

Indicators

ABSOLUTE Digimatic Indicator ID-CGX SERIES 543 — Bore Gage Type

- Dedicated to inside diameter measurement with minimum-value holding and tolerance judgment functions*.
Use together with a Mitutoyo bore gage (refer to pages C-31 to C-48 for details).
- Five buttons, status icons, and clear button indications allow easy operation and various functions.
- Wide display and analog bar graph are standard on all models.
- Up to three sets of master values and upper/lower tolerance values can be stored to simplify the master setting.
- By using the parameter setup kit (optional) and the dedicated software, the functions and the parameters can be configured using a computer.
* Tolerance judgment results cannot be output.



543-312B-10

SPECIFICATIONS

Inch / Metric		ASME / ANSI / AGD type						
Order No.	Range	Resolution	Accuracy (in)	Hysteresis	Repeatability	Measuring force (N)	Battery life (normal use)	Mass (g)
543-312B-10	0.5 in / 12.7 mm	0.00005 / 0.0001 / 0.0005 in, 0.001 / 0.01 mm (selectable)	±0.00010	0.00010	0.00010	1.5 or less	Approx. 1 year	170

Inch / Metric		ISO / JIS Type						
Order No.	Range	Resolution	Accuracy (mm)	Hysteresis H_{MPE}	Repeatability R_{MPE}	Measuring force (N)	Battery life (normal use)	Mass (g)
543-311B-10	0.5 in / 12.7 mm	0.00005 / 0.0001 / 0.0005 in, 0.001 / 0.01 mm (selectable)	0.003	0.003	0.002	1.5 or less	Approx. 1 year	170

Metric		ISO / JIS Type						
Order No.	Range (mm)	Resolution (mm)	Accuracy (mm)	Hysteresis H_{MPE}	Repeatability R_{MPE}	Measuring force (N)	Battery life (normal use)	Mass (g)
543-310B-10	12.7	0.001 / 0.01 (selectable)	0.003	0.003	0.002	1.5 or less	Approx. 1 year	170

- Power source: CR2032 battery (1 pc.), included as standard

MeasurLink¹ ENABLED
Data Management Software by Mitutoyo

ABSOLUTE™



Example of use with a bore gage (sold separately)



Functions

- Minimum value detection
Note: Peak detection
 - 1) Sampling rate: 50 readings/s
 - 2) Capturing speed: 50 $\mu\text{m/s}$ (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

Refer to page F-13.

- Parameter setup kit (optional)
Refer to page F-13 for details.

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-49 and C-50 for details.