

ABSOLUTE Digimatic Indicator ID-CNX SERIES 543 — Standard Type

- Supports bidirectional communication between the **ID-C** and the computer, enabling data output to a computer and setting of various functions of **ID-C** from a computer.
- 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.
- Tolerance judgment can be performed by setting upper and lower tolerance limits.
The judgment result (GO/NO-GO) can be displayed in full-size characters.
- An analog bar indicator has been integrated to make upper/lower limit and turnover point reading more comfortable.
- Battery life of approx. 2.5 years under normal use has been achieved with only one battery.
- Equipped with a data output port that enables incorporation into measurement networking and statistical process control systems.

* Refer to "Origin Setting of Digimatic Indicators" on page 2-29.



Measuring range
12.7 mm
543-700B



Low measuring
force model
543-705B



Measuring range
25.4 mm
543-720B



Measuring range
50.8 mm
543-730B

Tips

For details of each mark, see Intro page 13.

MeasurLink **ENABLED**
Data Management Software by Mitutoyo

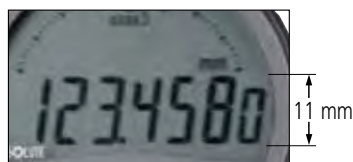
ABSOLUTE™



Refer to "Optional accessories" on page 2-31.

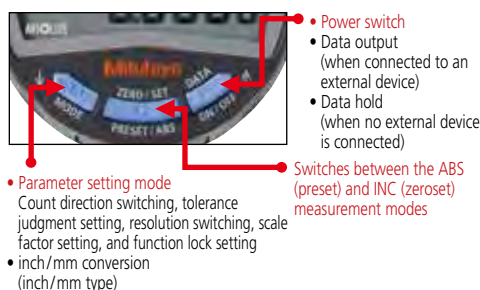
Large LCD

A large LCD with an analog bar graph to improve the readability of measurement values.



Three large buttons

The ease of use has been greatly enhanced thanks to these three large buttons. The user can freely set any frequently used function to the buttons.



Calibration schedule warning

An icon is displayed on the LCD to notify the user of the set calibration schedule. This function facilitates the proper precision management of the measuring instrument.



The calibration schedule warning icon starts blinking at a set time (e.g. 1 week before the calibration date) before the limit. If the limit is exceeded, the entire screen starts blinking to notify the user.

330° rotary display

The display can be rotated 330°, allowing use at a position where you can easily read the measurement value.



Specifications

Metric

ISO/JIS type ASME/ANSI/AGD type

Order No.		Range (mm)	Resolution (mm)	Maximum permissible error MPE*1 (mm)			Measuring force MPL (N)	Net mass (g)	
w/lug	Flat back			MPE _E *3	Hysteresis MPE _H	Repeatability MPE _R		w/lug	Flat back
543-700	543-700B	12.7	0.0005/	0.003	0.002	0.002	1.5 or less	175	165
543-705*2	543-705B*2	25.4	0.001/0.01				0.4 to 0.7	170	160
—	543-720B	50.8	(selectable)				1.8 or less	—	195
—	543-730B			0.005			2.3 or less	—	260
543-710	543-710B	12.7	0.01	0.02	0.02	0.01	0.9 or less	170	160
543-715*2	543-715B*2	25.4					0.2 to 0.5	165	155
—	543-725B	50.8					1.8 or less	—	190
—	543-735B			0.04			2.3 or less	—	245

*1 These values apply at 20 °C.

*2 Low measuring force

*3 Error of indication for the total measuring range

Inch/Metric

Order No.		Range	Resolution	Maximum permissible error MPE*1			Measuring force MPL (N)	Net mass (g)	
w/lug	Flat back			MPE _E *3	Hysteresis MPE _H	Repeatability MPE _R		w/lug	Flat back
543-701	543-701B	0.5 in/ 12.7 mm	0.00002/	±0.00012 in /0.003 mm	0.00008 in /0.002 mm	0.00008 in /0.002 mm	1.5 or less	175	165
543-702	543-702B		0.00005/				1.5 or less	195	165
543-706*2	543-706B*2		0.0001/				0.4 to 0.7	170	160
543-707*2	543-707B*2	1 in/ 25.4 mm	0.0005 in	±0.0002 in /0.005 mm	0.00008 in /0.002 mm	0.00008 in /0.002 mm	0.4 to 0.7	190	160
—	543-721B	2 in/ 50.8 mm	0.0005/				1.8 or less	—	195
—	543-722B		0.001/				1.8 or less	—	195
—	543-731B		0.01 mm	±0.001 in /0.02 mm	0.001 in /0.02 mm	0.0005 in /0.01 mm	2.3 or less	—	260
—	543-732B		(selectable)				2.3 or less	—	260
—	543-733B						0.9 or less	170	160
543-711	543-711B	0.5 in/ 12.7 mm	0.0005 in/ 0.01 mm	±0.001 in /0.02 mm	0.001 in /0.02 mm	0.0005 in /0.01 mm	0.9 or less	190	160
543-712	543-712B	2 in/ 50.8 mm					0.2 to 0.5	165	155
543-716*2	543-716B*2						0.2 to 0.5	185	155
543-717*2	543-717B*2	1 in/ 25.4 mm	0.0005 in/ 0.01 mm	±0.0015 in /0.04 mm	0.001 in /0.02 mm	0.0005 in /0.01 mm	1.8 or less	—	190
—	543-726B	2 in/ 50.8 mm					1.8 or less	—	190
—	543-727B						2.3 or less	—	245
—	543-736B			±0.0015 in /0.04 mm	0.001 in /0.02 mm	0.0005 in /0.01 mm	2.3 or less	—	245
—	543-737B						2.3 or less	—	245

*1 These values apply at 20 °C.

*2 Low measuring force

*3 Error of indication for the total measuring range

Refer to "Optional accessories" on page 2-31.