

**MeasurLink** ENABLED  
 Data Management Software by Mitutoyo



# FALL PROMO 2019

PRECISION TOOLS & INSTRUMENTS

Effective September 23 through December 13, 2019

FALL PROMO 2019



**NEW**  
 Products

**U-WAVE** fit

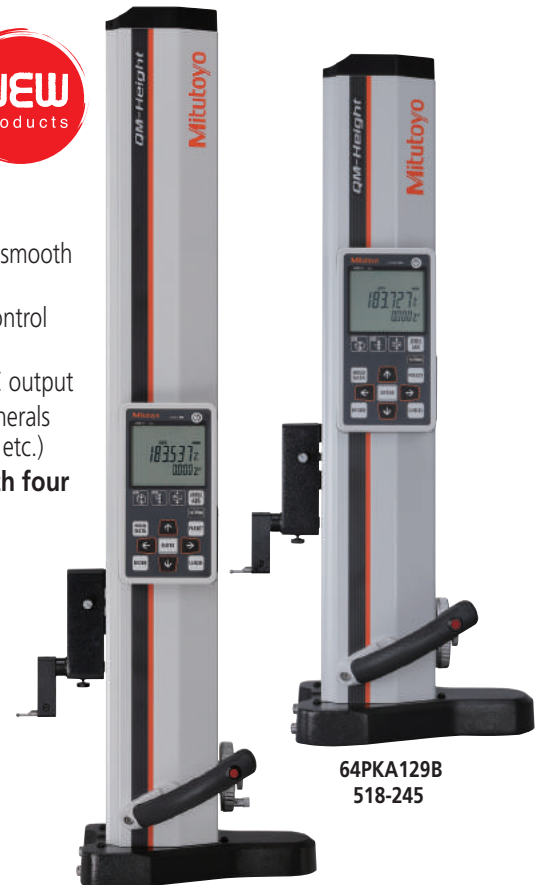
## High-Performance Height Gage QM-Height Series



- > High-accuracy / 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.



64PKA130B  
518-247

64PKA129B  
518-245

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### 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 2019 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. Prices are effective September 23 through December 13, 2019.

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

Order No.	Range	Resolution	Remarks	List	Promo
64PKA094B	0 - 14" / 0 - 350mm	0.001mm / 0.0005mm /.00005" / .0001"	Pneumatic Flotation System	\$3,990.00	\$3,591.00
64PKA095B	0 - 24" / 0 - 600mm			\$4,490.00	\$4,041.00
64PKA129B	0 - 14" / 0 - 350mm			\$4,490.00	\$4,041.00
64PKA130B	0 - 24" / 0 - 600mm			\$4,990.00	\$4,491.00



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

### 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**).



### 2019 Remaining Tradeshow Schedule:

- WESTEC - Sep 24, 2019 - Long Beach, CA - Booth #1209
- Neuroscience Show - Oct 19, 2019 - Chicago, IL - Booth #531
- The Quality Show - Oct 22, 2019 - Rosemont, IL - Booth #1308

**westec**

**THE Quality SHOW**

# U-Wave Wireless Data Transmitters

## U-WAVE<sup>fit</sup>

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Mitutoyo's new U-Wave Fit wireless data transmitter fits to the back of popular Mitutoyo hand-held measuring instruments. This new design allows for a snug fit behind the display resulting in a more ergonomic feel. U-Wave Fit is the same technology as the U-Wave T, just a smaller version.



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

**10% OFF**

### U-WAVE-T (Transmitter)

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

\* Please contact Mitutoyo or distributor for further details

### U-WAVE-R (Receiver)

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

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

## Standard U-Wave Wireless System

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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	\$198.00
02AZD880G	U-WAVE-T/BUZZER TYPE	\$220.00	\$198.00
02AZD810D	U-WAVE-R	\$499.00	\$449.10
02AZD790A	U-WAVE CONNECTING CABLE A	\$110.00	\$99.00
02AZD790B	U-WAVE CONNECTING CABLE B	\$110.00	\$99.00
02AZD790C	U-WAVE CONNECTING CABLE C	\$110.00	\$99.00
02AZD790D	U-WAVE CONNECTING CABLE D	\$110.00	\$99.00
02AZD790E	U-WAVE CONNECTING CABLE E	\$110.00	\$99.00
02AZD790F	U-WAVE CONNECTING CABLE F	\$110.00	\$99.00
02AZD790G	U-WAVE CONNECTING CABLE G	\$110.00	\$99.00

www.mitutoyo.com



# Data Collection – Store. Send. Print.

## DP-1VA LOGGER

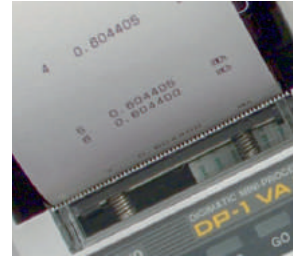
The DP-1VA collects data from a Digimatic gage which can be stored, exported to software or printed.



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.

### 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.



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

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

# 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 be output in its entirety in both inch and metric. Resulting data can be input directly to Excel®, MeasurLink® or other SPC programs.

