

ABSOLUTE Digimatic Indicator ID-C

SERIES 543 — Standard Type

FEATURES

- As compact as standard Series 2 dial indicators.
- Large, easy-to-read LCD.
- ZERO/ABS key: Allows the display to be Zero-Set at any spindle position for comparison measurements. This switch will also allow return to the absolute coordinate and display of the true position from the origin point.
- GO/±NG judgment can be performed by setting upper and lower tolerance limits. The judgment result (GO/±NG) can be displayed in full-size characters.
- Internal calculations using the simple formula of $[F(x) = Ax]$ are available.
- The positive/negative count resulting from the spindle's up/down movement can be toggled.
- Unlimited response speed eliminates spindle over-speed errors.
- The indicator face can be rotated 330° to an appropriate angle for easy reading.
- With SPC data output.



543-390
IP42

543-470B
IP42

543-490B
IP42

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
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SPC

ABSOLUTE®
Absolute System Patented by MITUTOYO

(Refer to the page 9 for details.)

Technical Data

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

Resolution:

0.01mm type	0.01mm
0.001mm type	0.001mm/0.001mm
.0005"/0.01mm type	.0005"/0.01mm
.00005"/0.001mm type	.0005"/.0001"/.00005"/0.01mm/0.001mm

Display: LCD
Length standard: ABSOLUTE electrostatic capacitance type linear encoder

Max. response speed: Unlimited

Measuring force: Refer to the list of specifications

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)

Battery: SR44 (1 pc.), **938882**

Battery life: Approx. 7,000 hours under normal use

Dust/Water protection level: IP42

Function

Origin-set/Presets, Zeroset, GO/±NG judgment, Counting direction switching, Power ON/OFF, Simplified calculation, Function lock, Data hold, Data output, inch/mm conversion (inch/mm models)

Alarm: Low voltage, Counting value composition error, Over-flow error, Tolerance limit setting error

Optional Accessory

905338: SPC cable (1m)

905409: SPC cable (2m)

21EZA198: Spindle lifting lever (12.7mm/.5" ISO/JIS type)

21EZA199: Spindle lifting lever (12.7mm/.5" ANSI/AGD type)

21EZA105: Spindle lifting knob (12.7mm/.5" ISO/JIS type)*

21EZA150: Spindle lifting knob (12.7mm/.5" ANSI/AGD type)*

21EZA197: Spindle lifting knob (25.4mm/1", 50.8mm/2" models)

540774: Spindle lifting cable

02ACA571: Auxiliary spindle spring (25.4mm/1" models)**

02ACA773: Auxiliary spindle spring (50.8mm/2" models)**

Backs (See page 266.)

—: Lug-on-center back (25.4mm/1" and

50.8mm/2", ISO/JIS type)

—: Lug-on-center back (25.4mm/1" and

50.8mm/2", ANSI/AGD type)

—: Contact points (See page 264.)

*Not available for low measuring force models.

