

**MeasurLink® ENABLED**

Data Management Software by Mitutoyo



# FALL PROMO 2020

PRECISION TOOLS & INSTRUMENTS

Effective October 20 through December 18, 2020

FALL PROMO 2020



The Global Standard for Wireless Connection





# U-WAVE Bluetooth® Wireless Data Transmitters



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

## U-WAVE Bluetooth®

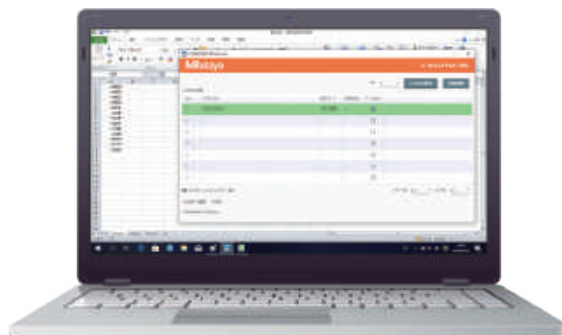
### U-WAVE-TMB/TCB

The new U-WAVE Bluetooth transmitter features:

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



**10%  
OFF**



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

<https://www.mitutoyo.co.jp/en/contact/products/U-WAVE/>



U-WAVE-TMB



Data Management Software by Mitutoyo

U-WAVE-TCB



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

Order No.	Model	Measuring Instrument*	Remarks	List	Promo
264-624	U-WAVE-TCB	4", 6", 8", 12" IP67 caliper/standard caliper	IP67/LED	\$190.00	<b>\$171.00</b>
264-625	U-WAVE-TCB	4", 6", 8", 12" IP67 caliper/standard caliper	Buzzer/LED	\$190.00	<b>\$171.00</b>
264-626	U-WAVE-TMB	COOLANT-PROOF (IP65) micrometer	IP67/LED	\$190.00	<b>\$171.00</b>
264-627	U-WAVE-TMB	COOLANT-PROOF (IP65) micrometer	Buzzer/LED	\$190.00	<b>\$171.00</b>
02AZF310	Connection unit	IP67 caliper/COOLANT-PROOF (IP65) micrometer	Waterproof	\$70.00	<b>\$63.00</b>
02AZF300	Connection unit	Standard caliper	Standard	\$70.00	<b>\$63.00</b>

\* No U-WAVE Receiver required



### 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.

Inside the pages of the 2020 fall promotion, you will find a lot 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. Be sure to take advantage of our new BULK BUY, stock-up and SAVE offer as well as 10% off on calibrated tools and height gages! Prices are Effective October 20 through December 18, 2020.

You can find all of the latest promotions, products and events on our website, [www.mitutoyo.com](http://www.mitutoyo.com).

Thank you for trusting us with your metrology needs.

Sincerely,

*Matthew B. Dye*

Matt Dye

President, Mitutoyo America Corporation

Prices effective Oct. 20 - Dec. 18, 2020

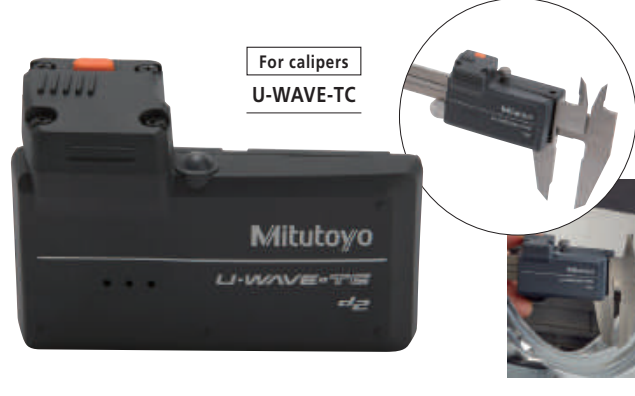


# U-WAVE Wireless Data Transmitters

Mitutoyo

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<sup>fit</sup>**



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.

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**10%  
OFF**

## U-WAVE-Fit (Transmitter)

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

\* 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	<b>\$449.10</b>

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

## Standard U-WAVE Wireless System

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Data Management Software by Mitutoyo

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

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



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

www.mitutoyo.com





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## 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.



- 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



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

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## New 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.



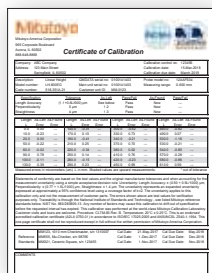
To install U-WAVE-T, separately purchase the optional mounting plate (02AZE990).





# 10% OFF PLUS Complimentary Shipping & Calibration

## 5% OFF Accessories

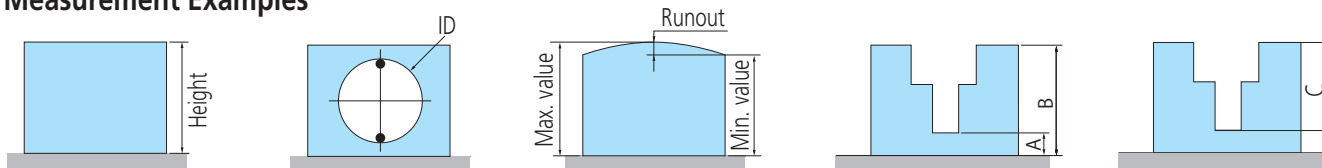


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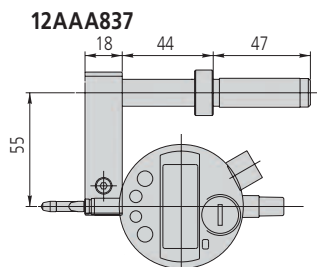
### Measurement Examples



Part No.	Range	Resolution	Remarks	Total Value	Promo
64PKA094BCAL	0 - 14" / 0 - 350mm	0.001mm / 0.0005mm / .00005" / .0001" (selectable)	Pneumatic Flotation System	\$4,212.00	<b>\$3,591.00</b>
64PKA095BCAL	0 - 24" / 0 - 600mm			\$4,790.00	<b>\$4,041.00</b>
64PKA129BCAL	0 - 14" / 0 - 350mm			\$4,712.00	<b>\$4,041.00</b>
64PKA130BCAL	0 - 24" / 0 - 600mm			\$5,290.00	<b>\$4,491.00</b>

### Optional Accessories

Order No.	Description	List	Promo
12AAC072	DEPTH PROBE	\$198.00	<b>\$188.10</b>
12AAA837	INDICATOR HOLDER (ACCEPTS 3/8" STEM)	\$144.00	<b>\$136.80</b>
12AAA793	PROBE EXTENSION HOLDER (3.3" / 85mm)	\$161.00	<b>\$152.95</b>
226118	SHANK WITH M3 THREAD SCREW	\$126.00	<b>\$119.70</b>
957265	20MM DIA. DISK STYLUS FOR LINEAR HEIGHT	\$381.00	<b>\$361.95</b>
957264	14MM DIA. DISK STYLUS FOR LINEAR HEIGHT	\$310.00	<b>\$294.50</b>
12AAF669	10PI BALL CONTACT POINT(COAXIAL)	\$235.00	<b>\$223.25</b>
957261	2MM DIA. BALL STYLUS FOR LINEAR HEIGHT	\$211.00	<b>\$200.45</b>
517-814	GRAPLATE 36X48" GRADE A	\$2,794.00	<b>\$2,654.30</b>
517-964	GRAPLATE STAND 36X48"	\$1,206.00	<b>\$1,145.70</b>
517-808	GRAPLATE 24X36" GRADE A	\$1,457.00	<b>\$1,384.15</b>
517-956	GRAPLATE STAND 24X36"	\$1,023.00	<b>\$971.85</b>
06AFM380D	USB-ITN-D INPUT TOOL DIRECT CABLE	\$197.00	<b>\$187.15</b>
02AZD730G-D	U-WAVE TRANSMITTER W/ CONNECTING CABLE (D)	\$330.00	<b>\$313.50</b>
02AZD810D	U-WAVE-RECEIVER	\$499.00	<b>\$449.10</b>



12AAC072



02AZD730G-D



02AZD810D





# Height Gages



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## High-Performance 2D 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  $(1.1+0.6L/600)\mu\text{m}$  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.
- Measure hole diameters, gap distances, and even 2D measurements such as diagonal center to center distances.
- The origin can be set at the top of a surface plate, centerline, top or bottom surfaces, or peak top or bottom points on radii.

