





# LIMITED TIME OFFER **BOOMBASTIC SHOW PRECISION TOOLS & INSTRUMENTS PROMO**

Effective September 14 - 30, 2020





#### **Dear Valued Customers,**

Mitutoyo is proud to partner with Titans of CNC on an upcoming event that runs 9/14 - 9/18 at their facility in Rocklin, CA. To celebrate this partnership, Mitutoyo is running a 'Boombastic Show' promotion.

This Limited Time Offer Boombastic Show promotion has lots of great deals on a variety of Mitutoyo tools and instruments including data management solutions, calipers, micrometers, linear encoders, indicators, height gages, microscopes, hardness testers and profile projectors.

Prices are Effective September 14 through September 30, 2020.

Thank you for trusting us with you metrology needs.

Sincerely,

Matthew B. Syc

Matt Dye President, Mitutoyo America Corporatior



Buy in Bulk and save by purchasing in factory package quantities. Purchasing the factory package quantity\* reduces our labor and shipping costs, and we pass that savings directly to you. Purchase the factory package and Save up to 15%.

\*Qualifying quantities must be in increments of the Bulk Quantity. Mitutoyo

# Buy in Bulk and SAVE on the world's most popular precision measuring tools!



513-402-10E

	Dial Test Indi	cators			15% OFF
	PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULK QTY
1 mar 1	B513-402-10E	DIAL TEST INDICATOR, BASIC SET, STANDARD, .03 IN, .0005 IN GRAD	\$134.00	\$113.90	50*
North State	B513-403-10E	DIAL TEST INDICATOR, BASIC SET, STANDARD, .008 IN, .0001 IN GRAD	\$174.00	\$147.90	50*
	Dial Indicator				15% OFF
IT CHINARDONE	PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULK QTY
States of the	B2416S	DIAL INDICATOR, 1" RANGE, .001" GRADUATIONS	\$123.00	\$104.55	40*
					1111111111

513-403-10E

2416S

# **BULK BUY**

505-742-56

Dial Calipers				15% OF
PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULK QTY
B505-742	CALIPER, DIAL, .1"/REV, 0-6", .001"	\$1 <mark>25.00</mark>	\$106.25	25*
B505-742-56	CALIPER, DIAL, BLACK DIAL, .1"/REV, 0-6", .001"	\$ <mark>125.00</mark>	\$106.25	25*
Digimatic Inc	licators	Mille		15° OF
PART NO.			DITLY DITY	_
PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULI QTY
B543-783	DESCRIPTION DIGIMATIC INDICATOR, ID-S1012EX, .5" RANGE, .0005 RESOLUTION	LIST \$182.00		
	DIGIMATIC INDICATOR, ID-S1012EX, .5" RANGE, .0005		EACH	QTY

Militanyo

Mitutoyo

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103-135

DESCRIPTION

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SJ-210 IN 4MN (STANDARD DRIVE UNIT)

Mihitoyo

**Mechanical Micrometers** 

505-742

1	03	2	6	Λ	
	03	-2	U	U	

LIST

\$123.00

\$122.00

LIST

\$2,430.00

\$2,740.00

BULK BUY EACH

\$104.55

\$103.70

BULK BUY EACH

\$2,187.00

\$2,466.00



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543-783B

178-561-02A

Mitutoyo

Mitutoyo

1 Marto/2

SJ-210 IN 4MN (R-DRIVE UNIT). RETRACTABLE DRIVE UNIT

Mitutoyo

www.mitutoyo.com

15% OFF

BULK QTY

60\*

60\*

10%

OFF

BULK QTY

5\*

5\*

# U-Wave Wireless Data Transmitters



## **U-WAV***E* **fit**

#### **MeasurLink**<sup>®</sup>ENABLED

Data Management Software by Mitut

Mitutoyo's new 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.





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

#### U-WAVE-T (Transmitter)

Order No.	Model	Measuring Instrument*	Remarks	List	Promo	
264-620	U-WAVE-TC	4", 6", 8", 12" IP67 caliper/standard caliper	IP67/LED	\$190.00	\$171.00	
264-621	U-WAVE-TC	4", 6", 8", 12" IP67 caliper/standard caliper	Buzzer/LED	\$190.00	\$171.00	
264-622	U-WAVE-TM	COOLANT-PROOF (IP65) micrometer	IP67/LED	\$190.00	\$171.00	
264-623	U-WAVE-TM	COOLANT-PROOF (IP65) micrometer	Buzzer/LED	\$190.00	\$171.00	
02AZF310	Connection unit	IP67 caliper/COOLANT-PROOF (IP65) micrometer	Waterproof	\$70.00	\$63.00	
02AZF300	Connection unit	Standard caliper	Standard	\$70.00	\$63.00	

\* Please contact Mitutoyo or distributor for further details

#### U-WAVE-R (Receiver)

Order No.	Remarks	Software	Number of U-WAVE-R units that can be connected to PC	Number of U-WAVE-T units that can be connected	List	Promo
02AZD810D	U-WAVE-R + software	U-WAVE PAK	Up to 15	Up to 100	\$499.00	\$449.10



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

### **MeasurLink**<sup>®</sup>ENABLED

Data Management Software by Mituto

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

- >2.4 GHz ZigBee wireless with a 60ft range.
- > HID compatible (Keyboard Entry) and Serial (VCP).

**Standard U-Wave Wireless System** 

- > Supports Mitutoyo Digimatic or Digimatic 2 Type A, B, C, D, E, F, G.
- > Includes U-WAVEPAK Setup Software.

Prices effective September 14 - 30, 2020





02AZD730G



02AZD810D

Order No.	Decription	List	Promo
02AZD730G	U-WAVE-T/IP67 TYPE	\$220.00	\$198.00
02AZD880G	U-WAVE-T/BUZZER TYPE	\$220.00	\$198.00
02AZD810D	U-WAVE-R	\$499.00	\$449.10
02AZD790A	U-WAVE CONNECTING CABLE A	\$110.00	\$99.00
02AZD790B	U-WAVE CONNECTING CABLE B	\$110.00	\$99.00
02AZD790C	U-WAVE CONNECTING CABLE C	\$110.00	\$99.00
02AZD790D	U-WAVE CONNECTING CABLE D	\$110.00	\$99.00
02AZD790E	U-WAVE CONNECTING CABLE E	\$110.00	\$99.00
02AZD790F	U-WAVE CONNECTING CABLE F	\$110.00	\$99.00
02AZD790G	U-WAVE CONNECTING CABLE G	\$110.00	\$99.00

# Data Logger / Micrometers

## Mitutoyo

# Data Collection – Store. Send. Print.

### **DP-1VA LOGGER**

The DP-1VA collects data from a Digimatic gage which can be stored, exported to software or printed.

### Data Logger:

- Data can be stored internally, printed and/or sent to a PC as it is measured or after all data has been collected.
- Up to 1,000 measurements can be stored.

#### Timer:

- Data collection can be triggered by a timer function.
- The DP-1VA can collect data unattended to measure changes over time. **Tolerance and SPC:**
- Tolerances can be set in the unit, and statistics can be calculated and printed directly from the DP-1VA.
- No additional software is required.

MeasurLink<sup>®</sup> ENABLED

#### Features:

• d2 compatible

- A gage with SPC output is connected to the DP-1VA with an SPC cable.
- The data for each part measured is printed, saved or sent directly to a PC through a USB cable.
- This data can be triggered by the button on the gage, cable or the DP-1VA. An optional footswitch can also be used.

Order No.	Model	List	Promo
264-505A	DP-1VA	\$514.00	\$488.30







USB connection allows collected data to be easily transferred from the DP-1VA to the PC. The output is HID or VCP so data can be sent directly to Excel® or data collection software such as IT-Pak or MeasurLink®.



Digimatic 2 function allows the high resolution of the gage to be output in its entirety in metric or inch.



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

# Purchase the world's first 5µinch /0.1µm resolution micrometer and receive a USB input tool and cable **(\$280 value)**

Using precision digital measuring tools together with a USB input tool improves both measurement results and data reliability. The latest version of Digimatic output, d2, allows output to a resolution of 1 millionths of an inch. 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<sup>®</sup>, MeasurLink<sup>®</sup> or other SPC programs.

### To receive this special offer, use promo code: **PROMO026**.

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

Part #	Description	List Price
PROMO026	Package: MDH Mic, SPC Cable, USB Input Tool	\$1,680.00
293-130-10	MDH Micrometer with high accuracy, high resolution output	\$1,680.00
05CZA662	SPC CONNECTING CABLE (1M)	\$83.80
264-016-10	USB INPUT TOOL	\$197.00



# **Micrometers**

293-677-20

**MeasurLink**<sup>®</sup> ENABLED

293-676-20

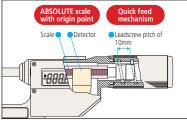
SPC

### 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





## **ABSOLUTE**<sup>TM</sup>

The ABS (ABSOLUTE) linear scale eliminates the need for origin point setting at every power-on and achieves high reliability while being free from overspeed error.

fit

fit

fit

fit



Minimum-value hold function ensures measurement value is retained

Øta 1.2.2" mil

Function lock

Order No.	Range	Resolution	Accuracy	Fl		
293-676-20	0 - 1.2"	.00005"/0.001mm	±0.0001"	0.0		
293-677-20	1 - 2.2″	.00005"/0.001mm	±0.0001"	0.0		

NEII



### COOLANT PROOF TP65

у	Flatness	Parallelism	List	Promo
"	0.000012"	0.00008″	\$611.00	\$580.45
"	0.000012"	0.00008"	\$667.00	\$633.65

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

### **Caliper and QuantuMike Tool Kit**

Tool Kit includes: QuantuMike 293-185-30 Digimatic Caliper 500-196-30 Mahogany Case 64PPP932



\$378.90 Promo \$421.00 List Price Order No. 64PKA152

### **QuantuMike Micrometer 4X Faster Spindle Travel**

- > Faster measurement with 2mm travel per revolution instead of the standard 0.5mm.
- > A patented ratchet thimble mechanism helps ensure repeatability.
- > Function-lock system prevents inadvertent setting changes.
- Long battery life 2.4 years under normal operation.
- > Certificate of inspection provided.

