



An inspection certificate is supplied as standard. Refer to page U-11 for details.

## Functions

- Minimum value detection  
Note: Peak detection  
1) Sampling rate: 50 readings/sec  
2) Capturing speed: 50  $\mu$ m/sec (max.)
- Preset (3 Preset values can be stored)
- Tolerance judgment  
(3 sets of upper and lower limits can be stored)
- Resolution selection
- Analog bar resolution selection
- Key lock
- Display hold (when no external device is connected)
- Data saving/calling  
(when no external device is connected)
- Data output
- External PC setting input
- Display rotation (330°)
- Low battery voltage alarm display
- Error alarm display

## Optional Accessories

- SPC Cable:  
905338 (1 m)  
905409 (2 m)  
(Refer to pages A-27 to A-29 for details.)
  - USB Input Tool Direct (2 m): 06AFM380F
  - Input Tool Series  
IT-016U (USB Keyboard Signal Conversion Type):  
264-016-10  
IT-007R (RS-232C Communication Conversion Type):  
264-007  
(Refer to page A-14 for details.)
  - Connecting Cables for U-WAVE-T (160 mm):  
02AZD790F  
For foot switch: 02AZE140F  
(Refer to pages A-19 to A-21 for details.)
  - Digimatic Mini-Processor DP-1VA LOGGER: 264-505
  - Parameter setup kit: 21EZA313
- Note: Parameter setting software (can be downloaded for free from the Mitutoyo website) is also required.

## The ABSOLUTE Digimatic Bore Gage



ABSOLUTE Digimatic Bore Gages, which integrate the display with a bore gage measuring unit, are also available. Refer to pages C-43 and C-44 for details.



# Digimatic Indicators

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

## ABSOLUTE Digimatic Indicator ID-C SERIES 543 — Bore Gage Type

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

- Dedicated to inside measurement with minimum-value Hold and tolerance judgment functions\*1. Use together with a Mitutoyo bore gage (refer to pages C-27 to C-42 for details).
- Five buttons, status icons, and clear button indications allow for easy operation of a wide variety of functions.
- Wide LCD and new analog bar graph are now standard on all models.
- Can store up to three sets of master reference values and tolerances, alleviating the need for multiple settings to master gages.
- The ABS (absolute) scale restores the last origin position\*2 automatically when the indicator is turned on, and realizes high reliability by eliminating over-speed errors.
- By using the parameter setup kit (optional) and the dedicated software, the functions and the parameters can be configured using a computer.
- Equipped with a data output port that enables incorporation into measurement networking and statistical process control systems. (Refer to page A-3)

\*1 Tolerance judgment results cannot be output.

\*2 Regarding origin setting, refer to "Origin Setting of Digimatic Indicators" on page F-25.



543-310B

Typical application  
The Bore Gage  
is optional.



## SPECIFICATIONS

		Metric				Inch / Metric			
		Metric				Inch / Metric			
Order No.	Range (mm)	Resolution (mm)	Maximum permissible error (mm)			Measuring force MPL (N)	Power supply	Battery life (normal use)*4	Net mass (g)
			MPE <sub>E</sub> *3	Hysteresis MPE <sub>H</sub>	Repeatability MPE <sub>R</sub>				
543-310B	12.7	0.001/0.01 (selectable)	0.003	0.002	0.002	1.5 or less	CR2032 x1 pc.	Approx. 1 year	170
Order No.	Range	Resolution	Maximum permissible error			Measuring force MPL (N)	Power supply	Battery life (normal use)*4	Net mass (g)
			MPE <sub>E</sub> *3	Hysteresis MPE <sub>H</sub>	Repeatability MPE <sub>R</sub>				
543-311B	0.5 in / 12.7 mm	0.00005/0.0001 / 0.0005 in, 0.001/0.01 mm (selectable)	±0.00010 in / 0.003 mm	0.00010 in / 0.002 mm	0.00010 in / 0.002 mm	1.5 or less	CR2032 x1 pc.	Approx. 1 year	170
543-312B									

\*3 Error of indication for the total measuring range

\*4 Applies only if not connected to a data processor. Battery life depends on use of the indicator. Use the above value as a guide only.

Note: Flat back type only.

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## DIMENSIONS