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518-351A-21

518-352A-21

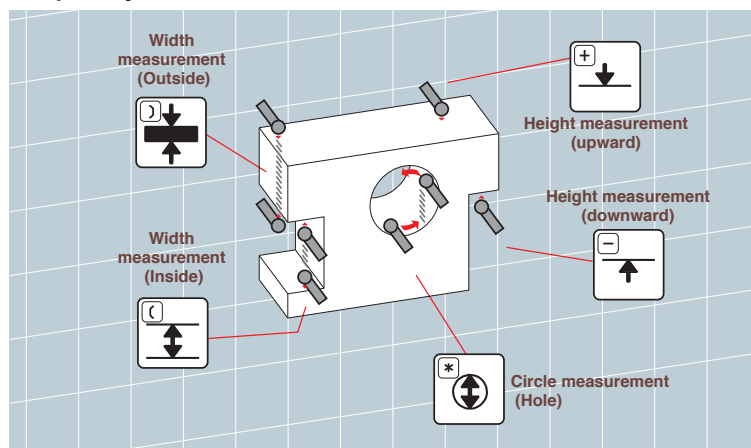


standard

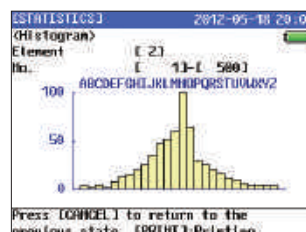
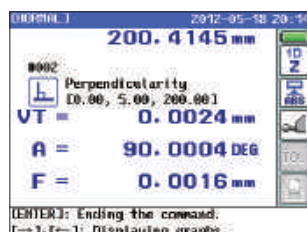
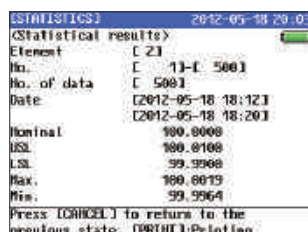


with power grip

## Frequently Used Measurements



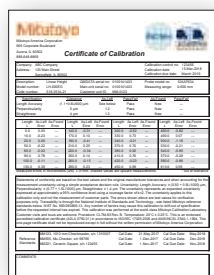
## Screen Display & Printer Output Examples





# 10% OFF PLUS Complimentary Shipping & Calibration

## 5% OFF Accessories



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Order No.	Base No.	Range (Stroke)	Resolution	Remarks	List	Promo
PROMO027	518-351A-21	0 - 977mm (600mm) 0 to 38" (24")	0.0001/0.001/0.01/0.1mm .000001/.00001/.0001/.001"(selectable)	—	\$8,480.00	<b>\$7,632.00</b>
PROMO028	518-352A-21			w/power grip	\$8,990.00	<b>\$8,091.00</b>

### Optional Accessories

Order No.	Description	List	Promo
12AAC072	DEPTH STYLUS FOR LH	\$198.00	<b>\$188.10</b>
12AAC073	TAPER STYLUS FOR LH	\$195.00	<b>\$185.25</b>
12AAA837	INDICATOR HOLDER (ACCEPTS 3/8" STEM)	\$144.00	<b>\$136.80</b>
12AAA793	HOLDER (LONG TYPE)	\$161.00	<b>\$152.95</b>
K650986	STYLI KIT M3 LINEAR HEIGHT	\$500.00	<b>\$475.00</b>
12AAA807	RS-232C CONNECTING CABLE (2M) LH	\$55.95	<b>\$53.15</b>
64AAB532	USB 2.0 RS-232 SERIAL ADAPTER W/LED INDICATORS	\$61.55	<b>\$58.47</b>
12AAA879	SAMPLE WORKPIECE FOR LH-600B	\$311.00	<b>\$295.45</b>
226118	SHANK WITH M3 THREAD SCREW	\$126.00	<b>\$119.70</b>
957265	20MM DIA. DISK STYLUS FOR LINEAR HEIGHT	\$381.00	<b>\$361.95</b>
957264	14MM DIA. DISK STYLUS FOR LINEAR HEIGHT	\$310.00	<b>\$294.50</b>
12AAF669	10PI BALL CONTACT POINT(COAXIAL)	\$235.00	<b>\$223.25</b>
957261	2MM DIA. BALL STYLUS FOR LINEAR HEIGHT	\$211.00	<b>\$200.45</b>
517-714	GRAPLATE 36X48" GRADE AA	\$3,280.00	<b>\$3,116.00</b>
517-964	GRAPLATE STAND 36X48"	\$1,206.00	<b>\$1,145.70</b>
517-708	GRAPLATE 24X36" GRADE AA	\$1,709.00	<b>\$1,623.55</b>
517-956	GRAPLATE STAND 24X36"	\$1,023.00	<b>\$971.85</b>

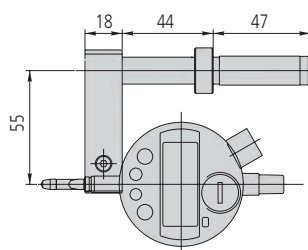
### Linear Height Styli Kit



K650986

Contents	Description	ø S	L
1x Part No. K681867	Adapter block		
1x Part No. K651223	Pin wrench ø 1.2 mm		
1x Part No. K651157	Extension steel M3		20
1x Part No. K651156	Extension steel M3		10
1x Part No. K651172	Disk stylus steel M3	12.7	33
1x Part No. K651151	Stylus steel-ruby M3	4	31
1x Part No. K651148	Stylus steel-ruby M3	3	21
1x Part No. K651147	Stylus steel-ruby M3	2	21
1x Part No. K651146	Stylus steel-ruby M3	1	21

12AAA837



12AAC072





## BULK BUY

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.



### Digimatic Calipers

**10% OFF**

PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULK QTY
<b>B500-171-30</b>	DIGIMATIC CALIPER, 6"/150MM, WITH OUTPUT	\$188.00	<b>\$169.20</b>	25*
<b>B500-196-30</b>	DIGIMATIC CALIPER, 6"/150MM, NO OUTPUT	\$161.00	<b>\$144.90</b>	25*



### Digimatic Micrometers

**15% OFF**

PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULK QTY
<b>B293-180-30</b>	QUANTUMIKE MICROMETER, DIGIMATIC, 0-1", IP65, .00005", W/OUTPUT	\$270.00	<b>\$229.50</b>	40*
<b>B293-185-30</b>	QUANTUMIKE MICROMETER, DIGIMATIC, 0-1", IP65, .00005", NO OUTPUT	\$233.00	<b>\$198.05</b>	40*
<b>B293-340-30</b>	1" RATCHET STOP MICROMETER, IP65, NO OUTPUT	\$193.00	<b>\$164.05</b>	40*
<b>B293-344-30</b>	1" RATCHET THIMBLE MICROMETER, IP65, NO OUTPUT	\$193.00	<b>\$164.05</b>	40*



### Dial Test Indicators

**15% OFF**

PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULK QTY
<b>B513-402-10E</b>	DIAL TEST INDICATOR, BASIC SET, STANDARD, .03 IN, .0005 IN GRAD	\$134.00	<b>\$113.90</b>	50*
<b>B513-403-10E</b>	DIAL TEST INDICATOR, BASIC SET, STANDARD, .008 IN, .0001 IN GRAD	\$174.00	<b>\$147.90</b>	50*

### Dial Indicator

**15% OFF**

PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULK QTY
<b>B24165</b>	DIAL INDICATOR, 1" RANGE, .001" GRADUATIONS	\$123.00	<b>\$104.55</b>	40*





505-742



505-742-56

## Dial Calipers

**15% OFF**

PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULK QTY
<b>B505-742</b>	CALIPER, DIAL, .1"/REV, 0-6", .001"	\$125.00	<b>\$106.25</b>	25*
<b>B505-742-56</b>	CALIPER, DIAL, BLACK DIAL, .1"/REV, 0-6", .001"	\$125.00	<b>\$106.25</b>	25*



543-783B

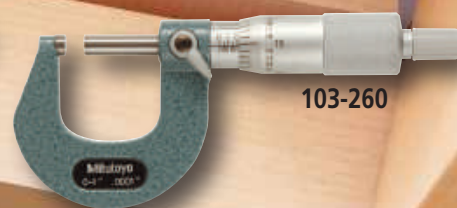
## Digimatic Indicators

**15% OFF**

PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULK QTY
<b>B543-783</b>	DIGIMATIC INDICATOR, ID-S1012EX, .5" RANGE, .0005" RESOLUTION, LUG BACK	\$182.00	<b>\$154.70</b>	20*
<b>B543-783B</b>	DIGIMATIC INDICATOR, ID-S1012EXB, .5" RANGE, .0005" RESOLUTION, FLAT BACK	\$182.00	<b>\$154.70</b>	20*



103-135



103-260

## Mechanical Micrometers

**15% OFF**

PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULK QTY
<b>B103-135</b>	MECHANICAL MICROMETER, 0-1", 0.0001" GRADUATIONS, FRICTION THIMBLE	\$123.00	<b>\$104.55</b>	60*
<b>B103-260</b>	MECHANICAL MICROMETER, 0-1"/.0001" GRADUATIONS, RATCHET STOP	\$122.00	<b>\$103.70</b>	60*



178-561-02A

## Surface Roughness Testers

**10% OFF**

PART NO.	DESCRIPTION	LIST	BULK BUY EACH	BULK QTY
<b>B178-561-02A</b>	SJ-210 IN 4MN (STANDARD DRIVE UNIT)	\$2,430.00	<b>\$2,187.00</b>	5*
<b>B178-563-02A</b>	SJ-210 IN 4MN (R-DRIVE UNIT). RETRACTABLE DRIVE UNIT	\$2,740.00	<b>\$2,466.00</b>	5*





# 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.

### 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.

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

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



264-505A



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**

"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®, MeasurLink® or other SPC programs.

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

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

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



293-130-10

05CZA662

264-016-10

**Package**

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

Prices effective Oct. 20 - Dec. 18, 2020

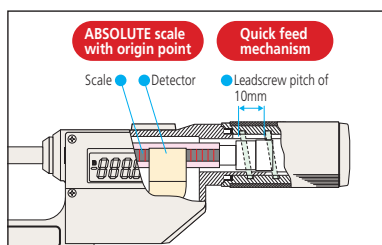


## Quickmikes

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™

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.



