$275.00	\$261.25
fit	293-334-30*	0-1"/0-25.4mm	.00005"/ 0.001mm	Ratchet Thimble	\$292.00	\$277.40
fit	293-335-30*	0-1"/0-25.4mm	.00005"/0.001mm	Friction Thimble	\$272.00	\$258.40
	*with SPC Outpu	ut /fit U-V	VAVE Fit compatible	SPC cable with data switch –	1m: 05CZA662	2m: 05CZA663



MeasurLink® ENABLED

Purchase the world's first 5µinch /0.1µm resolution micrometer and receive a USB input tool and cable (\$300 value)

Using precision digital measuring tools together with a USB input tool improves both measurement results and data reliability. The high-accuracy MDH with 5 millionths resolution can output in its entirety in both inch and metric. Resulting data can input directly to Excel®, MeasurLink®,® or other SPC programs.

To receive this special offer, use promo code: **PROMO029**.

> Range: 0-1", Resolution: .000005", Accuracy: +/- .000020

Part #	Description	List Price
PROMO029	Package: MDH Mic, SPC Cable, USB Input Tool	\$1,850.00
293-130-10	MDH Micrometer with high accuracy, high resolution output	\$1,850.00
05CZA662	SPC CONNECTING CABLE (1M)	\$92.35
264-020	USB INPUT TOOL	\$217.00



MeasurLink®,® Defect Analytics for Power BI

Bridging the gap between precision measurement and insightful analytics.

Unlock advanced data insights from your existing MeasurLink® data. With Power BI, these insights become interactive, visual, and easily shareable across your organization, transforming complex data into meaningful narratives. Customizable dashboards offer a real-time overview of your operations, enabling you to guickly identify trends, pinpoint issues, and make data-backed decisions faster than ever before. You can leverage the integrated system's full capabilities on any device, providing unprecedented flexibility and responsiveness. Imagine the benefits this powerful synergy could bring to your organization – increased operational efficiency, improved product quality, and enhanced competitive advantage.

Quality Dashboard Benefits

- > Identify locations of quality problems in a manufacturing plant
- > Identify parts with quality problems
- > Identify characteristics with quality problems
- > Inspection count activity
- > Identify time series of quality
 - improvement:
 - Month over Month
 - Week over Week

Power BI Defect Analysis

- > Microsoft Power BI report
- > Data Model from MeasurLink®, DB
- > Visuals for Inspection Count and Defects
- > Multi-page
- > Summary and Overview
- > Time over time

MeasurLink®, Data Model

- > Star schema built around Inspection Run Data
- > Characteristic Tolerance and Actual used for determining defects
- > DAX expressions used to preprocess extracted data

- > Defect count and percentages
- - Day over Day
- > Drill through ability
- > Filters (Dimensions) for:
 - Station
 - Part
 - Routine
 - Characteristic - Date Range
- > Data model intended to be refreshed periodically (e.g., daily) - scheduled in Power BI service
- > Web publishing and viewing requires Microsoft Power BI subscription (not provided with purchase of report)





Order No.	Description	List	Promo
64AAB857	MeasurLink®, Defect Analytics Report for Power BI	\$1,995.00	\$1,895.25

Calipers / Caliper Checker

Coolant-Proof Calipers

- > Sealed housing is IP-67 rated, meaning it's immune to the coolants, dirt, grit and chips found in many manufacturing environments.
- > Easy to use no need to wipe or clean the scale.
- > .0005"/0.01mm resolution with ±.001" accuracy.
- > Automatic power-on/off.
- > Certificate of Inspection provided.





MeasurLink® ENABLED

	Order No.	Range	List	Promo
	Non-Output Style			
	500-752-20	0-6"/0-150mm	\$237.00	\$225.15
	500-753-20	0-8"/0-200mm	\$317.00	\$301.15
	SPC Output Style			
fit	500-762-20	0-6"/0-150mm	\$281.00	\$266.95
fit	500-763-20	0-8"/0-200mm	\$354.00	\$336.30
	* . 001E# accuracy			

^{* ±.0015&}quot; accuracy U-WAVE Fit compatible

mpatible SPC cable – 1m: **05CZA624** 2m: **05CZA625**



COOLANT PROOF™ (P67

COOLANT PROOF is the universal term of Mitutoyo Digimatic Small Tool Instruments that are free from measurement error and physical deterioration due to routine exposure to water, cutting oil or coolant. This high performance is achieved by using encoders that are inherently immune to contamination, where exposure is inevitable, combined with comprehensive sealing techniques and extremely oil-resistant materials to guarantee a long working life under normal operating conditions.

Digimatic Carbon Fiber Caliper



Order No.	Range	Accuracy	Resolution	List	Promo
552-312-10	0(.5")-18"	+/002"	.0005"/0.01mm	\$1,070.00	\$1,016.50
552-313-10	0(.5")-24"	+/002"	.0005"/0.01mm	\$1,200.00	\$1,140.00
552-314-10	0(1")-40"	+/002"	.0005"/0.01mm	\$2,150.00	\$2,042.50
552-315-10	0(1")-60"	+/004"	.0005"/0.01mm	\$2,570.00	\$2,441.50
552-316-10	0(1")-80"	+/005"	.0005"/0.01mm	\$4,020.00	\$3,819.00

SPC cable – 1m: **05CZA624** 2m: **05CZA625**

- > Lightweight Digimatic Calipers that employ CFRP (Carbon Fiber Reinforced Plastics) in the beam and jaws.
- > Highly durable and easy to handle.
- > Direct readout of ID measurements from the LCD. (Offset value can be set easily by pressing the Offset key.)
- > Preset function for setting a desired starting point.
- > With SPC data output.
- > Special models available with ceramic jaws which are suitable for measuring abrasive and magnetic products.
- > Can be used in workshop conditions exposed to coolant, water, dust or oil.
- > Incorporates ABSOLUTE measurement system.
- > Automatic power-on/off.

CERA Caliper Checker

- > Permanently wrung, high grade CERA gage blocks in a protective metal casing.
- > Stands perpendicular for height gage inspection.
- * Also includes same features as CERA Gage Blocks

CERA (Zirconia Ceramic) Gage Blocks*

- > Extremely high wear resistance, 3x better than carbide.
- > Corrosion proof no oil needed.
- > Closest expansion coefficient to steel.
- > Anti-magnetic keeps away steel dust.
- > High wringing force due to high density.
- > Crack and burr resistant.
- > Low thermal conductivity excellent dimensional stability under brief temperature changes (from handling, etc.).



Order No.	Range	Remarks (length to check)	List	Promo
515-565	0 - 12"	Outside measurement: 1", 2", 4", 6", 8", 10", 12" Inside measurement: 1", 2", 4", 6", 8", 10", 12"	\$4,980.00	\$3,336.60

Prices effective October 2nd – December 15th

Calipers / Caliper Checker

Digimatic Calipers

- AOS Electromagnetic inductive sensor improves environmental resistance against dirt, water and oil.
- A battery life of approximately 3.5 years has been achieved under normal use through the adoption of Mitutoyo's ABSOLUTE scale.
- > The slider configuration features an ergonomic, thumb-friendly shape.
- > Step-measurement capable.
- > The data output function allows integration into Statistical Process Control and measurement systems.
- > Display character height: 9mm
- >AOS applies to 4", 6" and 8" models
- > Resolution: .0005"/0.01mm

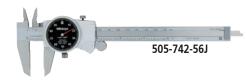


	Order No.	Range	Remarks	List	Promo					
	No SPC Output Style									
	500-195-30	0-4"/0-100mm	.075" round depth bar	\$163.00	\$154.85					
	500-197-30	0-8"/0-200mm		\$255.00	\$242.25					
	With SPC Outp	out Style								
fit	500-170-30	0-4"/0-100mm	.075" round depth bar	\$195.00	\$185.25					
fit	500-171-30	0-6"/0-150mm		\$207.00	\$196.65					
fit	500-172-30	0-8"/0-200mm		\$273.00	\$259.35					
	500-505-10	0-18"/0-450mm	without thumb roller	\$930.00	\$883.50					
	500-506-10	0-24"/0-600mm	without thumb roller	\$1,020.00	\$969.00					
	500-507-10	0-40"/0-1000mm	without thumb roller	\$1,970.00	\$1,871.50					

Tit U-WAVE Fit compatible

SPC cable with data switch – 1m: **959149** 2m: **959150**

Dial Caliper



- > Smooth sliding with high shock protection.
- > Lock screw for dial bezel and for holding the sliding jaw position.
- > Can measure OD, ID, depth and steps.
- > Models available with carbide-tipped OD and ID jaws.

