

Digimatic Indicators

SERIES 543 – ABSOLUTE Digimatic Indicator ID-CX

- Employing the ABSOLUTE Linear Encoder, the ID-CX indicator always displays the absolute position of the plunger from the origin at power-on.
- Thanks to the ABSOLUTE Linear Encoder, reliability has been increased due to elimination of over-speed errors.
- Tolerance-judging measurement is available by setting upper and lower limit values. The tolerance judgement result can be enlarged.
- Equipped with a data output port that enables incorporation into measurement networking and statistical process control systems.

ABSOLUTE

IP42



Technical Data

Display:	6-digit LCD and sign
Scale type:	ABSOLUTE electrostatic linear encoder
Max. response speed:	Unlimited (measurement by scanning cannot be performed)
Stem dia.:	8 mm
Standard contact point:	901312
Battery:	SR44 (1 pc.), 938882
Battery life:	Approx. 7,000 hours under normal use
Dust/water protection level:	IP42

Functions

Preset, Zeroset, GO/±NG judgement, Counting direction switching, Power ON/OFF, Simplified calculation, Function lock, Data hold, Data output, inch/mm reading
 Alarm: Low voltage, Counting value composition error, Overflow error, Tolerance limit setting error

Optional Accessories

905338:	SPC data cable (1 m) £32.90
905409:	SPC data cable (2 m) £36.80
02AZD790F:	SPC data cable for U-WAVE-T (160 mm) £52.20
02AZE140F:	SPC data cable for U-WAVE-T and footswitch (160/500 mm) £107.00
21EZA198:	Plunger lifting lever (12.7 mm / .5" type) £5.10
21EZA105:	Plunger lifting knob (12.7 mm / .5" type)*1 £10.90
21EZA197:	Plunger lifting knob (25.4 mm / 1" type) £39.50
21EZA200:	Plunger lifting knob (50.8 mm / 2" type) £38.00
540774:	Plunger lifting cable (12.7 mm and 25.4 mm) £20.50
02ACA571:	Auxiliary plunger spring (25.4 mm / 1" type)*2 £5.10
02ACA773:	Auxiliary plunger spring (50.8 mm / 2" type)*2 £5.40
264-504-5E:	Digimatic Mini-Processor DP-1VR £342.00

Contact points for Mitutoyo's dial indicators (refer to pages F-37 to F-40 for details)

Interchangeable backs (refer to page F-41 for details)

Measuring stands (refer to pages F-70 to F-73 for details)

*1 Not available for low measuring force models.

*2 Required when orienting the indicator upside down.

SPECIFICATIONS

Inch/Metric							
Code No.	Range	Overall*1	Hysteresis*1	Repeatability*1	Measuring force	Remarks	Price
Resolution: .0005" / .0001" / .00005" / 0.01 mm / 0.001 mm							
543-391B	.5" / 12.7 mm	.0001" / 0.003 mm	.0001" / 0.002 mm	.0001" / 0.002 mm	1.5N or less	Low measuring force	£253.00
543-395B	.5" / 12.7 mm				0.4N - 0.7N		£293.00
543-471B	1" / 25.4 mm				1.8N or less*2		£364.00
543-491B	2" / 50.8 mm				2.3N or less*2		£394.00
Resolution: .0005" / 0.01 mm							
543-401B	.5" / 12.7 mm	.001" / 0.02 mm	.001" / 0.02 mm	.0005" / 0.02 mm	0.9N or less	—	£198.00
543-475B	1" / 25.4 mm				1.8N or less*2		£289.00

*1 Quantizing error of ±1 count is excluded.

*2 Plunger direction is up to direction in which plunger is horizontal.