Functions
- Minimum value detection
- 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 external device is connected)
- Data saving/calling
  (when external device is connected)
- Data output
- External PC setting input
- Display rotation
- Low battery voltage alarm display
- Error alarm display

Optional Accessories
- SPC Cable:
  905338 (1 m)
  905409 (2 m)
- 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 F-60 for details.
- Connecting Cables for U-WAVE-T (160 mm) :
  02AZD790F
  For footswitch : **02AZE140F**
  Refer to page F-60 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.

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

MeasurLink® ENABLED
Data Management Software by Mitutoyo

- Dedicated to inside measurement with minimum-value Hold and tolerance judgment functions.
- Measurement data memory function (9 measurement results can be stored)
- Simple operation of many functions with five buttons and status icons.
- Wide LCD and new analog bar graph are now standard on all models.
- The ABS (absolute) scale restores the last origin position 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).

543-310B

*Usage example
The Bore Gage is optional.

SPECIFICATIONS

☐ ISO/JIS type   ☐ ASME/ANSI/AGD type

Metric

Order No.*	Range	Resolution	Accuracy*1			Power supply	Battery life (normal use)*3	Net weight
			Overall*2	Hysteresis	Repeatability			
543-310B	12.7 mm	0.001/0.01 mm	0.003 mm	0.002 mm	0.002 mm	CR2032 x 1 pc.	Approx. 1 year	170 g

*Flat back only

Inch/Metric

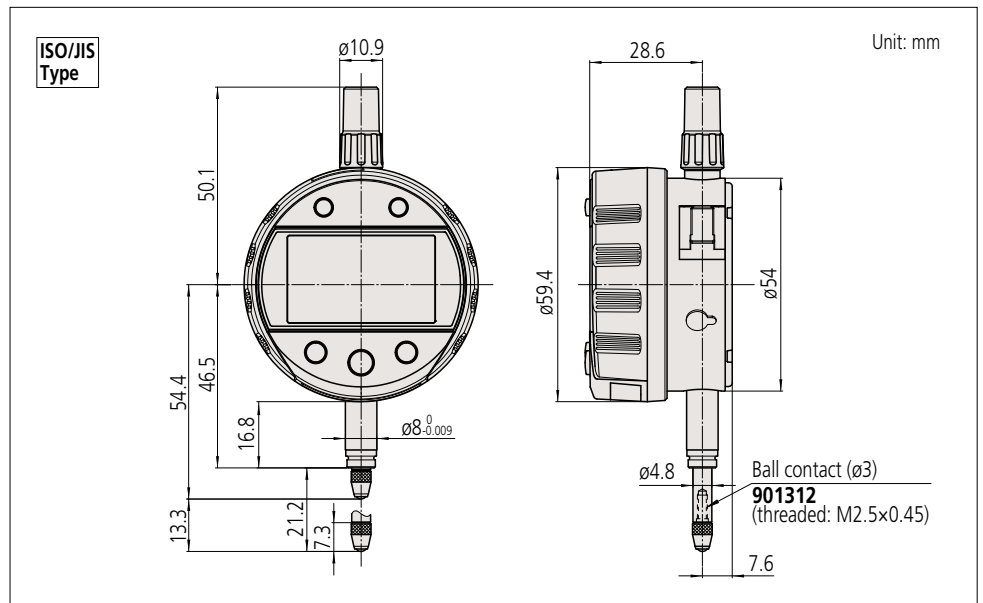| Order No.*	Range	Resolution	Accuracy*1			Power supply	Battery life (normal use)*3	Net weight
			Overall*2	Hysteresis	Repeatability			
543-311B	0.5 in/	0.00005/0.0001/0.0005 in	±0.00010 in	0.00010 in	0.00010 in	CR2032	Approx. 1 year	170 g
543-312B	12.7 mm	/ 0.001/0.01 mm	/ 0.003 mm	/ 0.002 mm	/ 0.002 mm	x 1 pc.		

*Flat back only
*1 Quantizing error of ±1 count is excluded. Valid for resolution set to 0.001 mm/0.00005 inch
*2 Overall magnification and linearity.
*3 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.

DIMENSIONS

ISO/JIS Type

Unit: mm

ø10.9
50.1
54.4
46.5
16.8
13.3
21.2
7.3
ø8 0/-0.009

28.6
ø59.4
ø54
ø4.8
Ball contact (ø3)
901312
(threaded: M2.5×0.45)
7.6

Note 1: Dimensions of the inch (ANSI/AGD Type) dial indicator partly differ from those of the metric (ISO/JIS Type) indicator.
Note 2: Inch (ANSI/AGD Type) dial indicators are provided with a stem of 3/8 inch dia. and #4-48UNF thread mount for the contact point.

F

Mitutoyo reserves the right to change any or all aspects of any product specification, including prices, designs and service content, without notice.

F-10

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