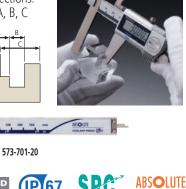
Order No.	Range	Remarks	List	Promo
505-742J	0 -6" .100"/rev		\$143.00	\$135.85
505-738J	0 -6" .100"/rev	carbide-tipped jaws	\$234.00	\$222.30
505-740J	0 -6" .200"/rev		\$131.00	\$124.45
505-743J	0 -8" .100"/rev		\$209.00	\$198.55
505-746J	0 -12" .100/rev		\$318.00	\$302.10
505-749J	0 -12" .200/rev		\$297.00	\$282.15
505-742-56J	0 -6" .100"/rev	black dial face	\$143.00	\$135.85

Offset Caliper

Main scale jaw can slide up and down to facilitate measurement of stepped sections. (Hard-to-reach dimensions such as A, B, C can be accurately measured.)

> With depth bar.

>With SPC data output.



	Order No.	Range	Accuracy	Resolution	List	Promo
fit	573-701-20	0 - 6" / 0 - 150mm	±.001"	.0005" / 0.01mm	\$527.00	\$500.65
fit	573-702-20	0 - 8" / 0 - 200mm	±.001"	.0005" / 0.01mm	\$604.00	\$573.80
fit	573-704-20	0 - 12" / 0 - 300mm	±.0015"	.0005" / 0.01mm	\$809.00	\$768.55

fit U-WAVE Fit compatible

SPC cable with data switch - 1m: 05CZA624 2m: 05CZA625

Point Caliper

> Narrow tip jaws fit into very small grooves and tracks, making many previously difficult outside measurements easier to achieve.

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> With SPC data output.





	Order No.	Range	Accuracy	Resolution	List	Promo
fit	573-721-20	0 - 6" / 0 - 150mm	±.001"	.0005" / 0.01mm	\$461.00	\$437.95
fit	573-725-20*	0 - 6" / 0 - 150mm	±.001"	.0005" / 0.01mm	\$573.00	\$544.35

Low-Force Caliper

> Due to the low measuring force, these calipers are ideal for elastic or resilient workpieces such as plastic parts and rubber parts that standard calipers can't measure consistently.

> With SPC data output.





fit U-WAVE Fit compatible

Borematic

Quick, spring-loaded lever action/movement

- > Titanium-coated measuring pins provide excellent durability and impact resistance, while allowing the instrument to measure close to the bottom of blind holes.
- > Digital display with guick-action lever operation enables guick and easy measurement.
- > Built-in ABSOLUTE System eliminates the need to set the origin point every time the unit is turned on. The system is immune to over-speed errors, thus increasing the reliability of measurement.
- > The Digimatic Borematic is compatible with statistical process control systems and measurement support systems.
- > Built-in tolerance judgment function allows GO/NO-GO judgment based on user-defined upper and lower limit settings.

MeasurLink® ENABLED

ABSOLUTE[®]

Individual Gages: includes one digital display unit and one interchangeable measuring head (plus adapter if required)

Order No	Size Range	Accuracy	Extension Rod	List	Promo
568-461	0.275" - 0.350"			\$1,600.00	\$1,280.00
568-462	0.350" - 0.425"	±5µm ±0.00025 in	100mm (952322)	\$1,600.00	\$1,280.00
568-463	0.425" - 0.500"	±0.00023 III		\$1,600.00	\$1,280.00
568-464	0.50" - 0.65"	±5µm	1E0mm (0E2621)	\$1,630.00	\$1,304.00
568-465	0.65" - 0.80"	±0.00025 in	150mm (952621)	\$1,630.00	\$1,304.00
568-466	0.8" - 1.0"			\$1,630.00	\$1,304.00
568-467	1.0" - 1.2"		150mm (952622)	\$1,690.00	\$1,352.00
568-468	1.2" - 1.6"			\$1,870.00	\$1,496.00
568-469	1.6" - 2.0"			\$1,870.00	\$1,496.00
568-470	2.0" - 2.5"	±6µm		\$1,830.00	\$1,464.00
568-471	2.5" - 3.0"	±0.0003 in		\$1,890.00	\$1,512.00
568-472	3.0" - 3.5"		1E0mm (0E2622)	\$1,920.00	\$1,536.00
568-473	3.5" - 4.0"		150mm (952623)	\$1,920.00	\$1,536.00
568-474	4.0" - 4.5"			\$2,020.00	\$1,616.00
568-475	4.5" - 5.0"			\$2,130.00	\$1,704.00

Complete Unit Gage Sets: includes several individual gages to cover the overall size range of the set

Order No	Overall Range	Range of Individual Gages	Setting Rings	List	Promo
568-965	0.275" - 0.5"	0.275-0.35", 0.35-0.425", 0.425-0.5"	0.35" DIA., 0.425" DIA.	\$5,530.00	\$4,424.00
568-966	0.5" - 1"	0.5-0.65", 0.65-0.8", 0.8-1"	0.65" DIA., 0.8" DIA.	\$5,760.00	\$4,608.00
568-967	1" - 2"	1-1.2", 1.2-1.6", 1.6-2"	1.2" DIA., 1.6" DIA.	\$6,020.00	\$4,816.00
568-968	2" - 3"	2-2.5", 2.5-3"	2.5" DIA.	\$4,310.00	\$3,448.00
568-969	3" - 4"	3-3.5", 3.5-4"	3.5" DIA.	\$4,780.00	\$3,824.00

Interchangeable-Head Sets

Order No	Overall Range	Range of Individual Gages	Setting Rings	List	Promo
568-928	0.275" - 0.5"	0.275-0.35", 0.35-0.425", 0.425-0.5"	0.35" DIA., 0.425" DIA.	\$2,460.00	\$1,968.00
568-929	0.5" - 1"	0.5-0.65", 0.65-0.8", 0.8-1"	0.65" DIA., 0.8" DIA.	\$2,780.00	\$2,224.00
568-930	1" - 2"	1-1.2", 1.2-1.6", 1.6-2"	1.2" DIA., 1.6" DIA.	\$3,400.00	\$2,720.00
568-936	2" - 4"	2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5" DIA., 3.5" DIA.	\$4,890.00	\$3,912.00

Includes one digital display unit with several interchangeable measuring heads (and adapters as required) to cover the total size range plus one extension rod



Technical Data

Resolution: 0.001mm or 0.00005

in/0.001mm Display: LCD Response

Infinite speed:

SR44 (1 pc), 938882, Battery:

for initial operational checks (standard accessory)

Battery life: Approx. 5,000 hours in continuous use

Scale type: Electrostatic capacitance absolute encoder

Functions

GO/NO-GO judgment, GO/NO-GO judgment zoom, 2-Point Preset, Zero-setting, Data hold, Error alarm, Low battery voltage alert, Data output, Function Lock, 330° rotary display, inch/mm conversion (inch/mm models)





Digimatic Holtest

- > Titanium-coated measuring pins provide excellent durability and impact resistance, while allowing the instrument to measure close to the bottom of blind holes.
- > Large LCD readout.
- > Functions available: Presetting, Zero/ABS, Auto power On/Off, Data hold, Data output, Error alarm, Battery replacement alarm.
- > With ratchet stop for constant force.
- > Measure deep holes by attaching an extension rod (optional).
- > Setting rings are included in sets, but optional for individual gages.
- > Supplied in fitted plastic case up to 4"/100mm. Over 4"/100mm supplied in wooden case.
- > Resolution: .00005"/0.001mm (over 4" models: .0001"/0.001mm)