Order No.	Range	Resolution	List	Promo
293-180-30*	0-1″/0 - 25.4mm	.00005″/0.001mm	\$270.00	\$256.50
293-185-30	0-1"/0 - 25.4mm	.00005"/0.001mm	\$233.00	\$221.35
293-181-30*	1-2"/25.4 - 50.8mm	.00005"/0.001mm	\$309.00	\$293.55
293-186-30	1-2"/25.4 - 50.8mm	.00005"/0.001mm	\$266.00	\$252.70
293-182-30*	2-3"/50.8 - 76.2mm	.00005"/0.001mm	\$369.00	\$350.55
293-187-30	2-3"/50.8 - 76.2mm	.00005"/0.001mm	\$319.00	\$303.05
293-183-30*	3-4"/76.2 - 101.6mm	.00005"/0.001mm	\$397.00	\$377.15
293-188-30	3-4"/76.2 - 101.6mm	.00005"/0.001mm	\$383.00	\$363.85
*with SPC Output				



-	Questatilite		
	03 1465	293-18	80-30
Get musettee 3-11-2000 Diffutoyo	2000	(P65	SPC

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

OOLANT **PROOF**™

COMPATIBLE WITH **J-WAV***E* **fit** 



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

### **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.





## COOLANT PROOF



	Order No.	Range	Resolution	Remarks	List	Promo
fit	293-330-30*	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Stop	\$247.00	\$234.65
	293-340-30	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Stop	\$193.00	\$183.35
	293-344-30	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Thimble	\$193.00	\$183.35
	293-349-30	0-1"/0-25.4mm	.0001"/0.001mm	Ratchet Thimble, tenths reading	\$193.00	\$183.35
fit	293-331-30*	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Stop w/Standard	\$291.00	\$276.45
	293-341-30	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Stop w/Standard	\$250.00	\$237.50
	293-345-30	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Thimble w/Standard	\$250.00	\$237.50
fit	293-334-30*	0-1"/0-25.4mm	.00005"/ 0.001mm	Ratchet Thimble	\$265.00	\$251.75
fit	293-335-30*	0-1"/0-25.4mm	.00005"/0.001mm	Friction Thimble	\$247.00	\$234.65
	*with SPC Output	ut 🔐 U-V	Vave Fit compatible	SPC cable with data switch –	1m: 05CZA662	2m: 05CZA663

SDr:



### **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	\$155.00	\$147.25
293-832-30	0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	Friction Thimble	\$165.00	\$156.75



### **Spline Micrometer**

- > The anvil and spindle have a small diameter for measuring splined shafts, slots and keyways. **MeasurLink**<sup>®</sup> ENABLED
- >With SPC output
- > Resolution: .00005 "/0.001mm
- >Large sizes available





Data Management Software by Mitute

65

	Order No.	Range	Accuracy	Contacts	List	Promo	
fit	331-351-30	0 - 1"/0 - 25.4mm	±.0001"	Ø.118"	\$484.00	\$459.80	
fit	331-361-30	0 - 1 /0 - 25.411111	±.0001"	Ø.079"	\$484.00	\$459.80	
	(fit U-Wave Fit compatible		SPC cable with data switch – 1m: 05CZA662 2m: 05CZA663				

### **Spherical Face Micrometer**

- > Designed to measure the wall thickness of various tubing.
- >Resolution: .00005" / 0.001mm
- >With SPC output.
- >Includes a standard bar except for 0 -1" model
- > Large sizes available

395-371-30



**MeasurLink**<sup>®</sup>ENABLED Data Management Sof

	Order No.	Range	Accuracy	Min ID	List	Promo
fit	<b>395-371-30</b> <sup>S-S</sup>	0 - 1 "/ 0 - 25.4mm	±.0001"	D: .59"	\$422.00	\$400.90
fit	<b>395-372-30</b> <sup>S-S</sup>	1" - 2"/ 25.4- 50.8mm	±.0001"	D: .59"	\$448.00	\$425.60
fit	395-351-30 <sup>S-F</sup>	0 - 1 "/0 - 25.4mm	±.0001"	D: .59"	\$409.00	\$388.55
fit	395-352-30 <sup>S-F</sup>	1" - 2"/25.4- 50.8mm	±.0001"	D: .59"	\$438.00	\$416.10
	S-F: Spherical anvil	and flat spindle	SPC cable with	data switch –	1m: 05CZA662	2 m: 05CZA663

S-S: Spherical anvil and spherical spindle

(fit U-Wave Fit compatible



## Micrometers / Bore Gages

### **Point Micrometer**

- > Pointed spindle and anvil for measuring the web thickness of drills, small grooves, keyways and other hard-to-reach dimensions.
- The measuring points have approximately 0.3mm / .012" radius.
- >Includes a standard bar except for 0 -1"model
- > Resolution: .00005"/0.001mm (digital models)
- >With SPC output.
- >With carbide tips.

SPC **(IP)**65

MeasurLink<sup>®</sup>ENABLED

Data Management Soft



fit U-Wave Fit compatible

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

### **Outside Micrometer** with Interchangeable Anvils

- > Large-range micrometers have an oversize frame and multiple anvils to allow a single micrometer to be used over a 6" range. This reduces tool cost for infrequently measured ranges.
- > Wide measuring range with interchangeable anvils.
- > Supplied with zero-setting standards bar for each range.



Order No.	Range	Resolution	List	Promo
340-351-30	0-6" / 0-152.4mm	.00005" / 0.001mm	\$754.00	\$716.30
340-352-30	6-12" / 152.4 - 304.8mm	.0001" / 0.001mm	\$927.00	\$880.65
<b>340-720</b> *	12-18" / 304.8 - 457.2mm	.0001" / 0.001mm	\$1,160.00	\$1,102.00
340-721*	18-24" / 457.2 - 609.6mm	.0001" / 0.001mm	\$1,320.00	\$1,254.00
340-722*	24-30" / 609.6 - 762.0mm	.0001" / 0.001mm	\$1,460.00	\$1,387.00
340-723*	30-36" / 762.0 - 914.4mm	.0001" / 0.001mm	\$1,550.00	\$1,472.50
		686 II 11 II		

SPC cable with data switch - 1m: 05CZA662 2m: 05CZA663 \* 1m: 959149 2m: 959150

### Tube Micrometer

> Used to measure the wall thickness on tubing, pipe and other hard-to-reach places. Spherical or cylindrical anvils are available. Type B > IP65 water/dust protection >With SPC output. **MeasurLink**<sup>®</sup>ENABLED Data Management Software by Mitutovo Type C Type D ы SDC **í**P 65 395-363-30 Anvil Type C Digital Order No. Resolution Accuracy Type Range Promo fit 395-362-30 \$451.00 \$428.45 R 0 - 1 " / .00005" / fit 395-363-30 ±.00015" \$465.00 \$441.75 C 0 - 25.4mm 0.001mm fif 395-364-30 D \$465.00 \$441.75 fif U-Wave Fit compatible SPC cable with data switch - 1m: 05CZA662 2m: 05CZA663

### **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.





Order No.	Range	Anvils	Spacers	List	Promo
511-751	.7 - 1.4″	9	2	\$423.00	\$380.70
511-752	1.4 -2.5"	6	4	\$413.00	\$371.70
511-753	2.0 - 6.0"	11 (2" sub anvil)	4	\$451.00	\$405.90
511-754	4.0 - 6.5"	13	4	\$596.00	\$536.40
511-755	6.5 - 10″	6	7	\$672.00	\$604.80
511-756	10 -16″	5 (3 " sub anvil)	7	\$799.00	\$719.10

Prices effective September 14 - 30, 2020

# Calipers / Caliper Checker

## Mitutoyo

## **Coolant-Proof Calipers**

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

Order No.

> Certificate of inspection provided.



	Non-Output Style			
	500-752-20	0-6"/0-150mm	\$215.00	\$204.25
	500-753-20	0-8"/0-200mm	\$288.00	\$273.60
	500-754-20*	0-12"/0-300mm	\$499.00	\$474.05
	SPC Output Style			
fit	500-762-20	0-6"/0-150mm	\$255.00	\$242.25
fit	500-763-20	0-8"/0-200mm	\$321.00	\$304.95
fit	500-764-20*	0-12"/0-300mm	\$553.00	\$525.35
	* ±.0015" accuracy	fit U-Wave Fit compatible	PC cable – 1m: <b>05CZ/</b>	624 2m: 05CZA625

Range



### COOLANT **PROOF**™ (₽)67

COOLANTPROOF 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**

			P66 S		
Order No.	Range	Accuracy	Resolution	List	Promo
552-312-10	0(.5")-18"	+/002"	.0005″/0.01mm	\$975.00	\$926.25
552-313-10	0(.5")-24"	+/002"	.0005″/0.01mm	\$1,090.00	\$1,035.50
552-314-10	0(1")-40"	+/002"	.0005″/0.01mm	\$1,950.00	\$1,852.50
552-315-10	0(1")-60"	+/004"	.0005″/0.01mm	\$2,330.00	\$2,213.50
552-316-10	0(1")-80"	+/005"	.0005″/0.01mm	\$3,650.00	\$3,467.50





515-565	0 - 12″	1", 2", 4", 6", 8", 10", 12" Inside measurement: 1", 2", 4", 6", 8", 10", 12"	\$4,520.00	\$2,999.00
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- > Lightweight Digimatic Calipers that employ CFRP (Carbon Fiber Reinforced Plastics) in the beam and jaws.
- > Highly durable and easy to handle.
- > Direct readout of ID measurements from the LCD. (Offset value can be set easily by pressing the Offset key.)
- > Preset function for setting a desired starting point.
- > With SPC data output.
- Special models available with ceramic jaws which are suitable for measuring abrasive and magnetic products.
- > Can be used in workshop conditions exposed to coolant, water, dust or oil.
- > Incorporates ABSOLUTE measurement system.
- > Automatic power-on/off.

#### **CERA Caliper Checker**

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

#### CERA (Zirconia Ceramic) Gage Blocks\*

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

# Calipers

### **Digimatic Calipers**

**MeasurLink**<sup>®</sup> ENABLED

- > AOS Electromagnetic inductive sensor improves Data Management Software by Mitute environmental resistance against dirt, water and oil.
- > A battery life of approximately 3.5 years has been achieved under normal use through the adoption of Mitutoyo's ABSOLUTE scale.
- > The slider configuration features an ergonomic, thumb-friendly shape.
- > Step-measurement capable.
- > The data output function allows integration into Statistical Process Control and measurement systems.

