



Small Tool Instruments and Data Management

Form Measurement

Digital Scales and DRO Systems

Sensor Systems

Test Equipment

Optical Measurement

# FALL PROMO 2024

## PRECISION TOOLS & INSTRUMENTS

Effective September 9th through December 13th

FALL PROMO 2024





**NEW FEATURED**

## PRODUCTS



**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 2024 Mitutoyo Fall Promotion features many great Mitutoyo precision measurement instruments such as a wide variety of Surftest surface roughness instruments, new protective soft cases for Mitutoyo micrometers and calipers, new IDC/IDF indicators with S1 Digimatic output capabilities, test indicators, profile projectors, and the very popular redesigned LH-600F Linear Height Gage. The fall promotion also features many other trusted Mitutoyo tools and instruments including data management solutions, calipers, micrometers, linear encoders, test indicators, height gages, microscopes, hardness testers, and contact sensors such as linear gages and the motorized Litematic contact gage. Prices are effective September 9, 2024 through December 13, 2024.

You can find all of the latest promotions, products and events on our website, [www.mitutoyo.com](http://www.mitutoyo.com), as well as on [my.mitutoyo.com](http://my.mitutoyo.com). Thank you for trusting Mitutoyo with your metrology needs.







Sincerely,

Matt Dye  
President, Mitutoyo America Corporation

*Matthew B. Dye*



## TABLE OF CONTENTS

 <b>Surftest</b> ..... 3	<b>Surftest SJ-210 Packages</b> ..... 3
Highly versatile surface roughness instruments, including portable models, are full of features and capabilities. Mitutoyo surface roughness testers deliver precise and accurate measurements.	<b>Tool Kits</b> ..... 4
 <b>Tool Kits</b> ..... 4	<b>Indicators</b> ..... 6
New protective soft cases for your Mitutoyo measurement tools provide a lighter, more modern alternative to our wooden cases. These soft cases are available in packages including mechanical and digital micrometers and calipers as well as empty for your existing Mitutoyo tools.	<b>Dial Test Indicators</b> ..... 7
 <b>ID-C/ID-F Digimatic Indicators</b> ..... 6	<b>Bore Gages</b> ..... 10
These new Digimatic Indicators have higher resolutions down to 20µinch/0.5 µm, a built-in calibration date warning and analog bar on the larger LCD display, and new S1 Digimatic output capabilities.	<b>Holtest</b> ..... 11
 <b>Test Indicators</b> ..... 7	<b>Borematic</b> ..... 13
Mitutoyo test indicators provide enhanced durability, sensitivity, usability, readability, and most importantly, incredible accuracy. Mitutoyo offers a range of different types of test indicators along with accessories and sets for any application and industry.	<b>Profile Projectors</b> ..... 14
 <b>Profile Projectors</b> ..... 14	<b>LH-600F</b> ..... 16
Mitutoyo profile projectors provide some of the most accurate and clear images on the market. Easily capture accurate measurements without blurring, distortion or complex calculations using our modular 2D digital readouts.	<b>QM Height</b> ..... 18
 <b>LH-600F Linear Height Gages</b> ..... 16	<b>Calipers/Caliper Checker</b> ..... 20
The Mitutoyo LH-600F Linear Height Gage is the latest model in the Mitutoyo Linear Height Gage line with several new features like an adjustable and rotatable display, intuitive touchscreen interface, and added output options for even easier, highly accurate 2D dimensional measurements.	<b>Micrometers</b> ..... 22
	<b>U-WAVE Bluetooth® Wireless Data Transmitters</b> ..... 24
	<b>U-WAVE Wireless Data Transmitters</b> ..... 25
	<b>Litematic Units</b> ..... 26
	<b>Linear Gages/EJ Counters</b> ..... 27
	<b>Digimatic Scales</b> ..... 28
	<b>Linear Encoders</b> ..... 29
	<b>Hardness Testers</b> ..... 30
	<b>Microscopes</b> ..... 34

## Surftest SJ-210 Packages



- > 2.4-inch color LCD display with backlighting is switchable to vertical or horizontal left / right-hand views.
- > The built-in battery allows approximately 1,000 measurements on a full charge (4 hours charging time).
- > Performs roughness analysis conforming to international standards JIS '82 / JIS '94 / JIS '01 / ISO '97 / ANSI/VDI.
- > Optional MicroSD card can store up to 500 measurement conditions, 10,000 measurement results and 500 image data.
- > Function restriction feature locks conditions to prevent erroneous measurements if settings are accidentally changed.

### Accessing eLearning Course after purchase:

1. Contact our Inside Sales Rep to confirm Promo Package purchased.
2. Inside Sales Rep to verify your registration on My.Mitutoyo.com
3. Inside Sales Rep then provides a code for free access.

Order No.	Spring Promo Price	List	Promo
178-561-12A-SPP	SJ-210 4mN (STANDARD DRIVE UNIT) INCH/MM	\$2,820.00	<b>\$2,232.00</b>
STF-210	eLearning Course	\$30.00	Included

Order No	Calibration Package	List	Promo
178-561-12A-CP	SJ-210 4mN (STANDARD DRIVE UNIT) INCH/MM	\$3,409.00	<b>\$2,650.00</b>
178-390	FREE EXTRA DETECTOR	\$522.00	Included
C178-602	Calibration Specimen fee	\$67.15	Included
STF-210	eLearning Course	\$30.00	Included

Order No	Data Collection Package	List	Promo
178-561-12A-DC	SJ-210 4mN (STANDARD DRIVE UNIT) INCH/MM	\$3,770.00	<b>\$2,900.00</b>
02AZD730G	U-WAVE TRANSMITTER	\$253.00	Included
02AZD790D	U-WAVE connecting cable D	\$126.00	Included
02AZD810D	U-WAVE RECEIVER	\$571.00	Included
STF-210	eLearning Course	\$30.00	Included

Order No	Height Gage Package	List	Promo
178-561-12A-HG	SJ-210 4mN (STANDARD DRIVE UNIT) INCH/MM	\$4,088.00	<b>\$3,500.00</b>
570-413	Digimatic Height Gage (HDSH18" CX)	\$1,150.00	Included
12AAA233	Height Gage Adapter (INCH)	\$118.00	Included
STF-210	eLearning Course	\$30.00	Included

Order No	Manual Column Stand Package	List	Promo
178-561-12A-MCS	SJ-210 4mN (STANDARD DRIVE UNIT) INCH/MM	\$3,834.00	<b>\$3,450.00</b>
178-069	Column Stand for SJ-210/310/410	\$962.00	Included
12AAA221	Magnetic Stand Adaptor (8mm DIA)	\$51.85	Included
STF-210	eLearning Course	\$30.00	Included



**UP TO 25% OFF**

178-561-12A



178-390



Calibration Certificate



Wireless Communication System



12AAA233



12AAA233



570-413



178-069



12AAA221



**Soft Case Tool Kits**

Durable Protective Cases

New protective cases for your tools offer a modern alternative to our wooden cases. Versions include mechanical, standard Digimatic, or QuantuMike-based sets. QuantuMikes are just as accurate as standard Digimatic micrometers, but up to 4x faster.

Empty cases are also available as a new home for your existing tools!

**10%  
OFF**



64PKA288

**RUGGED, IMPACT-RESISTANT BUILD**

**CASE MOULDS FOR DIGIMATIC AND MECHANICAL TOOLS**

**LONG-LIFE ZIPPERS AND STAIN-RESISTANT COVER**

**2X MAGNET-BACKED SLOTS FOR HOLDING STEEL RULES, SPANNERS, THUMB DRIVES AND MORE**



Prices effective September 9 through December 13, 2024





64PKA283

### Soft Case Tool Kit Components for 64PKA283

Part #	Description
103-135	MIC, OUTSIDE, 0-1", 0.0001", FRICTION THIMBLE
182-204	STEEL RULE 6" 3R FLEXIBLE
505-742J	DIAL CALIPER, 6", .1"/REV
64PMT183	CASE FOR MECHANICAL TOOL KIT



64PKA284

### Soft Case Tool Kit Components for 64PKA284

Part #	Description
103-177	MIC, OUTSIDE, 0-1", 0.001", RATCHET STOP
182-102	STEEL RULE 6" 16R RIGID
505-740J	DIAL CALIPER, 6", .2"/REV
64PMT183	CASE FOR MECHANICAL TOOL KIT



64PKA285

### Soft Case Tool Kit Components for 64PKA285

Part #	Description
293-340-30	1" RATCHET STOP MICROMETER (NO SPC)
500-196-30	DIGIMATIC CALIPER, 6"/150MM, NO OUTPUT
64PMT182	CASE FOR DIGIMATIC TOOL KIT



64PKA286

### Soft Case Tool Kit Components for 64PKA286

Part #	Description
293-348-30	1" FRICTION THIMBLE MICROMETER (NO SPC)
500-196-30	DIGIMATIC CALIPER, 6"/150MM, W/O OUTPUT
64PMT182	CASE FOR DIGIMATIC TOOL KIT



64PKA287

### Soft Case Tool Kit Components for 64PKA287

Part #	Description
293-185-30	QUANTUMIKE MICROMETER, DIGIMATIC, 0-1", IP65, .00005", NO SPC
500-196-30	DIGIMATIC CALIPER, 6"/150MM, NO OUTPUT
64PMT182	CASE FOR DIGIMATIC TOOL KIT



64PKA288

### Soft Case Tool Kit Components for 64PKA288

Part #	Description
293-180-30	QUANTUMIKE MICROMETER, DIGIMATIC, 0-1", IP65, .00005", W/ SPC
500-171-30	DIGIMATIC CALIPER, 6"/150MM, W/ OUTPUT
64PMT182	CASE FOR DIGIMATIC TOOL KIT

## Soft Case Tool Packages

Package #	Description	2024 List Price	Promo Price
64PKA283	TOOL PKG, MECHANICAL, INCH, W/ 6" DIAL CALIPER, 1" OUTSIDE MIC, 6" STEEL RULE, CASE	\$367.00	<b>\$330.30</b>
64PKA284	TOOL PKG, MECHANICAL, INCH, W/ 6" DIAL CALIPER, 1" MIC, 6" STEEL RULE, CASE	\$317.00	<b>\$285.30</b>
64PKA285	TOOL PKG, DIGIMATIC, INCH, W/ 1" MIC (RATCHET STOP TYPE), 6" CALIPER, CASE	\$468.00	<b>\$421.20</b>
64PKA286	TOOL PKG, DIGIMATIC, INCH, W/ 1" MIC (FRICTION THIMBLE TYPE), 6" CALIPER, CASE	\$468.00	<b>\$421.20</b>
64PKA287	TOOL PKG, DIGIMATIC, INCH, W/ 1" QUANTUMIKE, 6" CALIPER, CASE	\$483.00	<b>\$434.70</b>
64PKA288	TOOL PKG, DIGIMATIC, INCH, W/ 1" QUANTUMIKE, 6" CALIPER, CASE, WITH OUTPUT	\$515.00	<b>\$463.50</b>

## Protective Case Only

Package #	Description	2024 List Price	Promo Price
64PMT182	CASE FOR DIGIMATIC TOOL KIT	\$58.75	<b>\$52.88</b>
64PMT183	CASE FOR MECHANICAL TOOL KIT	\$60.70	<b>\$54.63</b>

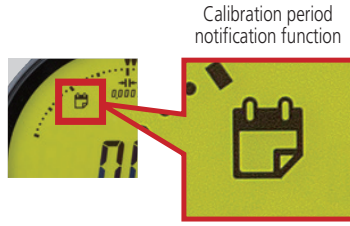


SCAN ME

## ID-C/ID-F Digimatic Indicators

### High-performance ABS Digimatic Indicators

- > 20 μinch/0.5 μm resolution.
- > Large screen and analog bar.
- > 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.
- > New Digimatic S1 Output\*. S1 is the new Mitutoyo bidirectional output format that enables reading and writing information to the gages such as sending a zero command, TIR reset, calibration date warnings, and the ability to poll the serial number for smoother measurement operation. Communication supported by new Input Tool and SPC cable.