Digimatic Ho	Digimatic Holtests – Individual Units						
Order No.	Range	List	Promo				
468-261	Digimatic Holtest, .27535"	\$1,230.00	\$984.00				
468-262	Digimatic Holtest, .35"425"	\$1,230.00	\$984.00				
468-263	Digimatic Holtest, .4255"	\$1,240.00	\$992.00				
468-264	Digimatic Holtest, 0.5" - 0.65"	\$1,340.00	\$1,072.00				
468-265	Digimatic Holtest, 0.65" - 0.8"	\$1,340.00	\$1,072.00				
468-266	Digimatic Holtest, 0.8" - 1"	\$1,380.00	\$1,104.00				
468-267	Digimatic Holtest, 1.0 - 1.2"	\$1,380.00	\$1,104.00				
468-268	Digimatic Holtest, 1.2" - 1.6"	\$1,410.00	\$1,128.00				
468-269	Digimatic Holtest, 1.6" - 2.0"	\$1,420.00	\$1,136.00				
468-270	Digimatic Holtest, 2" - 2.5"	\$1,550.00	\$1,240.00				
468-271	Digimatic Holtest, 2.5" - 3"	\$1,550.00	\$1,240.00				
468-272	Digimatic Holtest, 3" - 3.5"	\$1,570.00	\$1,256.00				
468-273	Digimatic Holtest, 3.5" - 4"	\$1,590.00	\$1,272.00				
468-274	Digimatic Holtest, 4" - 5"	\$2,070.00	\$1,656.00				
468-275	Digimatic Holtest, 5" - 6"	\$2,130.00	\$1,704.00				
468-276	Digimatic Holtest, 6" - 7"	\$2,260.00	\$1,808.00				
468-277	Digimatic Holtest, 7" - 8"	\$2,350.00	\$1,880.00				
468-278	Digimatic Holtest, 8" - 9"	\$2,520.00	\$2,016.00				
468-279	Digimatic Holtest, 9" - 10"	\$2,570.00	\$2,056.00				
468-280	Digimatic Holtest, 10" - 11"	\$2,660.00	\$2,128.00				
468-281	Digimatic Holtest, 11" - 12"	\$2,770.00	\$2,216.00				
Digimatic H	oltests – Interchangeable Head Sets						
468-976	Digimatic Holtest Head Set, 0.275" - 0.5"*	\$2,240.00	\$1,792.00				
468-977	Digimatic Holtest, Head Set, 0.5" - 0.8"*	\$1,820.00	\$1,456.00				
468-978	Digimatic Holtest, Head Set, 0.8" - 2"*	\$4,540.00	\$3,632.00				
468-979	Digimatic Holtest, Head Set, 2" - 4"*	\$5,200.00	\$4,160.00				
468-980	Digimatic Holtest, Head Set, 4" - 8"*	\$6,110.00	\$4,888.00				
Digimatic H	oltests – Complete Unit Sets						
468-986	Digimatic Holtest, Unit-Set, 0.275" - 0.5"*	\$4,360.00	\$3,488.00				
468-987	Digimatic Holtest, Unit-Set, 0.5" - 1"*	\$4,630.00	\$3,704.00				
468-988	Digimatic Holtest, Unit-Set, 1" - 2"*	\$5,250.00	\$4,200.00				
468-989	Digimatic Holtest, Unit-Set, 2" - 3"*	\$5,890.00	\$4,712.00				
468-990	Digimatic Holtest, Unit-Set, 3" - 4"*	\$6,930.00	\$5,544.00				



OFF

Measuring Deep Holes

An extension rod (optional accessory) can be fitted to provide measurement of deep holes.









Interchangeable-Head Set

Holtest

- > Titanium-coated measuring pins provide excellent durability and impact resistance, while allowing the instrument to measure close to the bottom of blind holes.
- > Three-point design ensures self-centering action for stable measurements in the range above .275" bore diameter.
- > With ratchet stop for constant force.

Holtest Type II

> Holtest Type II models are also available. These lower costs units have solid, hardened alloy steel anvils.

Mechanical	Holtests – Individual Units		
Order No.	Description/Range	List	Promo
368-021	Holtest, 0.08" - 0.1"	\$1,660.00	\$1,328.00
368-022	Holtest, 0.1" - 0.12"	\$1,660.00	\$1,328.00
368-023	Holtest, 0.12" - 0.16"	\$1,330.00	\$1,064.00
368-024	Holtest, 0.16" - 0.2"	\$1,330.00	\$1,064.00
368-025	Holtest, 0.2" - 0.24"	\$1,330.00	\$1,064.00
368-026	Holtest, 0.24" - 0.28"	\$1,330.00	\$1,064.00
368-261	Holtest, 0.275" - 0.35"	\$660.00	\$528.00
368-262	Holtest, 0.35" - 0.425"	\$660.00	\$528.00
368-263	Holtest, 0.425" - 0.5"	\$660.00	\$528.00
368-264	Holtest, 0.5" - 0.65"	\$685.00	\$548.00
368-265	Holtest, 0.65" - 0.8"	\$685.00	\$548.00
368-266	Holtest, 0.8" - 1.0"	\$711.00	\$568.80
368-267	Holtest, 1.0" - 1.2"	\$711.00	\$568.80
368-268	Holtest, 1.2" - 1.6"	\$888.00	\$710.40
368-269	Holtest, 1.6" - 2.0"	\$936.00	\$748.80
368-270	Holtest, 2.0" - 2.5"	\$942.00	\$753.60
368-271	Holtest, 2.5" - 3.0"	\$1,020.00	\$816.00
368-272	Holtest, 3.0" - 3.5"	\$1,050.00	\$840.00
368-273	Holtest, 3.5" - 4.0"	\$1,100.00	\$880.00
368-274	Holtest, 4.0" - 5.0"	\$1,410.00	\$1,128.00
368-275	Holtest, 5.0" - 6.0"	\$1,600.00	\$1,280.00
368-276	Holtest, 6.0" - 7.0"	\$1,640.00	\$1,312.00
368-277	Holtest, 7.0" - 8.0"	\$1,700.00	\$1,360.00
368-278	Holtest, 8.0" - 9.0"	\$1,920.00	\$1,536.00
368-279	Holtest, 9.0" - 10"	\$2,160.00	\$1,728.00
368-280	Holtest, 10" - 11"	\$2,180.00	\$1,744.00
368-281	Holtest, 11" - 12"	\$2,240.00	\$1,792.00
Mechanical	Holtests – Complete Unit Sets		
368-916	Holtest, Set, 0.275" - 0.5"*	\$2,440.00	\$1,952.00
368-917	Holtest, Set, 0.5" - 0.8"*	\$1,640.00	\$1,312.00
368-918	Holtest, Set, 0.8" - 2.0"*	\$3,760.00	\$3,008.00
368-919	Holtest, Set, 2.0" - 4.0"*	\$5,350.00	\$4,280.00
368-920	Holtest, Set, 4.0" - 8.0"*	\$8,200.00	\$6,560.00
368-926	Holtest, 2pc Set, .08"12"*	\$3,520.00	\$2,816.00
368-927	Holtest, 4pc Set, .12"28"*	\$5,610.00	\$4,488.00





Measuring Deep Holes

An extension tube (optional accessory) can be fitted to enable measurement of deep holes.

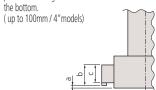


TiN coated contact points



Measuring a Blind Hole

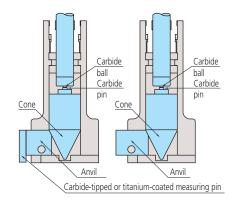
The measuring contact points held in the jaws permit measuring the diameter of a blind hole to



Range	a	b	С
6 - 12mm / .2755"	2	_	2.5
12 - 20mm / .58"	0.3	5.6	3.5
20 - 30mm / .8 - 1.2"	0.3	8.3	5.2
30 - 50mm / 1.2 - 2"	0.3	13	10
50 - 100mm / 2 - 4"	0.3	17	14
100 - 300mm / 4 - 12"	12.4	21	13.8

Inspection Certificate Supplied as Standard

An Inspection Certificate is supplied with each instrument, which assures product quality and safety. On request, Mitutoyo can issue a Calibration Certificate, at a cost, from our accredited calibration laboratory.



Height Gages / Surftest

Digimatic Height Gages

Now with higher resolution (.0002''/.0005'')

- > Heavy duty, multi-function type.*
- > Carbide-tipped long scriber is provided.
- > Rigid construction ensures repeatable measurement.
- > Switchable resolution.
- > Optional bi-directional touch probe. (192-008)*
- > Coarse/fine feed switching.
- > SPC data output.
- > ABS and INC modes.
- > Two-value preset memory.
- > Data/hold.
- > Inch/mm conversion.



