

# ABSOLUTE Digimatic Indicator ID-C

## SERIES 543 — Standard Type

### FEATURES

- As compact as standard Series 2 dial indicators.
- Large, easy-to-read LCD.
- 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.
- The positive/negative count resulting from the spindle's up/down movement can be toggled.
- Internal calculations using the simple formula of  $[F(x) = Ax]$  are available.
- Employing the ABSOLUTE linear encoder, the ID-C always displays the spindle "Absolute Position" from the origin at power-on. Also unlimited response speed eliminates over-speed errors.
- The ID-C indicator face can be rotated 330° to an appropriate angle for easy reading.
- With SPC data output.



### Technical Data

Accuracy: Refer to the list of specifications  
 Resolution: 0.01mm type 0.01mm  
 0.001mm type 0.001mm/0.01mm  
 .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  
 Battery: SR44 (1 pc.), **938882**  
 Battery life: Approx. 5,000 hours under normal use  
 Dust/Water protection level: IP42 or IP53 (dust-proof type)

### Function

Origin-set/Preset, Zeroset, GO/±NG judgment, Counting direction switching, Power ON/OFF, Data output, inch/mm conversion (on inch/metric models only)  
 Alarm: Low voltage, Counting value composition error, Over-flow error, Tolerance limit setting error  
 Internal calculations using the simple formula of  $[F(x) = Ax]$  are available.

### Optional Accessories

- 905338:** SPC cable (40" / 1m)
- 905409:** SPC cable (80" / 2m)
- 21EZA198:** Spindle lifting lever (ISO/JIS type)\*
- 21EZA199:** Spindle lifting lever (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)
- 21EZA200:** Spindle lifting knob (50.8mm/2")
- 540774:** Spindle lifting cable (stroke: (1"/ 25.4mm)
- 02ACA571:** Auxiliary spindle spring for 25mm/1" models\*\*\*
- 02ACA773:** Auxiliary spindle spring for 50mm/2" models\*\*\*
- : Backs (See page F-33.)
- : Contact points (See page F-34.)

\*Can be used on 12mm/.5" models only.  
 \*\*Not available for low measuring force models.

## SPECIFICATIONS

**Inch/Metric**

Stem dia. 3/8", #4-48 UNF Thread

ISO/JIS type

ANSI/AGD type

Resolution	Range	Order No. (w/lug, flat-back)		Model	Accuracy	Measuring force	Remarks
.00005"/0.001mm	.5" / 12.7mm	<b>543-392</b>	<b>543-392B</b>	ID-C112EXB	.0001"	1.5N or less	—
.00005"/0.001mm	.5" / 12.7mm	<b>543-396</b>	<b>543-396B</b>	ID-C112CEX	.0001"	0.4N - 0.7N	Low measuring force
.00005"/0.001mm	1" / 25.4mm	—	<b>543-472B</b>	ID-C125EXB	.0001"	1.8N or less	—
.00005"/0.001mm	2" / 50.8mm	—	<b>543-492B</b>	ID-C150EXB	.0002"	2.3N or less	—
.0005"/0.01mm	.5" / 12.7mm	<b>543-402</b>	<b>543-402B</b>	ID-C1012EX	.001"	0.9N or less	—
.0005"/0.01mm	.5" / 12.7mm	<b>543-406</b>	<b>543-406B</b>	ID-C1012CEX	.001"	0.2N - 0.5N	Low measuring force
.0005"/0.01mm	1" / 25.4mm	—	<b>543-476B</b>	ID-C1025EXB	.001"	1.8N or less	—
.0005"/0.01mm	2" / 50.8mm	—	<b>543-496B</b>	ID-C112CEXB	.0016"	2.3N or less	—

**Inch/Metric**

Stem  $\varnothing$  8mm, M2.5 x 0.45 Thread

Resolution	Range	Order No. (w/lug, flat-back)		Model	Accuracy	Measuring force	Remarks
.00005"/0.001mm	.5" / 12.7mm	<b>543-391</b>	<b>543-391B</b>	ID-C112MX	.0001"	1.5N or less	—
.00005"/0.001mm	.5" / 12.7mm	<b>543-395</b>	<b>543-395B</b>	ID-C112CMX	.0001"	0.4N - 0.7N	Low measuring force
.00005"/0.001mm	1" / 25.4mm	—	<b>543-471B</b>	ID-C125MXB	.0001"	1.8N or less	—
.00005"/0.001mm	2" / 50.8mm	—	<b>543-491B</b>	ID-C150MXB	.0002"	2.3N or less	—
.0005"/0.01mm	.5" / 12.7mm	<b>543-401</b>	<b>543-401B</b>	ID-C1012MX	.001"	0.9N or less	—
.0005"/0.01mm	.5" / 12.7mm	<b>543-405</b>	<b>543-405B</b>	ID-C1012CMX	.001"	0.2N - 0.5N	Low measuring force
.0005"/0.01mm	1" / 25.4mm	—	<b>543-475B</b>	ID-C1025MXB	.001"	1.8N or less	—
.0005"/0.01mm	2" / 50.8mm	—	<b>543-495B</b>	ID-C1050MXB	.0016"	2.3N or less	—

**Metric**

Stem  $\varnothing$  8mm, M2.5 x 0.45 Thread

Resolution	Range	Order No. (w/lug, flat-back)		Model	Accuracy	Measuring force	Remarks
0.001mm	12.7mm	<b>543-390</b>	<b>543-390B</b>	ID-C112X	0.003mm	1.5N or less	—
0.001mm	12.7mm	<b>543-394</b>	<b>543-394B</b>	ID-C112CX	0.003mm	0.4N - 0.7N	Low measuring force
0.001mm	25.4mm	—	<b>543-470B</b>	ID-C125XB	0.003mm	1.8N or less	—
0.001mm	50.8mm	—	<b>543-490B</b>	ID-C150XB	0.006mm	2.3N or less	—
0.01mm	12.7mm	<b>543-400</b>	<b>543-400B</b>	ID-C1012X	0.02mm	0.9N or less	—
0.01mm	12.7mm	<b>543-404</b>	<b>543-404B</b>	ID-C1012CX	0.02mm	0.2N - 0.5N	Low measuring force
0.01mm	25.4mm	—	<b>543-474B</b>	ID-C1025XB	0.03mm	1.8N or less	—

## Technical Data

Resolution:	0.01mm type	0.01mm
	0.001mm type	0.001mm/0.01mm
	.0005"/0.01mm type	.0005"/0.01mm
	.00005"/0.001mm type	.0005"/0.001"/.00005"/0.01mm/0.001mm

## DIMENSIONS