Minimum-value hold function ensures measurement value is retained



COOLANT PROOF™ IP65

Order No.	Range	Resolution	Accuracy	Flatness	Parallelism	List	Promo
293-676-20	0 - 1.2"	.00005"/0.001mm	±0.0001"	0.000012"	0.00008"	\$611.00	<b>\$580.45</b>
293-677-20	1 - 2.2"	.00005"/0.001mm	±0.0001"	0.000012"	0.00008"	\$667.00	<b>\$633.65</b>

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

## 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

**10% OFF**

## 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.



COOLANT PROOF™

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

\*with SPC Output

**fit** U-WAVE Fit compatible

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

COMPATIBLE WITH  
**U-WAVE<sup>fit</sup>**



www.mitutoyo.com/qm4x  
VIDEO DEMO

www.mitutoyo.com



## 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



COOLANT PROOF™



www.mitutoyo.com/MDC  
VIDEO DEMO

MeasurLink® ENABLED  
Data Management Software by Mitutoyo

	Order No.	Range	Resolution	Remarks	List	Promo
<b>fit</b>	<b>293-330-30*</b>	0-1" / 0-25.4mm	.00005" / 0.001mm	Ratchet Stop	\$247.00	<b>\$234.65</b>
	<b>293-340-30</b>	0-1" / 0-25.4mm	.00005" / 0.001mm	Ratchet Stop	\$193.00	<b>\$183.35</b>
	<b>293-344-30</b>	0-1" / 0-25.4mm	.00005" / 0.001mm	Ratchet Thimble	\$193.00	<b>\$183.35</b>
	<b>293-349-30</b>	0-1" / 0-25.4mm	.0001" / 0.001mm	Ratchet Thimble, tenths reading	\$193.00	<b>\$183.35</b>
<b>fit</b>	<b>293-331-30*</b>	1-2" / 25.4-50.8mm	.00005" / 0.001mm	Ratchet Stop w/Standard	\$291.00	<b>\$261.90</b>
	<b>293-341-30</b>	1-2" / 25.4-50.8mm	.00005" / 0.001mm	Ratchet Stop w/Standard	\$250.00	<b>\$237.50</b>
	<b>293-345-30</b>	1-2" / 25.4-50.8mm	.00005" / 0.001mm	Ratchet Thimble w/Standard	\$250.00	<b>\$237.50</b>
<b>fit</b>	<b>293-334-30*</b>	0-1" / 0-25.4mm	.00005" / 0.001mm	Ratchet Thimble	\$265.00	<b>\$251.75</b>
<b>fit</b>	<b>293-335-30*</b>	0-1" / 0-25.4mm	.00005" / 0.001mm	Friction Thimble	\$247.00	<b>\$234.65</b>

\*with SPC Output

**fit** U-WAVE Fit compatible

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
	<b>293-831-30</b>	0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	Ratchet Stop	\$155.00	<b>\$147.25</b>
	<b>293-832-30</b>	0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	Friction Thimble	\$165.00	<b>\$156.75</b>



293-831-30

## Spline Micrometer

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

MeasurLink® ENABLED  
Data Management Software by Mitutoyo



331-351-30



	Order No.	Range	Accuracy	Contacts	List	Promo
<b>fit</b>	<b>331-351-30</b>	0 - 1" / 0 - 25.4mm	±.0001"	Ø.118"	\$484.00	<b>\$459.80</b>
<b>fit</b>	<b>331-361-30</b>	0 - 1" / 0 - 25.4mm	±.0001"	Ø.079"	\$484.00	<b>\$459.80</b>

**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® ENABLED  
Data Management Software by Mitutoyo

	Order No.	Range	Accuracy	Min ID	List	Promo
<b>fit</b>	<b>395-371-30<sup>S-S</sup></b>	0 - 1" / 0 - 25.4mm	±.0001"	D: .59"	\$422.00	<b>\$400.90</b>
<b>fit</b>	<b>395-372-30<sup>S-S</sup></b>	1" - 2" / 25.4 - 50.8mm	±.0001"	D: .59"	\$448.00	<b>\$425.60</b>
<b>fit</b>	<b>395-351-30<sup>S-F</sup></b>	0 - 1" / 0 - 25.4mm	±.0001"	D: .59"	\$409.00	<b>\$388.55</b>
<b>fit</b>	<b>395-352-30<sup>S-F</sup></b>	1" - 2" / 25.4 - 50.8mm	±.0001"	D: .59"	\$438.00	<b>\$416.10</b>

S-F: Spherical anvil and flat spindle

S-S: Spherical anvil and spherical spindle

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

**fit** U-WAVE Fit compatible

Prices effective Oct. 20 - Dec. 18, 2020



## 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.



342-351-30

Digital

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo



	Order No.	Range	Accuracy	Point	List	Promo
<b>fit</b>	342-351-30	0 - 1" / 0 - 25.4mm	±.0001"	15°	\$476.00	<b>\$452.20</b>
<b>fit</b>	342-361-30	0 - 25.4mm	±.0001"	30°	\$476.00	<b>\$452.20</b>
<b>fit</b>	342-352-30	1" - 2" / 25.4 - 50.8mm	±.0001"	15°	\$530.00	<b>\$503.50</b>
<b>fit</b>	342-362-30	25.4 - 50.8mm	±.0001"	30°	\$519.00	<b>\$493.05</b>

**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.



**MeasurLink** ENABLED  
Data Management Software by Mitutoyo



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

**fit** U-WAVE Fit compatible

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.
- > IP65 water/dust protection
- > With SPC output.



Type B



Type C



Type D

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo



395-363-30

Anvil Type C



Digital

	Order No.	Range	Resolution	Accuracy	Type	List	Promo
<b>fit</b>	395-362-30	0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	±.00015"	B	\$451.00	<b>\$428.45</b>
<b>fit</b>	395-363-30	0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	±.00015"	C	\$465.00	<b>\$441.75</b>
<b>fit</b>	395-364-30				D	\$465.00	<b>\$441.75</b>

**fit** 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.



See Digimatic indicators made specifically for bore gages (page 18)

**10% OFF**



511-751

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



## Coolant-Proof Calipers

- > Sealed housing is IP-67 rated, meaning it's immune to the coolants, dirt, grit and chips found in many manufacturing environments.
- > Easy to use - no need to wipe or clean the scale.
- > .0005"/0.01mm resolution with  $\pm 0.001$ " accuracy.
- > Automatic power-on/off.
- > Certificate of inspection provided.



**UP TO 10% OFF**

IP67

SPC

ABSOLUTE  
Absolute System Powered by MITUTOYO

COMPATIBLE WITH  
**U-WAVE<sup>fit</sup>**

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

Order No.	Range	List	Promo
<b>Non-Output Style</b>			
500-752-20	0-6"/0-150mm	\$215.00	<b>\$204.25</b>
500-753-20	0-8"/0-200mm	\$288.00	<b>\$273.60</b>
500-754-20*	0-12"/0-300mm	\$499.00	<b>\$474.05</b>
<b>SPC Output Style</b>			
<b>fit</b> 500-762-20	0-6"/0-150mm	\$255.00	<b>\$242.25</b>
<b>fit</b> 500-763-20	0-8"/0-200mm	\$321.00	<b>\$288.90</b>
<b>fit</b> 500-764-20*	0-12"/0-300mm	\$553.00	<b>\$525.35</b>

\*  $\pm 0.0015$ " accuracy **fit** U-WAVE Fit compatible SPC cable - 1m: **05CZA624** 2m: **05CZA625**



**COOLANT PROOF<sup>™</sup> IP67**

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



552-314-10

IP66

SPC

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

Order No.	Range	Accuracy	Resolution	List	Promo
552-312-10	0(.5")-18"	$\pm 0.002$ "	.0005"/0.01mm	\$975.00	<b>\$926.25</b>
552-313-10	0(.5")-24"	$\pm 0.002$ "	.0005"/0.01mm	\$1,090.00	<b>\$1,035.50</b>
552-314-10	0(1")-40"	$\pm 0.002$ "	.0005"/0.01mm	\$1,950.00	<b>\$1,852.50</b>
552-315-10	0(1")-60"	$\pm 0.004$ "	.0005"/0.01mm	\$2,330.00	<b>\$2,213.50</b>
552-316-10	0(1")-80"	$\pm 0.005$ "	.0005"/0.01mm	\$3,650.00	<b>\$3,467.50</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"	\$4,520.00	<b>\$2,999.00</b>

Prices effective Oct. 20 - Dec. 18, 2020

### 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

UP TO 10% OFF

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



www.mitutoyo.com/aoscd  
VIDEO DEMO

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo



500-171-30

**SPC**

**ABSOLUTE**  
Absolute System Powered by MITUTOYO

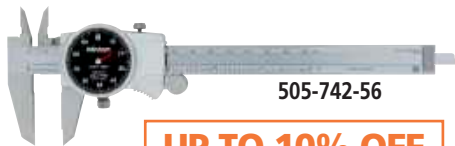
**ABSOLUTE AOS**  
**DIGIMATIC**  
AOS: Advanced Onsite Sensor