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

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



293-130-10



264-016-10



05CZA662



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Prices effective September 23 through December 13, 2019

## Quickmikes

The new Quickmike series still boasts the super-fast spindle feed rate that's **20x faster** than standard micrometers, Absolute encoder, increased measuring ranges. New features include:

- > 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



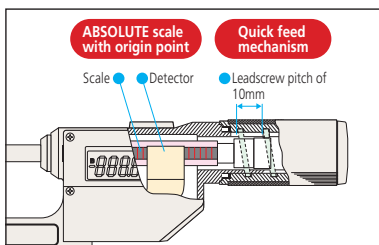
293-676-20



293-677-20

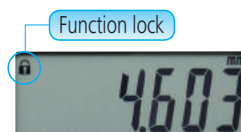


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## ABSOLUTE™

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

## 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.



293-180-30



COMPATIBLE WITH  
**U-WAVE fit**

**COOLANT PROOF™**

**MeasurLink** ENABLED  
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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>

\*with SPC Output

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

**fit** U-Wave Fit compatible



www.mitutoyo.com/gm4x  
VIDEO DEMO

## 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**

### Digimatic Micrometer

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



COOLANT PROOF™

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Order No.	Range	Resolution	Remarks	List	Promo
<b>fit</b> 293-330-30*	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Stop	\$247.00	<b>\$234.65</b>
293-340-30	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Stop	\$193.00	<b>\$183.35</b>
293-344-30	0-1"/0-25.4mm	.00005"/0.001mm	Ratchet Thimble	\$193.00	<b>\$183.35</b>
293-348-30	0-1"/0-25.4mm	.00005"/0.001mm	Friction Thimble	\$193.00	<b>\$183.35</b>
293-349-30	0-1"/0-25.4mm	.0001"/0.001mm	Ratchet Thimble	\$193.00	<b>\$183.35</b>
<b>fit</b> 293-331-30*	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Stop w/Standard	\$291.00	<b>\$276.45</b>
293-341-30	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Stop w/Standard	\$250.00	<b>\$237.50</b>
293-345-30	1-2"/25.4-50.8mm	.00005"/0.001mm	Ratchet Thimble w/Standard	\$250.00	<b>\$237.50</b>

\*with SPC Output

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



### MDC-Lite Micrometer

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



Order No.	Range	Resolution	Remarks	List	Promo
293-831-30	0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	Ratchet Stop	\$155.00	<b>\$147.25</b>
293-832-30	0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	Friction Thimble	\$165.00	<b>\$156.75</b>

### Spline Micrometer

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

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



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Digital model with spherical anvil

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



## 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.
- > With a standard bar except 0 - 1"
- > Resolution: .00005"/0.001mm (digital models)
- > With SPC output.
- > With carbide tips

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**IP65** **SPC**



342-351-30



Digital

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>
<b>fit</b> 342-353-30	2" - 3" / 50.8 - 76.2mm	±.0001"	15°	\$553.00	<b>\$525.35</b>
<b>fit</b> 342-363-30	50.8 - 76.2mm	±.0001"	30°	\$553.00	<b>\$525.35</b>
<b>fit</b> 342-354-30	3" - 4" / 76.2 - 101.6mm	±.00015"	15°	\$588.00	<b>\$558.60</b>
<b>fit</b> 342-364-30	76.2 - 101.6mm	±.00015"	30°	\$588.00	<b>\$558.60</b>

**fit** U-Wave Fit compatible

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

## 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

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395-363-30

Anvil Type C



**IP65** **SPC**

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	0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	±.00015"	D	\$465.00	<b>\$441.75</b>

**fit** U-Wave Fit compatible

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

## Individual Gage Blocks Keep your gage block set reliable by replacing commonly used sizes

Mitutoyo's specialized lapping technique, developed over half a century, allows us to achieve the best accuracy, flatness and surface roughness.

### Steel Gage Blocks

- > Dimensionally stable over time due to methodically applied, repeated heat treatment
- > High carbon, high chrome steel
- > Easy wringing



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

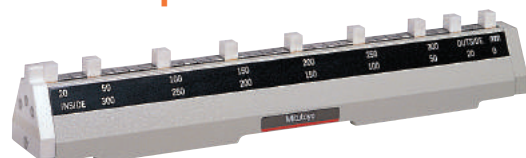
- > Extremely high wear resistance, 3x better than carbide.
- > Corrosion proof - no oil needed.
- > Closest expansion coefficient to steel.
- > Anti-magnetic - keeps away steel dust.
- > High wringing force due to high density.
- > Crack and burr resistant.
- > Low thermal conductivity - excellent dimensional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



Order No.	Remarks	List	Promo
611105-531	ASME Grade 0 Rectangular Steel .05"	\$40.00	<b>\$38.00</b>
611191-531	ASME Grade 0 Rectangular Steel 0.1"	\$25.65	<b>\$24.37</b>
611192-531	ASME Grade 0 Rectangular Steel 0.2"	\$25.65	<b>\$24.37</b>
611212-531	ASME Grade 0 Rectangular Steel 0.25"	\$31.45	<b>\$29.88</b>
611195-531	ASME Grade 0 Rectangular Steel 0.5"	\$38.10	<b>\$36.20</b>
611201-531	ASME Grade 0 Rectangular Steel 1"	\$45.85	<b>\$43.56</b>
611202-531	ASME Grade 0 Rectangular Steel 2"	\$62.30	<b>\$59.19</b>
611203-531	ASME Grade 0 Rectangular Steel 3"	\$69.25	<b>\$65.79</b>

