

ABSOLUTE Digimatic Indicator ID-S

SERIES 543 — with Economical Design

FEATURES

- As compact as standard Series 2 dial indicators.
- The ID-S indicates the absolute position of the spindle from the origin point at power-on, allowing measurement to start immediately.
- Zero-setting is performed with the ORIGIN button, and this setting does not have to be repeated during the entire life of the battery, even after power-off.
- Measurement error due to spindle over-speed is eliminated with the ABSOLUTE Encoder.
- SPC data output.



543-690

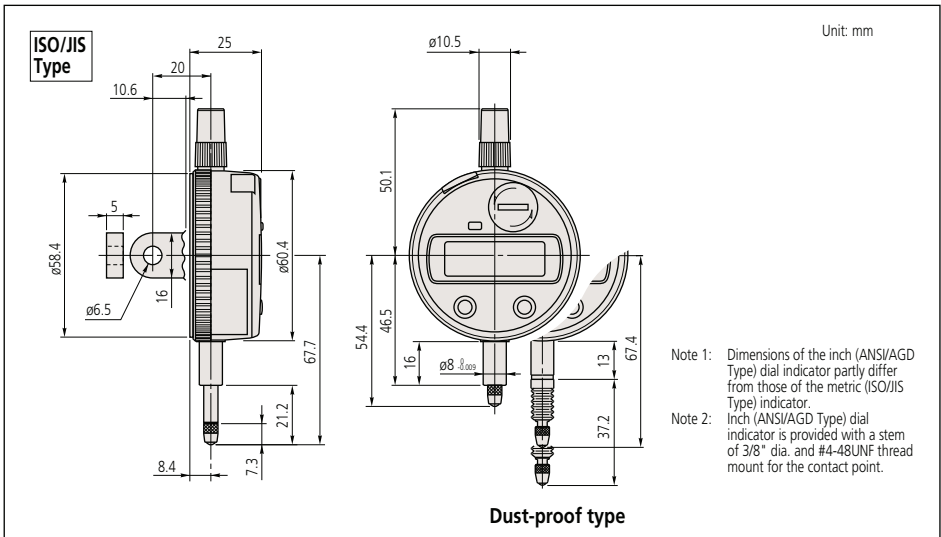


SPECIFICATIONS

Metric				ISO/JIS type		ANSI/AGD type	
Resolution	Order No. (w/ lug, flat-back)	Range	Accuracy	Measuring force	Remarks		
0.001mm	543-690	543-690B	12.7mm	0.003mm	2.0N or less	—	
0.001mm	543-694	543-694B	12.7mm	0.003mm	2.5N or less	Dust-proof (IP53)	
0.01mm	543-681	543-681B	12.7mm	0.02mm	2.0N 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	543-691	543-691B	.5"	.00012"	2.0N or less	—	
.00005"/0.001mm	543-695	543-695B	.5"	.00012"	2.5N or less	Dust-proof (IP53)	
.00005"/0.001mm	543-692	543-692B	.5"	.00012"	2.0N or less	—	
.00005"/0.001mm	543-696	543-696B	.5"	.00012"	2.5N or less	Dust-proof (IP53)	
.0001"/0.001mm	543-693	543-693B	.5"	.00012"	2.0N or less	—	
.0005"/0.01mm	543-682	543-682B	.5"	.0008"	2.0N or less	—	
.0005"/0.01mm	543-683	543-683B	.5"	.0008"	2.0N or less	—	

DIMENSIONS



(Refer to page VIII for details.)

Technical Data

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

Resolution: 0.01mm, 0.001mm, .0005"/0.01mm, .0001"/0.001mm or .00005"/0.001mm

Display: LCD Character Height 8.5mm

Scale type: ABSOLUTE electrostatic 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. 20,000 hours under normal use

Dust/Water protection level: IP42 (IP53: **543-694, 543-695, 543-696**)

Function

Origin-set, (Zeraset), Counting direction switching, Power ON/OFF, Data output, inch/mm conversion (inch/mm models)

Alarm: Low voltage, Counting value composition error

Optional Accessories

905338: SPC cable (1m)

905409: SPC cable (2m)

02AZD790F: SPC cable for U-WAVE(160mm)

903424: Spindle lifting lever (ISO/JIS type)

903425: Spindle lifting lever (ANSI/AGD type)

540774: Spindle lifting cable

02ACA376: Spare rubber boot (for dust-proof type)

02ACB610: Back with post

02ACB630: Adjustable back

02ACB640: Back with offset lug

02ACB650: Magnetic back

02ACB670: Back with screw mount

02ACB680: Back with adjustable bracket

—: Contact points (See page F-36.)