Order No.	Range	Remarks	List	Promo
<b>No SPC Output Style</b>				
500-195-30	0-4"/0-100mm	.075" round depth bar	\$148.00	<b>\$140.60</b>
500-196-30	0-6"/0-150mm		\$161.00	<b>\$152.95</b>
500-197-30	0-8"/0-200mm		\$231.00	<b>\$219.45</b>
500-193-30	0-12"/0-300mm		\$464.00	<b>\$440.80</b>
<b>With SPC Output Style</b>				
<b>fit</b> 500-170-30	0-4"/0-100mm	.075" round depth bar	\$177.00	<b>\$168.15</b>
<b>fit</b> 500-171-30	0-6"/0-150mm		\$188.00	<b>\$178.60</b>
<b>fit</b> 500-172-30	0-8"/0-200mm		\$248.00	<b>\$223.20</b>
<b>fit</b> 500-173-30	0-12"/0-300mm		\$541.00	<b>\$513.95</b>
500-505-10	0-18"/0-450mm	without thumb roller	\$844.00	<b>\$801.80</b>
500-506-10	0-24"/0-600mm	without thumb roller	\$927.00	<b>\$880.65</b>
500-507-10	0-40"/0-1000mm	without thumb roller	\$1,790.00	<b>\$1,700.50</b>

**fit** U-WAVE Fit compatible

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

## Dial Caliper



505-742-56

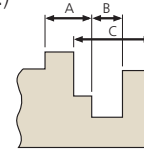
UP TO 10% OFF

- > 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	<b>\$118.75</b>
505-738	0-6" .100"/rev	carbide-tipped jaws	\$213.00	<b>\$202.35</b>
505-740	0-6" .200"/rev		\$114.00	<b>\$108.30</b>
505-743	0-8" .100"/rev		\$182.00	<b>\$163.80</b>
505-746	0-12" .100/rev		\$289.00	<b>\$260.10</b>
505-749	0-12" .200/rev		\$269.00	<b>\$255.55</b>
505-742-56	0-6" .100"/rev	black dial face	\$125.00	<b>\$112.50</b>

## 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.



573-701-20

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

**IP67**

**SPC**

**ABSOLUTE**  
Absolute System Powered by MITUTOYO

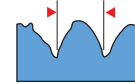
Order No.	Range	Accuracy	Resolution	List	Promo
<b>fit</b> 573-701-20	0-6" / 0-150mm	±.001"	.0005" / 0.01mm	\$478.00	<b>\$454.10</b>
<b>fit</b> 573-702-20	0-8" / 0-200mm	±.001"	.0005" / 0.01mm	\$548.00	<b>\$520.60</b>
<b>fit</b> 573-704	0-12" / 0-300mm	±.0015"	.0005" / 0.01mm	\$735.00	<b>\$698.25</b>

**fit** U-WAVE Fit compatible

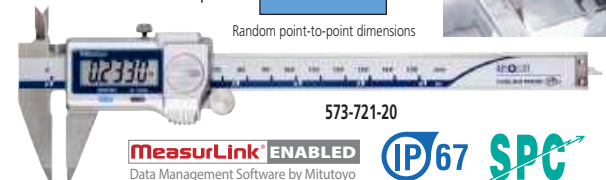
SPC cable with data switch - 1m: **05CZA624** 2m: **05CZA625**

## Point Caliper

- > Narrow tip jaws fit into very small grooves and tracks, making many previously difficult outside measurements easier to obtain.
- > With depth bar.
- > With SPC data output.



Random point-to-point dimensions



573-721-20

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

**IP67**

**SPC**

**ABSOLUTE**  
Absolute System Powered by MITUTOYO

Order No.	Range	Accuracy	Resolution	List	Promo
<b>fit</b> 573-721-20	0-6" / 0-150mm	±.001"	.0005" / 0.01mm	\$419.00	<b>\$398.05</b>
<b>fit</b> 573-725-20*	0-6" / 0-150mm	±.001"	.0005" / 0.01mm	\$520.00	<b>\$494.00</b>

\* Extended tips **fit** 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.



573-291-30

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

**SPC**

Order No.	Range	Accuracy	Resolution	List	Promo
<b>fit</b> 573-291-30	0-7" / 0-180mm	±.002"	.0005" / 0.01mm	\$845.00	<b>\$802.75</b>

**fit** U-WAVE Fit compatible

www.mitutoyo.com



## Digimatic Caliper with Nib-Style Jaws

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



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

Order No.	Range*	Accuracy	Resolution	List	Promo
<b>fit</b> 550-311-20	0 (.4") - 8" / 0 (10) - 200mm	±.001"	.0005" / 0.01mm	\$541.00	<b>\$513.95</b>
<b>fit</b> 550-341-10	0 (.4") - 12" / 0 (10) - 300mm	±.0015"	.0005" / 0.01mm	\$786.00	<b>\$746.70</b>
550-223-10**	0 (.5") - 18" / 0 (20) - 450mm	±.002"	.0005" / 0.01mm	\$985.00	<b>\$935.75</b>
550-225-10**	0 (.5") - 24" / 0 (20) - 600mm	±.002"	.0005" / 0.01mm	\$1,100.00	<b>\$1,045.00</b>
550-227-10**	0 (1") - 40" / 0 (20) - 1000mm	±.003"	.0005" / 0.01mm	\$1,970.00	<b>\$1,871.50</b>

\*( ): Minimum dimension in ID measurement \*\*Models are not IP67 rated **fit** U-WAVE Fit compatible

## Digimatic Caliper with Nib and Standard Jaws

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



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

Order No.	Range*	Accuracy	Resolution	List	Promo
<b>fit</b> 551-311-20	0 (.4") - 8" / 0 (10) - 200mm	±.001"	.0005" / 0.01mm	\$596.00	<b>\$566.20</b>
<b>fit</b> 551-341-10	0 (.4") - 12" / 0 (10) - 300mm	±.002"	.0005" / 0.01mm	\$854.00	<b>\$811.30</b>
551-224-10**	0 (.5") - 20" / 0 (20) - 500mm	±.0025"	.0005" / 0.01mm	\$1,260.00	<b>\$1,197.00</b>
551-226-10**	0 (.5") - 30" / 0 (20) - 750mm	±.0025"	.0005" / 0.01mm	\$2,040.00	<b>\$1,938.00</b>

\*( ): Minimum dimension in ID measurement  
\*\* Models are not IP67 rated **fit** U-WAVE Fit compatible

## Inside Calipers Knife-Edge/Inside Groove/Point Jaw

- > Special ID jaw calipers are designed for difficult-to-measure areas, such as ID grooves or recessed areas.
- > With SPC data output.



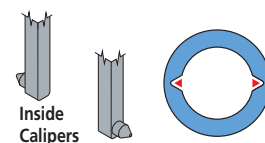
### Knife edge



### Inside groove



### Point jaw



Order No.	Range	Accuracy	List	Promo
573-742-20	.4" - 8" / 10-200mm	±.002"	\$937.00	<b>\$890.15</b>
<b>fit</b> 573-745-20	.4" - 6" / 10-150mm	±.002"	\$749.00	<b>\$711.55</b>
<b>fit</b> 573-746-20	.8" - 6" / 20-150mm	±.0015"	\$909.00	<b>\$863.55</b>

**fit** U-WAVE Fit compatible

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



## Dial Test Indicators



Standard

### 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.
- Resilient crystal with high resistance to glare, scratches and impact.

UP TO 15% 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	\$192.00	<b>\$172.80</b>	<b>NEW</b>
513-407-10T	.008"	.00005"	Full	White	\$225.00	<b>\$202.50</b>	<b>NEW</b>
513-401-10E	.14"	0.001mm	Basic	Yellow	\$228.00	<b>\$205.20</b>	
513-402-10E	.03"	.0005"	Basic	White	\$134.00	<b>\$120.60</b>	
513-402-10T	.03"	.0005"	Full	White	\$159.00	<b>\$143.10</b>	
513-403-10E	.008"	.0001"	Basic	White	\$174.00	<b>\$156.60</b>	
513-403-10T	.008"	.0001"	Full	White	\$204.00	<b>\$183.60</b>	
513-404-10E	0.8mm	0.01mm	Basic	Yellow	\$136.00	<b>\$122.40</b>	
513-404-10A	0.8mm	0.01mm	Plus	Yellow	\$149.00	<b>\$134.10</b>	
513-404-10T	0.8mm	0.01mm	Full	Yellow	\$160.00	<b>\$144.00</b>	
513-405-10E	0.2mm	0.002mm	Basic	Yellow	\$150.00	<b>\$135.00</b>	
513-405-10T	0.2mm	0.002mm	Full	Yellow	\$197.00	<b>\$177.30</b>	
513-406-10E	.03"/0.7mm	.0005"/0.01mm	Basic	White/Yellow	\$157.00	<b>\$141.30</b>	Dual dial
513-406-10T	.03"/0.7mm	.0005"/0.01mm	Full	White/Yellow	\$174.00	<b>\$156.60</b>	Dual dial
513-409-10E	0.2mm/.0076"	0.002mm/.0001"	Basic	Yellow/White	\$202.00	<b>\$181.80</b>	Dual dial
513-409-10T	0.2mm/.0076"	0.002mm/.0001"	Full	Yellow/White	\$205.00	<b>\$184.50</b>	Dual dial
513-412-10E	.03"	.0005"	Basic	White	\$192.00	<b>\$172.80</b>	
513-412-10T	.03"	.0005"	Full	White	\$221.00	<b>\$198.90</b>	
513-415-10E	1.0mm	0.01mm	Basic	Yellow	\$144.00	<b>\$129.60</b>	Long stylus
513-415-10H	1.0mm	0.01mm	Basic	Yellow	\$158.00	<b>\$142.20</b>	Long stylus
<b>Ruby Tip</b>							
513-472-10E	.03"	.0005"	Basic	White	\$149.00	<b>\$134.10</b>	
513-479-10E	.03"	.0005"	Basic	White	\$158.00	<b>\$142.20</b>	Long stylus
<b>Standard (20° tilted face)</b>							
513-442-10A	.06"	.0005"	Basic	White	\$181.00	<b>\$153.85</b>	
513-442-10T	.06"	.0005"	Full	White	\$205.00	<b>\$184.50</b>	
513-442-16A	.06"	.0005"	Basic	Black	\$181.00	<b>\$162.90</b>	
513-442-16T	.06"	.0005"	Full	Black	\$205.00	<b>\$184.50</b>	
513-446-16A	.06"	.0005"	Basic	Black	\$242.00	<b>\$217.80</b>	Long stylus
513-446-16T	.06"	.0005"	Full	Black	\$273.00	<b>\$245.70</b>	Long stylus
513-446-10A	.06"	.0005"	Basic	White	\$242.00	<b>\$217.80</b>	Long stylus
513-446-10T	.06"	.0005"	Full	White	\$273.00	<b>\$245.70</b>	Long stylus
513-443-10A	.016"	.0001"	Basic	White	\$228.00	<b>\$205.20</b>	
513-443-10T	.016"	.0001"	Full	White	\$259.00	<b>\$233.10</b>	
<b>Vertical: dial is on the top of the frame</b>							
513-452-10E	.03"	.0005"	Basic	White	\$174.00	<b>\$156.60</b>	
513-452-10T	.03"	.0005"	Full	White	\$192.00	<b>\$172.80</b>	
513-453-10E	.008"	.0001"	Basic	White	\$207.00	<b>\$186.30</b>	
<b>Parallel: dial is on the side of the frame</b>							
513-485-10E	0.2mm	0.002mm	Basic	Yellow	\$221.00	<b>\$198.90</b>	