CDA

- > Display character height: 9mm
- >AOS applies to 4", 6" and 8" models
- > Resolution: .0005"/0.01mm

www.mitutoyo.com/aoscd

DIGIMATIC

COMPATIBLE WITH



ABSOLUTE

		× •		AOS: Adva	nced Onsite Sensor	
	Order No.	Range	Remarks	List	Promo	
	No SPC Outpu	ut Style				
	500-195-30	0-4"/0-100mm	.075" round depth bar	\$148.00	\$140.60	
	500-196-30	0-6"/0-150mm		\$161.00	\$152.95	
	500-197-30	0-8"/0-200mm		\$231.00	\$219.45	
	500-193-30	0-12"/0-300mm		\$464.00	\$440.80	
	With SPC Out	put Style				
fit	500-170-30	0-4"/0-100mm	.075" round depth bar	\$177.00	\$168.15	
fit	500-171-30	0-6"/0-150mm		\$188.00	\$178.60	
fit	500-172-30	0-8"/0-200mm		\$248.00	\$235.60	
fit	500-173-30	0-12"/0-300mm		\$541.00	\$513.95	
	500-505-10	0-18"/0-450mm	without thumb roller	\$844.00	\$801.80	
	500-506-10	0-24"/0-600mm	without thumb roller	\$927.00	\$880.65	
	500-507-10	0-40"/0-1000mm	without thumb roller	\$1,790.00	\$1,700.50	
	fit U-Wave Fit comp	oatible	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
505-742	0 -6" .100"/rev		\$125.00	\$118.75
505-738	0 -6" .100"/rev	carbide-tipped jaws	\$213.00	\$202.35
505-740	0 -6" .200"/rev		\$114.00	\$108.30
505-743	0 -8" .100"/rev		\$182.00	\$172.90
505-746	0 -12" .100/rev		\$289.00	\$274.55
505-749	0 -12" .200/rev		\$269.00	\$255.55
505-742-56	0 -6" .100"/rev	black dial face	\$125.00	\$118.75
Prices effective	September 14 - 30, 2020			

**Offset Caliper** 

>	facilitate me (Hard-to-rea		oped section ch as A, B, A A A A A A A A A A A A A A A A A A A	ons.	PC"	
	Order No.	Range	Accuracy	Resolution	List	Promo
fit	573-701-20	0 - 6" / 0 - 150mm	±.001"	.0005" / 0.01mm	\$478.00	\$454.10
fit	573-702-20	0 - 8" / 0 - 200mm	±.001"	.0005" / 0.01mm	\$548.00	\$520.60
fit	573-704	0 - 12" / 0 - 300mm	±.0015"	.0005" / 0.01mm	\$735.00	\$698.25
	fit U-Wave Fit co	mpatible	SPC cable	e with data switch – 1m	n: 05CZA624	2m: 05CZA625
	Point Ca	aliper jaws fit into very	small groc	IVAS		
	and tracks,	making many pre asurements easier	eviously dit	fficult		



### **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
 \$845.00
 \$802.75

10

# Calipers

## Mitutoyo

### **Digimatic Caliper with Nib-Style Jaws**

- > The rounded faces of the jaws are ideal for accurate ID (inside diameter) measurement.
- >With SPC output.

Order No.

11174



Accuracy Resolution

(IP)67 SPC

List

550-311-20

### grooves or recessed areas. > With SPC data output.

100



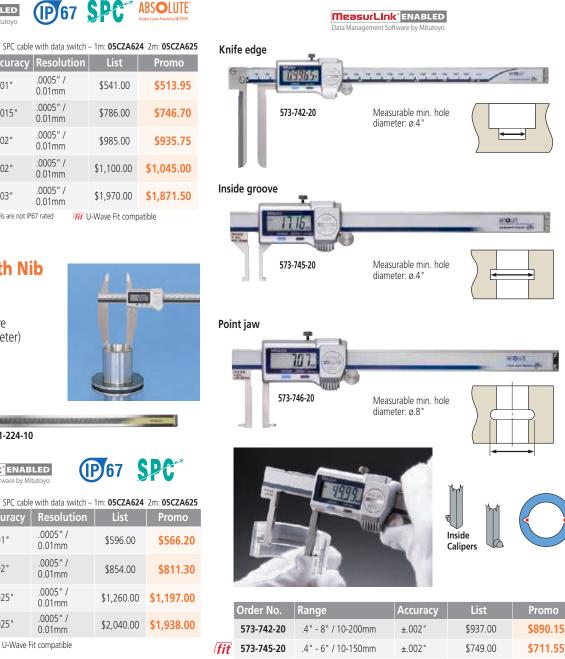
> Special ID jaw calipers are designed for

difficult-to-measure areas, such as ID

Knife-Edge/Inside Groove/Point Jaw

**Inside Calipers** 





#### 0 (.4") - 8" / .0005" / ±.001" 550-311-20 \$541.00 fit 0 (10) - 200mm 0.01mm .0005" / 0 (.4") - 12" / ±.0015" 550-341-10 \$786.00 fit 0 (10) - 300mm 0.01mm 0 (.5") - 18" / .0005" / 550-223-10\*\* ±.002" \$985.00 0 (20) - 450mm 0.01mm 0 (.5") - 24" / .0005" / 550-225-10\*\* ±.002" \$1,100.00 0 (20) - 600mm 0.01mm 0 (1") - 40" / 0005"/ 550-227-10\*\* ±.003" \$1,970.00 0 (20) - 1000mm 0.01mm \*( ): Minimum dimension in ID measurement \*\*Models are not IP67 rated fit U-Wave Fit compatible

**MeasurLink**<sup>®</sup> ENABLED

Data Management Software by Mitutoyo

Range\*

### **Digimatic Caliper with Nib** and Standard Jaws

- > The rounded faces of the jaws are ideal for accurate ID (inside diameter) measurement.
- >With SPC output.



	Order No.	Range*	Accuracy	Resolution	List	Promo
fit	551-311-20	0 (.4") - 8" / 0 (10) - 200mm	±.001"	.0005" / 0.01mm	\$596.00	\$566.20
fit	551-341-10	0 (.4") - 12" / 0 (10) - 300mm	±.002"	.0005" / 0.01mm	\$854.00	\$811.30
	551-224-10**	0 (.5") - 20" / 0 (20) - 500mm	±.0025"	.0005" / 0.01mm	\$1,260.00	\$1,197.00
	551-226-10**	0 (.5") - 30" / 0 (20) - 750mm	±.0025"	.0005" / 0.01mm	\$2,040.00	\$1,938.00
	*( ): Minimum dimension in ID measurement ** Models are not IP67 rated		(fit U-Wave Fit compatible			

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

\$909.00

www.mitutoyo.com

\$863.55



SPC

fit

573-746-20

(fif U-Wave Fit compatible

.8" - 6" / 20-150mm

±.0015"

# **Dial Test Indicators**

### **Dial Test Indicators**



#### NEW .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.

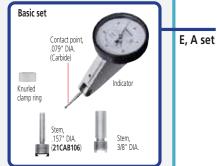


Contact point length is printed on dial face to avoid accuracy issues

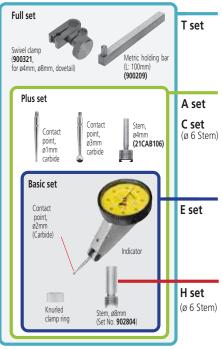
#### **Set Configuration** Inch Full set Stem, .157° DIA. (**21CAB106**) Contact Contact point, .118" DIA. point, .039" DIA. carbide carbide 嗣

T set





#### Metric



Standard		esilient crystal with				and impact.	
Part #	Range	Graduations	Set Type	Face Color	List	Promo	Remarks
Stand	ard						
513-407-10E	.008″	.00005″	Basic	White	\$192.00	<b>\$172.80</b>	NEW
513-407-10T	.008″	.00005″	Full	White	\$225.00	\$202.50	NEW
513-401-10E	.14″	0.001mm	Basic	Yellow	\$228.00	\$205.20	
513-402-10E	.03 "	.0005 "	Basic	White	\$134.00	\$120.60	
513-402-10T	.03 "	.0005"	Full	White	\$159.00	\$143.10	
513-403-10E	.008"	.0001 "	Basic	White	\$174.00	\$156.60	
513-403-10T	.008 "	.0001 "	Full	White	\$204.00	\$183.60	
513-404-10E	0.8mm	0.01mm	Basic	Yellow	\$136.00	\$122.40	
513-404-10A	0.8mm	0.01mm	Plus	Yellow	\$149.00	\$134.10	
513-404-10T	0.8mm	0.01mm	Full	Yellow	\$160.00	\$144.00	
513-405-10E	0.2mm	0.002mm	Basic	Yellow	\$150.00	\$135.00	
513-405-10T	0.2mm	0.002mm	Full	Yellow	\$197.00	\$177.30	
513-406-10E	.03"/0.7mm	.0005"/0.01mm	Basic	White/Yellow	\$157.00	\$141.30	Dual dial
513-406-10T	.03"/0.7mm	.0005"/0.01mm	Full	White/Yellow	\$174.00	\$156.60	Dual dial
513-409-10E	0.2mm/.0076"	0.002mm/.0001"	Basic	Yellow/White	\$202.00	\$181.80	Dual dial
513-409-10T	0.2mm/.0076"	0.002mm/.0001"	Full	Yellow/White	\$205.00	\$184.50	Dual dial
513-412-10E	.03"	.0005"	Basic	White	\$192.00	\$172.80	
513-412-10T	.03"	.0005"	Full	White	\$221.00	\$198.90	
513-415-10E	1.0mm	0.01mm	Basic	Yellow	\$144.00	\$129.60	Long stylus
513-415-10H	1.0mm	0.01mm	Basic	Yellow	\$158.00	\$142.20	Long stylus
🔛 Ruby Tip	1						
513-472-10E	.03"	.0005"	Basic	White	\$149.00	\$134.10	
513-479-10E	.03"	.0005"	Basic	White	\$158.00	\$142.20	Long stylus
Stand	ard (20° tilted f	face)					
513-442-10A	.06"	.0005"	Basic	White	\$181.00	\$162.90	
513-442-10T	.06"	.0005"	Full	White	\$205.00	\$184.50	
513-442-16A	.06″	.0005″	Basic	Black	\$181.00	\$162.90	
513-442-16T	.06″	.0005″	Full	Black	\$205.00	\$184.50	
513-446-16A	.06"	.0005"	Basic	Black	\$242.00	\$217.80	Long stylus
513-446-16T	.06"	.0005"	Full	Black	\$273.00	\$245.70	Long stylus
513-446-10A	.06″	.0005″	Basic	White	\$242.00	\$217.80	Long stylus
513-446-10T	.06″	.0005″	Full	White	\$273.00	\$245.70	Long stylus
513-443-10A	.016″	.0001″	Basic	White	\$228.00	\$205.20	
513-443-10T	.016″	.0001″	Full	White	\$259.00	\$233.10	
Vertical	l: dial is on the	top of the frame	•				
513-452-10E	.03 "	.0005"	Basic	White	\$174.00	\$156.60	
513-452-10T	.03"	.0005"	Full	White	\$192.00	\$172.80	
513-453-10E	.008″	.0001″	Basic	White	\$207.00	\$186.30	
	1	side of the frame			,		
513-485-10E	0.2mm	0.002mm	Basic	Yellow	\$221.00	\$198.90	
-							

Prices effective September 14 - 30, 2020

# Indicators

## Mitutoyo

## Calculation-Type Digimatic Indicator ID-C

- 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.
- > 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



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





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

								w la
Order No.	Resolution	Range	Accuracy	Measuring Force	List	Promo		
543-342B	.00005/.0001/.0005″	.5"/12.7mm	±.00010"/0.003mm	1.5N or less	\$458.00	\$412.20	SPU	
543-592B	(0.001/0.01mm)	1"/25.4mm	±.00010"/0.003mm	1.8N or less	\$614.00	\$552.60		
543-597B	Selectable	2"/50.8mm	±.00025"/0.006mm	2.3N or less	\$770.00	\$693.00		
				SF	PC cable – 1m: <b>90</b>	5338 2m: 905409	100/	m