Calibration period notification function



0.5" ID-F MODEL NOW AVAILABLE

10% OFF



ID-C Series



ID-F Series

### 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.

Order No.	Description	List
06AGL011	SPC DIGIMATIC Cable, TYPE S1 (1M)	\$78.05
264-020	USB INPUT TOOL	\$226.00

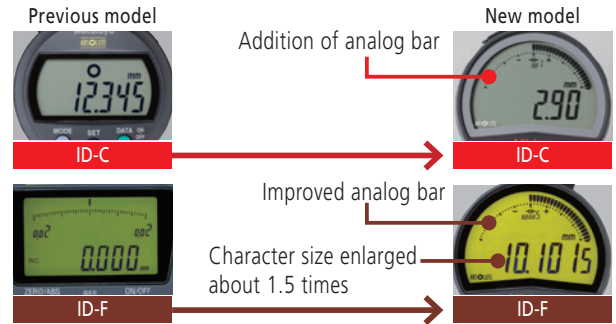
\* SPC Cable and Input Tool are both required



**Excel®**  
Send data directly into existing forms

**ITPak 3.0**  
Read/Write Data and set Parameters

**MeasurLink® 10.2** (see page 25)  
Data Management & SPC Software



### ID-C Series - Battery Operated

Order No.	With Lug	Flat Back	Range	Resolution	Maximum Permissible Error			Measuring for MPL (N)	Interface	Net mass (g)		List	Promo
					MPE <sub>E</sub>	Hysteresis MPE <sub>H</sub>	Repeatability MPE <sub>R</sub>			With Lug	Flat Back		
543-702	543-702B	0.5" / 12.7mm	0.00002" / .00005" / 0.0001" / 0.0005" / 0.0005mm / 0.001mm / 0.01mm	± 0.00012" / 0.002mm	0.00008" / 0.002mm	0.00008" / 0.002mm	1.5 or less	d1/d2/S1	195	165	\$501.00	\$450.90	
543-707	543-707B	0.5" / 12.7mm					0.4 to 0.7	d1/d2/S1	190	160	\$783.00	\$704.70	
-	543-722B	1" / 25.4mm		1.8 or less			d1/d2/S1	-	195	\$645.00	\$580.50		
-	543-732B	2" / 50.8mm		2.3 or less			d1/d2/S1	-	260	\$840.00	\$756.00		
543-712	543-712B	0.5" / 12.7mm	0.0005" / 0.01mm	± 0.001" / 0.02mm	0.001" / 0.02mm	0.0005" / 0.01mm	0.9 or less	d1/S1	190	160	\$366.00	\$329.40	
543-717	543-717B	0.5" / 12.7mm					0.2 to 0.5	d1/S1	185	155	\$587.00	\$528.30	
-	543-727B	1" / 25.4mm		1.8 or less			d1/S1	-	190	\$537.00	\$483.30		
-	543-737B	2" / 50.8mm		± 0.0015" / 0.04mm			2.3 or less	d1/S1	-	245	\$704.00	\$633.60	

### ID-F Series - AC Powered - Green/Red Backlit Display

Order No.	With Lug	Flat Back	Range	Resolution	Maximum Permissible Error			Measuring for MPL (N)	Interface	List	Promo
					MPE <sub>E</sub>	Hysteresis MPE <sub>H</sub>	Repeatability MPE <sub>R</sub>				
543-856-A	543-856B-A	0.5" / 12.7mm	0.005mm / 0.001mm / 0.01 mm / 0.00002" / .00005" / 0.0001" / 0.0005" / 0.001" (selectable)	± 0.0001" / 0.0025mm	0.00008" / 0.002mm	0.00008" / 0.002mm	1.5 or less	d1/d2/S1	\$675.00	\$607.50	
-	543-852A	1" / 25.4mm					1.8 or less	d1/d2/S1	\$787.00	\$708.30	
-	543-854A	2" / 50.8mm		± 0.00016" / 0.004mm			2.3 or less	d1/d2/S1	\$894.00	\$804.60	
-	543-858A			± 0.00012" / 0.003mm			2.3 or less	d1/d2/S1	\$912.00	\$820.80	

## Dial Test Indicators



513-404-10E  
Standard

.000050" / 50μinch model now available!

- > One-piece movement assembly for improved durability & impact resistance.
- > Contact point length shown on dial face.
- > Certificate of Inspection included.
- > Shows results from both measuring directions.
- > Resilient crystal with high resistance to glare, scratches and impact.

**10% OFF**



Contact point length is printed on dial face to avoid accuracy issues

Part #	Range	Graduations	Set Type	Face Color	List	Promo	Remarks
<b>Standard</b>							
513-407-10E	.008"	.00005"	Basic	White	\$220.00	<b>\$198.00</b>	Fine grads
513-407-10T	.008"	.00005"	Full	White	\$258.00	<b>\$232.20</b>	Fine grads
513-401-10E	.14mm	0.001mm	Basic	Yellow	\$262.00	<b>\$235.80</b>	
513-402-10E	.03"	.0005"	Basic	White	\$153.00	<b>\$137.70</b>	
513-402-10T	.03"	.0005"	Full	White	\$182.00	<b>\$163.80</b>	
513-403-10E	.008"	.0001"	Basic	White	\$199.00	<b>\$179.10</b>	
513-403-10T	.008"	.0001"	Full	White	\$234.00	<b>\$210.60</b>	
513-404-10E	0.8mm	0.01mm	Basic	Yellow	\$155.00	<b>\$139.50</b>	
513-404-10A	0.8mm	0.01mm	Plus	Yellow	\$171.00	<b>\$153.90</b>	
513-404-10T	0.8mm	0.01mm	Full	Yellow	\$183.00	<b>\$164.70</b>	
513-405-10E	0.2mm	0.002mm	Basic	Yellow	\$173.00	<b>\$155.70</b>	
513-405-10T	0.2mm	0.002mm	Full	Yellow	\$226.00	<b>\$203.40</b>	
513-406-10E	.03"/0.7mm	.0005"/0.01mm	Basic	White/Yellow	\$180.00	<b>\$162.00</b>	Dual dial
513-406-10T	.03"/0.7mm	.0005"/0.01mm	Full	White/Yellow	\$199.00	<b>\$179.10</b>	Dual dial
513-409-10E	0.2mm/.0076"	0.002mm/.0001"	Basic	Yellow/White	\$232.00	<b>\$208.80</b>	Dual dial
513-409-10T	0.2mm/.0076"	0.002mm/.0001"	Full	Yellow/White	\$235.00	<b>\$211.50</b>	Dual dial
513-412-10E	.03"	.0005"	Basic	White	\$220.00	<b>\$198.00</b>	
513-412-10T	.03"	.0005"	Full	White	\$254.00	<b>\$228.60</b>	
513-415-10E	1.0mm	0.01mm	Basic	Yellow	\$165.00	<b>\$148.50</b>	Long stylus
513-415-10H	1.0mm	0.01mm	Basic	Yellow	\$181.00	<b>\$162.90</b>	Long stylus
<b>Ruby Tip</b>							
513-472-10E	.03"	.0005"	Basic	White	\$171.00	<b>\$153.90</b>	
513-479-10E	.03"	.0005"	Basic	White	\$181.00	<b>\$162.90</b>	Long stylus
<b>Standard (20° tilted face)</b>							
513-442-10A	.06"	.0005"	Basic	White	\$208.00	<b>\$187.20</b>	
513-442-10T	.06"	.0005"	Full	White	\$235.00	<b>\$211.50</b>	
513-442-16A	.06"	.0005"	Basic	Black	\$208.00	<b>\$187.20</b>	
513-442-16T	.06"	.0005"	Full	Black	\$235.00	<b>\$211.50</b>	
513-446-16A	.06"	.0005"	Basic	Black	\$278.00	<b>\$250.20</b>	Long stylus
513-446-16T	.06"	.0005"	Full	Black	\$313.00	<b>\$281.70</b>	Long stylus
513-446-10A	.06"	.0005"	Basic	White	\$278.00	<b>\$250.20</b>	Long stylus
513-446-10T	.06"	.0005"	Full	White	\$313.00	<b>\$281.70</b>	Long stylus
513-443-10A	.016"	.0001"	Basic	White	\$262.00	<b>\$235.80</b>	
513-443-10T	.016"	.0001"	Full	White	\$296.00	<b>\$266.40</b>	
<b>Vertical: dial is on the top of the frame</b>							
513-452-10E	.03"	.0005"	Basic	White	\$199.00	<b>\$179.10</b>	
513-452-10T	.03"	.0005"	Full	White	\$220.00	<b>\$198.00</b>	
513-453-10E	.008"	.0001"	Basic	White	\$237.00	<b>\$213.30</b>	
<b>Parallel: dial is on the side of the frame</b>							
513-485-10E	0.2mm	0.002mm	Basic	Yellow	\$254.00	<b>\$228.60</b>	

## Set Configuration

**Inch**

**Full set**

- Contact point, .039" DIA. carbide
- Contact point, .118" DIA. carbide
- Stem, .157" DIA. (21CAB106)
- Swivel clamp (900322, for .157" DIA., 3/8" DIA., dovetail)
- Inch holding bar (L: 4") (900306)

**Basic set**

- Contact point, .079" DIA. (Carbide)
- Indicator
- Knurled clamp ring
- Stem, .157" DIA. (21CAB106)
- Stem, 3/8" DIA.

**Metric**

**Full set**

- Swivel clamp (900321, for ø4mm, ø8mm, dovetail)
- Metric holding bar (L: 100mm) (900209)

**Plus set**

- Contact point, ø1mm carbide
- Contact point, ø3mm carbide
- Stem, ø4mm (21CAB106)

**Basic set**

- Contact point, ø2mm (Carbide)
- Indicator
- Knurled clamp ring
- Stem, ø8mm (Set No. 902804)

**Labels:** T set, E, A set, A set, C set (ø 6 Stem), E set, H set (ø 6 Stem)



### 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 A, B and C can be set with respect to the purpose of measurement or dimensions of the fixtures. This unique feature allows for reading measurements directly without searching for conversions.



SPC  
ABSOLUTE®

MeasurLink® ENABLED  
Data Management Software by Mitutoyo

10% OFF



543-342B-10

Order No.	Resolution	Range	Accuracy	Measuring Force	List	Promo
543-342B-10	.00005"/0.001"/0.0005" (0.001/0.01mm) Selectable	.5"/12.7mm	±.00010"/0.003mm	1.5N or less	\$524.00	\$471.60

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

SPC cable – 1m: 905338 2m: 905409

### Bore Gage ABSOLUTE Digimatic Indicator ID-C



Installed on optional bore gage probe (page 9)

- 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.

- 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  
Data Management Software by Mitutoyo

10% OFF



543-312B-10

Order No.	Resolution	Range	Accuracy	Measuring Force	List	Promo
543-312B-10	.00005"/0.001"/0.0005" (0.001/0.01mm) Selectable	.5"/12.7mm	±.00010"/0.003mm	1.5N or less	\$524.00	\$471.60

SPC cable – 1m: 905338 2m: 905409

SPC  
ABSOLUTE®

### 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 judgment
- 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

15% OFF



543-302B-10

Order No.	Resolution	Range	Accuracy	Remarks	List	Promo
Stem dia. 3/8", #4-48 UNF Thread						
543-302-10	.00005"/0.001"/0.0005" 0.001/0.01mm	.5"/12.7mm	±.00010"/0.003mm	w/lug	\$524.00	\$445.40
543-302B-10	Selectable	.5"/12.7mm	±.00010"/0.003mm	Flat-back	\$524.00	\$445.40

SPC cable – 1m: 905338 2m: 905409

SPC  
ABSOLUTE®

MeasurLink® ENABLED  
Data Management Software by Mitutoyo

Prices effective September 9 through December 13, 2024

## 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.

> 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

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

Order No.	Resolution	Range	Model	Accuracy	List	Promo
543-562A	.00002", .00005", .0001", 0.0005mm, 0.001mm	1.2" / 30.4mm	ID-H530E	0.0015mm	\$1,040.00	\$936.00
543-564A		2.4" / 60.9mm	ID-H560E	0.0025mm	\$1,240.00	\$1,116.00

SPC cable – 1m: 936937 2m: 965014

10% OFF

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MeasurLink<sup>®</sup> ENABLED  
Data Management Software by Mitutoyo

21EZA099  
Remote controller  
(optional)



## ABSOLUTE Digimatic Indicator ID-S

> Employing the ABSOLUTE linear encoder, the ID-S always displays the spindle ABSOLUTE Position from the origin at power-on. Also, unlimited response speed eliminates overspeed errors.

> Dust/water protection level: IP42 (IP53: 543-796B-10).  
 > SPC data output

SPC  
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Data Management Software by Mitutoyo

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Order No.	Resolution	Range	Accuracy	Measuring force	Remarks	List	Promo
Stem dia. 3/8", #4-48 UNF Thread							
543-792-10	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$322.00	\$289.80
543-796-10	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ lug-back	\$356.00	\$320.40
543-793-10	.0001"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$322.00	\$289.80
543-783-10	.0005"/0.01mm	.5" / 12.7mm	±.0010"	1.5N or less	w/ lug-back	\$209.00	\$188.10
543-792B-10	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ flat back	\$322.00	\$289.80
543-796B-10	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ flat-back	\$356.00	\$320.40
543-793B-10	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ flat back	\$322.00	\$289.80
543-783B-10	.0005"/0.01mm	.5" / 12.7mm	±.0010"	1.5N or less	w/ flat-back	\$209.00	\$188.10

## My.Mitutoyo



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## Series Two Dial Indicators

- > Improved impact- and oil-resistant materials are employed in the bezel. The improved shape of the crystal face helps with easier measurement readings.
- > High-strength, heat-treated stainless steel spindles for longevity.
- > Scratch- and chemical-resistant hard-coated crystals.
- > Increased rigidity in the bearing plate for reducing the retracing error (20%) and 4-screw mounting for greater impact resistance.
- > Inspection certificate included.
- > No through screw-holes on the frame for high oil- and dust-resistance. The bezel clamp (optional) can be attached either to the right or left side.