Order No.	Remarks	List	Promo
613105-531	ASME Grade 0 Rectangular CERA .05"	\$53.45	<b>\$50.78</b>
613191-531	ASME Grade 0 Rectangular CERA 0.1"	\$47.05	<b>\$44.70</b>
613192-531	ASME Grade 0 Rectangular CERA 0.2"	\$60.95	<b>\$57.90</b>
613212-531	ASME Grade 0 Rectangular CERA 0.25"	\$71.85	<b>\$68.26</b>
613195-531	ASME Grade 0 Rectangular CERA 0.5"	\$71.85	<b>\$68.26</b>
613201-531	ASME Grade 0 Rectangular CERA 1"	\$133.00	<b>\$126.35</b>
613202-531	ASME Grade 0 Rectangular CERA 2"	\$188.00	<b>\$178.60</b>
613203-531	ASME Grade 0 Rectangular CERA 3"	\$266.00	<b>\$252.70</b>

## CERA Caliper Checker



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>

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

**33% OFF**

## 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.



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COMPATIBLE WITH  
**U-WAVE fit**

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>\$304.95</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™ 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



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

## Tire Tread Depth Gage

- Compact depth gage.
- Enables measurement of depth of tire groove.
- Battery life: Approx. 5 years under normal use.
- Allows integration into statistical process control and measurement systems.
- With SPC output.



571-200-20



Order No.	Range	Resolution	Accuracy	List	Promo
571-200-20	0 - 1" / 0 - 25mm	.0005" / 0.01mm	$\pm 0.001$ "	\$227.00	<b>\$215.65</b>

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

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo





## Digimatic Calipers

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

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo



www.mitutoyo.com/aoscd  
VIDEO DEMO

COMPATIBLE WITH  
**U-WAVE** fit



500-171-30



AOS: Advanced Onsite Sensor

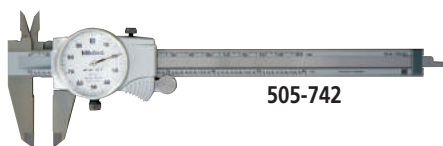
Order No.	Range	Remarks	List	Promo
<b>No SPC Output Style</b>				
500-195-30	0-4"/0-100mm	.075" round depth bar	\$148.00	<b>\$140.60</b>
500-196-30	0-6"/0-150mm		\$161.00	<b>\$152.95</b>
500-197-30	0-8"/0-200mm		\$231.00	<b>\$219.45</b>
500-193-30	0-12"/0-300mm		\$464.00	<b>\$440.80</b>
<b>With SPC Output 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>\$235.60</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 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.

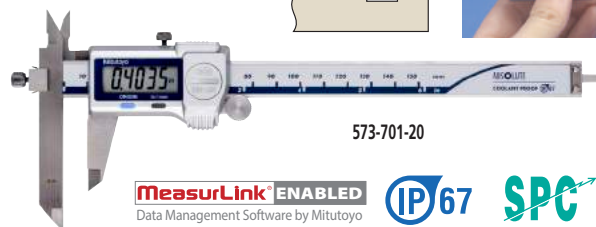
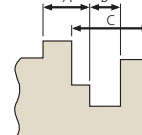


505-742

Order No.	Range	Remarks	List	Promo
505-742	6" .100"/rev.		\$125.00	<b>\$112.50</b>
505-738	6" .100"/rev.	carbide-tipped jaws	\$213.00	<b>\$191.70</b>
505-740	6" .200"/rev.		\$114.00	<b>\$102.60</b>
505-743	8" .100"/rev		\$182.00	<b>\$163.80</b>
505-746	12" .100/rev		\$289.00	<b>\$260.10</b>
505-749	12" .200/rev		\$269.00	<b>\$242.10</b>
505-742-56	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



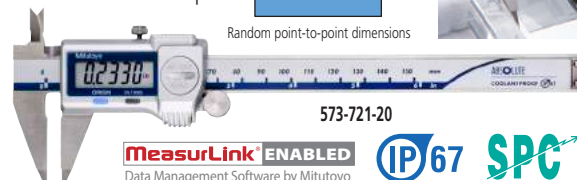
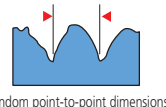
Order No.	Range	Accuracy	Resolution	List	Promo
<b>fit</b> 573-701-20	0 - 6" / 0 - 150mm	±.001"	.0005" / 0.01mm	\$478.00	<b>\$454.10</b>
<b>fit</b> 573-702-20	0 - 8" / 0 - 200mm	±.001"	.0005" / 0.01mm	\$548.00	<b>\$520.60</b>
<b>fit</b> 573-704	0 - 12" / 0 - 300mm	±.0015"	.0005" / 0.01mm	\$735.00	<b>\$698.25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



573-721-20

**MeasurLink** ENABLED  
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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