## Set Configuration

**Full set**

Swivel clamp (900322, for .157" DIA., 3/8" DIA., dovetail)

Inch holding bar (L: 4") (900306)

**T set**

**Plus set**

Contact point, .039" DIA. carbide

Contact point, .118" DIA. carbide

Stem, .157" DIA. (21CAB106)

**A set**

**Basic set**

Contact point, .079" DIA. (Carbide)

Indicator

Knurled clamp ring

Stem, 3/8" DIA.

**E set**

**Metric**

**Full set**

Swivel clamp (900321, for ø4mm, ø8mm, dovetail)

Metric holding bar (L: 100mm) (900209)

**T set**

**Plus set**

Contact point, ø1mm carbide

Contact point, ø3mm carbide

Stem, ø4mm (21CAB106)

**A set**

**C set**  
(ø 6 Stem)

**Basic set**

Contact point, ø2mm (Carbide)

Indicator

Knurled clamp ring

Stem, ø8mm (Set No. 902804)

**E set**

**H set**  
(ø 6 Stem)



## 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**



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www.mitutoyo.com/idccal  
VIDEO DEMO

**10% OFF**



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

Order No.	Resolution	Range	Accuracy	Measuring Force	List	Promo
<b>543-342B</b>	.00005/.0001/.0005"	.5"/12.7mm	±.00010"/0.003mm	1.5N or less	\$458.00	<b>\$412.20</b>
<b>543-592B</b>	(0.001/0.01mm)	1"/25.4mm	±.00010"/0.003mm	1.8N or less	\$614.00	<b>\$552.60</b>
<b>543-597B</b>	Selectable	2"/50.8mm	±.00025"/0.006mm	2.3N or less	\$770.00	<b>\$693.00</b>

SPC cable – 1m: **905338** 2m: **905409**

**SPC**

**ABSOLUTE**

**10% OFF**



## 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.

- 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**

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

SPC cable – 1m: **905338** 2m: **905409**

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Data Management Software by Mitutoyo

**SPC**

**ABSOLUTE**

Installed on optional bore gage probe (page 13)



## 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 determine and upload the proper coefficients for calculation. (optional) **21EZA313**

**UP TO 15% OFF**

Order No.	Resolution	Range	Accuracy	Remarks	List	Promo
<b>Stem dia. 3/8", #4-48 UNF Thread</b>						
<b>543-302</b>	.00005/.0001/.0005"	.5"/12.7mm	±.00010"/0.003mm	w/lug	\$458.00	<b>\$389.30</b>
	0.001/0.01mm					
<b>543-302B</b>	Selectable	.5"/12.7mm	±.00010"/0.003mm	Flat-back	\$458.00	<b>\$389.30</b>

SPC cable – 1m: **905338** 2m: **905409**

**SPC**

**ABSOLUTE**

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Prices effective Oct. 20 - Dec. 18, 2020



## 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.

ABSOLUTE<sup>®</sup>  
SPC

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



Order No.	Resolution	Range	Accuracy	Measuring force	Remarks	List	Promo
<b>Stem dia. 3/8", #4-48 UNF Thread</b>							
<b>543-792</b>	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$281.00	<b>\$266.95</b>
<b>543-796</b>	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ lug back	\$310.00	<b>\$294.50</b>
<b>543-793</b>	.0001"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$281.00	<b>\$266.95</b>
<b>543-783</b>	.0005"/0.01mm	.5" / 12.7mm	±.0010"	1.5N or less	w/ lug back	\$182.00	<b>\$172.90</b>
<b>543-792B</b>	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ flat-back	\$281.00	<b>\$266.95</b>
<b>543-796B</b>	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ flat-back	\$310.00	<b>\$294.50</b>
<b>543-793B</b>	.0001"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ flat-back	\$281.00	<b>\$266.95</b>
<b>543-783B</b>	.0005"/0.01mm	.5" / 12.7mm	±.0010"	1.5N or less	w/ flat-back	\$182.00	<b>\$172.90</b>
<b>Stem ø 8mm, M2.5 x 0.45 Thread</b>							
<b>543-791</b>	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$290.00	<b>\$275.50</b>
<b>543-795</b>	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ lug back	\$319.00	<b>\$303.05</b>
<b>543-782</b>	.0005"/0.01mm	.5" / 12.7mm	±.001"	1.5N or less	w/ lug back	\$182.00	<b>\$172.90</b>
<b>543-791B</b>	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ flat-back	\$290.00	<b>\$275.50</b>
<b>543-795B</b>	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ flat-back	\$319.00	<b>\$303.05</b>
<b>543-782B</b>	.0005"/0.01mm	.5" / 12.7mm	±.001"	1.5N or less	w/ flat-back	\$182.00	<b>\$172.90</b>

SPC cable – 1m: **905338** 2m: **905409**

## 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.
- 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).

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

UP TO 10% OFF



Order No.	Range	Remarks	List	Promo
<b>.0005"/0.01mm Resolution</b>				
<b>543-402</b>	.500"/12.7mm	lug back	\$319.00	<b>\$303.05</b>
<b>543-402B</b>	.500"/12.7mm	flat back	\$319.00	<b>\$287.10</b>
<b>543-476B</b>	1"/25mm	flat back	\$468.00	<b>\$444.60</b>
<b>543-496B</b>	2"/50mm	flat back	\$615.00	<b>\$584.25</b>
<b>.00005"/.0001"/.0005"/0.001mm/0.01mm selectable resolutions</b>				
<b>543-392</b>	.500"/12.7mm	lug back	\$437.00	<b>\$415.15</b>
<b>543-392B</b>	.500"/12.7mm	flat back	\$437.00	<b>\$415.15</b>
<b>543-472B</b>	1"/25mm	flat back	\$585.00	<b>\$555.75</b>
<b>543-492B</b>	2"/50mm	flat back	\$734.00	<b>\$697.30</b>

SPC cable – 1m: **905338** 2m: **905409**

SPC ABSOLUTE<sup>®</sup>

Now with multiplier function  $f(x)=Ax$   
(other models available with  $Ax+B+Cx-1$   
function; see page 13)



## 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	\$909.00	<b>\$818.10</b>
543-564A		2.4" / 60.9mm	ID-H560E	0.0025mm	\$1,080.00	<b>\$972.00</b>

SPC cable – 1m: 936937 2m: 965014

**10%  
OFF**

21EZA099  
Remote controller  
(optional)



543-564A



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## 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.

► An analog bar indicator has been integrated to handle upper/lower limit approaching and zero approaching. It enhances the ease of operation in the same manner as a dial indicator. The display range of the analog bar can be changed.



**10%  
OFF**



543-552A



543-558A



**ABSOLUTE**

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

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

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.