Revolutionary stem-bushing design for trouble-free stem clamping (longer clamping range; maximum tightening torque at the clamping point with M5 screw: 150N•cm).

**10% OFF**



2803A-10



2424A-19

Order No.	Graduation	Range	Range/Rev	Type	Dial Reading	Accuracy First 2.5 Rev/Overall	Force	List	Promo
2358A-10*	.0001"	.5"	.01"	w/lug	0-10	.0001 / .0008	2.0N or less	\$260.00	<b>\$234.00</b>
2803A-10*	.0001"	.025"	.01"	w/lug	0-5-0	.0001 / .0001	2.5N or less	\$189.00	<b>\$170.10</b>
2416A-10*	.001"	1"	.1"	w/lug	0-100	.001 / .002	1.8N or less	\$166.00	<b>\$149.40</b>
2424A-19*	.001"	2"	1"	w/lug	0-100	.001 / .003	2.5N or less	\$286.00	<b>\$257.40</b>
2776A	.0005"	1"	.05"	w/lug	0-50	.0005 / .002	2.5N or less	\$167.00	<b>\$150.30</b>

\*Jeweled bearing model

## 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.
- > The grip minimizes the variation of measurements by reducing heat transfer from the operator's hand.



511-751-20

Order No.	Range	Graduation	Anvils	Spacers	List	Promo
<b>With Indicator</b>						
511-751-20	.7 - 1.4"	.0001" (2923B-10)	9	2	\$486.00	<b>\$437.40</b>
511-752-20	1.4 - 2.5"		6	4	\$473.00	<b>\$425.70</b>
511-753-20	2.0 - 6.0"		11 (2" sub anvil)	4	\$517.00	<b>\$465.30</b>
511-754-20	4.0 - 6.5"		13	4	\$683.00	<b>\$614.70</b>
511-755-20	6.5 - 10"		6	7	\$771.00	<b>\$693.90</b>
511-756-20	10 - 16"		5 (3" sub anvil)	7	\$915.00	<b>\$823.50</b>
<b>Without Indicator</b>						
511-731	.7 - 1.4"	Indicator optional Protective Cover optional (21DZA000)	9	2	\$309.00	<b>\$278.10</b>
511-732	1.4 - 2.5"		6	4	\$316.00	<b>\$284.40</b>
511-733	2.0 - 6.0"		11 (2" sub anvil)	4	\$342.00	<b>\$307.80</b>
511-734	4.0 - 6.5"		13	4	\$511.00	<b>\$459.90</b>
511-735	6.5 - 10"		6	7	\$599.00	<b>\$539.10</b>
511-736	10 - 16"		5 (3" sub anvil)	7	\$752.00	<b>\$676.80</b>



**10% OFF**



See Digimatic indicators made specifically for bore gages (page 6).



## 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 cost units have solid, hardened alloy steel anvils.

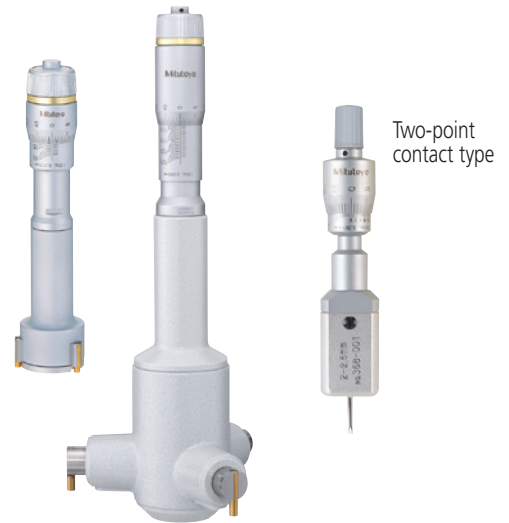
### Mechanical Holtests – Individual Units

Order No.	Description/Range	List	Promo
368-021	Holtest, 0.08" - 0.1"	\$1,730.00	\$1,384.00
368-022	Holtest, 0.1" - 0.12"	\$1,730.00	\$1,384.00
368-023	Holtest, 0.12" - 0.16"	\$1,380.00	\$1,104.00
368-024	Holtest, 0.16" - 0.2"	\$1,380.00	\$1,104.00
368-025	Holtest, 0.2" - 0.24"	\$1,380.00	\$1,104.00
368-026	Holtest, 0.24" - 0.28"	\$1,380.00	\$1,104.00
368-261	Holtest, 0.275" - 0.35"	\$686.00	\$548.80
368-262	Holtest, 0.35" - 0.425"	\$686.00	\$548.80
368-263	Holtest, 0.425" - 0.5"	\$686.00	\$548.80
368-264	Holtest, 0.5" - 0.65"	\$712.00	\$569.60
368-265	Holtest, 0.65" - 0.8"	\$712.00	\$569.60
368-266	Holtest, 0.8" - 1.0"	\$739.00	\$591.20
368-267	Holtest, 1.0" - 1.2"	\$739.00	\$591.20
368-268	Holtest, 1.2" - 1.6"	\$924.00	\$739.20
368-269	Holtest, 1.6" - 2.0"	\$973.00	\$778.40
368-270	Holtest, 2.0" - 2.5"	\$980.00	\$784.00
368-271	Holtest, 2.5" - 3.0"	\$1,060.00	\$848.00
368-272	Holtest, 3.0" - 3.5"	\$1,090.00	\$872.00
368-273	Holtest, 3.5" - 4.0"	\$1,140.00	\$912.00
368-274	Holtest, 4.0" - 5.0"	\$1,470.00	\$1,176.00
368-275	Holtest, 5.0" - 6.0"	\$1,660.00	\$1,328.00
368-276	Holtest, 6.0" - 7.0"	\$1,710.00	\$1,368.00
368-277	Holtest, 7.0" - 8.0"	\$1,770.00	\$1,416.00
368-278	Holtest, 8.0" - 9.0"	\$2,000.00	\$1,600.00
368-279	Holtest, 9.0" - 10"	\$2,250.00	\$1,800.00
368-280	Holtest, 10" - 11"	\$2,270.00	\$1,816.00
368-281	Holtest, 11" - 12"	\$2,330.00	\$1,864.00

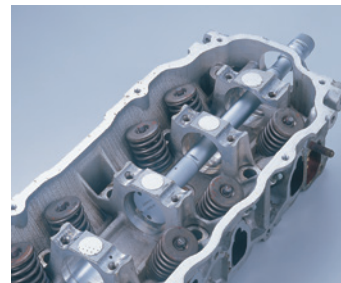
### Mechanical Holtests – Complete Unit Sets

Order No.	Description/Range	List	Promo
368-916	Holtest, Set, 0.275" - 0.5"*	\$2,540.00	\$2,032.00
368-917	Holtest, Set, 0.5" - 0.8"*	\$1,710.00	\$1,368.00
368-918	Holtest, Set, 0.8" - 2.0"*	\$3,910.00	\$3,128.00
368-919	Holtest, Set, 2.0" - 4.0"*	\$5,560.00	\$4,448.00
368-920	Holtest, Set, 4.0" - 8.0"*	\$8,530.00	\$6,824.00
368-926	Holtest, 2pc Set, .08" - .12"*	\$3,660.00	\$2,928.00
368-927	Holtest, 4pc Set, .12" - .28"*	\$5,830.00	\$4,664.00

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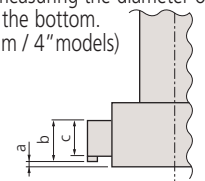


Two-point contact type



### Measuring a Blind Hole

The measuring contact points held in the jaws permit measuring the diameter of a blind hole to the bottom. (up to 100mm / 4" models)



Range	a	b	c
6 - 12mm / .275 - .5"	2	—	2.5
12 - 20mm / .5 - .8"	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

### Measuring Deep Holes

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

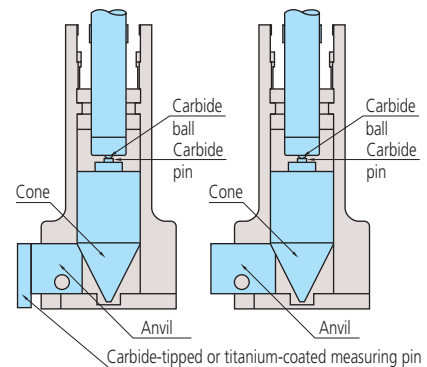


TiN coated contact points



### 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.



## 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)



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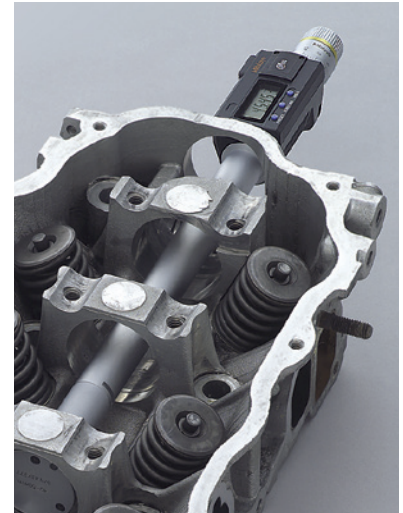
SPC IP65

### Digimatic Holtests – Individual Units

Order No.	Range	List	Promo
468-261	Digimatic Holtest, .275 - .35"	\$1,280.00	\$1,024.00
468-262	Digimatic Holtest, .35" - .425"	\$1,280.00	\$1,024.00
468-263	Digimatic Holtest, .425 - .5"	\$1,290.00	\$1,032.00
468-264	Digimatic Holtest, 0.5" - 0.65"	\$1,390.00	\$1,112.00
468-265	Digimatic Holtest, 0.65" - 0.8"	\$1,390.00	\$1,112.00
468-266	Digimatic Holtest, 0.8" - 1"	\$1,440.00	\$1,152.00
468-267	Digimatic Holtest, 1.0 - 1.2"	\$1,440.00	\$1,152.00
468-268	Digimatic Holtest, 1.2" - 1.6"	\$1,470.00	\$1,176.00
468-269	Digimatic Holtest, 1.6" - 2.0"	\$1,480.00	\$1,184.00
468-270	Digimatic Holtest, 2" - 2.5"	\$1,610.00	\$1,288.00
468-271	Digimatic Holtest, 2.5" - 3"	\$1,610.00	\$1,288.00
468-272	Digimatic Holtest, 3" - 3.5"	\$1,630.00	\$1,304.00
468-273	Digimatic Holtest, 3.5" - 4"	\$1,650.00	\$1,320.00
468-274	Digimatic Holtest, 4" - 5"	\$2,150.00	\$1,720.00
468-275	Digimatic Holtest, 5" - 6"	\$2,220.00	\$1,776.00
468-276	Digimatic Holtest, 6" - 7"	\$2,350.00	\$1,880.00
468-277	Digimatic Holtest, 7" - 8"	\$2,440.00	\$1,952.00
468-278	Digimatic Holtest, 8" - 9"	\$2,620.00	\$2,096.00
468-279	Digimatic Holtest, 9" - 10"	\$2,670.00	\$2,136.00
468-280	Digimatic Holtest, 10" - 11"	\$2,770.00	\$2,216.00
468-281	Digimatic Holtest, 11" - 12"	\$2,880.00	\$2,304.00

### Measuring Deep Holes

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



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### Digimatic Holtests – Interchangeable Head Sets

Order No.	Range	List	Promo
468-976	Digimatic Holtest Head Set, 0.275" - 0.5"*	\$2,330.00	\$1,864.00
468-977	Digimatic Holtest, Head Set, 0.5" - 0.8"*	\$1,890.00	\$1,512.00
468-978	Digimatic Holtest, Head Set, 0.8" - 2"*	\$4,720.00	\$3,776.00
468-979	Digimatic Holtest, Head Set, 2" - 4"*	\$5,410.00	\$4,328.00
468-980	Digimatic Holtest, Head Set, 4" - 8"*	\$6,350.00	\$5,080.00

### Digimatic Holtests – Complete Unit Sets

Order No.	Range	List	Promo
468-986	Digimatic Holtest, Unit-Set, 0.275" - 0.5"*	\$4,530.00	\$3,624.00
468-987	Digimatic Holtest, Unit-Set, 0.5" - 1"*	\$4,820.00	\$3,856.00
468-988	Digimatic Holtest, Unit-Set, 1" - 2"*	\$5,460.00	\$4,368.00
468-989	Digimatic Holtest, Unit-Set, 2" - 3"*	\$6,130.00	\$4,904.00
468-990	Digimatic Holtest, Unit-Set, 3" - 4"*	\$7,210.00	\$5,768.00



Complete-Unit Set



Interchangeable-Head Set

Prices effective September 9 through December 13, 2024

## 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 quick-action lever operation enables quick 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.