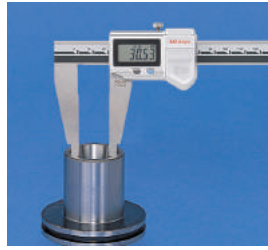
Order No.	Range	Accuracy	Resolution	List	Promo
<b>fit</b> 573-291-30	0 - 7" / 0 - 180mm	±.002"	.0005" / 0.01mm	\$845.00	<b>\$802.75</b>

**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.



550-311-20

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

**IP67** **SPC** **ABSOLUTE**  
Absolute System Powered by Mitutoyo

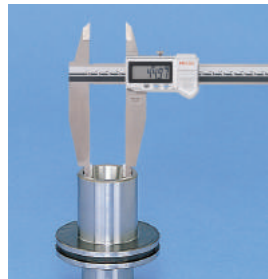
SPC cable with data switch – 1m: **05CZA624** 2m: **05CZA625**

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.



551-224-10

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

**IP67** **SPC**

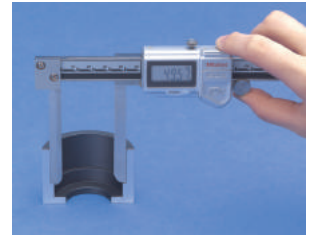
SPC cable with data switch – 1m: **05CZA624** 2m: **05CZA625**

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 **fit** U-Wave Fit compatible  
\*\* Models are not IP67 rated

### Inside Caliper 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.



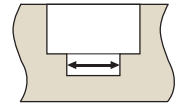
**IP67** **SPC** **ABSOLUTE**  
Absolute System Powered by Mitutoyo

#### Knife edge



573-742-20

Measurable min. hole diameter:  $\phi$ .4"



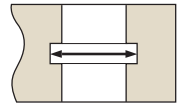
**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

#### Inside groove



573-745-20

Measurable min. hole diameter:  $\phi$ .4"



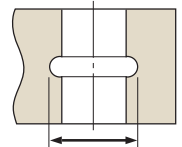
**MeasurLink** ENABLED  
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#### Point jaw

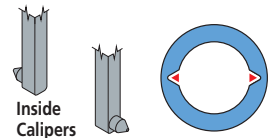


573-746-20

Measurable min. hole diameter:  $\phi$ .8"



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Data Management Software by Mitutoyo



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
- › Included Inspection certificate shows results from both measuring directions
- › Resilient crystal with high resistance to glare, scratches and impact



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>	
513-406-10T	.03"/0.7mm	.0005"/0.01mm	Full	White/Yellow	\$174.00	<b>\$156.60</b>	
513-409-10E	0.2mm/.0076"	0.002mm/.0001"	Basic	Yellow/White	\$202.00	<b>\$181.80</b>	
513-409-10T	0.2mm/.0076"	0.002mm/.0001"	Full	Yellow/White	\$205.00	<b>\$184.50</b>	
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>\$162.90</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>	
513-443-10A	.016"	.0001"	Basic	White	\$228.00	<b>\$205.20</b>	
513-443-10T	.016"	.0001"	Full	White	\$259.00	<b>\$233.10</b>	
513-446-16A	.06"	.0005"	Basic	Black	\$242.00	<b>\$217.80</b>	
513-446-16T	.06"	.0005"	Full	Black	\$273.00	<b>\$245.70</b>	
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
<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

### Inch

#### Full set

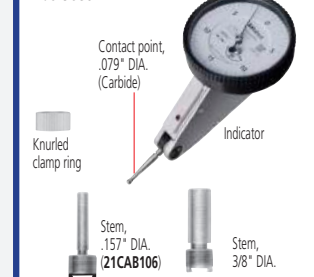


T set

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



#### Basic set



E, A set

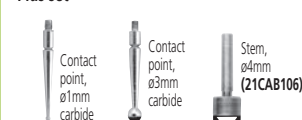
### Metric

#### Full set



T set

#### Plus set



A set

C set (ø 6 Stem)

#### Basic set



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 fumbling 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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Data Management Software by Mitutoyo



www.mitutoyo.com/idccal  
VIDEO DEMO

10% OFF



ABSOLUTE<sup>®</sup>

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

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

SPC cable – 1m: 905338 2m: 905409

10% OFF



ABSOLUTE<sup>®</sup>

### Bore Gage ABSOLUTE Digimatic Indicator ID-C



Installed on optional bore gage probe (page 15)

- > 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**

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Data Management Software by Mitutoyo

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

SPC cable – 1m: 905338 2m: 905409

### Peak Hold ABSOLUTE Digimatic Indicator ID-C

With Max./Min. Value Holding Function

- > Peak Hold Digimatic Indicator features both a Key Lock and Parameter Lock.
- > An analog bar provides easy-to-read values when scanning for Max, Min and TIR Values.
- > Go/no-go 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**

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Data Management Software by Mitutoyo

10% OFF



ABSOLUTE<sup>®</sup>

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

SPC cable – 1m: 905338 2m: 905409

Prices effective September 23 through December 13, 2019

## 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,	1.2" / 30.4mm	ID-H530E	0.0015mm	\$909.00	<b>\$818.10</b>
543-564A	0.001mm	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



**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

## 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.



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

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

SPC cable – 1m: 936937 2m: 965014

**10% OFF**



543-552A



543-558A



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Data Management Software by Mitutoyo

## ABSOLUTE Digimatic Indicator ID-U

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

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

SPC cable – 1m: 905338 2m: 905409

**10% OFF**



575-123



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### 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: **543-794B, 543-795B, 543-796B**)
- > SPC data output.