**10%  
OFF**



575-123

**ABSOLUTE**  
**SPC**

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

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	<b>\$180.90</b>

SPC cable – 1m: 905338 2m: 905409



## 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.

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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
<b>568-461</b>	0.275" - 0.350"	±5μm ±0.00025 in	100mm (952322)	\$1,450.00	<b>\$1,160.00</b>
<b>568-462</b>	0.350" - 0.425"			\$1,450.00	<b>\$1,160.00</b>
<b>568-463</b>	0.425" - 0.500"			\$1,450.00	<b>\$1,160.00</b>
<b>568-464</b>	0.50" - 0.65"	±5μm ±0.00025 in	150mm (952621)	\$1,480.00	<b>\$1,184.00</b>
<b>568-465</b>	0.65" - 0.80"			\$1,480.00	<b>\$1,184.00</b>
<b>568-466</b>	0.8" - 1.0"			\$1,480.00	<b>\$1,184.00</b>
<b>568-467</b>	1.0" - 1.2"	±6μm ±0.0003 in	150mm (952622)	\$1,530.00	<b>\$1,224.00</b>
<b>568-468</b>	1.2" - 1.6"			\$1,700.00	<b>\$1,360.00</b>
<b>568-469</b>	1.6" - 2.0"			\$1,700.00	<b>\$1,360.00</b>
<b>568-470</b>	2.0" - 2.5"		150mm (952623)	\$1,660.00	<b>\$1,328.00</b>
<b>568-471</b>	2.5" - 3.0"			\$1,720.00	<b>\$1,376.00</b>
<b>568-472</b>	3.0" - 3.5"			\$1,750.00	<b>\$1,400.00</b>
<b>568-473</b>	3.5" - 4.0"			\$1,750.00	<b>\$1,400.00</b>
<b>568-474</b>	4.0" - 4.5"			\$1,830.00	<b>\$1,464.00</b>
<b>568-475</b>	4.5" - 5.0"			\$1,930.00	<b>\$1,544.00</b>

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
<b>568-965</b>	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	<b>\$4,008.00</b>
<b>568-966</b>	0.5" - 1"	0.5-0.65", 0.65-0.8", 0.8-1"	0.65" DIA., 0.8" DIA.	\$5,230.00	<b>\$4,184.00</b>
<b>568-967</b>	1" - 2"	1-1.2", 1.2-1.6", 1.6-2"	1.2" DIA., 1.6" DIA.	\$5,460.00	<b>\$4,368.00</b>
<b>568-968</b>	2" - 3"	2-2.5", 2.5-3"	2.5" DIA.	\$3,910.00	<b>\$3,128.00</b>
<b>568-969</b>	3" - 4"	3-3.5", 3.5-4"	3.5" DIA.	\$4,340.00	<b>\$3,472.00</b>

### Interchangeable-Head Sets

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

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

**SAVE  
20%**



### 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)





## 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	<b>\$1,200.00</b>
368-022	Holtest, 0.1" - 0.12"	\$1,500.00	<b>\$1,200.00</b>
368-023	Holtest, 0.12" - 0.16"	\$1,210.00	<b>\$968.00</b>
368-024	Holtest, 0.16" - 0.2"	\$1,210.00	<b>\$968.00</b>
368-025	Holtest, 0.2" - 0.24"	\$1,210.00	<b>\$968.00</b>
368-026	Holtest, 0.24" - 0.28"	\$1,210.00	<b>\$968.00</b>
368-261	Holtest, 0.275" - 0.35"	\$599.00	<b>\$479.20</b>
368-262	Holtest, 0.35" - 0.425"	\$599.00	<b>\$479.20</b>
368-263	Holtest, 0.425" - 0.5"	\$599.00	<b>\$479.20</b>
368-264	Holtest, 0.5" - 0.65"	\$621.00	<b>\$496.80</b>
368-265	Holtest, 0.65" - 0.8"	\$621.00	<b>\$496.80</b>
368-266	Holtest, 0.8" - 1.0"	\$645.00	<b>\$516.00</b>
368-267	Holtest, 1.0" - 1.2"	\$645.00	<b>\$516.00</b>
368-268	Holtest, 1.2" - 1.6"	\$806.00	<b>\$644.80</b>
368-269	Holtest, 1.6" - 2.0"	\$850.00	<b>\$680.00</b>
368-270	Holtest, 2.0" - 2.5"	\$855.00	<b>\$684.00</b>
368-271	Holtest, 2.5" - 3.0"	\$928.00	<b>\$742.40</b>
368-272	Holtest, 3.0" - 3.5"	\$953.00	<b>\$762.40</b>
368-273	Holtest, 3.5" - 4.0"	\$997.00	<b>\$797.60</b>
368-274	Holtest, 4.0" - 5.0"	\$1,280.00	<b>\$1,024.00</b>
368-275	Holtest, 5.0" - 6.0"	\$1,450.00	<b>\$1,160.00</b>
368-276	Holtest, 6.0" - 7.0"	\$1,490.00	<b>\$1,192.00</b>
368-277	Holtest, 7.0" - 8.0"	\$1,540.00	<b>\$1,232.00</b>
368-278	Holtest, 8.0" - 9.0"	\$1,750.00	<b>\$1,400.00</b>
368-279	Holtest, 9.0" - 10"	\$1,960.00	<b>\$1,568.00</b>
368-280	Holtest, 10" - 11"	\$1,980.00	<b>\$1,584.00</b>
368-281	Holtest, 11" - 12"	\$2,030.00	<b>\$1,624.00</b>

Mechanical Holtests – Complete Unit Sets			
368-916	Holtest, Set, 0.275" - 0.5" *	\$2,210.00	<b>\$1,768.00</b>
368-917	Holtest, Set, 0.5" - 0.8" *	\$1,490.00	<b>\$1,192.00</b>
368-918	Holtest, Set, 0.8" - 2.0" *	\$3,410.00	<b>\$2,728.00</b>
368-919	Holtest, Set, 2.0" - 4.0" *	\$4,860.00	<b>\$3,888.00</b>
368-920	Holtest, Set, 4.0" - 8.0" *	\$7,440.00	<b>\$5,952.00</b>
368-926	Holtest, 2pc Set, .08" - .12" *	\$3,190.00	<b>\$2,552.00</b>
368-927	Holtest, 4pc Set, .12" - .28" *	\$5,090.00	<b>\$4,072.00</b>
368-995	HOLTEST, SET, TYPE II, R, 0.5 - .8"	\$1,360.00	<b>\$1,088.00</b>
368-996	HOLTEST, SET, TYPE II, R, 0.8 - 2"	\$3,120.00	<b>\$2,496.00</b>
368-997	HOLTEST, SET, TYPE II, R, 2 - 4"	\$4,390.00	<b>\$3,512.00</b>
368-998	HOLTEST, SET, TYPE II, R, 4 - 8"	\$6,840.00	<b>\$5,472.00</b>

## Holtest



## Holtest Type II

Two-point contact type

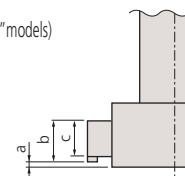


**20% OFF**



## 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)



## Measuring Deep Holes

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

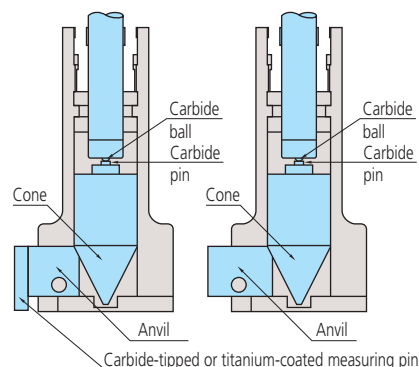


TiN coated contact points



## 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

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



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

**20%  
OFF**

**IP 65**

### Measuring Deep Holes

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



www.mitutoyo.com/dholtest  
VIDEO DEMO



Complete-Unit Set



Interchangeable-Head Set



## Digimatic Height Gages

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

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

**20% OFF**

192-670-10



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

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## Surftest SJ-210 Packages

- Large color LCD display
- Easy to use buttons for quick operations
- Displays measurement results, evaluation curves and waveform
- Supports global industry standards
- Password protect function prevents unintended operations
- 16 languages supported



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Data Management Software by Mitutoyo



178-561-02A

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



178-390



Order No	Description	List	Promo
64PKA227	Data Collection Package	\$3,259.00	<b>\$2,760.00</b>
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		



02AZD730G



02AZD810D



02AZD790D

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



12AAA233



192-150



Prices effective Oct. 20 through Dec. 18, 2020





## 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"

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

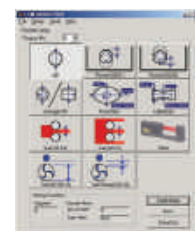
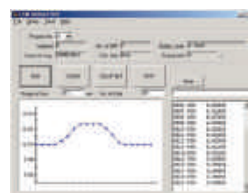


544-116-1A

Order No	Range	Resolution	List	Promo
544-116-1A	.020" - 2.36"/0.5mm - 60mm	.000002" - .005"/0.00005 - 0.1mm	\$8,940.00	<b>\$8,046.00</b>

**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.



**FREE  
LSM 6200  
Display!**



**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	<b>\$7,090.00</b>
64PKA118	LSM-501S	.002" - .4"	0.05~10mm	±0.04μm	±0.5μm <sup>†</sup>	3,200 scans/sec	\$9,330.00	<b>\$6,050.00</b>
64PKA119	LSM-503S	.012" - 1.18"	0.3~30mm	±0.11μm	±1.0μm <sup>†</sup>	3,200 scans/sec	\$10,110.00	<b>\$6,830.00</b>
64PKA120	LSM-506S	.04" - 2.36"	1~60mm	±0.36μm	±3μm <sup>†</sup>	3,200 scans/sec	\$11,480.00	<b>\$8,200.00</b>
64PKA121	LSM-512S	.04" - 4.72"	1~120mm	±0.85μm	±6μm <sup>†</sup>	3,200 scans/sec	\$17,680.00	<b>\$14,400.00</b>
64PKA122	LSM-516S	.04" - 6.30"	1~160mm	±1.4μm	±7μm <sup>†</sup>	3,200 scans/sec	\$28,480.00	<b>\$25,200.00</b>

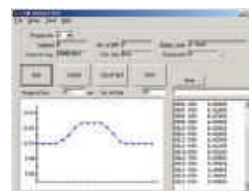
<sup>†</sup> Accuracy over entire range. Higher accuracies are possible over smaller ranges.