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**ABSOLUTE**

**SPC**



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"	±5µm ±0.00025 in	100mm (952322)	\$1,660.00	\$1,328.00
568-462	0.350" - 0.425"			\$1,660.00	\$1,328.00
568-463	0.425" - 0.500"			\$1,660.00	\$1,328.00
568-464	0.50" - 0.65"	±5µm ±0.00025 in	150mm (952621)	\$1,700.00	\$1,360.00
568-465	0.65" - 0.80"			\$1,700.00	\$1,360.00
568-466	0.8" - 1.0"	±6µm ±0.0003 in	150mm (952622)	\$1,700.00	\$1,360.00
568-467	1.0" - 1.2"			\$1,760.00	\$1,408.00
568-468	1.2" - 1.6"			\$1,940.00	\$1,552.00
568-469	1.6" - 2.0"			\$1,940.00	\$1,552.00
568-470	2.0" - 2.5"		150mm (952623)	\$1,900.00	\$1,520.00
568-471	2.5" - 3.0"			\$1,970.00	\$1,576.00
568-472	3.0" - 3.5"			\$2,000.00	\$1,600.00
568-473	3.5" - 4.0"		\$2,000.00	\$1,600.00	
568-474	4.0" - 4.5"		\$2,100.00	\$1,680.00	
568-475	4.5" - 5.0"		\$2,220.00	\$1,776.00	

### Technical Data

- Resolution: 0.001mm or 0.00005 in/0.001mm
- Display: LCD
- Response speed: Infinite
- Battery: SR44 (1 pc), 938882, 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)

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.	\$5,750.00	\$4,600.00
568-966	0.5" - 1"	0.5-0.65", 0.65-0.8", 0.8-1"	0.65" DIA., 0.8" DIA.	\$5,990.00	\$4,792.00
568-967	1" - 2"	1-1.2", 1.2-1.6", 1.6-2"	1.2" DIA., 1.6" DIA.	\$6,260.00	\$5,008.00
568-968	2" - 3"	2-2.5", 2.5-3"	2.5" DIA.	\$4,480.00	\$3,584.00
568-969	3" - 4"	3-3.5", 3.5-4"	3.5" DIA.	\$4,970.00	\$3,976.00



Complete-Unit Set

### 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.	\$2,560.00	\$2,048.00
568-929	0.5" - 1"	0.5-0.65", 0.65-0.8", 0.8-1"	0.65" DIA., 0.8" DIA.	\$2,890.00	\$2,312.00
568-930	1" - 2"	1-1.2", 1.2-1.6", 1.6-2"	1.2" DIA., 1.6" DIA.	\$3,540.00	\$2,832.00
568-936	2" - 4"	2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5" DIA., 3.5" DIA.	\$5,090.00	\$4,072.00



Interchangeable-Head Set

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



**PH-3515F Profile Projector and 2D Processor Packages**

Heavy-Duty, Bench-Top Model with Horizontal Optical System featuring touch screen M2 geometric measuring display

- > ø14" screen, Horizontal Projector
- > 10" x 6" Travel T Slot table for accessories
- > Linear Glass Scales for accurate measurement
- > Profile and Fiber Optic Surface Illumination
- > Digital built-in angle counter
- > Maximum Load 45kg / 100lb
- > Available with M2 or QM Data 2D Processors

Order No.	Description	List	Promo
<b>PH-3515 Main Unit &amp; Digital Readout Packages 5% Off</b>			
172-868-11A-KA	PH-3515F Profile Projector with KA counter & Tray	\$13,300.00	\$12,635.00
172-868-11A-QM	PH-3515F Profile Projector with QM Data & Arm Mount	\$15,400.00	\$14,630.00
172-868-11A-M2	PH-3515F Profile Projector with Touchscreen PC & M2 Software/Hardware	\$16,600.00	\$15,770.00
172-868-11A-QM-OPT	PH-3515F Profile Projector with QM Data, Arm Mount & Optoeye Edge Detection	\$17,900.00	\$17,005.00
172-868-11A-M2-EDGE	PH-3515F Profile Projector with Optical Edge Detection, Touchscreen PC & M2 Software/Hardware	\$18,200.00	\$17,290.00
<b>Machine Stand (Optional)</b>			
64PMI308	Machine Stand for PH Series	\$850.00	-

(Includes installation and A2LA accredited calibration)

**5% OFF** 5% off all Main Units



**5% OFF** 5% off all Packages



**FREE SHIPPING** Free Shipping



**Installation & Calibration Included**

172-868-11A-M2

PH-3515 Profile Projector, M2 Software/ Hardware and All-In-One Touchscreen PC



**KA-200 Counter:** PH-3515 & PV-5110

**MeasurLink ENABLED**  
Data Management Software by Mitutoyo



Display unit for X & Y Linear Scales  
 > ABSOLUTE and incremental modes (10 presets each)  
 > 0.05-.0001mm / .02" - .000005" in resolution  
 > Calculator functionality

**Compatible Digital-Read-Out (DRO) Devices**

M2 Software & Hardware: PH-3515 & PJ-PLUS

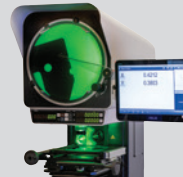


**MeasurLink ENABLED**  
Data Management Software by Mitutoyo

M2 is a universal 2D coordinate measurement software which has become the preferred software for many optical comparator users due to its intuitive user interface and data collection procedures.

- > Software & All-In-One Touch Screen PC Included
- > Full Integration and A2LA Calibration conducted

**Automatic Edge Detection**



Fiber Optic Edge Detection system integrated into M2 software via M2 Communication Unit.  
 Intuitive Edge Teach Functionality built into software.  
 Allows for continuous measurement of features, while storing data for post process analysis

**PJ-Plus with M2 2D Processor Packages**

The PJ-Plus is a new series of profile projectors offered by Mitutoyo. This system utilizes LED lighting and a fanless design making it ideal for harsh manufacturing facilities or job shops.

Order No	Description	XY Stage	List	Promo
<b>PJ-PLUS Main Units - 5% Off</b>				
302-801-10A	PJ-P1010A 4x4"/100x100m	4x4"/100x100m	\$12,400.00	\$11,780.00
302-802-10A	PJ-P2010A 8X4"/200x200mm	8X4"/200x200mm	\$15,500.00	\$14,725.00
<b>PJ-PLUS &amp; M2 Packages - 5% Off</b>				
302-801-10-M2-EDGE	PJ-PLUS 4X4 - M2, Optical Edge Detection and Touchscreen	4x4"/100x100mm	\$18,700.00	\$17,765.00
302-801-10-M2	PJ-PLUS 4x4 - M2 and Touchscreen PC Package	4x4"/100x100mm	\$17,300.00	\$16,435.00
302-802-10-M2-EDGE	PJ-PLUS 8x4 - M2, Optical Edge Detection and Touchscreen	8x4"/200x100mm	\$21,900.00	\$20,805.00
302-802-10-M2	PJ-PLUS 8x4 - M2 and Touchscreen PC Package	8x4"/200x100mm	\$20,500.00	\$19,475.00
<b>Machine Stand (Optional)</b>				
64PMI167	Machine Stand for PJ Series		\$788.00	-

**5% OFF** 5% off all Main Units



**5% OFF** 5% off all Accessory Packages



**FREE SHIPPING** Free Shipping

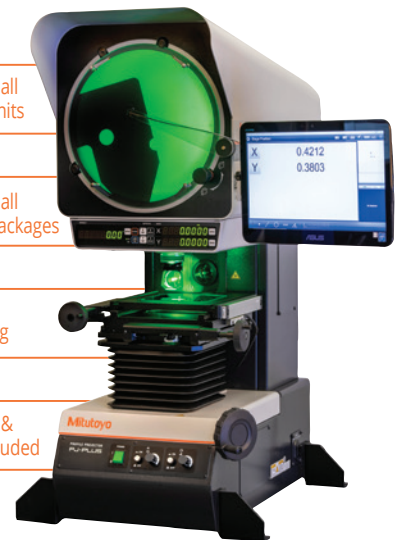


**Installation & Calibration Included**

302-801-10-M2-EDGE

**MeasurLink ENABLED**  
Data Management Software by Mitutoyo

An XY axis digital counter is built into the PJ-Plus



Prices effective September 9 through December 13, 2024

## PV-5110 Vertical (Downward) Profile Projector (5% OFF Main Unit & 5% OFF DRO)

The PV-5110 Profile Projector is a downward optical axis projector fitted with a stable glass stage for delicate item inspection, ensuring accuracy and preventing damage. Its advanced optics and secure platform make it an optimal choice for precise applications, particularly with thin or delicate workpieces.

- > Ø19.4" Screen, Vertical Projector.
- > Downward Optical Axis - Provides improved oblique surface illumination.
- > LED illumination.
- > Built-In Dual Oblique Surface Illumination for improved contrast.

Order No.	Description	List	Promo
<b>PV-5110 Main Unit &amp; Digital Readout Interface Packages - 5% Off</b>			
304-919-11A-KA	PV-5110 with KA Counter	\$23,200.00	<b>\$22,040.00</b>
304-919-11A-QM	PV-5110 with QM Data	\$25,580.00	<b>\$24,301.00</b>
304-919-11A-QM-OPT	PV-5110 with QM Data and Optoeye	\$27,540.00	<b>\$26,163.00</b>

PLEASE NOTE: No stand or elevated surface is required.

**5% OFF** 5% off all Main Units



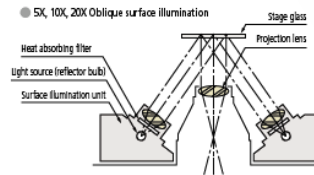
**5% OFF** 5% off all Packages



**FREE SHIPPING** Free Shipping



**Installation & Calibration Included**



304-919-11A-KA  
PV-5110 with KA Counter

## Additional DRO

QM Data: PH-3515, PJ-PLUS, PV-5110 & PJ-H30

The QM-Data200 unit features the powerful QM 2D coordinate measurement software pre-loaded onto our rugged user interface. The QM-Data200 interface features easy-to-use key operations and allows for measurement results to be visualized on its LCD Display.

**MeasurLink ENABLED**  
Data Management Software by Mitutoyo



Plot Single Data Points



Return 2-Dimensional Graphic and Calculated Values

- > Built-In Guided Measurement Tutorials.
- > Programmable Measurement Procedures & Calculations.
- > Data Collection and USB Output.
- > Full Integration and A2LA Calibration conducted by Mitutoyo Field Service team.

### Optoeye-200

Optical Edge Detection  
(Additional Purchase Required)



## PJ-H30 Vertical Profile Projector

The Mitutoyo PJ-H30 is unique given its ability to produce an uninverted image, which improves the intuitive operation as the projected image appears in the same orientation as the workpiece.

- > Optical system with high NA lenses provides bright and high contrast images
- > The three-lens mounting turret includes a 10X lens as standard
- > Built-In digital XY Counter

303-716-13A &  
264-131-13A-PJH-OPT



**25% OFF** 25% off all Main Units



**5% OFF** 5% off all Accessory Packages



**FREE SHIPPING** Free Shipping



**Installation & Calibration Included**

**MeasurLink ENABLED**  
Data Management Software by Mitutoyo



303-717-13A PJ-H30A2010B

Order No.	Description	XY Travel	List	Promo
<b>PJ-H30 Main Units - 25% OFF</b>				
303-716-13A	PJ-H30A1010B	4x4"/100x100mm	\$26,500.00	<b>\$19,875.00</b>
303-717-13A	PJ-H30A2010B	8x4"/200x100mm	\$32,300.00	<b>\$24,225.00</b>
303-718-13A	PJ-H30A2017B	8x6.7"/200x170mm	\$38,200.00	<b>\$28,650.00</b>
303-719-13A	PJ-H310A3017B	12x6.7"/300x170mm	\$44,100.00	<b>\$33,075.00</b>
<b>Digital Readout Interface (Add-On Packages - Optional) - 5% Off</b>				
264-161-13A-PJH	QM-DATA200 Arm Type (PJ-H Series Package)		\$4,140.00	<b>\$3,933.00</b>
264-161-13A-PJH-OPT	QM-DATA200 Arm Type & Optoeye (PJ-H)		\$6,160.00	<b>\$5,852.00</b>
<b>Machine Stand (Optional)</b>				
64PMI167	Machine Stand for PJ Series		\$788.00	-



## High-Accuracy Height Gage Linear Height LH-600F/FG

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, adjustable 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 wirelessly.
- > Additional probe and extension options.

### Still Featuring:

- > Resolution down to 0.1µinch (selectable).
- > Highest accuracy in its class  $\pm (1.1+0.6L/600) \mu\text{m}$ .
- > 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.

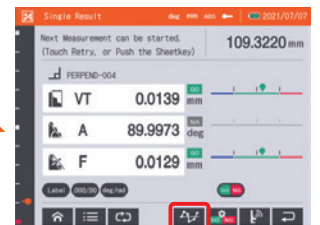


Power grip model also available for even easier positioning.

