

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.



(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/Preset, 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

Metric		ISO/JIS type	ANSI/AGD type			
Resolution*	Order No. (w/ lug, flat-back)	Range	Accuracy	Measuring force	Remarks	
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	—	

Inch/Metric		ISO/JIS type	ANSI/AGD type			
Resolution*	Order No. (w/ lug, flat-back)	Range	Accuracy	Measuring force	Remarks	
.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