**MeasurLink** 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.





## 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.



**MeasurLink** ENABLED  
Data Management Software by Mitutoyo



**HR-530**  
(810-237)

Order No.	810-237	
Model	HR-530	
Hardness testing methods	Rockwell/Rockwell Superficial/Brinell/Plastics hardness	
Initial test force (N)	29.42N (3kgf), 98.07N (10kgf)	
Test force (N)	Rockwell Superficial	147.1N (15kgf), 294.2N (30kgf), 441.3N (45kgf)
	Rockwell	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), 306.5 (31.25kgf), 612.9 (62.5kgf), 980.7 (100kgf), 1226 (125kgf), 1839 (187.5kgf)
External data output	RS-232C, digimatic, USB2.0	
External dimensions	Main unit	9.84" x 26.38" x 23.82" (250(W)x667(D)x621(H) mm) 11.8" x 26.2" x 30.1" (300(W)x667(D)x766(H) mm)
	Touch-panel display	191(W)x147(D)x71(H) mm
Mass	Approx. 60 kg	
List	\$13,500.00	
Promo	\$12,825.00	

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

## 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



**Compact Digital**  
811-336-10

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Data Management Software by Mitutoyo



Order No	Model	Scale	Display	Graduation	Range	Indenter	List	Promo
811-335-10	HH-335	Shore A	Analog	1.0	10~90	Blunt Taper	\$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.

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

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







## MF Measuring Microscopes

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

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

**10% OFF All MF & MF-U MICROSCOPES**



**MeasurLink** ENABLED  
Data Management Software by Mitutoyo



176-861-10

### Sample Package

Order No	Description	List	Promo
<b>64PKA092A</b>	<b>MF-A1010D Package</b>		
176-861-10	MF-A1010D	\$18,960.00	<b>\$17,064.00</b>
176-445A	LED Illumination unit (MF)		
176-393	Binocular Tube		

## TM Toolmakers' Microscopes



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



Conventional illumination



Newly designed LED illumination

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

**10% OFF**

**TM-A505B  
176-820A**



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
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
	Usable area of the stage glass	3.8" x 3.8" / 96x96mm
	Maximum stage glass loading	11 lbs. / 5kg
Linear measurement method		Micrometer heads included
<b>List</b>		\$5,590.00
<b>Promo</b>		<b>\$5,031.00</b>



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

Order No.	Description	List	Promo
377-974A	MSM-414TL Stereo Microscope	\$1,380.00	\$1,311.00
377-481	C-mount Video Adapter for MSM-414TL	\$53.85	
64AAB526	Moticam 1080 Digital Camera w/ software, 2.0MP, HDMI/USB output	\$1,250.00	



Camera with software for digital viewing



## Mitutoyo's Digital Readout Packages

Mounting Hardware Included on all machine retrofit packages

### 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)



SAVE  
**\$200**  
PER PACKAGE

**MeasurLink** ENABLED  
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
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.





## Digimatic Quill Kit

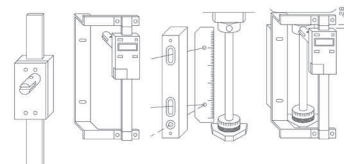
### Easy Installation, Fits Most Vertical Knee Mills

- 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.

**MeasurLink<sup>1</sup> ENABLED**  
Data Management Software by Mitutoyo



Order No.	Description	List	Promo
<b>053906B</b>	Digimatic Quill Kit complete with brackets & scale for Bridgeport Type machines.	\$310.00	<b>\$294.50</b>



The Mitutoyo Quill Kit mounted on a vertical mill.

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



## ABSOLUTE Digimatic Scale Units

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



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

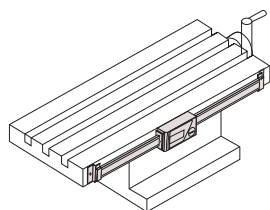
Order No	Model	Range	Accuracy	Resolution	Type	List	Promo
<b>572-210-30</b>	SD-4"D	0-4" / 0-100mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal single-function	\$235.00	<b>\$223.25</b>
<b>572-211-30</b>	SD-6"D	0-6" / 0-150mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal single-function	\$249.00	<b>\$236.55</b>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



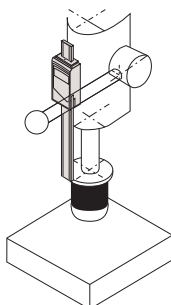
**MeasurLink<sup>1</sup> ENABLED**  
Data Management Software by Mitutoyo

## Applications

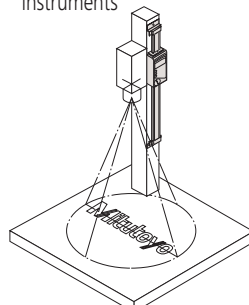
Machine table position



Drilling machine stroke position

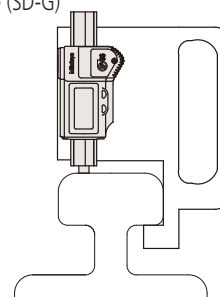


Focus setting on optical instruments

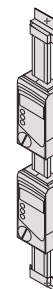


## Special Applications

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



Detector head mechanism





## 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.



PJ-A3010F-200

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Order No.	Description	XY Travel	List
302-701A	PJ-A3010F-200	8" x 4"	\$13,600.00
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** ENABLED  
Data Management Software by Mitutoyo



PJ-H30A3017B

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

\* Built-in edge detection and power focus

Prices effective Oct. 20 through Dec. 18, 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



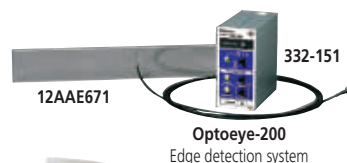
**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

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

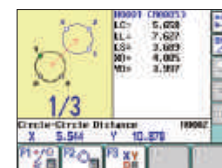
\*Attachment A/B and 332-151 (Optoeye-200 Edge detection system) must be sold together as an option



KA 200 Counter



QM Data  
2-D Data  
Processing Unit







## PH-3515 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.
- > Easy to use all-in-one PC Touch Screen.
- > M2 Geometric 2D Measurement Software.
- > Optional Edge Detection.
- > Digital built-in angle counter.

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Data Management Software by Mitutoyo

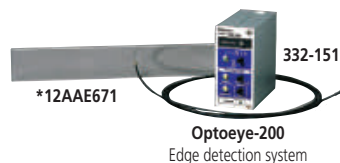
Order No.	Description	List
<b>64PKA088A*</b>	PH-3515F Profile Projector w/QM Data (Arm Mount)	\$13,500.00
<b>64PKA089B</b>	PH-3515F Profile Projector w/KA counter & tray	\$11,600.00
<b>64AAB176</b>	PH-3515 Stand (optional)	\$687.00
<b>64PKA165</b>	PH-3515 PROFILE PROJECTOR - WITH OPTICAL EDGE DETECTION AND TOUCH SCREEN M2 GEOMETRIC DISPLAY	\$15,900.00
<b>64PKA166</b>	PH-3515 PROFILE PROJECTOR - WITH TOUCH SCREEN M2 GEOMETRIC DISPLAY	\$14,500.00

(Includes installation and A2LA accredited calibration)

\*12AAE671 and 332-151 (Optoeye-200 Edge detection system) must be sold together as an option



QM Data  
2-D Data  
Processing Unit



Optoeye-200  
Edge detection system



KA 200 Counter

## 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

### TRADE UP Program Includes:

- FREE Shipping\***
- FREE Installation**
- FREE A2LA Calibration**



LEARN MORE





# Calibrated Tools

## Turnaround Time

Normally our laboratories maintain a turnaround time of 2 weeks.

## Express Service

5 day and 1 day RUSH service is available for an additional fee.