Installed on optional bore gage probe

(page 8)

### Bore Gage ABSOLUTE Digimatic Indicator ID-C

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

- **MeasurLink**<sup>®</sup> ENABLED Data Management Software by Mitutoyo
- Go/no-go judgment Data Management Software by Mitutoyo
   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



10%

Order No.	Resolution	Range	Accuracy	Measuring Force	List	Promo		,
543-312B	.00005/.0001/.0005" (0.001/0.01mm) Selectable	.5"/12.7mm	±.00010"/0.003mm	1.5N or less	\$458.00	\$412.20	SPC	AB

### 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.

MeasurLink<sup>®</sup> ENABLED

SPC cable - 1m: 905338 2m: 905409

- > 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 determine and upload the proper coefficients for calculation. (optional) 21EZA313

Order No.	Resolution	Range	Accuracy	Remarks	List	Promo		
Stem dia. 3/8", #4-48 UNF Thread								
543-302	.00005/.0001/.0005" 0.001/0.01mm Selectable	.5"/12.7mm	±.00010"/0.003mm	w/lug	\$458.00	\$412.20		
543-302B		.5"/12.7mm	±.00010"/0.003mm	Flat-back	\$458.00	\$412.20		
					CDC 11 4 00	5330 3 005400		





# Indicators

SPC cable - 1m: 905338 2m: 905409

### **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: 543-795B, 543-796B)
- > SPC data output.



Addition         Addition         Addition         Addition         Addition           Addition         3/8", #4-48 UNF Thread         5" / 12.7mm         ±.0001"         1.5N or less         w/ lug back         \$281.00         \$266.95           Addition         5" / 12.7mm         ±.0001"         2.5N or less         w/ lug back         \$281.00         \$294.50           Addition         5" / 12.7mm         ±.0001"         1.5N or less         w/ lug back         \$281.00         \$266.95           Addition         5" / 12.7mm         ±.0001"         1.5N or less         w/ lug back         \$281.00         \$266.95           Addition         5" / 12.7mm         ±.0001"         1.5N or less         w/ lug back         \$182.00         \$172.90           Addition         5" / 12.7mm         ±.0001"         1.5N or less         w/ lug back         \$281.00         \$266.95           Addition         5" / 12.7mm         ±.0001"         1.5N or less         w/ flat-back         \$310.00         \$294.50           Addition         5" / 12.7mm         ±.0001"         1.5N or less         w/ flat-back         \$281.00         \$266.95           Addition         5" / 12.7mm         ±.0001"         1.5N or less         w/ flat-back         \$281.00         \$27						(	y	÷
43-792       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$281.00       \$266.95         43-793       .0001"/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ lug back       \$281.00       \$266.95         443-793       .0001"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$281.00       \$266.95         443-793       .0005"/0.01mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$182.00       \$266.95         443-783       .0005"/0.01mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$182.00       \$272.90         443-793       .0005"/0.01mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$281.00       \$266.95         443-794       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lat-back       \$281.00       \$266.95         443-793       .0001"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lat-back       \$281.00       \$266.95         443-793       .0001"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lat-back       \$182.00       \$172.90         54	Order No.	Resolution	Range	Accuracy	Measuring force	Remarks	List	Promo
43-796.00005 "/0.001mm.5" / 12.7mm±.0001 "2.5N or lessw/ lug back\$310.00\$2294.50443-793.0001 "/0.001mm.5" / 12.7mm±.0001 "1.5N or lessw/ lug back\$281.00\$266.95443-783.0005 "/0.01mm.5" / 12.7mm±.001 "1.5N or lessw/ lug back\$182.00\$172.90443-792B.00005 "/0.001mm.5" / 12.7mm±.0001 "1.5N or lessw/ lug back\$281.00\$266.95443-793B.0005 "/0.001mm.5" / 12.7mm±.0001 "1.5N or lessw/ flat-back\$310.00\$294.50443-793B.0005 "/0.001mm.5" / 12.7mm±.0001 "2.5N or lessw/ flat-back\$310.00\$294.50443-793B.0005 "/0.001mm.5" / 12.7mm±.0001 "1.5N or lessw/ flat-back\$281.00\$266.95443-783B.0005 "/0.001mm.5" / 12.7mm±.0001 "1.5N or lessw/ flat-back\$182.00\$172.90543-783B.0005 "/0.001mm.5" / 12.7mm±.0001 "1.5N or lessw/ flat-back\$182.00\$275.50543-791.00005 "/0.001mm.5" / 12.7mm±.0001 "1.5N or lessw/ lug back\$319.00\$303.05543-795.00005 "/0.001mm.5" / 12.7mm±.0001 "1.5N or lessw/ lug back\$182.00\$172.90543-795.00005 "/0.001mm.5" / 12.7mm±.0001 "1.5N or lessw/ lug back\$319.00\$303.05543-791B.00005 "/0.001mm.5" / 12.7mm±.0001 "1.5N or less <th>Stem dia. 3/8"</th> <th>, #4-48 UNF Thread</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Stem dia. 3/8"	, #4-48 UNF Thread						
i43-793       .0001"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$281.00       \$266.95         i43-783       .0005"/0.01mm       .5" / 12.7mm       ±.0010"       1.5N or less       w/ lug back       \$182.00       \$172.90         i43-792B       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$281.00       \$266.95         i43-792B       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ flat-back       \$281.00       \$266.95         i43-793B       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ flat-back       \$281.00       \$294.50         i43-793B       .0001"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ flat-back       \$182.00       \$275.50         i43-783B       .0005"/0.01mm       .5" / 12.7mm       ±.001"       1.5N or less       w/ lug back       \$290.00       \$275.50         543-791       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$319.00       \$303.05         543-795       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$182.00       \$172.90	543-792	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$281.00	\$266.95
443-783.0005 "/0.01mm.5" / 12.7mm±.0010"1.5N or lessw/ lug back\$182.00\$172.90443-792B.00005 "/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ flat-back\$281.00\$266.95443-793B.00005 "/0.001mm.5" / 12.7mm±.0001"2.5N or lessw/ flat-back\$310.00\$294.50443-793B.0001 "/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ flat-back\$281.00\$266.95443-793B.0005 "/0.01mm.5" / 12.7mm±.0001"1.5N or lessw/ flat-back\$281.00\$266.95443-783B.0005 "/0.01mm.5" / 12.7mm±.0010"1.5N or lessw/ flat-back\$182.00\$172.90543-791.0005 "/0.01mm.5" / 12.7mm±.001"1.5N or lessw/ lug back\$290.00\$275.50543-795.0005 "/0.001mm.5" / 12.7mm±.0001"2.5N or lessw/ lug back\$319.00\$303.05543-795.0005 "/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ lug back\$182.00\$172.90543-795.0005 "/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ lug back\$182.00\$172.90543-791.0005 "/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ lug back\$182.00\$172.90543-791.0005 "/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ lug back\$182.00\$172.90543-791B.00005 "/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ flat-back <th>543-796</th> <th>.00005"/0.001mm</th> <th>.5" / 12.7mm</th> <th>±.0001"</th> <th>2.5N or less</th> <th>w/ lug back</th> <th>\$310.00</th> <th>\$294.50</th>	543-796	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ lug back	\$310.00	\$294.50
443-792B.00005"/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ flat-back\$281.00\$266.95643-796B.00005"/0.001mm.5" / 12.7mm±.0001"2.5N or lessw/ flat-back\$310.00\$294.50643-793B.0001"/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ flat-back\$281.00\$266.95643-783B.0005"/0.01mm.5" / 12.7mm±.0001"1.5N or lessw/ flat-back\$182.00\$172.90643-783B.0005"/0.01mm.5" / 12.7mm±.0010"1.5N or lessw/ flat-back\$182.00\$172.90543-791.00005"/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ lug back\$290.00\$275.50543-795.00005"/0.001mm.5" / 12.7mm±.0001"2.5N or lessw/ lug back\$319.00\$303.05543-795.00005"/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ lug back\$182.00\$172.90543-795.00005"/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ lug back\$319.00\$303.05543-795.00005"/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ lug back\$182.00\$172.90543-791B.00005"/0.001mm.5" / 12.7mm±.0001"1.5N or lessw/ flat-back\$290.00\$275.50543-795B.00005"/0.001mm.5" / 12.7mm±.0001"2.5N or lessw/ flat-back\$319.00\$303.05543-795B.00005"/0.001mm.5" / 12.7mm±.0001"2.5N or lessw/ flat-back </th <th>543-793</th> <th>.0001"/0.001mm</th> <th>.5" / 12.7mm</th> <th>±.0001"</th> <th>1.5N or less</th> <th>w/ lug back</th> <th>\$281.00</th> <th>\$266.95</th>	543-793	.0001"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$281.00	\$266.95
i43-796B       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ flat-back       \$310.00       \$294.50         i43-793B       .0001"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ flat-back       \$281.00       \$266.95         i43-783B       .0005"/0.01mm       .5" / 12.7mm       ±.001"       1.5N or less       w/ flat-back       \$182.00       \$172.90         Stem ø 8mm, W.J.S x 0.45 Thread       5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$290.00       \$275.50         543-791       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ lug back       \$319.00       \$303.05         543-795       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$319.00       \$303.05         543-795       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$182.00       \$172.90         543-782       .0005"/0.001mm       .5" / 12.7mm       ±.001"       1.5N or less       w/ lug back       \$182.00       \$172.90         543-791B       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ flat-back       \$290.00       \$275.50	543-783	.0005"/0.01mm	.5" / 12.7mm	±.0010"	1.5N or less	w/ lug back	\$182.00	\$172.90
i43-793B       .0001 "/0.001mm       .5" / 12.7mm       ±.0001 "       1.5N or less       w/ flat-back       \$281.00       \$266.95         i43-783B       .0005 "/0.01mm       .5" / 12.7mm       ±.0010"       1.5N or less       w/ flat-back       \$182.00       \$172.90         Stem ø 8mm, W2.5 x 0.45 Thread       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$290.00       \$275.50         543-791       .00005 "/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ lug back       \$319.00       \$303.05         543-795       .00005 "/0.001mm       .5" / 12.7mm       ±.001"       1.5N or less       w/ lug back       \$182.00       \$172.90         543-795       .00005 "/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ lug back       \$182.00       \$172.90         543-791       .00005 "/0.001mm       .5" / 12.7mm       ±.001"       1.5N or less       w/ lug back       \$182.00       \$172.90         543-791B       .00005 "/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ flat-back       \$290.00       \$275.50         543-795B       .00005 "/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ flat-back       \$319.00       \$303.05 <th>543-792B</th> <th>.00005"/0.001mm</th> <th>.5" / 12.7mm</th> <th>±.0001"</th> <th>1.5N or less</th> <th>w/ flat-back</th> <th>\$281.00</th> <th>\$266.95</th>	543-792B	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ flat-back	\$281.00	\$266.95
idda-783B       .0005"/0.01mm       .5" / 12.7mm       ±.0010"       1.5N or less       w/ flat-back       \$182.00       \$172.90         Stem ø 8mm, M2.5 x 0.45 Thread       543-791       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$290.00       \$275.50         543-795       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ lug back       \$319.00       \$303.05         543-782       .0005"/0.001mm       .5" / 12.7mm       ±.001"       1.5N or less       w/ lug back       \$182.00       \$172.90         543-791       .0005"/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ lug back       \$319.00       \$303.05         543-791B       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$182.00       \$275.50         543-791B       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ flat-back       \$290.00       \$275.50         543-795B       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ flat-back       \$319.00       \$303.05	543-796B	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ flat-back	\$310.00	\$294.50
Stem ø 8mm, M2.5 x 0.45 Thread       ±.0001"       1.5N or less       w/ lug back       \$290.00       \$275.50         543-791       .00005 "/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ lug back       \$319.00       \$303.05         543-782       .0005 "/0.001mm       .5" / 12.7mm       ±.001"       1.5N or less       w/ lug back       \$182.00       \$172.90         543-791B       .00005 "/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ lug back       \$182.00       \$172.90         543-791B       .00005 "/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ flat-back       \$290.00       \$275.50         543-795B       .00005 "/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ flat-back       \$319.00       \$303.05	543-793B	.0001"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ flat-back	\$281.00	\$266.95
543-791       .00005 "/0.001mm       .5 " / 12.7mm       ±.0001 "       1.5N or less       w/ lug back       \$290.00       \$275.50         543-795       .00005 "/0.001mm       .5 " / 12.7mm       ±.0001 "       2.5N or less       w/ lug back       \$319.00       \$303.05         543-782       .0005 "/0.01mm       .5 " / 12.7mm       ±.001 "       1.5N or less       w/ lug back       \$182.00       \$172.90         543-791B       .00005 "/0.001mm       .5 " / 12.7mm       ±.0001 "       1.5N or less       w/ flat-back       \$290.00       \$275.50         543-795B       .00005 "/0.001mm       .5 " / 12.7mm       ±.0001 "       2.5N or less       w/ flat-back       \$319.00       \$303.05         543-795B       .00005 "/0.001mm       .5 " / 12.7mm       ±.0001 "       2.5N or less       w/ flat-back       \$319.00       \$303.05	543-783B	.0005"/0.01mm	.5" / 12.7mm	±.0010"	1.5N or less	w/ flat-back	\$182.00	\$172.90
543-795       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ lug back       \$319.00       \$303.05         543-782       .0005"/0.01mm       .5" / 12.7mm       ±.001"       1.5N or less       w/ lug back       \$182.00       \$172.90         543-791B       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       1.5N or less       w/ flat-back       \$290.00       \$275.50         543-795B       .00005"/0.001mm       .5" / 12.7mm       ±.0001"       2.5N or less       w/ flat-back       \$319.00       \$303.05	Stem ø 8mm,	M2.5 x 0.45 Thread						
543-782         .0005"/0.01mm         .5" / 12.7mm         ±.001"         1.5N or less         w/ lug back         \$182.00         \$172.90           543-791B         .00005"/0.001mm         .5" / 12.7mm         ±.0001"         1.5N or less         w/ flat-back         \$290.00         \$275.50           543-795B         .00005"/0.001mm         .5" / 12.7mm         ±.0001"         2.5N or less         w/ flat-back         \$319.00         \$303.05	543-791	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$290.00	\$275.50
543-791B         .00005"/0.001mm         .5" / 12.7mm         ±.0001"         1.5N or less         w/ flat-back         \$290.00         \$275.50           543-795B         .00005"/0.001mm         .5" / 12.7mm         ±.0001"         2.5N or less         w/ flat-back         \$319.00         \$303.05	543-795	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ lug back	\$319.00	\$303.05
543-795B         .00005"/0.001mm         .5" / 12.7mm         ±.0001"         2.5N or less         w/ flat-back         \$319.00         \$303.05	543-782	.0005"/0.01mm	.5" / 12.7mm	±.001"	1.5N or less	w/ lug back	\$182.00	\$172.90
	543-791B	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ flat-back	\$290.00	\$275.50
543-782B         .0005"/0.01mm         .5" / 12.7mm         ±.001"         1.5N or less         w/ flat-back         \$182.00         \$172.90	543-795B	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ flat-back	\$319.00	\$303.05
	543-782B	.0005"/0.01mm	.5" / 12.7mm	±.001"	1.5N or less	w/ flat-back	\$182.00	\$172.90