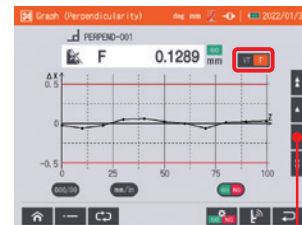
### Perpendicular/straightness measurement - Graph creation



Show results in real time during measurement.



Show results after measurement.



You can monitor the graphs of past measurement results.



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"	\$10,799.00	\$9,360.00
Promo031	LH-600FG Inch/mm, Power Grip Model			\$11,299.00	\$9,810.00

Prices effective September 9 through December 13, 2024



### 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.

#### Basic measurements



Height (top) measurement



Height (bottom) measurement



Width (inside) measurement



Width (outside) measurement



Shaft (top) measurement



Shaft (bottom) measurement



Circle (shaft) measurement



Max.-Min. (top) measurement



Hole (bottom) measurement



Hole (top) measurement



Circle (hole) measurement



Max.-Min. (bottom) measurement

#### Advanced measurement functions



Part program measurement



2D measurement

#### Power



Power

#### Measurement settings



Measurement origin setting



Probe selection



Measurement origin switching

#### Other



Home screen



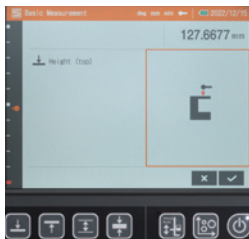
System settings



Data output

#### Touch panel with guidance

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



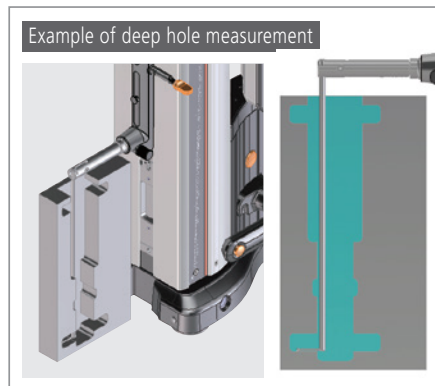
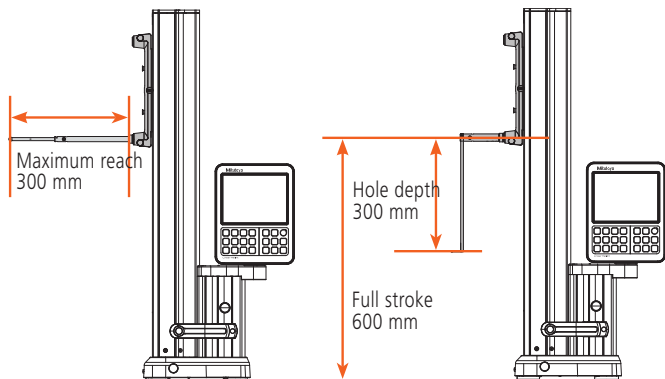
Guidance screen



Operable with gloves

#### 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.



SCAN ME

### ABSOLUTE 1D Height Gage QM-Height Series

- > High-resolution ABSOLUTE linear encoder for position detection
- > High-accuracy:  $\pm(2.4 + 2.1L / 600)\mu\text{m}$
- > 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/ $\pm$ 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.



"d2" is the name for Mitutoyo Digimatic output compatible with up to 8 digits of I/O data.

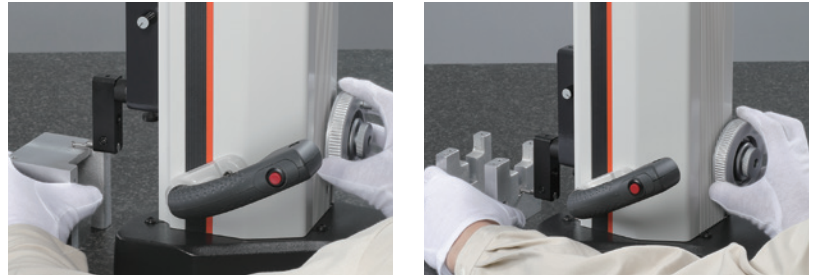
**MeasurLink<sup>®</sup> ENABLED**  
Data Management Software by Mitutoyo

### d2 Digimatic and USB outputs

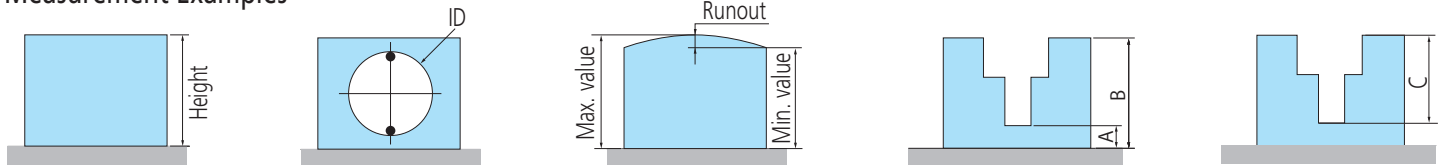
- Digimatic and USB ports are provided as standard. Using the U-WAVE-T measurement data wireless communication system enables instant transmission of measurement data to a PC via wireless communication which reduces manual input errors and improves data reliability and operational efficiency.



- > Measure diameters, gap distances, center-to-center distances, and more
- > 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



## Measurement Examples



Part No.	Range	Resolution	Remarks	List	Promo
64PKA094C	0 - 14" / 0 - 350mm	0.001mm / 0.0005mm / .00005" / .0001" (selectable)	Pneumatic Flotation System	\$4,580.00	\$4,122.00
64PKA095C	0 - 24" / 0 - 600mm			\$5,150.00	\$4,635.00
64PKA129C	0 - 14" / 0 - 350mm			\$5,150.00	\$4,635.00
64PKA130C	0 - 24" / 0 - 600mm			\$5,710.00	\$5,139.00

## Optional Accessories

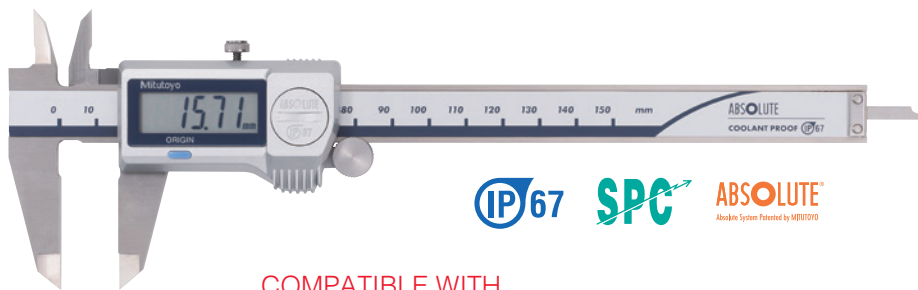
Order No.	Description	List	Promo
12AAC072	DEPTH PROBE	\$227.00	\$215.65
12AAA837	INDICATOR HOLDER (ACCEPTS 3/8" STEM)	\$165.00	\$156.75
12AAA793	PROBE EXTENSION HOLDER (3.3" / 85mm)	\$184.00	\$174.80
226118	SHANK WITH M3 THREAD SCREW	\$145.00	\$137.75
957265	20MM DIA. DISK STYLUS FOR LINEAR HEIGHT	\$437.00	\$415.15
957264	14MM DIA. DISK STYLUS FOR LINEAR HEIGHT	\$356.00	\$338.20
12AAF669	10PI BALL CONTACT POINT(COAXIAL)	\$269.00	\$255.55
957261	2MM DIA. BALL STYLUS FOR LINEAR HEIGHT	\$241.00	\$228.95
517-814-10	GRAPLATE 36X48" GRADE A	\$3,200.00	\$3,040.00
517-964-10	GRAPLATE STAND 36X48"	\$1,260.00	\$1,197.00
517-808-10	GRAPLATE 24X36" GRADE A	\$1,670.00	\$1,586.50
517-956-10	GRAPLATE STAND 24X36"	\$1,170.00	\$1,111.50
06AFM380D	USB-ITN-D INPUT TOOL DIRECT CABLE	\$226.00	\$214.70
02AZD730G-D	U-WAVE TRANSMITTER W/ CONNECTING CABLE (D)	\$378.00	\$359.10
02AZD810D	U-WAVE-RECEIVER	\$571.00	\$542.45





## Coolant-Proof Calipers

- > Sealed housing is IP67 rated, meaning it's resistant 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.



COMPATIBLE WITH  
**U-WAVE fit**

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

Order No.	Range	List	Promo
<b>Non-Output Style</b>			
500-752-20	0-6"/0-150mm	\$246.00	<b>\$233.70</b>
500-753-20	0-8"/0-200mm	\$330.00	<b>\$313.50</b>
500-754-20	0-12"/0-300mm	\$571.00	<b>\$542.45</b>
<b>SPC Output Style</b>			
<b>fit</b> 500-762-20	0-6"/0-150mm	\$292.00	<b>\$277.40</b>
<b>fit</b> 500-763-20	0-8"/0-200mm	\$368.00	<b>\$349.60</b>
<b>fit</b> 500-764-20	0-12"/0-300mm	\$634.00	<b>\$602.30</b>

\* ±.0015" accuracy **fit** U-WAVE Fit compatible SPC cable – 1m: 05CZA624 2m: 05CZA625



## COOLANT PROOF™ IP67

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

# 10% OFF



**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

Order No.	Range	Accuracy	Resolution	List	Promo
552-312-10	0(.5")-18"	+/- .002"	.0005"/0.01mm	\$1,110.00	<b>\$999.00</b>
552-313-10	0(.5")-24"	+/- .002"	.0005"/0.01mm	\$1,250.00	<b>\$1,125.00</b>
552-314-10	0(1")-40"	+/- .002"	.0005"/0.01mm	\$2,240.00	<b>\$2,016.00</b>
552-315-10	0(1")-60"	+/- .004"	.0005"/0.01mm	\$2,670.00	<b>\$2,403.00</b>
552-316-10	0(1")-80"	+/- .005"	.0005"/0.01mm	\$4,180.00	<b>\$3,762.00</b>

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



# 33% OFF

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"	\$5,180.00	<b>\$3,470.60</b>

### 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.).

## 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 the Mitutoyo 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.

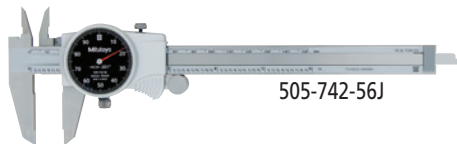


Order No.	Range	Remarks	List	Promo
<b>No SPC Output Style</b>				
500-195-30	0-4"/0-100mm	.075" Round Depth Bar	\$170.00	\$161.50
500-196-30	0-6"/0-150mm		\$184.00	\$174.80
500-197-30	0-8"/0-200mm		\$265.00	\$251.75
500-193-30	0-12"/0-300mm		\$532.00	\$505.40
<b>With SPC Output Style</b>				
500-170-30	0-4"/0-100mm	.075" Round Depth Bar	\$203.00	\$192.85
500-171-30	0-6"/0-150mm		\$215.00	\$204.25
500-172-30	0-8"/0-200mm		\$284.00	\$269.80
500-173-30	0-12"/0-300mm		\$621.00	\$589.95
500-505-10	0-18"/0-450mm	Without Thumb Roller	\$967.00	\$918.65
500-506-10	0-24"/0-600mm	Without Thumb Roller	\$1,060.00	\$1,007.00
500-507-10	0-40"/0-1000mm	Without Thumb Roller	\$2,050.00	\$1,947.50

U-WAVE Fit compatible

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

## Dial Caliper

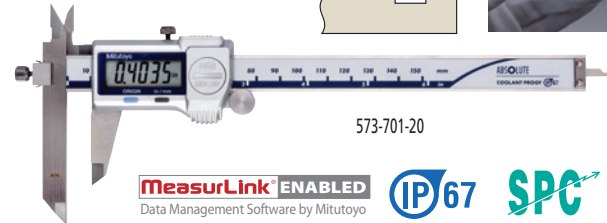
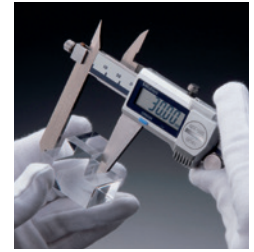
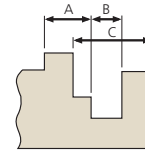


- > Smooth sliding with high shock protection.
- > Lock screw for dial bezel and for holding the sliding jaw position.
- > Can measure OD, ID, depth and steps.
- > Models available with carbide-tipped OD and ID jaws.