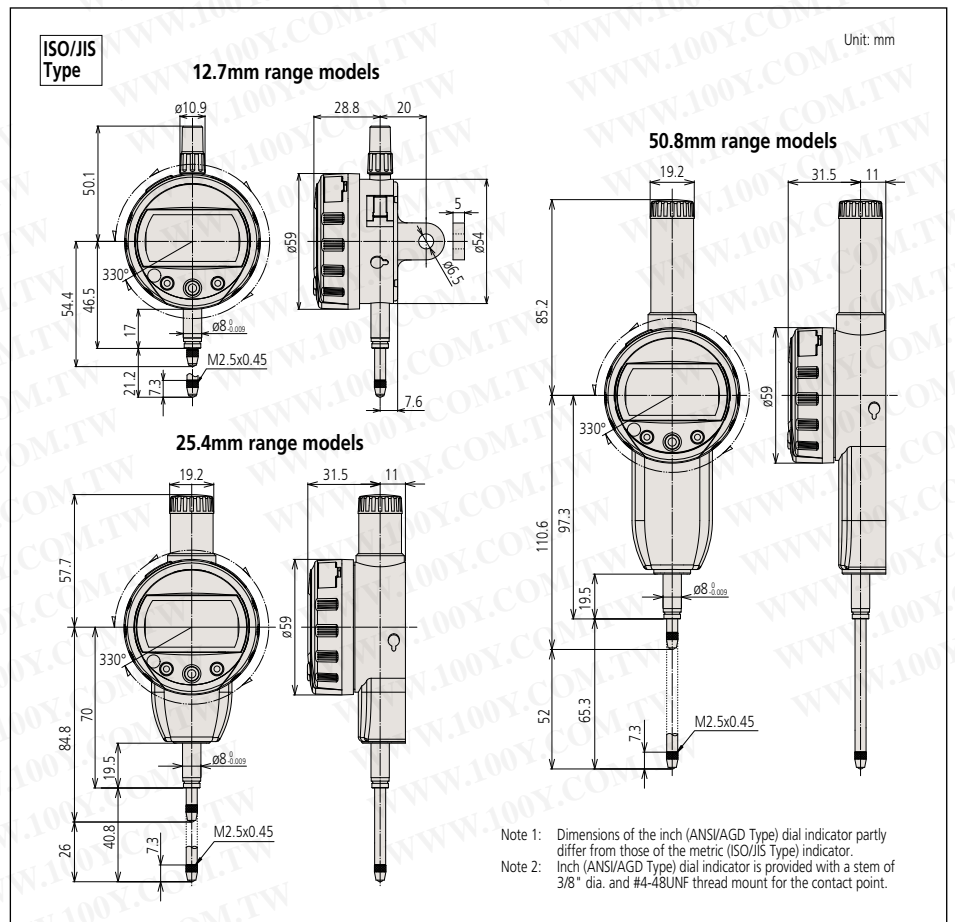
**Required when orienting the indicator upside down.

SPECIFICATIONS

Resolution*	Metric		Range	Accuracy	Measuring force	Remarks
	Order No. (w/ lug, flat-back)	Order No. (w/ lug, flat-back)				
0.001mm	543-390	543-390B	12.7mm	0.003mm	1.5N or less	—
0.001mm	543-394	543-394B	12.7mm	0.003mm	0.4N - 0.7N	Low measuring force
0.001mm	—	543-470B	25.4mm	0.003mm	1.8N or less	—
0.001mm	—	543-490B	50.8mm	0.005mm	2.3N or less	—
0.01mm	543-400	543-400B	12.7mm	0.02mm	0.9N or less	—
0.01mm	543-404	543-404B	12.7mm	0.02mm	0.2N - 0.5N	Low measuring force
0.01mm	—	543-474B	25.4mm	0.02mm	1.8N or less	—
0.01mm	—	543-494B	50.8mm	0.04mm	2.3N or less	—

Resolution*	Inch/Metric		Range	Accuracy	Measuring force	Remarks
	Order No. (w/ lug, flat-back)	Order No. (w/ lug, flat-back)				
.00005"/0.001mm	543-391	543-391B	.5"	.0001"	1.5N or less	—
.00005"/0.001mm	543-392	543-392B	.5"	.0001"	1.5N or less	—
.00005"/0.001mm	543-395	543-395B	.5"	.0001"	0.4N - 0.7N	Low measuring force
.00005"/0.001mm	543-396	543-396B	.5"	.0001"	0.4N - 0.7N	Low measuring force
.00005"/0.001mm	—	543-471B	1"	.0001"	1.8N or less	—
.00005"/0.001mm	—	543-472B	1"	.0001"	1.8N or less	—
.00005"/0.001mm	—	543-491B	2"	.0002"	2.3N or less	—
.00005"/0.001mm	—	543-492B	2"	.0002"	2.3N or less	—
.0005"/0.01mm	543-401	543-401B	.5"	.001"	0.9N or less	—
.0005"/0.01mm	543-402	543-402B	.5"	.001"	0.9N or less	—
.0005"/0.01mm	543-405	543-405B	.5"	.001"	0.2N - 0.5N	Low measuring force
.0005"/0.01mm	543-406	543-406B	.5"	.001"	0.2N - 0.5N	Low measuring force
.0005"/0.01mm	—	543-475B	1"	.001"	1.8N or less	—
.0005"/0.01mm	—	543-476B	1"	.001"	1.8N or less	—
.0005"/0.01mm	—	543-495B	2"	.0015"	2.3N or less	—
.0005"/0.01mm	—	543-496B	2"	.0015"	2.3N or less	—

DIMENSION



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