### **ID-C Digimatic Indicators**

- > Absolute Encoder ensures all settings and readings maintained for the life of the battery (even when the power is turned off).
- > Preset, zero set, inch/mm, +/- direction and go/no-go functions.
- $\ensuremath{{\scriptstyle >}}$  Face rotates 330° for use at various angles.
- > Stem diameter: 3/8".
- > Protected from overspeed errors.
- > SPC output provided.
- > Average battery life 7,000 hours using SR-44 battery (938882).

Order No.	Range	Remarks	List	Promo
.0005″/0.01m	m Resolution			
543-402	.500″/12.7mm	lug back	\$319.00	\$303.05
543-402B	.500″/12.7mm	flat back	\$319.00	\$303.05
543-476B	1″/25mm	flat back	\$468.00	\$444.60
543-496B	2"/50mm	flat back	\$615.00	\$584.25
.00005"/.0001	"/.0005"/0.001mm/0	0.01mm selectable re	solutions	
543-392	.500″/12.7mm	lug back	\$437.00	\$415.15
543-392B	.500″/12.7mm	flat back	\$437.00	\$415.15
543-472B	1"/25mm	flat back	\$585.00	\$555.75
543-492B	2"/50mm	flat back	\$734.00	\$697.30
		C	DC ashla 1 m. 001	330 Jan 005400

SPC cable - 1m: 905338 2m: 905409

**MeasurLink**<sup>®</sup> ENABLED

Data Management Software by Mitutoyo



Prices effective September 14 - 30, 2020

### **Digimatic Indicator ID-H**

#### **Remote Programming Capable**

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

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

> The maximum, minimum or runout value can be	
displayed during measurement.	

> Go/no-go judgment is performed by setting the upper and lower tolerances. If a judgment result is out of tolerance, the display backlighting changes from green to red, so tolerance judgment can be made at a glance.

>With RS-232C input/output



Order No.	Resolution	Range	Model	Accuracy	List	Promo
543-562A	.00002", .00005",	1.2" / 30.4mm		0.0015mm	\$909.00	\$818.10
543-564A	.0001", 0.0005mm, 0.001mm	2.4" / 60.9mm	ID-H560E	0.0025mm	\$1,080.00	\$972.00

SPC cable - 1m: 936937 2m: 965014

> An analog bar indicator has been integrated to

in the same manner as a dial indicator. The display range of the analog bar can be

changed.

handle upper/lower limit approaching and zero approaching. It enhances the ease of operation

### **ABSOLUTE Digimatic Indicator ID-F**

- > With the ABSOLUTE linear encoder technology, once the measurement reference point has been preset, it will not be lost when the power is turned on.
- > 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.
- > The maximum, minimum or runout value can be displayed during measurement.

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

Order No.	Resolution	Range	Model	Accuracy	List	Promo
543-552A	.00005″, .0001″, .0005″, .001″,	1″ / 25.4mm	ID-F125E	.00012″	\$687.00	\$618.30
543-558A	0.001mm, 0.01mm	2″ / 50.8mm	ID-F150HE	.00012″	\$796.00	\$716.40

SPC cable - 1m: 936937 2m: 965014

### **ABSOLUTE Digimatic Indicator ID-U**

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

Order No.	Resolution	Range	Model	Accuracy	Measuring force	List	Promo	
575-123	.0005"/0.01mm	1" / 25.4mm	ID-U1025E	.0008″	1.8N or less	\$201.00	\$180.90	

SPC cable - 1m: 905338 2m: 905409



543-552A 543-558A

## ABSOLUTE

575-123

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

0%

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

ABSOLITE

# Holtest

### Holtest

- > Titanium-coated measuring pins provide excellent durability and impact resistance and allows 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**

- > The anvils and cone are made from an alloy tool steel with a hardness of HRC60.5 or more.
- >Three-point design ensures self-centering action for stable measurements in the range above .275" bore diameter.
- >With ratchet stop for constant force.

Mechanical Holtests – Individual Units								
Order No.	Description/Range	List	Promo					
368-021	Holtest, 0.08"-0.1"	\$1,500.00	\$1,200.00					
368-022	Holtest, 0.1"-0.12"	\$1,500.00	\$1,200.00					
368-023	Holtest, 0.12"-0.16"	\$1,210.00	\$968.00					
368-024	Holtest, 0.16"-0.2"	\$1,210.00	\$968.00					
368-025	Holtest, 0.2"-0.24"	\$1,210.00	\$968.00					
368-026	Holtest, 0.24"-0.28"	\$1,210.00	\$968.00					
368-261	Holtest, 0.275"-0.35"	\$599.00	\$479.20					
368-262	Holtest, 0.35"-0.425"	\$599.00	\$479.20					
368-263	Holtest, 0.425"-0.5"	\$599.00	\$479.20					
368-264	Holtest, 0.5" - 0.65"	\$621.00	\$496.80					
368-265	Holtest, 0.65"-0.8"	\$621.00	\$496.80					
368-266	Holtest, 0.8" - 1.0"	\$645.00	\$516.00					
368-267	Holtest, 1.0" - 1.2"	\$645.00	\$516.00					
368-268	Holtest, 1.2" - 1.6"	\$806.00	\$644.80					
368-269	Holtest, 1.6" - 2.0"	\$850.00	\$680.00					
368-270	Holtest, 2.0" - 2.5"	\$855.00	\$684.00					
368-271	Holtest, 2.5" - 3.0"	\$928.00	\$742.40					
368-272	Holtest, 3.0" - 3.5"	\$953.00	\$762.40					
368-273	Holtest, 3.5" - 4.0"	\$997.00	\$797.60					
368-274	Holtest, 4.0" - 5.0"	\$1,280.00	\$1,024.00					
368-275	Holtest, 5.0" - 6.0"	\$1,450.00	\$1,160.00					
368-276	Holtest, 6.0" - 7.0"	\$1,490.00	\$1,192.00					
368-277	Holtest, 7.0" - 8.0"	\$1,540.00	\$1,232.00					
368-278	Holtest, 8.0" - 9.0"	\$1,750.00	\$1,400.00					
368-279	Holtest, 9.0" - 10"	\$1,960.00	\$1,568.00					
368-280	Holtest, 10" - 11"	\$1,980.00	\$1,584.00					
368-281	Holtest, 11" - 12"	\$2,030.00	\$1,624.00					
Mechanical	Holtests – Complete Unit Sets							
368-916	Holtest, Set, 0.275"-0.5"*	\$2,210.00	\$1,768.00					
368-917	Holtest, Set, 0.5" - 0.8"*	\$1,490.00	\$1,192.00					
368-918	Holtest, Set, 0.8" - 2.0"*	\$3,410.00	\$2,728.00					
368-919	Holtest, Set, 2.0" - 4.0"*	\$4,860.00	\$3,888.00					
368-920	Holtest, Set, 4.0" - 8.0"*	\$7,440.00	\$5,952.00					
368-926	Holtest, 2pc Set, .08"12"*	\$3,190.00	\$2,552.00					
368-927	Holtest, 4pc Set, .12"28"*	\$5,090.00	\$4,072.00					
368-995	HOLTEST, SET, TYPE II, R, 0.58"	\$1,360.00	\$1,088.00					
368-996	HOLTEST, SET, TYPE II, R, 0.8 - 2 "	\$3,120.00	\$2,496.00					
368-997	HOLTEST, SET, TYPE II, R, 2 - 4"	\$4,390.00	\$3,512.00					
368-998	HOLTEST, SET, TYPE II, R, 4 - 8"	\$6,840.00	\$5,472.00					