Order No	Range	Resolution	Accuracy	List	Promo
192-670-10*	0-12"/0-300mm		±001"	\$2,010.00	\$1,608.00
192-671-10*	0-18"/0-450mm		±0015"	\$2,590.00	\$2,072.00
192-672-10*	0-24"/0-600mm		±0015"	\$3,320.00	\$2,656.00
192-673-10*	0-40"/0-1000mm	.0005"(0.01mm) [.0002"(0.005mm) Switchable)]	±0025"	\$6,210.00	\$4,968.00
192-630-10	0-12"/0-300mm		±001"	\$1,750.00	\$1,400.00
192-631-10	0-18"/0-450mm		±0015"	\$2,390.00	\$1,912.00
192-632-10	0-24"/0-600mm		±0015"	\$3050.00	\$2,440.00
192-633-10	0-40"/0-1000mm		±0025"	\$5,760.00	\$4,608.00

MeasurLink® ENABLED

192-670-10

Surftest SJ-210 Packages

- > The 2.4" color graphic, back-lit LCD provides excellent readability.
- > Replace Skid system offers user-friendly and intuitive menu navigation.
- > Performs roughness analysis conforming to various international standards (EN ISO, VDA, ANSI, JIS) and customized settings.
- > Calculation results, assessed profiles, bearing and amplitude curves can be displayed.
- > Supports 16 languages.

MeasurLink ENABLED Data Management Software by Mitutoyo



Order No	Description	List	Promo
64PKA226A	Calibration Package	\$3,250.00	\$2,762.50
178-561-12A	SJ-210 inch/mm 4mN (Standard Drive Unit)		
178-390	FREE EXTRA DETECTOR		
C178-602	50% off Calibrated specimen		

Order No	Description	List	Promo
64PKA227A	Data Collection Package	\$3,590.00	\$3,051.00
178-561-12A	SJ-210 inch/mm 4mN (Standard Drive Unit)		
02AZD730G	U-WAVE TRANSMITTER		
02AZD790D	U-WAVE connecting cable D		
02AZD810D	FREE U-WAVE RECEIVER		

Order No	Description	List	Promo
64PKA228A	Height Gage Package	\$3,930.00	\$3,340.00
178-561-12A	SJ-210 inch/mm 4mN (Standard Drive Unit)		
12AAA233	Height gage adapter (Inch)		
192-150	12" Dial height gage		



178-390

02AZD730G



02AZD810D



178-561-12A

02AZD790D





www.mitutoyo.com

Mitutoyo U-WAVE Bluetooth® Wireless Data Transmitters

U-WAVE is a wireless system that turns any Mitutoyo gage with Digimatic output into a wireless keyboard for fast, error-free data collection. U-WAVE transmitters now come in three models: Bluetooth®, Fit and Standard. Send data with a push of a button or request it from the PC or mobile device.



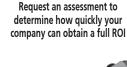
U-WAVE Bluetooth®

U-WAVE-TMB/TCB

The new U-WAVE Bluetooth® transmitter features:

- > Now utilizes the popular Bluetooth® 4.2 Low Energy Wireless Technology.
- > This new Bluetooth® version of U-WAVE allows a simple connection to smartphones, tablets and Bluetooth® enabled Laptops and PC's.
- > The same low profile and ergonomic fit benefits of the U-WAVE Fit.
- > A buzzer type and IP67 type with dustproof and waterproof specifications are available.
- > Up to 7 units can be connected to 1 Bluetooth® enabled PC without a receiver.
- > New U-WAVEPak for Android, iOS and Windows available at no cost.

































10% OFF

U-WAVE-TMB/TCB*

Order No.	Model	Measuring Instrument*	Remarks	List	Promo
264-624	U-WAVE-TCB	4", 6", 8", 12" IP67 caliper/standard caliper	IP67/LED	\$210.00	\$189.00
264-625	U-WAVE-TCB	4", 6", 8", 12" IP67 caliper/standard caliper	Buzzer/LED	\$210.00	\$189.00
264-626	U-WAVE-TMB	COOLANT-PROOF (IP65) micrometer	IP67/LED	\$210.00	\$189.00
264-627	U-WAVE-TMB	COOLANT-PROOF (IP65) micrometer	Buzzer/LED	\$210.00	\$189.00
02AZF310	Connection unit	IP67 caliper/COOLANT-PROOF (IP65) micrometer	Waterproof	\$77.20	\$69.48
02AZF300	Connection unit	Standard caliper	Standard	\$77.20	\$69.48

^{*} No U-WAVE Receiver required

Prices effective October 2nd – December 15th

U-WAVE Wireless Data Transmitters

The new Mitutoyo U-WAVE Fit wireless data transmitter fits to the back of popular Mitutoyo hand-held measuring instruments. This new design allows for a snug fit behind the display resulting in a more ergonomic feel. U-WAVE Fit is the same technology as the U-WAVE T,



just a smaller version.





MeasurLink® ENABLED

Data Management Software by Mitutoy

U-WAVE-TM for micrometers and U-WAVE-TC for calipers are available both as, the buzzer and water/dust-proof IP67 types. The buzzer type notifies the normal reception of data by LED and buzzer sound. The water/dust-proof IP67 type is designed for harsh environments and therefore, is only equipped with LED notification of data reception.

U-WAVE-Fit (Transmitter)

Order No.	Model	Measuring Instrument*	Remarks	List	Promo
264-620	U-WAVE-TC	4", 6", 8", 12" IP67 caliper/standard caliper	IP67/LED	\$210.00	\$189.00
264-621	U-WAVE-TC	4", 6", 8", 12" IP67 caliper/standard caliper	Buzzer/LED	\$210.00	\$189.00
264-622	U-WAVE-TM	COOLANT-PROOF (IP65) micrometer	IP67/LED	\$210.00	\$189.00
264-623	U-WAVE-TM	COOLANT-PROOF (IP65) micrometer	Buzzer/LED	\$210.00	\$189.00
02AZF310	Connection unit	IP67 caliper/COOLANT-PROOF (IP65) micrometer	Waterproof	\$77.20	\$69.48
02AZF300	Connection unit	Standard caliper	Standard	\$77.20	\$69.48

^{*} Please contact Mitutoyo or distributor for further details

U-WAVE-R (Receiver)

Order No.	Remarks	Software	Number of U-WAVE-R units that can be connected to PC	Number of U-WAVE-T units that can be connected	List	Promo
02AZD810D	U-WAVE-R + software	U-WAVE PAK	Up to 15	Up to 100	\$549.00	\$494.10

10% OFF

- The transmitter is designed to fit in the space behind the display, and the connecting cable has been replaced by a rigid connector
- Approx. 20 m transmission range (within visible range)
- 2.4GHz wireless system for reliable and secure data transmission
- Easy data export to Microsoft® Excel® or SPC software applications
- Transmitter confirms data transfer by an LED signal and optional buzzer
- An IP67 transmitter is available to ensure a coolant-proof gaging system
- Low power consumption: 400,000 data transmissions with a single battery

Standard U-WAVE Wireless System

U-WAVE is a wireless system that connects to a gage with SPC output. The data is sent to a receiver that is connected to a PC through a USB connection.

- > 2.4 GHz ZigBee wireless with a 60ft range.
- > HID compatible (Keyboard Entry) and Serial (VCP).
- > Supports Mitutoyo Digimatic or Digimatic 2 Type A, B, C, D, E, F, G.
- > Includes U-WAVEPAK Setup Software.







No. Decription List Promo

Order No.	Decription	List	Promo
02AZD730G	U-WAVE-T/IP67 TYPE	\$243.00	\$218.70
02AZD880G	U-WAVE-T/BUZZER TYPE	\$243.00	\$218.70
02AZD810D	U-WAVE-R	\$549.00	\$494.10
02AZD790A	U-WAVE CONNECTING CABLE A	\$121.00	\$108.90
02AZD790B	U-WAVE CONNECTING CABLE B	\$121.00	\$108.90
02AZD790C	U-WAVE CONNECTING CABLE C	\$121.00	\$108.90
02AZD790D	U-WAVE CONNECTING CABLE D	\$121.00	\$108.90
02AZD790E	U-WAVE CONNECTING CABLE E	\$121.00	\$108.90
02AZD790F	U-WAVE CONNECTING CABLE F	\$121.00	\$108.90
02AZD790G	U-WAVE CONNECTING CABLE G	\$121.00	\$108.90

*Complimentary ground shipping for the 48 contiguous United States. Offer applies to orders placed October 2 through December 15, 2023. Mitutoyo America Corporation reserves the right to change or discontinue this offer at any time. This offer is void wherever prohibited or restricted by law. No cash value. For Alaska and Hawaii special rates apply. Contact us for details.