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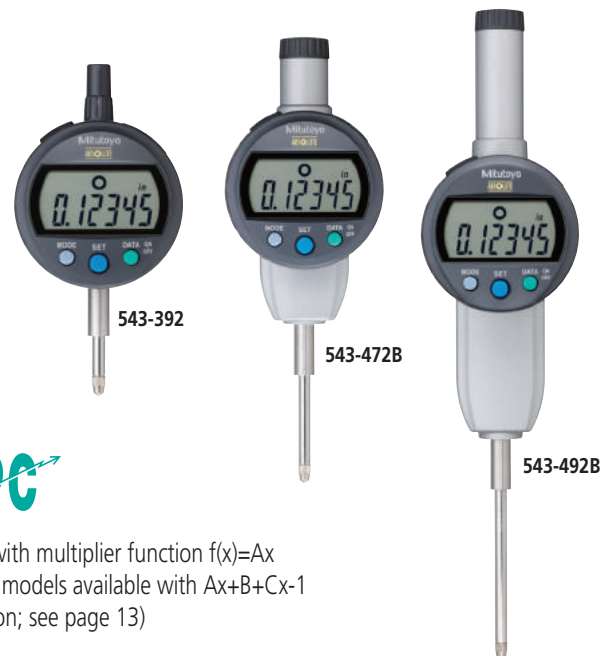
Order No.	Resolution	Range	Accuracy	Measuring force	Remarks	List	Promo
<b>Stem dia. 3/8", #4-48 UNF Thread</b>							
543-792	.00005"/0.001mm	.5" / 12.7mm	±.0001"	1.5N or less	w/ lug back	\$281.00	<b>\$266.95</b>
543-796	.00005"/0.001mm	.5" / 12.7mm	±.0001"	2.5N or less	w/ lug back	\$310.00	<b>\$294.50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

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

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

Prices effective September 23 through December 13, 2019

SPC cable - 1m: 905338 2m: 905409



## Bore Gages

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



See Digimatic indicators for bore gages (page 12)



### Optional Accessories

- 953549:** 125mm / 4.92" Extension rod for 18-35mm / .7 - 1.4" models
- 953552:** 125mm / 4.92" Extension rod for 35-160mm / 1.4 - 6.5" models
- 953557:** 125mm / 4.92" Extension rod for 160-400mm / 6.5 - 16" models
- 953550:** 250mm / 9.84" Extension rod for 18-35mm / .7 - 1.4" models
- 953553:** 250mm / 9.84" Extension rod for 35-160mm / 1.4 - 6.5" models
- 952361:** 250mm / 9.84" Extension rod for 160-400mm / 6.5 - 16" models
- 953551:** 500mm / 19.69" Extension rod for 18-35mm / .7 - 1.4" models
- 953554:** 500mm / 19.69" Extension rod for 35-160mm / 1.4 - 6.5" models
- 953558:** 500mm / 19.69" Extension rod for 160-400mm / 6.5 - 16" models
- 953555:** 750mm / 29.53" Extension rod for 35-160mm / 1.4 - 6.5" models
- 953559:** 750mm / 29.53" Extension rod for 160-400mm / 6.5 - 16" models
- 953556:** 1000mm / 39.37" Extension rod for 35-160mm / 1.4 - 6.5" models
- 953560:** 1000mm / 39.37" Extension rod for 160-400mm / 6.5 - 16" models



511-751

**10% OFF**

Order No	Range	Graduation (Indicator)	Anvils	Spacers	List	Promo
511-751	.7 - 1.4"	.0001" (2923SB-10)	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>

## Digimatic Holtest

- > TiN-coated measuring contact points provide excellent durability and impact resistance and allow 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)

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Data Management Software by Mitutoyo



468-263



468-274

**20% OFF**



www.mitutoyo.com/dholtest  
VIDEO DEMO

**IP 65**

Order No	Range	Accuracy	List	Promo
468-261	.275 - .35" / 6.925 - 8.89mm	±.0001"	\$1,110.00	<b>\$888.00</b>
468-262	.35 - .425" / 8.89 - 10.795mm	±.0001"	\$1,110.00	<b>\$888.00</b>
468-263	.425 - .5" / 10.795 - 12.7mm	±.0001"	\$1,120.00	<b>\$896.00</b>
468-264	.5 - .65" / 12.7 - 16.51mm	±.0001"	\$1,220.00	<b>\$976.00</b>
468-265	.65 - .8" / 16.51 - 20.32mm	±.0001"	\$1,220.00	<b>\$976.00</b>
468-266	.8 - 1" / 20.32 - 25.4mm	±.00015"	\$1,250.00	<b>\$1,000.00</b>
468-267	1 - 1.2" / 25.4 - 30.48mm	±.00015"	\$1,250.00	<b>\$1,000.00</b>
468-268	1.2 - 1.6" / 30.48 - 40.64mm	±.00015"	\$1,280.00	<b>\$1,024.00</b>
468-269	1.6 - 2" / 40.64 - 50.8mm	±.00015"	\$1,290.00	<b>\$1,032.00</b>
468-270	2 - 2.5" / 50.8 - 63.5mm	±.00015"	\$1,400.00	<b>\$1,120.00</b>
468-271	2.5 - 3" / 63.5 - 76.2mm	±.00015"	\$1,400.00	<b>\$1,120.00</b>
468-272	3 - 3.5" / 76.2 - 88.9mm	±.00015"	\$1,420.00	<b>\$1,136.00</b>
468-273	3.5 - 4" / 88.9 - 101.6mm	±.00015"	\$1,440.00	<b>\$1,152.00</b>