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



#### Measuring a Blind Hole

The measuring contact points held in the jaws permit measuring the diameter of a blind hole to the bottom.  $\sum$ 

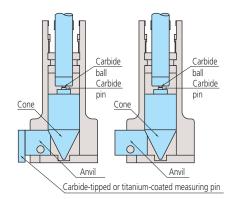
(up to 100mm / 4" models)

in 4 models)	

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

#### Inspection Certificate Supplied as Standard

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



# Holtest

## Mitutoyo

## **Digimatic Holtest**

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

Digimatic H	oltests – Individual Units		
Order No.	Range	List	Promo
468-261	Digimatic Holtest, .27535"	\$1,110.00	\$888.00
468-262	Digimatic Holtest, .35"425"	\$1,110.00	\$888.00
468-263	Digimatic Holtest, .4255"	\$1,120.00	\$896.00
468-264	Digimatic Holtest, 0.5" - 0.65"	\$1,220.00	\$976.00
468-265	Digimatic Holtest, 0.65" - 0.8"	\$1,220.00	\$976.00
468-266	Digimatic Holtest, 0.8" - 1"	\$1,250.00	\$1,000.00
468-267	Digimatic Holtest, 1.0-1.2 "	\$1,250.00	\$1,000.00
468-268	Digimatic Holtest, 1.2" - 1.6"	\$1,280.00	\$1,024.00
468-269	Digimatic Holtest, 1.6" - 2.0"	\$1,290.00	\$1,032.00
468-270	Digimatic Holtest, 2" - 2.5"	\$1,400.00	\$1,120.00
468-271	Digimatic Holtest, 2.5" - 3"	\$1,400.00	\$1,120.00
468-272	Digimatic Holtest, 3" - 3.5"	\$1,420.00	\$1,136.00
468-273	Digimatic Holtest, 3.5" - 4"	\$1,440.00	\$1,152.00
468-274	Digimatic Holtest, 4" - 5"	\$1,880.00	\$1,504.00
468-275	Digimatic Holtest, 5" - 6"	\$1,930.00	\$1,544.00
468-276	Digimatic Holtest, 6" - 7"	\$2,050.00	\$1,640.00
468-277	Digimatic Holtest, 7" - 8"	\$2,140.00	\$1,712.00
468-278	Digimatic Holtest, 8" - 9"	\$2,280.00	\$1,824.00
468-279	Digimatic Holtest, 9" - 10"	\$2,330.00	\$1,864.00
468-280	Digimatic Holtest, 10" - 11"	\$2,410.00	\$1,928.00
468-281	Digimatic Holtest, 11" - 12"	\$2,520.00	\$2,016.00
Digimatic H	oltests – Interchangeable Head Sets		
468-976	Digimatic Holtest Head Set, 0.275"-0.5"*	\$2,030.00	\$1,624.00
468-977	Digimatic Holtest, Head Set, 0.5"- 0.8"*	\$1,650.00	\$1,320.00
468-978	Digimatic Holtest, Head Set, 0.8" - 2"*	\$4,120.00	\$3,296.00
468-979	Digimatic Holtest, Head Set, 2" - 4"*	\$4,720.00	\$3,776.00
468-980	Digimatic Holtest, Head Set, 4" - 8"*	\$5,540.00	\$4,432.00
Digimatic H	oltests – Complete Unit Sets		
468-986	Digimatic Holtest, Unit-Set, 0.275"-0.5"*	\$3,960.00	\$3,168.00
468-987	Digimatic Holtest, Unit-Set, 0.5" - 1 " *	\$4,200.00	\$3,360.00
468-988	Digimatic Holtest, Unit-Set, 1" - 2"*	\$4,760.00	\$3,808.00
468-989	Digimatic Holtest, Unit-Set, 2 " - 3 " *	\$5,350.00	\$4,280.00
468-990	Digimatic Holtest, Unit-Set, 3" - 4" *	\$6,290.00	\$5,032.00



20% OFF

### Measuring Deep Holes

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



VIDEO DEMO





Complete-Unit Set



Interchangeable-Head Set

## Borematic

### **Borematic**

### Quick, spring-loaded lever action/movement

- > Titanium-coated measuring pins provide excellent durability and impact resistance and allows 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.
- > Digimatic Borematic is compatible with statistical process control systems and measurement support systems.
- > Built-in tolerance judgment function allows go/no-go judgment based on user-defined upper and lower limit settings.

**MeasurLink**<sup>®</sup> **ENABLED** 

ABSOLUTE<sup>®</sup> SPC

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

	<b>U</b>	and the second			
Order No	Size Range	Accuracy	Extension Rod	List	Promo
568-461	0.275" - 0.350"	- /		\$1,450.00	\$1,160.00
568-462	0.350" - 0.425"	±5µm (within 5µm) ±0.00025 in (within 0.00025")	100mm ( <b>952322</b> )	\$1,450.00	\$1,160.00
568-463	0.425" -0.500"	10.00025 m (within 0.00025 )		\$1,450.00	\$1,160.00
568-464	0.50" - 0.65"	±5µm (within 5µm)	150mm (052624)	\$1,480.00	\$1,184.00
568-465	0.65" - 0.80"	±0.00025 in (within 0.00025")	150mm ( <b>952621</b> )	\$1,480.00	\$1,184.00
568-466	0.8" - 1.0"			\$1,480.00	\$1,184.00
568-467	1.0" - 1.2"		150mm ( <b>952622</b> )	\$1,530.00	\$1,224.00
568-468	1.2" - 1.6"			\$1,700.00	\$1,360.00
568-469	1.6" - 2.0"			\$1,700.00	\$1,360.00
568-470	2.0" - 2.5"	±6μm (within 6μm)		\$1,660.00	\$1,328.00
568-471	2.5" - 3.0"	±0.0003 in (within 0.0003")		\$1,720.00	\$1,376.00
568-472	3.0" - 3.5"		150mm (052622)	\$1,750.00	\$1,400.00
568-473	3.5" - 4.0"		150mm ( <b>952623</b> )	\$1,750.00	\$1,400.00
568-474	4.0" - 4.5"			\$1,830.00	\$1,464.00
568-475	4.5" - 5.0"			\$1,930.00	\$1,544.00

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

Order No	Overall Range	Range of Individual Gages	Setting Rings	List	Promo
568-965	0.275"- 0.5"	0.275-0.35", 0.35-0.425", 0.425-0.5"	0.35" DIA., 0.425" DIA.	\$5,010.00	\$4,008.00
568-966	0.5"-1"	0.5-0.65", 0.65-0.8", 0.8-1"	0.65" DIA., 0.8" DIA.	\$5,230.00	\$4,184.00
568-967	1″- 2″	1-1.2", 1.2-1.6", 1.6-2"	1.2" DIA., 1.6" DIA.	\$5,460.00	\$4,368.00
568-968	2"- 3"	2-2.5", 2.5-3"	2.5" DIA.	\$3,910.00	\$3,128.00
568-969	3"- 4"	3-3.5", 3.5-4"	3.5" DIA.	\$4,340.00	\$3,472.00

### Interchangeable-Head Sets

Order No	Overall Range	Range of Individual Gages	Setting Rings	List	Promo
568-928	0.275" - 0.5"	0.275-0.35", 0.35-0.425", 0.425-0.5"	0.35" DIA., 0.425" DIA.	\$2,230.00	\$1,784.00
568-929	0.5" - 1"	0.5-0.65", 0.65-0.8", 0.8-1"	0.65" DIA., 0.8" DIA.	\$2,530.00	\$2,024.00
568-930	1" - 2"	1-1.2", 1.2-1.6", 1.6-2"	1.2" DIA., 1.6" DIA.	\$3,080.00	\$2,464.00
568-936	2" - 4"	2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5" DIA., 3.5" DIA.	\$4,440.00	\$3,552.00

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

Prices effective September 14 - 30, 2020



### **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)





Interchangeable-Head Set

# Height Gages



\*Complimentary ground shipping for the 48 contiguous United States. Offer applies to orders placed September 14 through September 30, 2020. Mitutoyo America Corporation reserves the right to change or discontinue this offer at any time. This offer is void wherever prohibited or

### Linear Height LH-600E

The Mitutoyo Linear Height LH-600E offers advanced performance for reliable and easy 2D measurement.

Measuring Range (stroke) 0–38"(24") / 0–972mm(600mm)

- >0.1µm/1µinch resolution.
- > Excellent accuracy of (1.1+0.6L/600)µm with 0.4µm repeatability.
- > Perpendicularity of 5µm and straightness of 4µm are guaranteed.
- > Pneumatic full/semi-floating system.
- >One-key operation for running a semi-automatic measurement.

### Complimentary Accredited Calibration\* (A2LA 0750.01)

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\*Complimentary accredited calibration applies to orders placed September 14 through September 30, 2020. This offer is void wherever prohibited or restricted by law. No cash value. Complimentary accredited calibration will be conducted prior to unit shipping and cannot be applied toward previously placed orders. Refer to our terms and conditions for further details.

10%

\*\*Complimentary ground shipping for the 48 contiguous United States. Offer applies to orders placed September 14 through September 30, 2020. This offer is void wherever prohibited or restricted by law. No cash value. For Alaska and Hawaii special rates apply. Contact us for details. Orders may only be shipped to a single address. If customer returns product, they are responsible for the shipping cost. Refer to our terms and conditions for further details.



### **High-Performance Height Gage QM-Height Series**

- > High-resolution ABSOLUTE linear encoder for position detection.
- > High-accuracy: ±(2.4 + 2.1L / 600)µm.
- > 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.).

Resolution

0.001mm/

0.0005mm

/.00005" / .0001"

- > Battery life of 1200 hours in continuous use with four AA batteries, an improvement from 300 hours.
- > 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.



0 - 14"/0 - 350mm

0 - 24"/0 - 600mm

0 - 14"/0 - 350mm

0 - 24"/0 - 600mm

Range

Order No.

