ABSOLUTE Digimatic Indicator ID-H

SERIES 543 — High Accuracy and High Functional Type

FEATURES

- This new-generation digital indicator offers the excellent accuracy and functionality expected from the top 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.
- Maximum, minimum, or runout values can be displayed during measurement.
- GO/±NG judgment is performed by setting upper and lower tolerances. If a judgment result shows an out of tolerance condition, the display backlighting changes from green to red, so tolerance judgment can be made at a glance.
- SPC data output.
- RS-232C input/output

Remote controller (optional)

543-561 543-563

SPC

Mitutoyo guarantees the product quality. PROPRIETARY INSPECTION CERTIFICATE

(Refer to page VIII for details.)

SPECIFICATIONS

Metric

Resolution	Order No.*	Range	Accuracy
0.0005mm, 0.001mm	**543-561**	30.4mm	0.0015mm
	543-563	60.9mm	0.0025mm

* To denote your AC power cable add the following suffixes to the order No.: **A** for UL/CSA, **D** for CEE, **DC** for CCC, **E** for BS, **K** for EK, **No suffix** is required for JIS/100V

Inch/Metric

Resolution	Order No.*	Range	Accuracy
.00005", .0001", 0.0005mm, 0.001mm	**543-562**	1.2"	0.0015mm
	543-564	2.4"	0.0025mm

* To denote your AC power cable add the following suffixes to the order No.: **A** for UL/CSA, **D** for CEE, **DC** for CCC, **E** for BS, **K** for EK, **No suffix** is required for JIS/100V

ISO/JIS type ANSI/AGD type

Tolerance judgment

Analog bar display

Max/Min value measurement

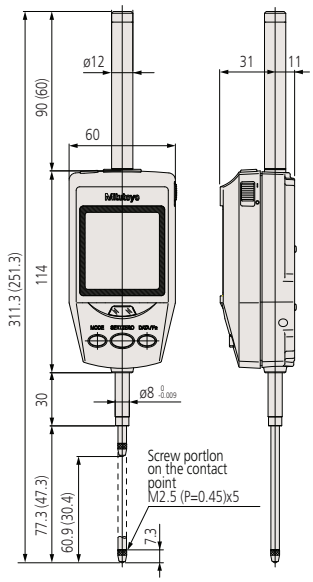
Runout measurement

Resolution switching

DIMENSIONS

ISO/JIS Type

Unit: mm



( ): **543-561**

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 indicator is provided with a stem of 3/8" dia. and #4-48UNF thread mount for the contact point.

Technical Data

Accuracy: Refer to the list of specifications (excluding quantizing error)
Resolution: 0.0005mm/0.001mm or .00002"/.00005"/.0001"/0.0005mm/0.001mm
Display: LCD Character Height 9.5mm
Scale type: Photoelectric linear encoder
Max. response speed: 1000mm/s
Measuring force: 2.0N/2.5N* or less (*60mm range models)
Stem dia.: 8mm (ISO/JIS type) or 3/8" (ANSI/AGD type)
Contact point: Carbide ball with M2.5x0.45 (ISO/JIS type)
Carbide ball with #4-48UNF (ANSI/AGD type)
Power supply: 6V DC (via AC adaptor)

Functions

Preset, Zeroset, GO/±NG judgment, Max/Min value hold, Runout measurement, Resolution switching, Counting direction switching, Power ON/OFF, Data output, inch/mm conversion (inch/mm models)
Function lock, Data hold
Alarm: Counting value composition error, Overflow error, Tolerance limit setting error

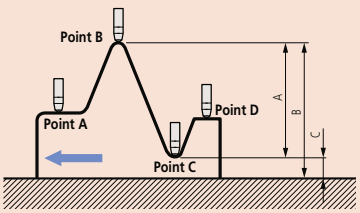
Optional Accessories

936937: SPC cable (1m)
965014: SPC cable (2m)
02AZD790E: SPC cable for U-WAVE(160mm)
21EAA131: RS-232C cable (2m)
21EZA099: Remote controller
540774: Spindle lifting cable (stroke: 30mm)
21EZA101: Spindle lifting knob
264-504: Digimatic Min-processor DP-1VR
543-004: Digimatic presetter
215-153-10: Granite comparator stand
215-505: Comparator stand
———: Backs (See page F-40.)
———: Contact points (See page F-36.)

*Required when orienting the indicator upside down.

Application

Difference/Runout measurement
Example: Indicator travel from points A to D
Difference (or Total Runout) is displayed as A. Dimensions B (maximum value) and C (minimum value) can be recalled from memory with a simple key sequence.



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