### Optional Accessories

- 04AZB157:** Mounting plate for stand
- 156-101-10:** Stand
- 952322:** Extension rod 100mm / 3.94"  
For range 6-12mm / .275 - .5" models
- 952621:** Extension rod 150mm / 5.9"  
For range 12-20mm / .5" - .8" models
- 952622:** Extension rod 150mm / 5.9"  
For range 20-50mm / .8" - 2" models
- 952623:** Extension rod 150mm / 5.9"  
For range 50-300mm / 2" - 12" models

**10% Off** - Plus Complimentary Accredited Calibration\* (A2LA 0750.01) and Shipping\*\*

**Linear Height LH-600E**

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

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

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



\*Complimentary accredited calibration applies to orders placed September 23 through December 13, 2019. This offer is void wherever prohibited or restricted by law. No cash value. Complimentary accredited calibration will be conducted prior to unit shipping and cannot be applied toward previously placed orders. Refer to our terms and conditions for further details.

\*\*Complimentary ground shipping for the 48 contiguous United States. Offer applies to orders placed September 23 through December 13, 2019. This offer is void wherever prohibited or restricted by law. No cash value. For Alaska and Hawaii special rates apply. Contact us for details. Orders may only be shipped to a single address. If customer returns product, they are responsible for the shipping cost. Refer to our terms and conditions for further details.

5.7" color LCD

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

**Promo Price**  
**\$7,632**  
518-351A-21  
Order No. **PROMO027**

standard

**Promo Price**  
**\$8,091**  
518-352A-21  
Order No. **PROMO028**

with power grip

**Digimatic Height Gages**

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

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

**20% OFF**



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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>	

**Dial Height Gages**

Double-column structure ensures high measuring accuracy.

- > Easy and error-free reading with both up and down digital counters as well as a dial.
- > Provided with a feed wheel for easy coarse feeding.
- > Carbide-tipped scriber is provided.
- > The counters and dial can be re-zeroed at any scriber position.



Easy and error-free reading

**20% OFF**



Order No.	Range	Graduation	List	Promo
192-150	0-12"	.001"	\$1,040.00	<b>\$832.00</b>
192-151	0-18"	.001"	\$1,440.00	<b>\$1,152.00</b>
192-152	0 - 24"	.001"	\$1,870.00	<b>\$1,496.00</b>
192-153	0 - 40"	.001"	\$4,110.00	<b>\$3,288.00</b>

## Bench Top

### Laser Scan Micrometer LSM-9506

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

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

**10% OFF**



544-116-1A

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

**QUICKTOOL\*** is 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 linearity: down to +/- 0.3 micron.
- > High-speed scanning capable: 3,200 scans per second.
- > Various ranges available for selecting the best laser for your application.
- > Statistical calculation mode.
- > Memory function has been increased to allow storage of up to 100 programs.

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

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**Package**

LSM-6200  
DISPLAY UNIT  
INCLUDED



Order No	Model	Range Inch	Range mm	Repeatability	Linearity	Scanning Rate	List	Promo
64PKA117	LSM-500S	.0002" - .08"	0.005~2mm	±0.03µm	±0.3µm	3,200 scans/sec	\$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> Linearity over entire range. Higher accuracies are possible over smaller ranges.

## Surfptest SJ-210

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



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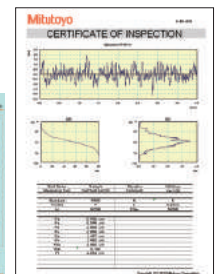
## Surfptest SJ-310

- > Skid system with touch-screen functionality and built-in printer.
- > Easy and intuitive menu navigation.
- > The large 5.7" color LCD gives you high visibility.
- > You can store up to 10 different measuring conditions inside the SJ-310, and up to 500 with an optional SD card.
- > Statistical analysis and colored tolerance judgement.
- > Supports 16 languages.