64PKA094B

64PKA095B

64PKA129B

64PKA130B





122

# Height Gages / Surftest

### **Digimatic Height Gages**

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

- Heavy duty, multi-function type.\*
- > Carbide-tipped long scriber is provided.
- Rigid construction ensures repeatable measurement.
- > Switchable resolution.
- > Optional bi-directional touch probe. (192-008)\*

SPC data output.
 ABS and INC modes.

> Coarse/fine feed switching.

- > Two-value preset memory.
- Data/hold.
  Inch/mm conversion.

192-670-10

Order No.	Range	Resolution	Accuracy	List	Promo
192-670-10*	0-12"/0-300mm		±001″	\$1,820.00	\$1,456.00
192-671-10*	0-18"/0-450mm		±0015"	\$2,350.00	\$1,880.00
192-672-10*	0-24"/0-600mm		±0015"	\$3,010.00	\$2,408.00
192-673-10*	0-40"/0-1000mm	.0005"(0.01mm) [.0002"(0.005mm)	±0025"	\$5,640.00	\$4,512.00
192-630-10	0-12"/0-300mm	[.0002 (0.0051111) Switchable)]	±001″	\$1,590.00	\$1,272.00
192-631-10	0-18"/0-450mm		±0015"	\$2,170.00	\$1,736.00
192-632-10	0-24"/0-600mm		±0015"	\$2,770.00	\$2,216.00
192-633-10	0-40"/0-1000mm		±0025"	\$5,230.00	\$4,184.00
Measur		SDA			

Data Management Software by Mitutoyo

- Surftest SJ-210 Packages
- > The 2.4" color graphic, back-lit LCD provides excellent readability.
- > Replace Skid system offers user-friendly and intuitive menu navigation.
- Performs roughness analysis conforming to various international standards (EN ISO, VDA, ANSI, JIS) and customized settings.
- > Calculation results, assessed profiles, bearing and amplitude curves can be displayed.
- > Supports 16 languages.

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

Order No	Description	List	Promo
64PKA226	Calibration Package	\$2,946.00	\$2,430.00
178-561-02A	SJ-210 IN 4mN (Standard Drive Unit)		
178-390	FREE EXTRA DETECTOR		
C178-602	50% off Calibrated specimen		

Order No	Description	List	Promo
64PKA227	Data Collection Package	\$3,259.00	\$2,760.00
178-561-02A	SJ-210 IN 4mN (Standard Drive Unit)		
02AZD730G	U-WAVE TRANSMITTER		
02AZD790D	U-WAVE connecting cable D		
02AZD810D	FREE U-WAVE RECEIVER		

Order No	Description	List	Promo
64PKA228	Height Gage Package	\$3,572.00	\$2,890.00
178-561-02A	SJ-210 IN 4mN (Standard Drive Unit)		
12AAA233	Height gage adapter (Inch)		
192-150	12" Dial height gage		





178-390



178-561-02A

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Prices effective September 14 - 30, 2020

# Laser Scan Micrometers



**MeasurLink**<sup>®</sup> ENABLED

Data Management Software by Mituto

## Mitutoyo

### **Bench Top**

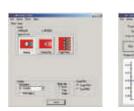
### Laser Scan Micrometer LSM-9506

- > Integrated display and measuring unit in one unit.
- > Statistical calculation mode.
- > RS-232C output, I/O interface and SPC output interface are standard.
- >Accuracy: .0001"

544-116-1A

Order Number	Range	Resolution	List	Promo
544-116-1A	.020" - 2.36"/0.5mm - 60mm	.000002"005"/0.00005 - 0.1mm	\$8,940.00	\$8,046.00

**QUICKTOOL**\* is a free, downloadable software that makes programming the laser quick and easy. \*For use with customer-supplied PC and optional RS-232C cable.







### **High-Accuracy Non-Contact Measuring Systems**

- > Excellent accuracy: down to +/- 12 µinches
- > High-speed scanning capable: 3,200 scans per second.
- > Various ranges available for selecting the best laser for your application.
- > Statistical calculation mode.
- > Memory function allows storage of up to 100 programs.
- > Standard RS-232C output and I/O interface. Optional Digimatic output.



## **UP TO 35% OFF**

Order No	Model	Range Inch	Range mm	Repeatability	Accuracy	Scanning Rate	List	Promo
64PKA117	LSM-500S	.0002″08″	0.005~2mm	±0.03µm	±0.3µm	3,200 scans/sec	\$10,370.00	\$7,090.00
64PKA118	LSM-501S	.002"4"	0.05~10mm	±0.04µm	±0.5µm <sup>+</sup>	3,200 scans/sec	\$9,330.00	\$6,050.00
64PKA119	LSM-503S	.012" - 1.18"	0.3~30mm	±0.11µm	±1.0µm <sup>+</sup>	3,200 scans/sec	\$10,110.00	\$6,830.00
64PKA120	LSM-506S	.04" - 2.36"	1~60mm	±0.36µm	±3µm⁺	3,200 scans/sec	\$11,480.00	\$8,200.00
64PKA121	LSM-512S	.04" - 4.72"	1~120mm	±0.85µm	±6µm <sup>+</sup>	3,200 scans/sec	\$17,680.00	\$14,400.00
64PKA122	LSM-516S	.04" - 6.30"	1~160mm	±1.4µm	±7µm <sup>+</sup>	3,200 scans/sec	\$28,480.00	\$25,200.00

<sup>+</sup> Accuracy over entire range. Higher accuracies are possible over smaller ranges.

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



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









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# Hardness Testers

### **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 like sized parts.
- > Touch-screen operation with color LCD.
- > All hardness parameters set automatically via the touch screen.
- > Cylindrical and spherical surface corrections.
- > Auto conversion to most common hardness scales or tensile strength.

Order No.		810-237						
Model		HR-530						
Hardness te	esting methods	Rockwell/Rockwell Superficial/Brinell/	Plastics hardness					
Initial test f	orce (N)	29.42N (3kgf), 98.07N (10	)kgf)					
Test force	Rockwell Superficial	147.1N (15kgf), 294.2N (30kgf), 44	41.3N (45kgf)					
(N)	Rockwell	588.4N (60kgf), 980.7N (100kgf), 1	588.4N (60kgf), 980.7N (100kgf), 1471N (150kgf)					
	Light Force Brinell	61.29 (6.25kgf), 98.07 (10kgf), 153.2 (15.625kgf), 245.2 (25kgf), 294.2 (30kgf), 30 (31.25kgf), 612.9 (62.5kgf), 980.7 (100kgf), 1226 (125kgf), 1839 (187.5kgf)						
External da	ta output	RS-232C, digimatic, USB2.0						
External dimensions	Main unit	9.84" x 26.38" x 23.82" (250(W)×667(D)×621(H) mm)	11.8" x 26.2" x 30.1" (300(W)×667(D)×766(H) mm)					
	Touch-panel display	191(W)×147(D)×71(H) mm						
Mass		Approx. 60 kg						
List		\$13,500.00						
Promo		\$12,825.00						

### **Durometers (Digital and Analog)** For Rubber and Plastic Hardness Testing

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



Compact Dial 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	\$599.00	\$569.05
811-336-10	HH-336	Shore A	Digital	0.5	10~90	Blunt Taper	\$1,280.00	\$1,216.00
811-337-10	HH-337	Shore D	Analog	1.0	20~90	Sharp Point	\$599.00	\$569.05
811-338-10	HH-338	Shore D	Digital	0.5	20~90	Sharp Point	\$1,280.00	\$1,216.00

### HH-411 Hardmatic

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

Order No.	Туре	List	Promo
810-298-10	HH-411 Hardmatic	\$3,990.00	\$3,790.50







HR-530 (810-237)

#### Function: Touch-screen type

- Touch-screen operation with a back-lit LCD graphic display. • Remote selection of the test force linked to the hardness scale selection.
- Choice of language: English, German, French, Spanish, Italian and Japanese.
- Cylindrical and spherical surface compensation.
- Data offset.
- Conversion to other hardness scales.
- · Powerful statistical processing with flexible data point editing and 1024 data memory.
- · Measured data editing.

811-336-10

- Go/no-go tolerance judgment.
- Statistical processing, histogram and x-R chart.

#### **MeasurLink**® ENABLED Data Management Software by Mitutovo





Prices effective September 14 - 30, 2020

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

# Microscopes



### **MF Measuring Microscopes**

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

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



Mitutoyo

Order No	Description	LIST	Promo	
64PKA092A	MF-A1010D Package		\$17,064.00	
176-861-10	MF-A1010D	¢10.000.00		
176-445A	LED Illumination unit (MF)	\$18,960.00		
176-393	Binocular Tube			

### **TM Toolmakers' Microscopes**



> Adjustable illumination intensity.

Model No.

Order No.

Microscope

Illumination unit

Cross-ti stage

Linear

head

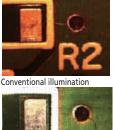
Eyepiece Objective lens

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

Maximum height of workpiece

Transmitted illumination

Surface illumination





Newly designed LED illum

	TM-A1005B	
	176-821A	
accessory: 15X (field	d number: 13), Options: 10X, 20X	
Standard accessory	/: 2X, Options: 5X, 10X	
1	4.21" / 107mm	

Stepless brightness adjustment, White LED light source, with green filter Oblique single-source type, Stepless brightness adjustment, White LED light source

			· · · ·			
-travel	Measuring range	2" x 2" / 50×50mm	4" x 2" / 100×50mm (An optional 2"/50mm gage block is required to cover full range. A CERA block is recommended.)			
	Usable area of the stage glass	3.8" x 3.8" / 96×96mm	6" x 3.8" / 154×96mm			
Maximum stage glass loading		11 lbs. / 5kg				
measurement method		Micrometer heads included				
List		\$5,590.00	\$7,290.00			
Promo		\$5,031.00	\$6,561.00			

TM-A505B

176-820A

4.53" / 115mm

Standard accessory:



# Microscopes / Digital Readout

Mitutoyo

### 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.

Description

414TL

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

Promo

\$1,311.00

\$1,380.00

\$1,250.00

\$53.85





Camera with software for digital viewing



MSM-414TL Stereo Microscope

C-mount Video Adapter for MSM-

Digital camera w/software 1080, 2.0 Mega Pixels, HDMI/USB

Mounting Hardware Included on all machine retrofit packages

#### All DRO Packages Include:

>KA-200 Counter

Order No.

377-974A

377-481

64AAB526

- KA-200 Counter tray/arm kitHigh Resolution Linear Scales
- (down to .0001" or better!)