Order No.	Range	Remarks	List	Promo
505-742J	0-6" .100"/rev		\$149.00	\$141.55
505-738	0-6" .100"/rev	Carbide-tipped jaws	\$243.00	\$230.85
505-740J	0-6" .200"/rev		\$136.00	\$129.20
505-743J	0-8" .100"/rev		\$217.00	\$206.15
505-746	0-12" .100"/rev		\$331.00	\$314.45
505-749	0-12" .200"/rev		\$309.00	\$293.55
505-742-56J	0-6" .100"/rev	Black Dial Face	\$149.00	\$141.55

## 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
573-701-20	0-6" / 0-150mm	±.001"	.0005" / 0.01mm	\$548.00	\$520.60
573-702-20	0-8" / 0-200mm	±.001"	.0005" / 0.01mm	\$628.00	\$596.60
573-704-20	0-12" / 0-300mm	±.0015"	.0005" / 0.01mm	\$841.00	\$798.95

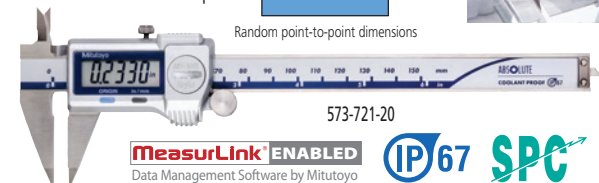
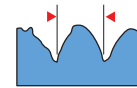
U-WAVE Fit compatible

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.
- > With depth bar.
- > With SPC data output.

Random point-to-point dimensions



Order No.	Range	Accuracy	Resolution	List	Promo
573-721-20	0-6" / 0-150mm	±.001"	.0005" / 0.01mm	\$479.00	\$455.05
573-725-20*	0-6" / 0-150mm	±.001"	.0005" / 0.01mm	\$596.00	\$566.20

\* Extended tips U-WAVE Fit compatible

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

## 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.



Order No.	Range	Accuracy	Resolution	List	Promo
573-291-30	0-7" / 0-180mm	±.002"	.0005" / 0.01mm	\$968.00	\$919.60

U-WAVE Fit compatible

www.mitutoyo.com

### 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



293-676-20

ABSOLUTE™ SPC

COOLANT PROOF™ IP65

MeasurLink™ ENABLED  
Data Management Software by Mitutoyo



Order No.	Range	Resolution	Accuracy	Flatness	Parallelism	List	Promo
293-676-20	0 - 1.2"	.00005"/0.001mm	±0.0001"	0.000012"	0.00008"	\$700.00	\$665.00
293-677-20	1 - 2.2"	.00005"/0.001mm	±0.0001"	0.000012"	0.00008"	\$764.00	\$725.80

SPC cable with data switch – 1m: 05CZA662 2m: 05CZA663

### 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	\$178.00	\$169.10
293-832-30	0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	Friction Thimble	\$189.00	\$179.55



293-831-30

### 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 Mitutoyo 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.



293-330-30

SPC  
COOLANT PROOF™ IP65

MeasurLink™ ENABLED  
Data Management Software by Mitutoyo

Order No.	Range	Resolution	Remarks	List	Promo
<b>fit</b> 293-330-30*	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Stop	\$283.00	\$268.85
293-340-30	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Stop	\$260.00	\$247.00
293-344-30	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Thimble	\$260.00	\$247.00
293-349-30	0-1"/0-25.4mm	.0001"/0.001mm	Ratchet Thimble, Tenths Reading	\$260.00	\$247.00
<b>fit</b> 293-331-30*	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Stop w/Standard	\$333.00	\$316.35
293-341-30	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Stop w/Standard	\$286.00	\$271.70
293-345-30	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Thimble w/Standard	\$286.00	\$271.70
<b>fit</b> 293-334-30*	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Thimble	\$304.00	\$288.80
<b>fit</b> 293-335-30*	0-1"/0-25.4mm	.00005"/0.001mm	Friction Thimble	\$283.00	\$268.85

\*with SPC Output

**fit** U-WAVE Fit compatible

SPC cable with data switch – 1m: 05CZA662 2m: 05CZA663





## 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.

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

Part No.	Description	List Price
PROMO029A	Package: MDH Mic, SPC Cable, USB Input Tool	\$1,920.00
293-130-10	MDH Micrometer with high accuracy, high resolution output	\$1,920.00
05CZA662	SPC CONNECTING CABLE (1M)	\$96.05
264-020	USB INPUT TOOL	\$226.00



## ABSOLUTE Digimatic Height Gages

Popular Mitutoyo single-beam height gages have been redesigned to be even easier to use, with larger displays, various hardware accessories, and multiple data options such as wired and wireless output, data loggers and more.

### Features:

- > Durable Build - Iron detector and base, steel beam and holder
- > Easy to use slider feed wheel
- > Multiple data equipment options
- > Other improvements: twist-off battery cap, 20% larger LCD, handy Data button



Shown with optional Test Indicator and mounting hardware (see page 5).



Shown with optional U-Wave Bluetooth® transmitter (see page 22 and connector 02AZD790F)



**MeasurLink** ENABLED  
Data Management Software by Mitutoyo



Order No.	Range	Resolution	Functions	Drive Method	Data Output	Max. response speed	Battery Life	List	Promo
570-412	0"-12"/0mm-300mm	0.0005" / 0/01mm	On/Off, Origin, Zero/ABS, Hold/Data, inch/mm conversion"	Slider-feed Wheel (manual)	Digimatic d1	Unlimited	Approx. 5 Years Under Normal Use	\$860.00	\$817.00
570-413	0"-18"/0mm-450mm							\$1,150.00	\$1,092.50
570-414	0"-24"/0mm-600mm							\$1,340.00	\$1,273.00

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®

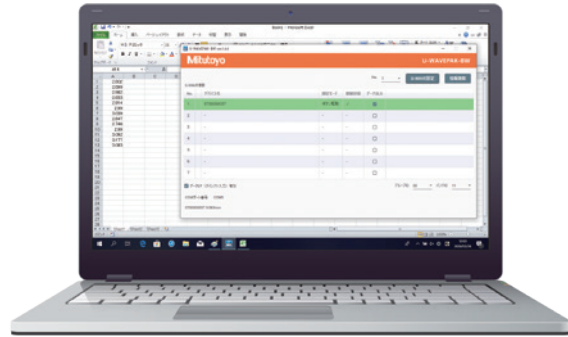
### U-WAVE-TMB/TCB

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.



Request an assessment to determine how quickly your company can obtain a full ROI



The measurement data is used to make the software in the pc Transferable PC Communication Software U-WAVEPAK-BW.

The Google Play and Google Play logos are trademarks of Google LLC. The Apple and Apple logos are trademarks of Apple Inc.



U-WAVE-TMB



**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

**10% OFF**

U-WAVE-TCB



### U-WAVE-TMB/TCB\*

Order No.	Model	Measuring Instrument*	Remarks	List	Promo
264-624-IP-S	U-WAVE-TCB	4", 6", 8", 12" standard caliper	Transmitter and Connection Unit	\$285.00	\$256.50
264-624-IP	U-WAVE-TCB	4", 6", 8", 12" IP67 caliper	Transmitter and Connection Unit	\$285.00	\$256.50
264-626-IP-M	U-WAVE-TMB	Coolant-proof (IP65) micrometer	Transmitter and Connection Unit	\$285.00	\$256.50
02AZF700-TMB	U-WAVE-TMB	0.5" (12.5mm) Stroke for S1 Indicators	Transmitter and Connection Unit	\$320.00	\$288.00
02AZG011-TMB	U-WAVE-TMB	1" (25.4mm) Stroke or Larger for S1 Indicators	Transmitter, Bracket, and Connection Unit	\$385.00	\$346.50

\* No U-WAVE Receiver required

Prices effective September 9 through December 13, 2024

# 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.

**UP TO 10% OFF**



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.

**MeasurLink<sup>®</sup> ENABLED**  
Data Management Software by Mitutoyo

## U-WAVE-Fit (Transmitter)

Order No.	Model	Measuring Instrument*	Remarks	List	Promo
264-620-IP-S	U-WAVE-TC	4", 6", 8", 12" IP67 standard caliper	Transmitter and Connection Unit	\$285.00	<b>\$256.50</b>
264-620-IP	U-WAVE-TC	4", 6", 8", 12" IP67 caliper	Transmitter and Connection Unit	\$285.00	<b>\$256.50</b>
264-622-IP-M	U-WAVE-TM	Coolant-proof (IP65) micrometer	Transmitter and Connection Unit	\$285.00	<b>\$256.50</b>
02AZF700-TM	U-WAVE-TM	0.5" (12.5mm) Stroke for S1 Indicators	Transmitter and Connection Unit	\$320.00	<b>\$288.00</b>
02AZG011-TM	U-WAVE-TM	1" (25.4mm) Stroke or Larger for S1 Indicators	Transmitter, Bracket, and Connection Unit	\$385.00	<b>\$346.50</b>

\* Please contact Mitutoyo or distributor for further details

- 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<sup>®</sup> Excel<sup>®</sup> 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

## 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	\$571.00	<b>\$542.45</b>

## MeasurLink<sup>®</sup> Quality Data Management Software

Monitor, analyze, collect, calibrate, report and improve.



Achieve Total Quality Management with the Total Quality MeasurLink<sup>®</sup> license. This is a single floating license that can be accessed by anyone and anywhere on the network with every single module. For the engineer(s) who wants total freedom to continuously improve their quality department. No annual fees.

Order No.	Remarks	List	Promo
64AAB855F	MeasurLink <sup>®</sup> V10 Single Floating License	\$3,110.00	<b>\$2,488.00</b>

### TQM License Includes:

- > Real-Time SPC
- > AQL Sampling
- > Advanced Data Analysis
- > Automated Reporting and Analysis
- > Data Collection Alerts
- > Gage Inventory Management
- > Gage Calibration
- > Gage R&R
- > Automated Ballooning
- > AS9102 First Article Reports
- > And more!

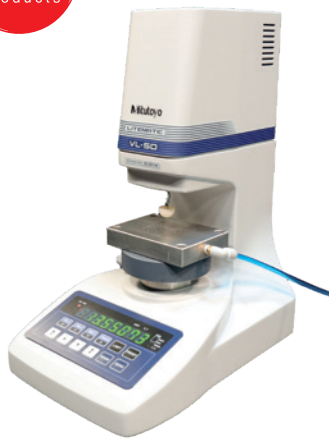
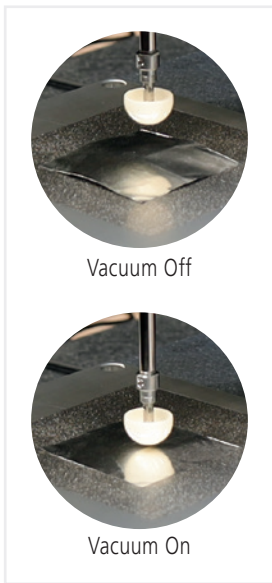
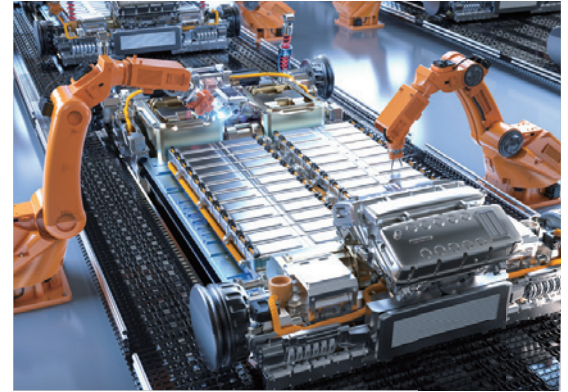


### Solution for Battery Foil Thickness Measurement

The key to success:

High accuracy thickness measurement of thin foil and film samples

- > The combination of the Litematic and the vacuum plate system provides high accuracy measurement of easily deformed material.
- > Litematics 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 battery film, onto the plate surface for more stable measurement.
- > Mitutoyo America provides vacuum plate packages as well as custom-made solutions.
- > Optional set O2AZE375 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	\$9,710.00	<b>\$8,739.00</b>

> Measuring accuracy (20°C) up to  $(0.5+L/100)$   $\mu\text{m}$  L=arbitrary measuring length (mm)

> Repeatability up to 0.05  $\mu\text{m}$

\*The ceramic ball contact included with Vacuum Packages will add 0.03N



#### Vacuum Package Add-ons

Code	Model	List	Promo
64PKA297	50x50mm Vacuum Package	\$4,300.00	<b>\$3,870.00</b>
K543722	Laser-activated Vacuum Package	\$9,350.00	<b>\$8,415.00</b>



#### Separate Type Litematic Main Unit

Code	Model	Test Force*	List	Promo
318-226A	VL-50S-B	0.01N	\$9,710.00	<b>\$8,739.00</b>
957460	Granite Stand		\$5,010.00	<b>\$4,509.00</b>

> Measuring accuracy (20°C) up to  $(0.5+L/100)$   $\mu\text{m}$  L=arbitrary measuring length (mm)

> Repeatability up to 0.05  $\mu\text{m}$

\*The ceramic ball contact included with Vacuum Packages will add 0.03N



#### Vacuum Package Add-ons

Code	Model	List	Promo
64PKA298	100x100mm Vacuum Package	\$5,340.00	<b>\$4,806.00</b>