## Coolant-Proof Calipers



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

**MeasurLink** ENABLED

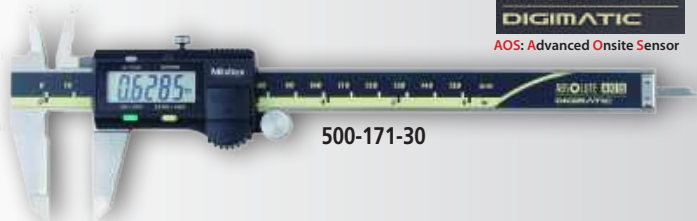
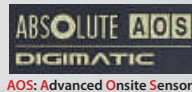
Data Management Software by Mitutoyo

## Digimatic Caliper

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



www.mitutoyo.com/aoscd  
VIDEO DEMO



500-171-30

## Digimatic Carbon Fiber Caliper



552-314-10



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Order No.	Range	Accuracy	Resolution	List	Promo
552-312-10CAL	0(0.504")-18"	$\pm .002$ "	.0005"/0.01mm	\$1,028.00	<b>\$925.20</b>
552-313-10CAL	0(0.504")-24"	$\pm .002$ "	.0005"/0.01mm	\$1,169.00	<b>\$1,052.10</b>
552-314-10CAL	0(0.004")-40"	$\pm .002$ "	.0005"/0.01mm	\$2,069.00	<b>\$1,862.10</b>
552-315-10CAL	0(0.004")-60"	$\pm .004$ "	.0005"/0.01mm	\$2,469.00	<b>\$2,222.10</b>
552-316-10CAL	0(0.004")-80"	$\pm .005$ "	.0005"/0.01mm	\$3,844.00	<b>\$3,459.60</b>

SPC cable - 1m: 05CZA624 2m: 05CZA625

Order No.	Range	List	Promo
<b>Non-Output Style</b>			
500-752-20CAL	0-6"/0-150mm	\$250.00	<b>\$225.00</b>
500-753-20CAL	0-8"/0-200mm	\$329.00	<b>\$296.10</b>
500-763-20CAL	0-8"/0-200mm	\$362.00	<b>\$325.80</b>
500-764-20CAL*	0-12"/0-30mm	\$600.00	<b>\$540.00</b>
500-754-20CAL*	0-12"/0-30mm	\$546.00	<b>\$491.40</b>
<b>SPC Output Style</b>			
500-762-20CAL	0-6"/0-150mm	\$290.00	<b>\$261.00</b>
500-733-20CAL	0-6"/0-150mm	\$405.00	<b>\$364.50</b>
500-734-20CAL	0-8"/0-200mm	\$495.00	<b>\$445.50</b>
500-736-20CAL	0-8"/0-200mm	\$411.00	<b>\$369.90</b>
500-737-20CAL	0-6"/0-150mm	\$446.00	<b>\$401.40</b>

\*  $\pm .0015$ " accuracy

SPC cable - 1m: 05CZA624 2m: 05CZA625



**MeasurLink** ENABLED

Data Management Software by Mitutoyo

Order No.	Range	Remarks	List	Promo
<b>No SPC Output Style</b>				
500-195-30CAL	0-4"/0-100mm	.075" round depth bar	\$181.00	<b>\$162.90</b>
500-196-30CAL	0-6"/0-150mm		\$196.00	<b>\$176.40</b>
500-197-30CAL	0-8"/0-200mm		\$272.00	<b>\$244.80</b>
500-193-30CAL	0-12"/0-300mm		\$511.00	<b>\$459.90</b>
<b>With SPC Output Style</b>				
500-170-30CAL	0-4"/0-100mm	.075" round depth bar	\$210.00	<b>\$189.00</b>
500-171-30CAL	0-6"/0-150mm		\$223.00	<b>\$200.70</b>
500-172-30CAL	0-8"/0-200mm		\$289.00	<b>\$260.10</b>
500-173-30CAL	0-12"/0-300mm		\$588.00	<b>\$529.20</b>
500-505-10CAL	0-18"/0-450mm	without thumb roller	\$897.00	<b>\$807.30</b>
500-506-10CAL	0-24"/0-600mm	without thumb roller	\$1,006.00	<b>\$905.40</b>
500-507-10CAL	0-40"/0-1000mm	without thumb roller	\$1,909.00	<b>\$1,718.10</b>

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

- > 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.



## Dial Calipers



- > 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.
- > Graduations: .001"

Order No.	Range	Remarks	List	Promo
505-742CAL	6" .100"/rev.		\$160.00	<b>\$144.00</b>
505-738CAL	6" .100"/rev.	carbide-tipped jaws	\$248.00	<b>\$223.20</b>
505-740CAL	6" .200"/rev.		\$149.00	<b>\$134.10</b>
505-742-56CAL	6" .100"/rev.	Black dial face	\$160.00	<b>\$144.00</b>
505-737CAL	8" .100"/rev.		\$302.00	<b>\$271.80</b>
505-743CAL	8" .100"/rev.		\$223.00	<b>\$200.70</b>
505-746CAL	12" .100/rev		\$336.00	<b>\$302.40</b>
505-749CAL	12" .200/rev		\$316.00	<b>\$284.40</b>

## Quick-Mini Thickness Gage



- > A compact thickness gage is suited for quick inspection of paper thickness, leather, wires, plastic parts, etc. The digital display provides error-free reading with 0.01mm / .0005" resolution.
- > Measuring force less than 2N.
- > Notifications for:
  - Low battery voltage
  - Scale surface contamination



Order No.	Range	Accuracy	Resolution	List	Promo
700-118-30CAL	0 - .5" / 0 - 12.7mm	±.001"	.0005" / 0.01mm	\$209.00	<b>\$188.10</b>

## Digimatic Thickness Gages

- > Thickness Gages offer a quick and efficient means of inspection with their convenient grip handle, thumb trigger and spring-loaded spindle. Models with various dimensions are also available.

- > With SPC output.



Order No.	Range	Resolution	Remarks	List	Promo
547-400SCAL	0-.47"/0-12mm	.00005"/0.001mm	High-Accuracy	\$917.00	<b>\$825.30</b>
547-500SCAL	0-.47"/0-12mm	.0005"/0.01mm	Standard Depth	\$351.00	<b>\$315.90</b>
547-520SCAL	0-.47"/0-12mm	.0005"/0.01mm	Throat Depth: 4.7"	\$374.00	<b>\$336.60</b>



## Dial Thickness Gages

Thickness Gages offer a quick and efficient means of inspection with a convenient grip handle, thumb trigger and spring-loaded spindle. The various models cover a range of applications.

- > Extremely high wear-resistant CERA contacts



VIDEO DEMO

Order No	Range	Graduation	Accuracy	Force	Remarks	List	Promo
7326SCAL	0 - .05"	.0001"	±.0002"	1.4N or less	Fine dial reading, ceramic spindle/anvil	\$269.00	<b>\$242.10</b>
7300SCAL	0 - .5"	.001"	±.001"	1.4N or less	Standard, ceramic spindle/anvil	\$179.00	<b>\$161.10</b>
7304SCAL	0 - 1"	.001"	±.002"	2.0N or less	Standard, ceramic spindle/anvil	\$207.00	<b>\$186.30</b>







## ID-S Digimatic Indicators

- 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.

ABSOLUTE®

SPC

MeasurLink® ENABLED  
Data Management Software by Mitutoyo



Order No.	Resolution	Range	Accuracy	Measuring force	Remarks	List	Promo
<b>Stem dia. 3/8", #4-48 UNF Thread</b>							
543-792CAL	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$342.00	<b>\$307.80</b>
543-796CAL	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ lug back	\$371.00	<b>\$333.90</b>
543-793CAL	.0001"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$342.00	<b>\$307.80</b>
543-783CAL	.0005"/0.01mm	.5" / 12.7mm	±.0010"	1.5N or less	w/ lug back	\$243.00	<b>\$218.70</b>
543-792BCAL	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ flat-back	\$342.00	<b>\$307.80</b>
543-796BCAL	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ flat-back	\$371.00	<b>\$333.90</b>
543-793BCAL	.0001"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ flat-back	\$342.00	<b>\$307.80</b>
543-783BCAL	.0005"/0.01mm	.5" / 12.7mm	±.0010"	1.5N or less	w/ flat-back	\$243.00	<b>\$218.70</b>
<b>Stem ø 8mm, M2.5 x 0.45 Thread</b>							
543-791CAL	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$351.00	<b>\$315.90</b>
543-795CAL	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ lug back	\$380.00	<b>\$342.00</b>
543-782CAL	.0005"/0.01mm	.5" / 12.7mm	±.001"	1.5N or less	w/ lug back	\$243.00	<b>\$218.70</b>
543-791BCAL	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ flat-back	\$351.00	<b>\$315.90</b>
543-795BCAL	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ flat-back	\$380.00	<b>\$342.00</b>
543-782BCAL	.0005"/0.01mm	.5" / 12.7mm	±.001"	1.5N or less	w/ flat-back	\$243.00	<b>\$218.70</b>

SPC cable – 1m: 905338 2m: 905409

## 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.
- 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).

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Order No.	Range	Remarks	List	Promo
<b>.0005"/0.01mm Resolution</b>				
543-402CAL	.500"/12.7mm	lug back	\$380.00	<b>\$342.00</b>
543-402BCAL	.500"/12.7mm	flat back	\$380.00	<b>\$342.00</b>
543-476BCAL	1"/25mm	flat back	\$529.00	<b>\$476.10</b>
543-496BCAL	2"/50mm	flat back	\$676.00	<b>\$608.40</b>
<b>.00005"/.0001"/.0005"/0.001mm/0.01mm selectable resolutions</b>				
543-392CAL	.500"/12.7mm	lug back	\$498.00	<b>\$448.20</b>
543-392BCAL	.500"/12.7mm	flat back	\$498.00	<b>\$448.20</b>
543-472BCAL	1"/25mm	flat back	\$646.00	<b>\$581.40</b>

SPC cable – 1m: 905338 2m: 905409



SPC

ABSOLUTE®

Now with multiplier function  $f(x)=Ax$   
(other models available with  $Ax+B+Cx-1$  function.)





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# FALL PROMO 2020

## PRECISION TOOLS & INSTRUMENTS

Effective October 20 through December 18, 2020

FALL PROMO 2020

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