Package Part No.	Description	X Travel	Y Travel	Z Travel	X Axis Type	Y Axis Type	Z Axis Type	List	Promo
64PKA058A	12" X 30" DRO Mill Package	30″	12″		AT715	AT715		\$1,490.00	\$1,290.00
64PKA059A	12" X 36" DRO Mill Package	36″	12″		AT715	AT715		\$1,490.00	\$1,290.00
64PKA060A	14" X 30" DRO Mill Package	30″	14″		AT715	AT715		\$1,490.00	\$1,290.00
64PKA062A	16" X 36" DRO Mill Package	36″	16″		AT715	AT715		\$1,490.00	\$1,290.00
64PKA063A	16" X 40" DRO Mill Package	40″	16″		AT715	AT715		\$1,490.00	\$1,290.00
64PKA035A	6" X 28" Lathe Package	6″		28″	AT116		AT715	\$1,450.00	\$1,250.00
64PKA039A	8" X 40" Lathe Package	8″		40″	AT116		AT715	\$1,450.00	\$1,250.00
64PKA042A	10" X 40" Lathe Package	10″		40″	AT116		AT715	\$1,450.00	\$1,250.00
64PKA046A	12" X 40" Lathe Package	12″		40″	AT116		AT715	\$1,450.00	\$1,250.00
64PKA050A	12" X 60" Lathe Package	12″		60″	AT116		AT715	\$1,650.00	\$1,450.00
64PKA052A	14" X 40" Lathe Package	14″		40″	AT116		AT715	\$1,450.00	\$1,250.00
64PKA057A	16" X 60" Lathe Package	16″		60″	AT116		AT715	\$1,650.00	\$1,450.00
64PKA026A	6" X 12" Grinder Package	6″		12″	AT116		AT116	\$1,620.00	\$1,420.00
64PKA028A	8" X 12" Grinder Package	8″		12″	AT116		AT116	\$1,620.00	\$1,420.00
64PKA029A	8" X 14" Grinder Package	8″		14″	AT116		AT116	\$1,620.00	\$1,420.00

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

Prices effective September 14 - 30, 2020

# **Digimatic Scales**



## **Mitutoy**o

### **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.

AB2 encod		<b>MeasurLink</b> <sup>®</sup> <b>ENABLED</b> Data Management Software by Mitutoyo		
Order No.	Description	List	Promo	
053906B	Digimatic Quill Kit complete with brackets & scale for Bridgeport Type machines.	\$310.00	\$294.50	

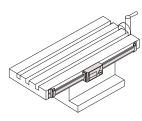
## **ABSOLUTE Digimatic Scale Units**

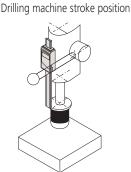
- > The Origin key allows setting of an absolute zero point to be used as reference in subsequent measurements. Once set, the ABS Digimatic Scale Unit is ready to show its true position whenever turned on, rather than 0.00" as with standard models.
- > The Zero/ABS key allows the display to be zero-set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

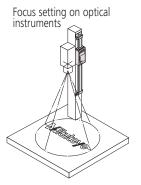
Order No	Model	Range	Accuracy	Resolution	Туре	List	Promo
572-210-30	SD-4"DX	0-4" / 0-100mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal single-function	\$235.00	\$223.25
572-211-30	SD-6"DX	0-6" / 0-150mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal single-function	\$249.00	\$236.55
572-212-30	SD-8"DX	0-8" / 0-200mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal single-function	\$290.00	\$275.50
572-213-10	SD-12"D	0-12" / 0-300mm	.002" / 0.04mm	.0005" / 0.01mm	Horizontal single-function	\$559.00	\$531.05
572-310-10	SDV-6"D	0-4" / 0-100mm	.001" / 0.03mm	.0005" / 0.01mm	Vertical single function	\$260.00	\$247.00
572-311-10	SDV-6"D	0-6" / 0-150mm	.001" / 0.03mm	.0005" / 0.01mm	Vertical single-function	\$276.00	\$262.20
572-312-10	SDV-8"D	0-8" / 0-200mm	.001" / 0.03mm	.0005" / 0.01mm	Vertical single function	\$320.00	\$304.00
572-313-10	SDV-12"D	0-12" / 0-300mm	.002" / 0.04mm	.0005" / 0.01mm	Vertical single function	\$616.00	\$585.20

### Applications

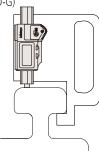
Machine table position







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



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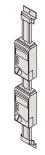
The Mitutoyo Quill Kit mounted on a vertical mill.





**MeasurLink**<sup>®</sup>ENABLED Data Management Softwa are by Mituto

Detector head mechanism





# Profile Projectors

### **PJ-A3000 Vertical Profile Projector**

- > A series of midsize profile projectors featuring bright, 12.40" (315mm) diameter screens and easy-to-operate XY measurement tables.
- > A floating table makes measuring quick and easy.
- > Built-in, easy-to-read digital counters are located near the projection screen, therefore minimizing strain associated with excessive movement.
- > For edge-sensing capabilities, order the Optoeye-200, part number 332-151.



**MeasurLink**<sup>®</sup> **ENABLED** Data Management Software by Mitutoyo PJ-A3010F-200

Order No.	Description	XY Travel	List
302-701A	PJ-A3010F-200	8" x 4"	\$13,600.00
302-702A	PJ-A3005F-150	6" x 2"	\$12,000.00
302-703A	PJ-A3010F-100	4" x 4"	\$10,800.00
302-704A	PJ-A3005D-50	2" x 2"	\$8,890.00

### **PJ-H30 Vertical Profile Projector**

- Newly designed optical system with high NA lenses provides drastically brighter and clearer screen images during surface illumination.
- The three-lens mounting turret includes a 10X lens as standard. Four types of projection lenses (5X, 20X, 50X, 100X) are available.

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



	Order No.	Description	XY Travel	List
	303-712-1A	PJ-H30A1010B	4 x 4" /100x100mm	\$23,100.00
	303-713-1A	PJ-H30A2010B	8 x 4" /200x100mm	\$28,200.00
	303-714-1A	PJ-H30A2017B	8 x 6.7" /200x170mm	\$33,300.00
	303-715-1A	PJ-H30A3017B	12 x 6.7" /300x170mm	\$38,400.00
*	303-732-1A	PJ-H30D1010B	4 x 4" /100x100mm	\$28,200.00
*	303-733-1A	PJ-H30D2010B	8 x 4" /200x100mm	\$33,300.00
*	303-734-1A	PJ-H30D2017B	8 x 6.7" /200x170mm	\$38,400.00
*	303-735-1A	PJ-H30D3017B	12 x 6.7" /300x170mm	\$43,600.00
	<ul> <li>Both Control of Control</li> </ul>	1 7		

★ Built-in edge detection and power focus

Prices effective September 14 - 30, 2020

### **PV-5110 Profile Projector**

- >Large 500mm screen.
- Floor model uses a downward illumination system.
- Digital readout protractor screen (including zero-setting, ABS/INC coordinate switching functions) for easy and error-free angle measurement.
- > Angled screen allows projected images to be easily traced or compared with a template.
- The oblique surface illumination system provides clear and bright images, allowing easy inspection of non-reflective workpieces such as plastic parts or printed materials.
- >200 x 100mm (8 x 4") XY travel
- >10x projection lens set
- > Surface illumination unit
- > Counter stand for KA counter
- Power cord, halogen bulb, fuse, grounding wire, allen wrench, vinyl cover



PV-5110



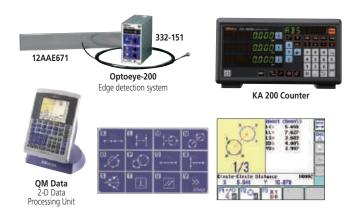
**MeasurLink**<sup>®</sup> ENABLED Data Management Software by Mitutoyo

Order No.	Description	List
304-919A	Profile Projector PV-5110	\$19,500.00

### **Optional Accessories**

Order No.	Description	List
264-156A	QM-Data200 (Arm-Mount Model)	\$2,720.00
332-151	Optoeye-200	\$1,650.00
12AAE672	Attachment (B) for Optoeye-200 for PV-5110	\$58.65
12AAE671	Attachment (A) for Optoeye-200 for PJ-A, PJ-H	\$40.80
174-183A	KA 200 Counter	\$587.00
64PMI167	STAND FOR PJ-A3000, 24.4" x20" x32" (CHARCOAL GRAY, RAL7016 RTM)	\$688.00
172-269	MACHINE STAND FOR PJ-H SERIES	\$1,660.00

\*Attachment A/B and 332-151 (Optoeye-200 Edge detection system) must be sold together as an option



# **Profile Projectors**



## **Mitutoy**

#### PH-3515 Profile Projector and 2D Processor Packages Heavy-Duty, Bench-Top Model with Horizontal Optical System featuring touch screen M2 geometric measuring display NEU >ø14" Screen, Horizontal Projector. > Optional Edge Detection. > 10" x 6" Travel T Slot table for accessories. > Digital built-in angle counter. >Linear Glass Scales for accurate measurement Profile and Fiber Optic Surface Illumination. **MeasurLink**<sup>®</sup>ENABLED > Easy to use all-in-one PC Touch Screen. Data Management Software by Mitutovo >M2 Geometric 2D Measurement Software. Description Order No. List 64PKA088A\* PH-3515F Profile Projector w/QM Data \$13,500.00 (Arm Mount) 64PKA089B PH-3515F Profile Projector w/KA counter & tray \$11,600.00 64AAB176 PH-3515 Stand (optional) \$687.00 OM Data 2-D Data Processing Unit din la PH-3515 PROFILE PROJECTOR - WITH OPTICAL 64PKA165 \$15,900.00 EDGE DETECTION AND TOUCH SCREEN M2 GEOMETRIC DISPLAY PH-3515 PROFILE PROJECTOR - WITH TOUCH 64PKA166 \$14,500.00 SCREEN M2 GEOMETRIC DISPLAY \*12AAE671 (Includes installation and A2LA accredited calibration) Optoeye-200 KA 200 Counter Edge detection system \*12AAE671 and 332-151 (Optoeye-200 Edge detection system) must be sold together as an option

# **TRADE IN TRADE UP**

Money for Your Old Machine - Exchange your old machine for up to \$1,500 toward the purchase of a new projector with Mitutoyo's trade-in program. The trade-in allowance is determined by the purchase price of a new model and will be deducted from the price of a new machine order.

### **Eligible machines for trade-in:**

- ✓ Previous Generation Mitutoyo Horizontal Projectors
- ✓ Previous Generation Mitutoyo Vertical Projectors
- ✓ Non-Mitutoyo Horizontal Projectors
- ✓ Non-Mitutoyo Vertical Projectors

180

Trade In-Trade Up

**TRADE UP** Program Includes: **FREE Shipping\* FREE Installation** FREE A2LA Calibration

https://www.mitutoyo.com/profileprojector2020

Mitutoyo America Corporation 965 Corporate Boulevard Aurora, Illinois 60502 1-888-648-8869



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# **Mitutoy**o

0920 • FOR WEB ONLY • Sept 2020

# **LINITED TIME OFFER** BOOMBASTIC SHOW PRECISION TOOLS & INSTRUMENTS PROMO

Effective September 14 - 30, 2020