## 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
542-081	Main EJ Module Counter	\$545.00	\$517.75
542-081A	Main EJ Module w/AC Components	\$630.00	\$598.50
21HZA149	USB Only Interface	\$400.00	\$380.00
21HZA186	CC-Link Module (Mitsubishi), and USB	\$888.00	\$843.60
21HZA187	PROFINET Module	\$888.00	\$843.60
21HZA188	EtherNet/IP Module	\$922.00	\$875.90
21HZA264	EtherCat Module	\$884.00	\$839.80

## Linear Gage LG100 Series

542-190/542-191/542-192  
(10 mm stroke)



IP67 G

542-193/542-194/542-195  
(25 mm stroke)



542-196/542-197  
(50 mm stroke)



Order No	Description	List	Promo
542-190	LG100-110, Range: .4"/10mm, Res: .00005"/1µm	\$630.00	\$598.50
542-193	LG100-125, Range: 1"/25mm, Res: .00005"/1µm	\$803.00	\$762.85
542-196	LG100-150, Range: 2"/50mm, Res: .00005"/1µm	\$973.00	\$924.35
542-191	LG100-0510, Range: .4"/10mm, Res: .00002"/0.5µm	\$687.00	\$652.65
542-194	LG100-0525, Range: 1"/25mm, Res: .00002"/0.5µm	\$860.00	\$817.00
542-197	LG100-0550, Range: 2"/50mm, Res: .00002"/0.5µm	\$1,030.00	\$978.50
542-192	LG100-0110, Range: .4"/10mm, Res: 5µinch/0.1µm	\$745.00	\$707.75
542-195	LG100-0125, Range: 1"/25mm, Res: 5µinch/0.1µm	\$917.00	\$871.15

## Linear Gage LG200 Series

542-186/542-187/542-188



IP67 G

Order No	Description	List	Promo
542-188	LG200-0110, Range: 0.4"/10mm, Res: .00005"/0.1µm	\$838.00	\$754.20
542-187	LG200-0510, Range: 0.4"/10mm, Res: .00002"/0.5µm	\$783.00	\$704.70
542-186	LG200-110, Range: 0.4"/10mm, Res: .00005"/1µm	\$727.00	\$654.30

### 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 guaranteed.

### 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)

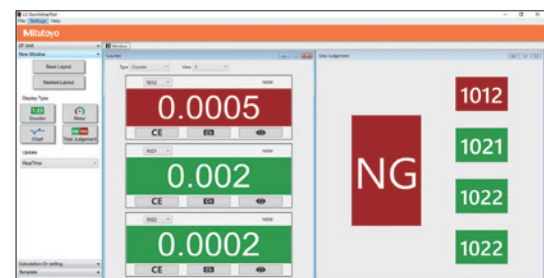
### Reference point detection (LG100 Series)

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/>

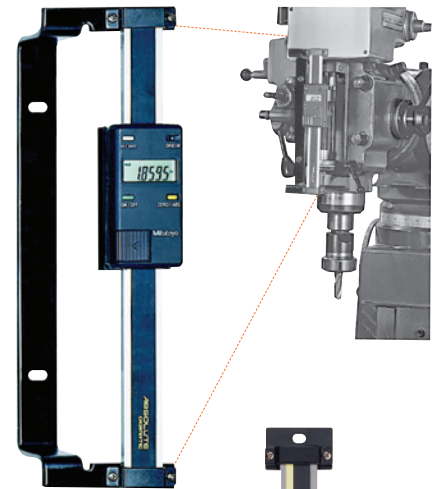


### Digimatic Quill Kit

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	\$356.00	<b>\$338.20</b>



### ABSOLUTE Digimatic Scale Units

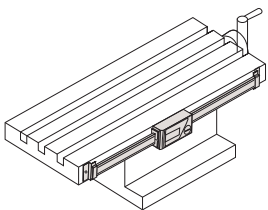
- > The Origin key allows setting of an ABSOLUTE zero point to be used as reference in subsequent measurements. Once set, the ABS Digimatic Scale Unit is ready to show its true position whenever turned on, rather than 0.00" as with standard models.
- > The Zero/ABS key allows the display to be zero-set 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.



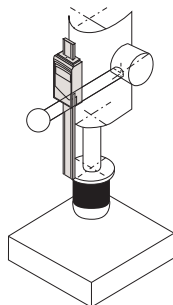
Order No	Model	Range	Accuracy	Resolution	Type	List	Promo
572-210-30	SD-4"DX	0-4" / 0-100mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal Single-function	\$269.00	<b>\$255.55</b>
572-211-30	SD-6"DX	0-6" / 0-150mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal Single-function	\$285.00	<b>\$270.75</b>
572-212-30	SD-8"DX	0-8" / 0-200mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal Single-function	\$332.00	<b>\$315.40</b>
572-213-10	SD-12"D	0-12" / 0-300mm	.002" / 0.04mm	.0005" / 0.01mm	Horizontal Single-function	\$641.00	<b>\$608.95</b>
572-310-10	SDV-6"D	0-4" / 0-100mm	.001" / 0.03mm	.0005" / 0.01mm	Vertical Single-function	\$298.00	<b>\$283.10</b>
572-311-10	SDV-6"D	0-6" / 0-150mm	.001" / 0.03mm	.0005" / 0.01mm	Vertical Single-function	\$316.00	<b>\$300.20</b>
572-312-10	SDV-8"D	0-8" / 0-200mm	.001" / 0.03mm	.0005" / 0.01mm	Vertical Single-function	\$367.00	<b>\$348.65</b>
572-313-10	SDV-12"D	0-12" / 0-300mm	.002" / 0.04mm	.0005" / 0.01mm	Vertical Single-function	\$705.00	<b>\$669.75</b>

#### Applications

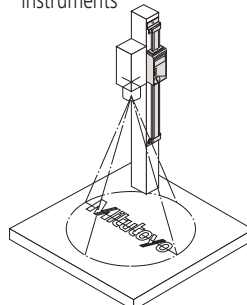
Machine table position



Drilling machine stroke position

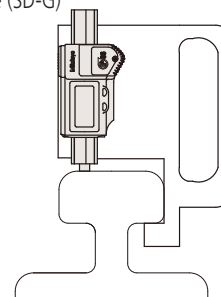


Focus setting on optical instruments

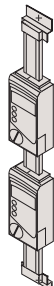


#### Special Applications

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



Detector head mechanism





# Linear Encoders for Lathes, Grinders, and Mills

## Mitutoyo Digital Readout Packages

Mounting hardware Included on all machine retrofit packages

SAVE  
**\$200**  
PER PACKAGE



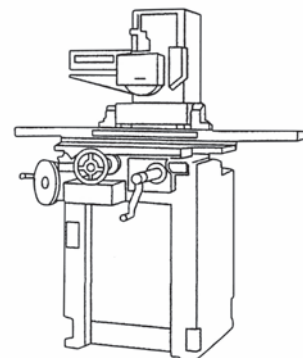
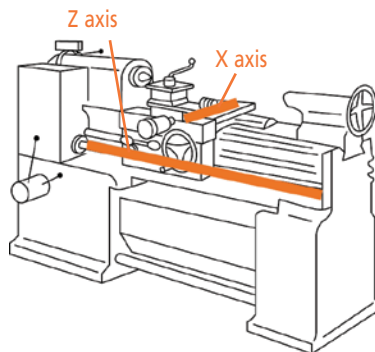
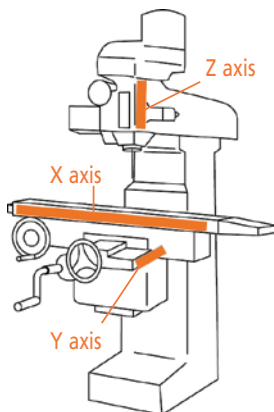
All DRO Packages Include:

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

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Data Management Software by Mitutoyo

Package Part No.	Description	X Travel	Y Travel	Z Travel	X Axis Type	Y Axis Type	Z Axis Type	List	Promo
64PKA058C	12" X 30" DRO Mill Package	30"	12"		AT715	AT715		\$1,710.00	\$1,510.00
64PKA059C	12" X 36" DRO Mill Package	36"	12"		AT715	AT715		\$1,710.00	\$1,510.00
64PKA060C	14" X 30" DRO Mill Package	30"	14"		AT715	AT715		\$1,710.00	\$1,510.00
64PKA062C	16" X 36" DRO Mill Package	36"	16"		AT715	AT715		\$1,710.00	\$1,510.00
64PKA063B	16" X 40" DRO Mill Package	40"	16"		AT715	AT715		\$1,710.00	\$1,510.00
64PKA039B	6" X 28" Lathe Package			28"	AT113		AT715	\$1,970.00	\$1,770.00
64PKA035B	8" X 40" Lathe Package			40"	AT113		AT715	\$1,970.00	\$1,770.00
64PKA042B	10" X 40" Lathe Package			40"	AT113		AT715	\$1,970.00	\$1,770.00
64PKA046C	12" X 40" Lathe Package			40"	AT113		AT715	\$1,970.00	\$1,770.00
64PKA050B	12" X 60" Lathe Package			60"	AT113		AT715	\$2,200.00	\$2,000.00
64PKA052B	14" X 40" Lathe Package			40"	AT113		AT715	\$2,200.00	\$2,000.00
64PKA057B	16" X 60" Lathe Package			60"	AT113		AT715	\$2,200.00	\$2,000.00
64PKA026B	6" X 12" Grinder Package			12"	AT113		AT113	\$2,467.00	\$2,267.00
64PKA028C	8" X 12" Grinder Package			12"	AT113		AT113	\$2,467.00	\$2,267.00
64PKA029B	8" X 14" Grinder Package			14"	AT113		AT113	\$2,467.00	\$2,267.00

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



## 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.
- › All hardness parameters set automatically via the touch screen.
- › Cylindrical and spherical surface corrections.
- › Auto conversion to most common hardness scales or tensile strength.

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Data Management Software by Mitutoyo

Model No.	810-233-33A		810-333-33A	
Order No.	HR-530		HR-530L	
Hardness testing methods	Rockwell / Rockwell Superficial / Brinell / Plastics Hardness			
Initial Test Force	29.42 N (3kgf), 98.07 N (10kgf)			
Test Force (N)	Superficial	147.1 N (15kgf), 294.2 N (30kgf), 441.3 N (45kgf)		
	Rockwell	588.4 N (60kgf), 980.7 N (100kgf), 1471 N (150kgf)		
	Light Force Brinell	61.29 N (6.25kgf), 98.07 N (10kgf), 153.2 N (15.625kgf), 245.2 N (25kgf), 294.2 N (30kgf), 306.5 N (31.25kgf), 612.9 N (62.5kgf), 980.7 N (100kgf), 1226 N (125kgf), 1839 N (187.5kgf)		
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 (Color)		
Mass	Approx. 60 kg		Approx. 69 kg	
List	\$16,600.00		\$20,000.00	
Promo	\$14,940.00		\$18,000.00	

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Installation & Calibration Included

HR-530  
810-233-33A

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Installation & Calibration Included

HR-530L  
810-333-33A

## ASTM Compliant HR Series Rockwell and Superficial Hardness Tester Packages Include:

- › Certified Blocks and Indenters
- › C and N Scale Indenter
- › 1/16" Carbide Ball Indenter
- › HRC30 Rockwell Test Block
- › HRC63 Rockwell Test Block
- › HRBW95 Rockwell Test Block
- › HR30N60 Rockwell Test Block
- › HR30TW70 Rockwell Test Block
- › Certificate stating conformance to ASTM E 18
- › Mitutoyo Installation and A2LA Calibration



\*HR-430MR includes only diamond indenter, C-scale indenter, HRC and HRBW blocks listed above\*

### 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 Style Indenter with Flat			
64HAA100	64HAA119	64HAA101	64HAA119



For more information regarding compatible accessories such as fixtures, indenters, and calibration blocks use the QR Code!





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## A Complete Line of ASTM Compliant Rockwell Hardness Testing Machines

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**Installation & Calibration Included**



	HR-320MS	HR-430MR	HR-430MS	HR-530/HR-530L	HR-610A/HR-620A	HR-620B
Rockwell Scales		X				
Rockwell and Superficial	X		X	X	X	X
Dead Weight	X	X	X			
Individual Hanging Weights	X					
Dial Weight		X	X			
Automatic break		X	X			
Closed Loop				X	X	X
Digital Display	X	X	X	X	X	X
7.1" Max Sample Height	X	X	X			
9.8" Max Sample Height				HR-530	X	X
15.5" Max Sample Height				HR-530L		
6.5" Max Depth	X	X	X			
5.9" Max Depth						
8.6" Max Depth				X	X	X
CNC						X
Motorized X Stage (Optional)					X	X
Motorized Y Stage						X
Software Control and Analysis						X
ASTM Compliant HR Series Rockwell & Rockwell Superficial Packages - All 10% Off	810-192-31A	810-193-21A	810-194-31A	810-233-33A (HR530) or 810-333-33A (HR530L)	810-512-23A (HR610A) or 810-522-23A (HR620A)	810-527-21A
List	\$10,900.00	\$12,400.00	\$12,500.00	\$16,600.00 / \$20,000.00	\$28,100.00 / \$30,400.00	\$48,800.00
Promo	\$9,810.00	\$11,160.00	\$11,250.00	\$14,940.00 / \$18,000.00	\$25,290.00 / \$27,360.00	\$43,920.00

## Scalable Interfacing Options



HR-320MS, HR-430MR, HR-430MS Interface



HR-530, HR-530L, HR-610A & HR-620A Touchscreen Controller



HR-620B PC Interface, Utilizing AVPAK Software



## Heavy Load Hardness Testers - HV Series

### Highly Versatile 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 makes 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.