Contact us for details.

Complimentary shipping cannot be applied toward previously placed orders. Orders may only be shipped to a single address.

If outstomer returns product, they are responsible for the shipping cost. Refer to our terms and conditions for further details.

Height Gages

ABSOLUTE 1D Height Gage QM-Height Series

- > High-resolution ABSOLUTE linear encoder for position detection
- > High-accuracy: $\pm (2.4 + 2.1 \text{L} / 600) \mu \text{m}$
- > Pneumatic flotation system / positioning grip allows for smooth movement along surface plate (select models)
- > Large, stationary display panel with user-friendly icon control keys and GO/NO-GO LED indicator
- > Digital and USB output: Supports Mitutoyo wireless SPC output
- > Fully compatible with existing Mitutoyo Digimatic peripherals (SPC cables, U-WAVE wireless transmitters, multiplexers, etc.)
- > Battery life of 1200 hours in continuous use with four AA batteries, an improvement from 300 hours.

GO/±NG judgment by LED (red, orange, green) and measurement examples

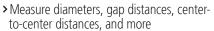
>LEDs are activated at the time of tolerance judgment: green for GO, red for +NG, and orange for -NG. -NG, GO and +NG also appear on the LCD.











- > Sub-display can show difference between current and previous measurement or distance from current measurement to origin
- > The origin can be set at the top of a surface plate, centerline, or any top or bottom surface within its range





d2 Digimatic and USB outputs

 Digimatic and USB ports are provided as standard. Using the U-WAVE-T measurement data wireless communication system enables instant transmission of measurement data to a PC via wireless communication which reduces manual input errors and improves data reliability and operational efficiency.

518-247



, To install **U-WAVE-T**, separately purchase the optional mounting plate (**02AZE990**).





Prices effective October 2nd – December 15th

10% OFF PLUS Complimentary Shipping & Calibration 5% OFF Accessories



*Complimentary accredited calibration applies to orders placed October 2 through December 15, 2023. Mitutoyo America Corporation reserves the right to change or discontinue this offer at any time. This offer is void wherever prohibited or restricted by law. No cash value. Complimentary accredited calibration will be conducted prior to unit shipping and cannot be applied toward previously placed orders. Refer to our terms and conditions for further details.

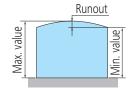


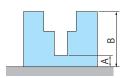
*Complimentary ground shipping for the 48 contiguous United States. Offer applies to orders placed October 2 through December 15, 2023. Mitutoyo America Corporation reserves the right to change or discontinue this offer at any time. This offer is void wherever prohibited or restricted by law. No cash value. For Alaska and Hawaii special rates apply. Contact us for details. Complimentary shipping cannot be applied toward previously placed orders. Orders may only be shipped to a single address. If customer returns product, they are responsible for the shipping cost. Refer to our terms and conditions for further details.

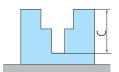
Measurement Examples







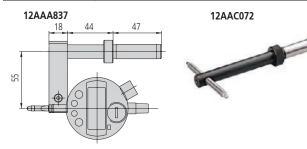




Part No.	Range	Resolution	Remarks	List	Promo
64PKA094CCAL	0 - 14"/ 0 - 350mm			\$4,585.00	\$4,126.50
64PKA095CCAL	0 - 24"/ 0 - 600mm	0.001mm / 0.0005mm /.00005"		\$5,219.00	\$4,697.10
64PKA129CCAL	0 - 14"/ 0 - 350mm	/ .0001" (selectable)	Pneumatic	\$5,135.00	\$4,621.50
64PKA094CCAL	0 - 24"/ 0 - 600mm		Flotation System	\$5,759.00	\$5,183.10

Optional Accessories

Order No.	Description	List	Promo
12AAC072	DEPTH PROBE	\$218.00	\$207.10
12AAA837	INDICATOR HOLDER (ACCEPTS 3/8" STEM)	\$159.00	\$151.05
12AAA793	PROBE EXTENSION HOLDER (3.3" / 85mm)	\$177.00	\$168.15
226118	SHANK WITH M3 THREAD SCREW	\$139.00	\$132.05
957265	20MM DIA. DISK STYLUS FOR LINEAR HEIGHT	\$420.00	\$399.00
957264	14MM DIA. DISK STYLUS FOR LINEAR HEIGHT	\$342.00	\$307.80
12AAF669	10PI BALL CONTACT POINT(COAXIAL)	\$259.00	\$246.05
957261	2MM DIA. BALL STYLUS FOR LINEAR HEIGHT	\$232.00	\$220.40
517-814-10	GRAPLATE 36X48" GRADE A	\$3,075.00	\$2,921.25
517-964-10	GRAPLATE STAND 36X48"	\$1,215.00	\$1,154.25
517-808-10	GRAPLATE 24X36" GRADE A	\$1,602.00	\$1,521.90
517-956-10	GRAPLATE STAND 24X36"	\$1,129.00	\$1,072.55
06AFM380D	USB-ITN-D INPUT TOOL DIRECT CABLE	\$217.00	\$206.15
02AZD730G-D	U-WAVE TRANSMITTER W/ CONNECTING CABLE (D)	\$363.00	\$344.85
02AZD810D	U-WAVE-RECEIVER	\$549.00	\$521.55





02AZD810D





Digimatic Scales

Digimatic Quill Kit

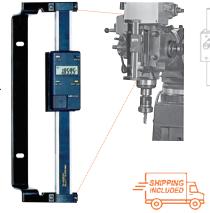
Easy Installation, Fits Most Vertical Knee Mills

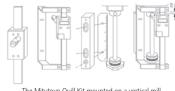
- > Easy-to-read LCD with resolution of .0005"/0.01mm. 0-6" travel.
- > Push-button controls for inch/mm, Zero-Set and On/Off.
- > Powered by a single SR-44 Battery which lasts about 1 year with normal use.
- > SPC Output for data transmission to data processors or a remote display.
- > ABS encoder.





Order No.	Description	List	Promo
053906B	Digimatic Quill Kit complete with brackets & scale for Bridgeport Type machines.	\$342.00	\$324.90





The Mitutoyo Quill Kit mounted on a vertical mill.

ABSOLUTE

ABSOLUTE Digimatic Scale Units

- > The Origin key allows setting of an absolute zero point to be used as reference in subsequent measurements. Once set, the ABS Digimatic Scale Unit is ready to show its true position whenever turned on, rather than 0.00" as with standard models.
- > The Zero/ABS key allows the display to be zero-set at any slider position along the beam for incremental comparison measurements. This key will also allow return to the absolute coordinate with a display of the true position from the origin point.
- > No rack, no pinion, no glass scale. Digimatic scale unit is safely embedded in the hardened stainless steel blade.
- > Horizontal or vertical face according to the scale mounting direction.
- > Multi-function types with diameter displaying function are also available for lathes. (Contact Mitutoyo.)
- > All units come with two mounting brackets, each located at either end of the scale.
- > With SPC data output.



