

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 0.0005mm / .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 judgement is performed by setting upper and lower tolerances. If a judgement result shows an out of tolerance condition, the display backlighting changes from green to red, so tolerance judgement can be made at a glance.
- SPC data output.
- RS-232C input/output



Remote controller (optional)



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

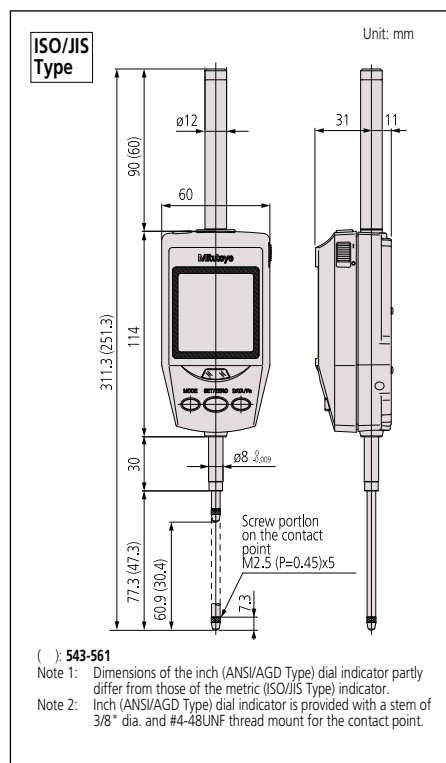
Inch/Metric			
Resolution	Order No.*	Range	Accuracy
.00005", .0001", 0.0005mm, 0.001mm	543-562	1.2"	0.0015mm
	543-564	2.4"	0.0025mm

* 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

DIMENSIONS



Tolerance judgement



Analog bar display



Max/Min value measurement



Runout measurement



Resolution switching



SPC



(Refer to page IV for details.)

Technical Data

Accuracy: Refer to the list of specifications (excluding quantizing error)

Resolution: 0.0005mm/0.001mm or 0.0002"/0.0005"/0.0001"/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, Zero set, GO/±NG judgement, 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.