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Free communication software  
SJ Tools can be downloaded at  
<http://www.mitutoyo.com>



Order No.	Description	List	Promo
178-561-02A	SJ-210 IN 4MN (STANDARD DRIVE UNIT)	\$2,430.00	<b>\$2,308.50</b>
178-563-02A	SJ-210 IN 4MN (R-DRIVE UNIT)	\$2,740.00	<b>\$2,603.00</b>
178-571-02A	SJ-310 (INCH/MM, 4mN)	\$4,170.00	<b>\$3,961.50</b>



## Rockwell and Rockwell Superficial Hardness Tester

With Real-Time Electronic Test Force Control



- > Closed-loop control of testing forces
- > Primary and final 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 setting of preliminary test force and application of total test force
- > Indenter escape function allows automatic removal of preliminary test force at end of test cycle
- > Touch-screen operation with color LCD
- > Hardness scale is set automatically via the touch screen
- > Cylindrical and spherical surface compensation
- > Auto conversion to all hardness scales or tensile strength

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo



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

<b>Order No.</b>	<b>810-237</b>		
<b>Model</b>	<b>HR-530</b>		
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		
<b>List</b>	<b>\$13,500.00</b>		
<b>Promo</b>	<b>\$12,825.00</b>		

### 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 Plastics 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**

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo



Order No	Model	Scale	Display	Graduation	Range	Indenter	List	Promo
<b>811-335-10</b>	HH-335	Shore A	Analog	1.0	10~90	Blunt Taper	\$599.00	<b>\$569.05</b>
<b>811-336-10</b>	HH-336	Shore A	Digital	0.5	10~90	Blunt Taper	\$1,280.00	<b>\$1,216.00</b>
<b>811-337-10</b>	HH-337	Shore D	Analog	1.0	20~90	Sharp Point	\$599.00	<b>\$569.05</b>
<b>811-338-10</b>	HH-338	Shore D	Digital	0.5	20~90	Sharp Point	\$1,280.00	<b>\$1,216.00</b>

## HH-411 Hardmatic

Rebound 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
<b>810-298-10</b>	HH-411 Hardmatic	\$3,990.00	<b>\$3,790.50</b>



Prices effective September 23 through December 13, 2019

## 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.

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo



176-861-10

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

Model No. (XY stage size)	1010D
XY stage travel range	4 x 4" / 100 x 100mm
Z-axis travel range	6" / 150mm
Focusing method	Manual focusing (Coarse focusing: 30mm/rev., Fine focusing: 0.2mm/rev.)
Measurement method	Linear encoder (2-axis model: X / Y-axis, 3-axis model: X / Y / Z-axis)
Resolution (switchable)	.0001" / .00005" / .00001" (0.001mm / 0.0005mm / 0.0001mm)
Measuring accuracy (at 20°C)	XY-axis: (2.2+0.02L) $\mu$ m, L = Measuring length (mm) when not loaded, JIS B 7153
Indication accuracy (at 20°C)	Z-axis: (5+0.04L) $\mu$ m, 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

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.
- > Included 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

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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	4.21" / 107mm
	Illumination unit	Stepless brightness adjustment, White LED light source, With green filter	
Cross-travel stage	Transmitted illumination	Oblique single-source type, Stepless brightness adjustment, White LED light source	
	Surface illumination		
	Measuring range	2" x 2" / 50x50mm	4" x 2" / 100x50mm (An optional 2"/50mm gauge block is required to cover full range. A CERA block is recommended.)
Usable area of the stage glass	Usable area of the stage glass	3.8" x 3.8" / 96x96mm	6" x 3.8" / 154x96mm
	Maximum stage glass loading	11 lbs. / 5kg	
Linear measurement method	Micrometer heads included		
<b>List</b>	\$5,590.00		\$7,290.00
<b>Promo</b>	<b>\$5,031.00</b>		<b>\$6,561.00</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
Eyeiece	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)



Camera with software for digital viewing

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	Digital camera w/software 1080, 2.0 Mega Pixels, HDMI/USB	\$1,250.00	

### 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
- › Bracket Kit(s)



SAVE  
**\$200**  
PER PACKAGE

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

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

Prices effective September 23 through December 13, 2019

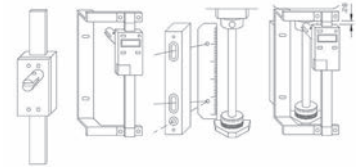


## Digimatic Quill Kit

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.

**10% OFF**



The Mitutoyo Quill Kit mounted on a vertical mill.

Order No.	Description	List	Promo
053906B	Digimatic Quill Kit complete with brackets & scale for Bridgeport Type machines.	\$310.00	<b>\$279.00</b>

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**ABSOLUTE**™

## ABSOLUTE Digimatic Scale Units

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

**ABSOLUTE**™

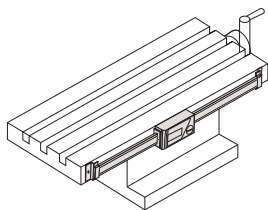
Order No	Model	Range	Accuracy	Resolution	Type	List	Promo
572-210-30	SD-4"DX	0-4" / 0-100mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal single-function	\$235.00	<b>\$223.25</b>
572-211-30	SD-6"DX	0-6" / 0-150mm	.001" / 0.03mm	.0005" / 0.01mm	Horizontal single-function	\$249.00	<b>\$236.55</b>
572-212-30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



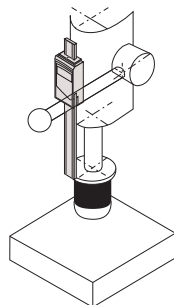
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## Applications