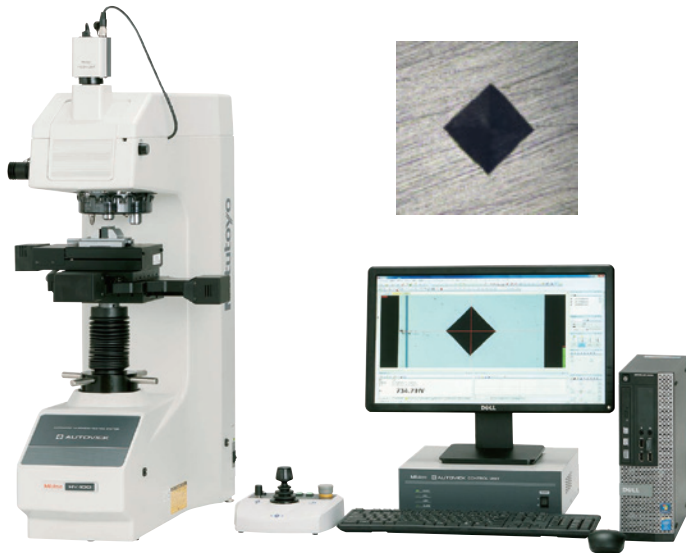
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OFF**



Model	Test Force									Order No.	Body	List	Promo
HV-110	V.S*	HV1	HV2	HV3	HV4	HV5	HV10	HV20	HV50	810-440-13	A TYPE	\$25,700.00	\$19,275.00
	N	9.807	19.61	29.52	49.03	98.07	196.10	294.2	490.3				
	kgf	1	2	3	5	10	20	30	50				
HV-120	V.S*	HV 0.3	HV 0.5	HV1	HV2.5	HV5	HV10	HV20	HV30	810-445-13	A TYPE	\$25,700.00	\$19,275.00
	N	2.942	4.903	9.807	24.51	49.03	98.07	196.1	294.2				
	kgf	0.3	0.5	1	2.5	5	10	20	30				

\*V.S - Vickers Scale

\*Additional Components Required for a Complete System



### Advanced models promise additional productivity improvements

**25%  
OFF**

#### HV-110/120 System B,D

- > B, 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.
- > D series testers add powered X-Y stages which enable automatic continuous testing. This allows extended multi-point testing, complex pattern creation and multiple workpiece 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!

Model	Test Force									Order No.	Body	List	Promo
HV-110	V.S*	HV1	HV2	HV3	HV4	HV5	HV10	HV20	HV50	810-443A	B / D TYPE	\$34,000.00	\$25,500.00
	N	9.807	19.61	29.52	49.03	98.07	196.10	294.2	490.3				
	kgf	1	2	3	5	10	20	30	50				
HV-120	V.S*	HV 0.3	HV 0.5	HV1	HV2.5	HV5	HV10	HV20	HV30	810-448A	B / D TYPE	\$34,000.00	\$25,500.00
	N	2.942	4.903	9.807	24.51	49.03	98.07	196.1	294.2				
	kgf	0.3	0.5	1	2.5	5	10	20	30				

\*V.S - Vickers Scale

\*Additional Components Required for a Complete System



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## Micro Vickers Hardness Testers - HM Series

- > HM Type A systems include a built-in measuring eyepiece for indentation analysis and accurate workpiece positioning
- > Automatic Turret (Touch-screen controlled in Type A systems and software controlled via AVPAK in Type B and D systems)
- > Test force range 10g-1000g (HM-210) and .05-2000g (HM-220)
- > LED illumination
- > Type B and D systems include a camera for software analysis (Type A systems can use optional camera for digital imagery)
- > Type A and B systems use micrometer-controlled adjustable stages and Type D systems utilize a motorized XY Stage

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## 20% OFF MICRO VICKERS TESTERS!

Functions	System A	System B	System D
Focusing	Manual	Manual	Automatic
Testing Action	Single Point	Single Point	Pattern Specific
Test-point Positioning	Manual X-Y Stage	Manual X-Y Stage	Automatic X-Y Stage
Measuring Indentations	Manual Monoscope	Automatic by AVPAK	Automatic by AVPAK
Camera (for observing and measuring indentations)	600,000 Pixels B&W*	Color, 3 Million Pixels	Color, 3 Million Pixels
Operating the Main Unit	Touchel Panel	PC**	PC**
Order No	64AAB305PA	64AAB323PA	64AAB380PA
Main Unit	HM-210A	HM-210B	HM210D
List	\$25,000.00	\$41,200.00	\$71,100.00
Promo	\$20,000.00	\$32,960.00	\$56,880.00

\*\* PC sold separately

\*Additional packages available. Please contact your local Mitutoyo distributor or Mitutoyo sales representative.

## Portable Hardness Testers

### Durometers (Digital and Analog)

For Rubber and Plastic Hardness Testing

**10% OFF**

Compact Dial  
811-335-10



Compact Digital  
811-336-10



Order No	Model	Scale	Display	Graduation	Range	Indenter	List	Promo
811-335-10	HH-335	Shore A	Analog	1.0	10~90	Blunt Taper	\$686.00	\$617.40
811-336-10	HH-336	Shore A	Digital	0.5	10~90	Blunt Taper	\$1,470.00	\$1,323.00
811-337-10	HH-337	Shore D	Analog	1.0	20~90	Sharp Point	\$686.00	\$617.40
811-338-10	HH-338	Shore D	Digital	0.5	20~90	Sharp Point	\$1,470.00	\$1,323.00

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### 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.	Type	List	Promo
810-298-10	HH-411 Hardmatic	\$4,580.00	\$4,122.00

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## MF 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

**20%  
OFF**



172-864-10 - MF-A3017, LED, BINOCULAR TUBE, 64PKA234A - M2 SYSTEM

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your product inquiry today!*



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### Sample Packages

Order No	Description	List	Promo
176-861-10M2PK1	MF-A1010, LED, Monocular Tube with M2 System	\$22,400.00	\$17,920.00
176-861-10M2PK2	MF-A1010, LED, Binocular Tube with M2 System	\$23,500.00	\$18,800.00
64PKA234A	M2 Retrofit Kit for MF/MF-U Microscopes	\$4,470.00	\$3,576.00

\*Additional stage configurations and sizes available

## MF-U Measuring Microscopes

- > Measuring accuracy that is highest in its class (and conforms to JIS B 7153)
- > Compatible with both brightfield and darkfield objective lenses
- > Manual or motorized turrets available dependent on model
- > Compatible with M2 retrofit Kit

**20%  
OFF**



176-872-10 MF-UA2010 - with 64PKA234A M2 Software/Hardware

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Data Management Software by Mitutoyo

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



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Model No. (XY stage size)	MF-UA2010D
XY stage travel range	8 x 4" / 200 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)
Resolution (switchable)	.0001" / .00005" / .00001" (0.001mm / 0.0005mm / 0.0001mm)
Measuring accuracy (at 20°C)	XY-axis: (2.2+0.02L) $\mu$ m, L = Measuring length (mm) when not loaded, JIS B 7153
Floating function	X and Y axes with Quick-release mechanism
XY stage top size	13.78 x 11.02" / 350 x 280 mm
Effective glass size	9.84 x 5.09" / 250 x 150 mm
Max. stage loading	22lbs / 10kg
Max. workpiece height	6" / 150mm
Order No.	176-872-10
List	\$28,100.00
Promo	\$22,480.00

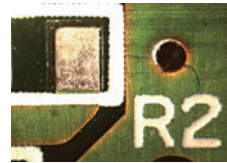
\*Additional components required for a complete system



## TM Toolmakers' Microscopes

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Newly designed LED illumination



TM-A505B  
176-820A

- > 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 which create an overall magnification of 30X. Magnifications can be changed from 20X - 200X by using optional objectives and/or eyepieces.
- > .000050" Resolution Digimatic micrometer heads included.

Model No.	TM-A505B		TM-A1005B
Order No.	176-820A		176-821A
Eyepiece	Standard accessory: 15X (field number: 13), Options: 10X, 20X		
Objective lens	Standard accessory: 2X, Options: 5X, 10X		
Microscope head	Maximum height of workpiece	4.53" / 115mm	4.21" / 107mm
Illumination unit	Transmitted illumination	Stepless brightness adjustment, White LED light source, with green filter	
	Surface illumination	Oblique single-source type, Stepless brightness adjustment, White LED light source	
Cross-travel stage	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" / 96x96mm	6" x 3.8" / 154x96mm
	Maximum stage glass loading	11 lbs. / 5kg	
Linear measurement method	Micrometer heads included		
List	\$6,410.00		\$8,350.00
Promo	\$5,769.00		\$7,515.00

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	MOTI-CAM 4000, 8 MEGAPIXEL, 1/1.8" CMOS, USB/HDMI
63AAA060	.37x C-Mount Eyetube Adapter

## 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	SMZ-143-N2LED
Order No.	377-993A
Optical tube	Trinocular head
Total magnification	10X - 40X
Eyepiece	Widefield WF10X/20mm
Objective	1X - 4X
Working distance	80mm
Field of view	20mm - 5mm
Dimensions	237x170x335mm
Mass	6.2kg

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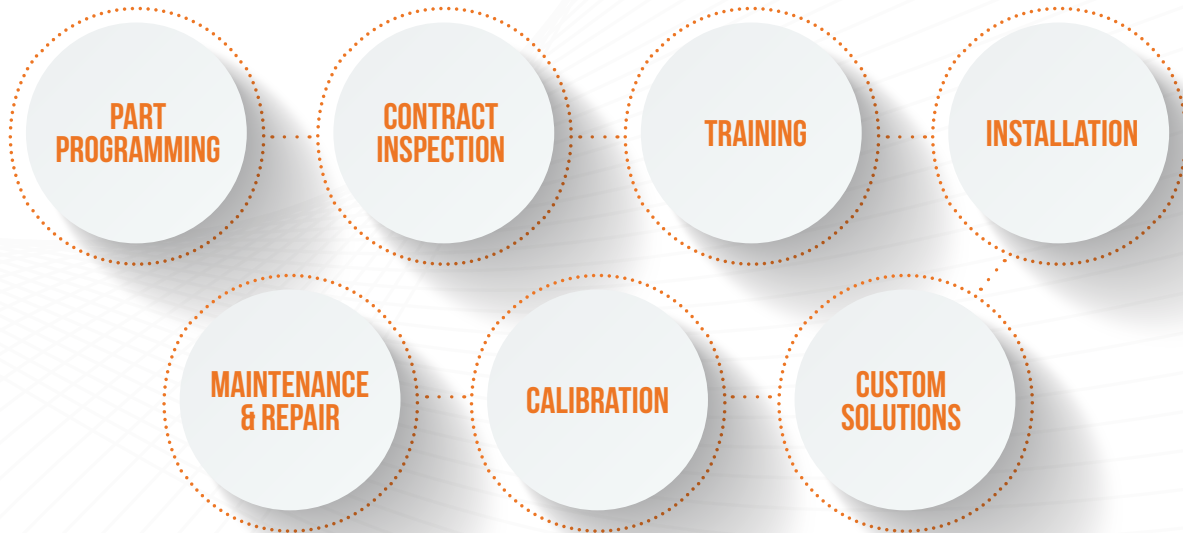
Camera with software for digital viewing

Order No.	Description	List	Promo
<b>Stereo Microscope Unit</b>			
377-993A	SMZ143-N2LED Stereo Microscope	\$1,580.00	\$1,422.00
<b>Observational Camera Accessories</b>			
377-481	C-mount Video Adapter for SMZ143-N2LED	\$59.35	-
64PMI252	MOTI-CAM 4000, 8 MEGAPIXEL, 1/1.8" CMOS, USB/HDMI	\$1,650.00	-

\*377-481 and 64PMI252 purchased separately

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EDU-K210: Calibration of Calipers, &  
EDU-K220: Calibration of Outside Micrometers

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City of Industry: Calibration, Repair

West Chester, Ohio: Calibration, Contract Inspection, Contract Part

Programming

#### M<sup>3</sup> Solution Centers (Showrooms): Locations (8 in total):

Illinois, Washington, Texas, Ohio, Michigan, California, North Carolina, Massachusetts.

Note: At the M<sup>3</sup> Solution Center, customers can not only view our products but also utilize the space to address their measurement challenges through demonstrations of our latest measuring instruments and technologies.

Total Number of Employees: Approximately 400

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