ABSOLUTE"

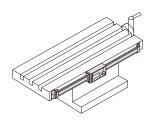
Order No	Model	Range	Accuracy	Resolution	Туре	List	Promo
572-210-30	SD-4"DX	0-4" / 0-100mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal single-function	\$259.00	\$246.05
572-211-30	SD-6"DX	0-6" / 0-150mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal single-function	\$274.00	\$260.30
572-212-30	SD-8"DX	0-8" / 0-200mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal single-function	\$319.00	\$303.05
572-213-10	SD-12"D	0-12" / 0-300mm	.002" / 0.04mm	.0005" / 0.01mm	Horizontal single-function	\$616.00	\$585.20
572-310-10	SDV-6"D	0-4" / 0-100mm	.001" / 0.03mm	.0005" / 0.01mm	Vertical single function	\$287.00	\$272.65
572-311-10	SDV-6"D	0-6" / 0-150mm	.001" / 0.03mm	.0005" / 0.01mm	Vertical single-function	\$304.00	\$288.80
572-312-10	SDV-8"D	0-8" / 0-200mm	.001" / 0.03mm	.0005" / 0.01mm	Vertical single function	\$353.00	\$335.35
572-313-10	SDV-12"D	0-12" / 0-300mm	.002" / 0.04mm	.0005" / 0.01mm	Vertical single function	\$678.00	\$644.10



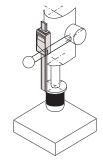
MeasurLink® **ENABLED**Data Management Software by Mitutoyo

Applications

Machine table position



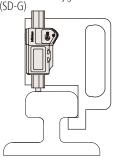
Drilling machine stroke position



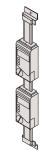
Focus setting on optical instruments

Special Applications

As a measurement jig for outdoor use (SD-G)



Detector head mechanism





Mitutoyo Digital Readout Packages

Mounting Hardware Included on all machine retrofit packages

\$200 PER PACKAGE





All DRO Packages Include:

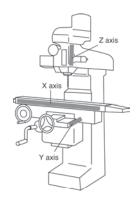
- >KA-200 Counter
- > KA-200 Counter tray/arm kit
- > High Resolution Linear Scales (down to .0001" or better!)
- > Bracket Kit(s)

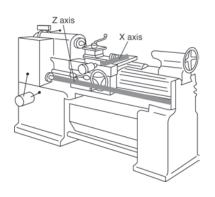


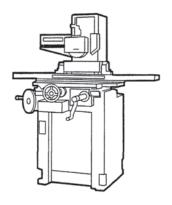


Package Part No.	Description	X Travel	Y Travel	Z Travel	X Axis Type	Y Axis Type	Z Axis Type	List	Promo
64PKA058B	12" X 30" DRO Mill Package	30"	12"		AT715	AT715		\$1,640.00	\$1,440.00
64PKA059B	12" X 36" DRO Mill Package	36"	12"		AT715	AT715		\$1,640.00	\$1,290.00
64PKA060A	14" X 30" DRO Mill Package	30"	14"		AT715	AT715		\$1,640.00	\$1,440.00
64PKA062B	16" X 36" DRO Mill Package	36"	16"		AT715	AT715		\$1,640.00	\$1,440.00
64PKA063A	16" X 40" DRO Mill Package	40"	16"		AT715	AT715		\$1,640.00	\$1,440.00
64PKA035A	6" X 28" Lathe Package	6"		28"	AT116		AT715	\$1,600.00	\$1,400.00
64PKA039A	8" X 40" Lathe Package	8"		40"	AT116		AT715	\$1,600.00	\$1,400.00
64PKA042A	10" X 40" Lathe Package	10"		40"	AT116		AT715	\$1,600.00	\$1,400.00
64PKA046A	12" X 40" Lathe Package	12"		40"	AT116		AT715	\$1,600.00	\$1,400.00
64PKA050A	12" X 60" Lathe Package	12"		60"	AT116		AT715	\$1,820.00	\$1,620.00
64PKA052A	14" X 40" Lathe Package	14"		40"	AT116		AT715	\$1,600.00	\$1,400.00
64PKA057A	16" X 60" Lathe Package	16"		60"	AT116		AT715	\$1,820.00	\$1,620.00
64PKA026A	6" X 12" Grinder Package	6"		12"	AT116		AT116	\$1,780.00	\$1,580.00
64PKA028A	8" X 12" Grinder Package	8"		12"	AT116		AT116	\$1,780.00	\$1,580.00
64PKA029A	8" X 14" Grinder Package	8"		14"	AT116		AT116	\$1,780.00	\$1,580.00

Other packages and kits are available for mills, lathes, grinders and custom machines and applications. Contact your local distributor for details.









Laser Scan Micrometers

Ultra-High Accuracy

Laser Scan Micrometer LSM-6902H

MeasurLink® ENABLED Data Management Software by Mitutoyo

- > Improved narrow range Repeatability of 0.03µm / 1.2µin
- > The best repeatability available in the 25mm/1" class.
- > The ultra-precise scanning motor enables the highest measurement
- > Thanks to excellent linearity, an accuracy of $\pm 0.5 \mu m$ over the entire measuring range and a higher accuracy of $\pm (0.3+0.1\Delta D)\mu m$ over a narrow range are guaranteed.
- > An excellent option for measuring pin gages or plug gages.



Bench Top

Laser Scan Micrometer LSM-9506

- > Integrated display and measuring unit in one unit.
- > Statistical calculation mode.
- >RS-232C output, I/O interface, and SPC output interface are standard.





Order No	Range	Resolution	List	Promo
544-499-1A	.004" - 1.0"/0.1mm - 25mm	.000001"0005"/0.00001 - 0.01mm	\$13,400.00	\$12,060.00
544-116-1A	.020" - 2.36"/0.5mm - 60mm	.000002"005"/0.00005 - 0.1mm	\$9,850.00	\$8,865.00



QUICKTOOL* is free downloadable software that makes programming the LSM-6200 guick and easy. *For use with customer-supplied PC and optional RS-232C cable.

High-Accuracy Non-Contact Measuring Systems

- > Excellent linearity: down to +/- 0.3 micron.
- > High-speed scanning capable: 3,200 scans per second.
- > Various ranges available for selecting the best laser for your application.
- > Statistical calculation mode.
- > Memory function has been increased to allow storage of up to 100 programs. QUICKTOOL* is free downloadable software that makes programming the LSM-6200 guick and easy. *For use with customer-supplied PC and optional RS-232C cable.

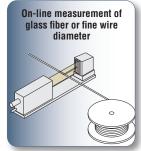
LSM-6200 Display Unit Included

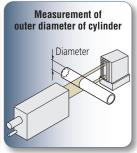
MeasurLink® ENABLED Data Management Software by Mitutovo

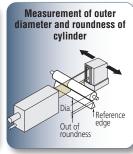
UP TO 35% OFF!

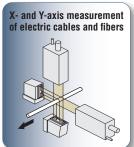
Order No	Model	Range Inch	Range mm	Repeatability	Linearity	Scanning Rate	List	Promo
64PKA117	LSM-500S	.0002"08"	0.005~2mm	±0.03µm	±0.3µm	3,200 scans/sec	\$11,430.00	\$7,773.00
64PKA118	LSM-501S	.002"4"	0.05~10mm	±0.04µm	±0.5µm [†]	3,200 scans/sec	\$10,280.00	\$6,682.00
64PKA119	LSM-503S	.012" - 1.18"	0.3~30mm	±0.11µm	$\pm 1.0 \mu m^{\dagger}$	3,200 scans/sec	\$11,140.00	\$7,576.00
64PKA120	LSM-506S	.04" - 2.36"	1~60mm	±0.36µm	±3µm [†]	3,200 scans/sec	\$12,650.00	\$8,982.00
64PKA121	LSM-512S	.04" - 4.72"	1~120mm	±0.85µm	±6µm†	3,200 scans/sec	\$19,150.00	\$15,804.00
64PKA122	LSM-516S	.04" - 6.30"	1~160mm	±1.4μm	±7µm [†]	3,200 scans/sec	\$31,310.00	\$27,553.00

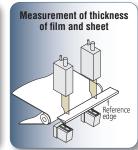
[†] Linearity over entire range. Higher accuracies are possible over smaller ranges.











Prices effective October 2nd - December 15th



Rockwell and Rockwell Superficial Hardness Tester

With Real-Time Electronic Test Force Control

- > Closed-loop control of testing forces.
- > Initial and Total test forces (loads) are applied with unparalleled accuracy and repeatability.
- > Extended indenter arm reaches inside diameters and hard-to-reach surfaces at eye level, allowing the operator to easily see where the indenter accesses small or hard-to-reach parts.
- > Automatic cycle start after initial set point is reached.
- > Continuous test mode for automatic testing of all like sized parts.
- > Touch-screen operation with color LCD.
- > All hardness parameters set automatically via the touch screen.
- > Cylindrical and spherical surface corrections.
- ➤ Auto conversion to most common hardness scales or tensil strength.