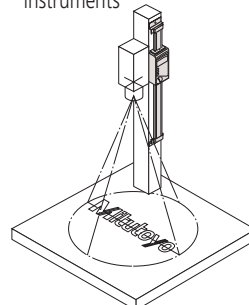
Machine table position



Drilling machine stroke position

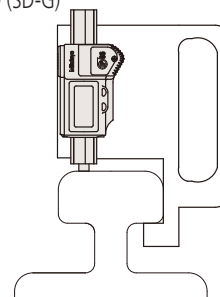


Focus setting on optical instruments

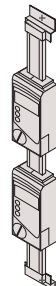


## Special Applications

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



Detector head mechanism



**Complimentary Shipping on ALL Profile Projectors\***

DOMESTIC U.S. ORDERS ONLY



\*Complimentary ground shipping for the 48 contiguous United States. Offer applies to orders placed September 23 through December 13, 2019. Mitutoyo America Corporation reserves the right to change or discontinue this offer at any time. This offer is void wherever prohibited or restricted by law. No cash value. For Alaska and Hawaii special rates apply. Contact us for details.

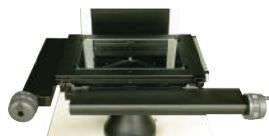
Complimentary shipping cannot be applied toward previously placed orders. Orders may only be shipped to a single address. If customer returns product, they are responsible for the shipping cost. Refer to our terms and conditions for further details.

**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.



PV-5110



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**Standard Accessories**

- > 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

Order No.	Description	List
304-919A	Profile Projector PV-5110	\$19,500.00
264-156A	QM-Data200 (Arm-Mount Model)	\$2,720.00
332-151	Optoeye-200	\$1,650.00
12AAE672	Attachment (B) for Optoeye-200	\$58.65
174-183A	KA 200 Counter	\$587.00

**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, thereby 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
302-702A	PJ-A3005F-150	6" x 2"	\$12,000.00
302-703A	PJ-A3010F-100	4" x 4"	\$10,800.00
302-704A	PJ-A3005D-50	2" x 2"	\$8,890.00

**PJ-H30 Vertical Profile Projector**

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



PJ-H30A3017B

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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

Prices effective September 23 through December 13, 2019

## 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 movement
- > 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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**5% OFF**

Order No.	Description	List	Promo
64PKA088A*	PH-3515F Profile Projector w/QM Data (Arm Mount)	\$13,500.00	<b>\$12,825.00</b>
64PKA089B	PH-3515F Profile Projector w/KA counter & tray	\$11,600.00	<b>\$11,020.00</b>
64AAB176	PH-3515 Stand (optional)	\$687.00	
64PKA165	PH-3515 PROFILE PROJECTOR - WITH OPTICAL EDGE DETECTION AND TOUCH SCREEN M2 GEOMETRIC DISPLAY	\$15,900.00	<b>\$15,105.00</b>
64PKA166	PH-3515 PROFILE PROJECTOR - WITH TOUCH SCREEN M2 GEOMETRIC DISPLAY	\$14,500.00	<b>\$13,775.00</b>

(Includes installation and A2LA accredited calibration)

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



## PH-A14 Profile Projector and 2D Processor Packages

**Horizontal projector equipped with highly accurate linear glass scales and touch screen M2 geometric measurement display**

- > ø14" Screen, Horizontal Projector
- > 8" x 4" Travel T Slot table for accessories
- > Linear Glass Scales for accurate movement
- > Profile and Fiber Optic Surface Illumination
- > Easy to use all-in-one PC Touch Screen Display
- > M2 Geometric 2D Measurement Software
- > Optional Edge Detection (64PKA155) for fast and repeatable measurements

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Order No.	Description	List
64PKA154A	PH-A14 PROFILE PROJECTOR - WITH TOUCH SCREEN M2 GEOMETRIC DISPLAY	\$10,490.00
64PKA155A	PH-A14 PROFILE PROJECTOR - WITH OPTICAL EDGE DETECTION AND TOUCH SCREEN M2 GEOMETRIC DISPLAY	\$11,900.00

(Includes installation and A2LA accredited calibration)

### Other packages available

Order No.	Description	List
64PKA086A	PH-A14 w/KA-200 Counter & Tray	\$7,490.00
64PKA087*	PH-A14 w/QM Data (Arm Mount)	\$9,490.00

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







**Mitutoyo America Corporation**

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

# FALL PROMO 2019

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**2019 Remaining Tradeshow Schedule:**

- WESTEC - Sep 24, 2019 - Long Beach, CA - Booth #1209
- Neuroscience Show - Oct 19, 2019 - Chicago, IL - Booth #531
- The Quality Show - Oct 22, 2019 - Rosemont, IL - Booth #1308



**Note:** All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this printed matter as well as other technical data are to be regarded as approximate average values. We therefore reserve the right to make changes to the corresponding designs. The stated standards, similar technical regulations, descriptions and illustrations of the products were valid at the time of printing. In addition, the latest applicable version of our General Trading Conditions will apply. Only quotations submitted by ourselves may be regarded as definitive. Specifications are subject to change without notice.

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# FALL PROMO 2019

## PRECISION TOOLS & INSTRUMENTS

Effective September 23 through December 13, 2019

FALL PROMO 2019



Data Management Software by Mitutoyo