Model No.		810-233-33A	810-333-33A	
Order No.		HR-530	HR-530L	
Hardness testing methods		Rockwell / Rockwell Superficial / Brinel / Plastics Hardness		
Initial Test Force		29.42 N (3kgf), 98.07 N (10kgf)		
	Rockwell Superficial	147.1 N (15kgf), 294.2 N	I (30kgf), 441.3 M (45kgf)	
Test Force (N)	Rockwell Superficial	588.4 N (60kgf), 980.7 N	(100kgf), 1471 N (150kgf)	
reservoice (iv)	Light Force Brinel	61.29 N (6.25kgf), 98.07 N (10kgf), 153.2 N (15.625kgf), 245.2 N (25kgf), 294.2 N (30 306.5 N (31.25kgf), 612.9 N (62.5kgf), 980.7 N (100kgf), 1226 N (125kgf), 1839 N (187		
Test Force Control		Automatic (load / hold / unload)		
Maximum Speciment	Size	Height: 9.8" (250mm) Depth: 5.9" (150mm)	Height: 15.5" (395mm) Depth: 5.9" (150mm)	
External Data Output		RS-232C, digimatic, USB2.0		
External Dimensions	Main Unit	9.84" x 26.38" x 23.82" (250 w x 667 d x 621 h mm)	11.6" x 26.2" x 30.1" (300 w x 667 d x 766 h mm)	
	Touch-Panel Display	191 w x 147 d x 71 h mm		
Mass		Approx. 60 kg	Approx. 69 kg	
List		\$16,000.00	\$19,200.00	
	Promo	\$14,400.00	\$17,280.00	





A Complete line of Rockwell hardness testing machines to suit practically every application

Scan OR Code to learn more!















HR-610A/620A

HR-620B

Our packaged kits are designed to ensure you receive all necessary components and certificates needed to conduct ASTM Compliant Testing.



10% OFF ALL ARDNESS TESTERS!

Calibration Set

Order No.	Order No.	Order No.	Order No.
64HAA462	64HAA463	64HAA464	64HAA465
HRC Scale	HRBW Scale	HR30N Scale	HR30TW Scale
Test Blocks	Test Blocks	Test Blocks	Test Blocks
64HAA181	64HAA172	64HAA270	64HAA303
64HAA177	64HAA170	64HAA266	64HAA301
64HAA173	64HAA168	64HAA262	64HAA299
	Universal Sty	le Indenter with Flat	
64ΗΔΔ100	64ΗΔΔ119	64ΗΔΔ101	64ΗΔΔ119



Micro Vickers Hardness Testers - HM Series

- > Built-in microscope unit for indentation analysis and accurate workpiece positioning
- > Automatic Turret Mechanism (automatic selection mechanism that controls the position of the indenter and objective lens through touch panel control or AV PAK software
- > Wide range of available test forces between 0.486mN (0.0000495kgf) 19610mN (1.9997kgf)
- >LED illumination unit
- > Each model has a complementary vision unit (AV PAK PC required for series B&D testers, 810-454A series A (observational unit))
- > Adjustable X-Y stage with built-in digital micrometers for detailed measurement analysis
- > Compatible with MH Plan Objectives

MeasurLink® ENABLED







Additional packages featuring combined Knopp & Vickers Indenter sets can be found on our webpage.





Heavy Load Hardness Testers - HV Series

Highly evolving basic model

HV-110/120 System A

- > Equipped with a high performance motorized test force selection function and motorized turret mounts.
- > Operates as smoothly as electric models but with the certainty of traditional test forces.
- > A List function make it easy to perform multi-point and average hardness evaluations, which required extra effort or external data processors with conventional manual models. This convenient screen enables consistency of test results.
- > Motorized test force selection and motorized turret positions can be easily controlled via a touch screen control panel. Adjustable X-Y stage with built-in digital micrometers for detailed measurement analysis





Advanced models promise additional productivity improvements

HV-110/120 System B,C,D

- > B,C and D series testers feature AVPAK dedicated image software enabling automatic indentation reading with excellent automatic edge detection capability, reducing reading variation and visual error.
- > C and D series testers add powered X-Y stages which enable automatic continuous testing. This allows extended multipoint testing, complex pattern creation and multiple work piece analysis now carried out automatically.
- >D series testers add Auto Focus and create a fully automatic system that dramatically shortens the cycle time of your test and indentation analysis!

To set up a demonstration or get more information please use the OR code.





Hand Tool Hardness - hardness testing at your finger tips

Durometers (Digital and Analog)

For Rubber and Plastic Hardness Testing

> Durometers are suitable for testing natural rubber, neoprene, polyesters, PVC, leather, Thiokol, nitril, wax, vinyl, cellulose acetates, glass, polystyrol and other materials.





MeasurLink° ENABLED
Data Management Software by Mitutoyo



Order No	Model	Scale	Display	Graduation	Range	Indenter	List	Promo
811-335-10	HH-335	Shore A	Analog	1.0	10~90	Blunt Taper	\$660.00	\$594.00
811-336-10	HH-336	Shore A	Digital	0.5	10~90	Blunt Taper	\$1,410.00	\$1,269.00
811-337-10	HH-337	Shore D	Analog	1.0	20~90	Sharp Point	\$660.00	\$594.00
811-338-10	HH-338	Shore D	Digital	0.5	20~90	Sharp Point	\$1,410.00	\$1,269.00

HH-411 Hardmatic

Rebound Leeb portable hardness tester featuring reproducibility and ease of operation on large parts. It is lightweight and can be carried into the shop or out in the field.

Order No.	Туре	List	Promo
810-298-10	HH-411 Hardmatic	\$4,400.00	\$3,960.00

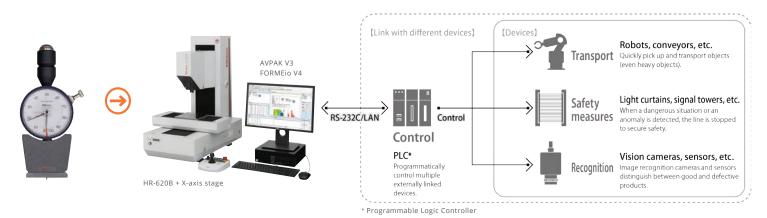








Here at Mitutoyo we pride ourselves in providing a complete lineup of hardness testing equipment, capable of meeting the needs of any application.



For more information regarding all things hardness testing, please visit our webpage to stay up to date on our latest promotions and product offerings.





10% off all Microscopes



Microscopes

MF / MF-U Measuring Microscopes with Metlogix M2 Software and Touch-Screen Tablet

Featuring M2 geometric measuring display

- > Highest measuring accuracy in its class
- > Stage travel range up to 400mm x 200mm / 16in x 8in
- > Quick release mechanism and zero-set buttons on stage controls increase operability when working larger workpieces
- > Easy to use all-in-one PC Touch Screen Display
- >M2 Geometric 2D Measurement Software
- > Camera port is standard on all models
- > Wide range of objectives available from 1x to 100x
- > M2 Retrofit package available for D generation MF and MF-U microscopes
- > Microscope packages with M2 software and tablet are listed below







MeasurLink® ENABLED

Data Management Software by Mitutoyo

Sample Packages

1 3			
Order No	Description	List	Promo
176-861-10PK1	MF-A1010, LED, MONOCULAR TUBE, WITH M2 SYSTEM	\$21,500.00	\$19,350.00
176-861-10PK2	MF-A1010, LED, BINOCULAR TUBE, WITH M2 SYSTEM	\$22,600.00	\$20,340.00
176-863-10PK1	MF-A2070, LED, MONOCULAR TUBE, WITH M2 SYSTEM	\$28,100.00	\$25,290.00
176-863-10PK2	MF-A2070, LED, BINOCULAR TUBE, WITH M2 SYSTEM	\$29,200.00	\$26,280.00
64PKA234	M2 Retrofit Kit for MF / MF-U Microscopes M2 2D Data Procesing Unite with software and hardware, including a tablet PC. This package includes on-site installation and calibration for customers with existing MF of MF-U Microcopes	\$4,300.00	\$3,870.00

Please visit our landing page to receive more information.



MF Measuring Microscopes

- > Observation with a crisp and high-resolution erect image and a wide field of view.
- > Measuring accuracy that is highest in its class (and conforms to JIS B 7153).
- > Included 3x objective and binocular eyetube.
- > Illumination unit (reflected/transmitted) selectable from a high-intensity LED.
- > Quick-release mechanism useful for moving the stage quickly when measuring workpieces that are large in size or quantity.
- > Dedicated camera port allows for simultaneous eyepiece and digital observation.

Model No. (XY stage size)	MF-A1010D
XY stage travel range	4 x 4" / 100 x 100mm
Z-axis travel range	6" / 150mm
Focusing method	Manual focusing (Coarse focusing: 30mm/rev., Fine focusing: 0.2mm/rev.)
Measurement method	Linear encoder (2-axis model: X / Y-axis, 3-axis model: X / Y / Z-axis)
Resolution (switchable)	.0001" / .00005" / .00001" (0.001mm / 0.0005mm / 0.0001mm)
Measuring accuracy (at 20°C)	XY-axis: (2.2+0.02L)µm, L = Measuring length (mm) when not loaded, JIS B 7153
Indication accuracy (at 20°C)	Z-axis: (5+0.04L)µm, L = Measuring length (mm), (MF-B type)
Floating function	X and Y axes with Quick-release mechanism
XY stage top size	11 x 11" / 280 x 280mm
Effective glass size	7 x 7" / 180 x 180mm
Max. stage loading	22lbs / 10kg
Max. workpiece height	6" / 150mm



To learn more about our MF and MF-U Microscopes please visit our webpage.



Prices effective October 2nd – December 15th





TM Toolmakers' Microscopes

- > Adjustable illumination intensity.
- > Angle measurement is performed easily by turning the angle scale disc to align the cross-hair reticle with the workpiece image.
- > Includes standard accessories create an overall magnification of 30X. Magnifications can be changed from 20 - 200X by using optional objectives and/or eyepieces.
- >.000050" Resolution Digimatic micrometer heads included.







Newly designed LED illumination



Modular MOTICAM accessory for seamless image documentation



Order No.	Description
64PMI247	MOTICAM S1, 1.2 MEGAPIXEL-1/3" CMOS, USB
64PMI249	MOTICAM S3, 3.0 MEGAPIXEL-1/2" CMOS, USB
64PMI248	MOTICAM S6, 6.0 MEGAPIXEL-1/1.8" CMOS, USB
64PMI252	MOTICAM 1080, 2.0 MEGAPIXEL-1/2.8" CMOS, USB/HDMI
63AAA060	.37x C-Mount Eyetube Adapter

	TM-A505B	TM-A1005B	
	176-820A	176-821A	
	Standard accessory: 15X (field number: 13), Options: 10X, 20X		
	Standard accessory:	2X, Options: 5X, 10X	
Maximum height of workpiece	4.53" / 115mm 4.21" / 107mm		
Transmitted illumination	Stepless brightness adjustment, Wh	ite LED light source, with green filter	
Surface illumination Oblique single-source type, Stepless brig light source		,	
Measuring range	2" x 2" / 50x50mm	4" x 2" / 100x50mm (An optional 2"/50mm gage block is required to cover full range. A CERA block is recommended.)	
Usable area of the stage glass	3.8" x 3.8" / 96×96mm	6" x 3.8" / 154×96mm	
Maximum stage glass loading	11 lbs. / 5kg		
ent method	Micrometer heads included		
List	\$6,160.00	\$8,030.00	
Promo	\$5,544.00	\$7,227.00	
	Transmitted illumination Surface illumination Measuring range Usable area of the stage glass Maximum stage glass loading ent method List	Standard accessory: 15X (field of Standard accessory: 15X) (field of Standard accessor	

Trinocular Stereo Microscope MSM-414TL

- > Continuous 1X 4X magnification.
- > Image always in focus throughout zoom range.
- > Crisp, erect images with high resolution and excellent stereoscopic effect.
- > Stereo-tube can be rotated a full 360° for viewing at any angle.
- > Bilateral zoom control knob adds convenience and increases operator efficiency.
- > Diopter adjustment for both eyepieces.

Model Order No.	MSM-414TL 377-974A
Optical tube	Trinocular
Total magnification	10X - 40X
Eyepiece	10X (377-016)
Objective	1X - 4X
Working distance	80mm
Field of view	20mm - 5mm
Dimensions	H=13.2"x W=6.7"x D=9.3"
Mass	13.2 lbs (6kg)

Order No.	Description	List	Promo
377-974A	MSM-414TL Stereo Microscope	\$1,520.00	\$1,368.00
377-481	C-mount Video Adapter for MSM-414TL	\$59.35	
64PMI252	Digital camera w/software 1080, 2.0 Mega Pixels, HDMI/USB	\$1,650.00	

377-481 & 64AAB526 purchased separately*



Camera with software for digital viewing



www.mitutoyo.com





Quick Scope Series

The Quick Image series of digital microscopess offer high accuracy, high magnification manual 3D optical measurements.

- > High speed image auto focus for 3D measurements.
- > High pixel count color camera.
- > LED lighting with 4-quadrant ring light.
- >Zoom with interchangeable objective lenses.
- >Includes 1.5x objective, PC, and QSPak 12 software.

Includes Factory installation, A2LA accredited calibration, and training



Advanced Lighting







Transmitted light

Co-axial light Ring light

4-quadrant LED Lighting





Sample Packages

Model	Stage Size	Package No.
QS-L2010Z/AFC	8" x 4" x 6"	359-713-10PK
QS-L3017Z/AFC	12" x 6.7" x 6"	359-714-10PK
QS-L4020Z/AFC	16" x 8" x 6"	359-715-10PK

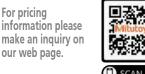
Prices effective October 2nd - December 15th



QS-L2010Z/AFC

359-713-10







To read more about the Quick Scope microscope visit our landing page.



Digital Profile Projectors





Quick Image Series

The Quick Image series of digital profile projectors offer high accuracy, high speed 2D optical measurements.

- > Stitching function allows measurements of parts larger than the field of view.
- > Manual or motorized stages available.
- > High pixel count color camera.
- > Automatic part location with pattern search tool.
- > Includes PC and QIPak 6 software.

Includes Factory installation, A2LA accredited calibration, and training

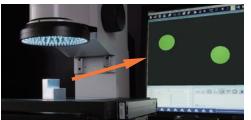
MeasurLink® ENABLED

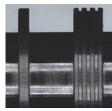
Data Management Software by Mitutoyo



Wide focus range

Our specially designed optical system achieves a long focal depth of 22mm. This allows measurements without time-consuming manual focus, supporting an efficient measurement operation.





Focusing in on a stepped workpiece like the one shown above is unnecessary with the telecentric objective.

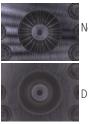
Measurement accuracy is guaranteed to be accurate when targets are within the focal depth

Ring Light Diffusion Plate

Order No.: 02ATX180

Effective on a reflective workpiece such as a machined surface. This plate makes the surface appear smooth to obtain an image suited to measurement. The working distance is 76mm.







Diffusion Plate

To read more about or

To read more about our Quick Image Digital Profile Projector please scan QR code.

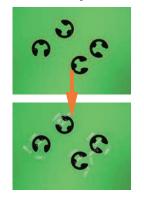


	OUTCK WAGE TREETED STATES		
QI-A2010D 361-851A			
	QU CX WAGE		
141.1		Auto	-Recognition

Measure Multiple Workpieces Within the Field of View All at Once

Locate and measure multiple workpieces with just one click

Use pattern search for multiple workpieces within the screen view, and measure them all in one operation with the one-click execution function. This eliminates the need for accurate positioning of workpieces and cumbersome setup of fixtures.



		Manual Stage Model						Motorized Stage Models			
Mag.	0.2x	Model No.	QI-A1010D	QI-A2010D	QI-A2017D	QI-A3017D	QI-A4020D	QI-C2010D	QI-C2017D	QI-C2017D	
		Order No.	361-850A	361-851A	361-852A	361-853A	361-854A	361-860A	361-861A	361-862A	
		Package No.	361-850A	361-851A	361-852A	361-853A	361-854A	361-860APK	361-861APK	361-862APK	Promo
	0.5x	Model No.	QI-B1010D	QI-B2010D	QI-B2017D	QI-B3017D	QI-B4020D				
		Order No.	361-855A	361-856A	361-857A	361-858A	361-859A				
Measuring Range (X x Y)			3.94" x 3.94" 100 x100mm	7.87" x 3.94" 200 x 100mm	7.87" x 6.69" 200 x 170mm	11.8" x 6.69" 300 x 170mm		7.87" x 3.94" 200 x 100mm	,	11.8" x 6.69" 300 x 170mm	
Travel Range (Z axis)		3.94" (100mm)									Mitutoyo
Measurement accuracy (E1xy)		\pm (3.5+0.02L) μ m L: arbitrary measuring length (mm)									SCAN ME



Mitutoyo America Corporation

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FALL PROMO 2023

PRECISION TOOLS & INSTRUMENTS

Effective October 2nd through December 15th

