



Technical Data

Accuracy: Refer to the list of specifications
 Resolution: 0.01mm, 0.001mm, .0005"/0.01mm, .0001"/0.001mm or .00005"/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. 20,000 hours under normal use
 Dust/Water protection level: IP42 (IP53: **543-694, 543-695, 543-696**)

Function

Origin-set, Zero-set, 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

Optional Accessories

905338: SPC cable (40" / 1m)
905409: SPC cable (80" / 2m)
903424: Spindle lifting lever (ISO/JIS type)
903425: Spindle lifting lever (ANSI/AGD type)
540774: Spindle lifting cable (stroke: .4" / 10mm)
125317: Spare rubber boot (for dust-proof type)
02ACB420: Lug-on-center back for ISO/JIS type
02ACB430: Lug-on-center back for AGD type
02ACB440: Flat back
02ACB610: Back with post
02ACB620: Adjustable back for AGD type
02ACB630: Adjustable back (ISO/JIS type)
02ACB640: Back with offset lug
02ACB650: Magnetic back
02ACB660: Back with screw mount for AGD type
02ACB670: Back with screw mount (ISO/JIS type)
02ACB680: Back with adjustable bracket
 —: Contact points (See page F-34.)



ABSOLUTE Digimatic Indicator ID-S

SERIES 543 — with Simple Design

FEATURES

- As compact as standard Series 2 dial indicators.
- After the initial zero-setting with the ORIGIN button, the repeated absolute positioning is no longer necessary over the entire battery life.
- Employing the ABSOLUTE linear encoder, the ID-S always displays the spindle "Absolute Position" from the origin at power-on. Also unlimited response speed eliminates over-speed errors.
- SPC data output.



543-683B



543-690

SPECIFICATIONS

Inch/Metric		Stem dia. 3/8", #4-48 UNF Thread				ISO/JIS type		ANSI/AGD type	
Resolution	Range	Order No.		Model	Accuracy	Measuring force	Remarks		
		w/ lug back	w/ flat-back						
.00005"/0.001mm	.5" / 12.7mm	543-692	543-692B	ID-S112E	.00012"	2.0N	—		
.00005"/0.001mm	.5" / 12.7mm	543-696	543-696B	ID-S112PE	.00012"	2.5N	Dust-proof		
.0001"/0.001mm	.5" / 12.7mm	543-693	543-693B	ID-S112T	.00012"	2.0N	—		
.0005"/0.01mm	.5" / 12.7mm	543-683	543-683B	ID-S1012E	.0008"	2.0N	—		

Inch/Metric		Stem ø 8mm, M2.5 x 0.45 Thread							
Resolution	Range	Order No.		Model	Accuracy	Measuring force	Remarks		
		w/ lug back	w/ flat-back						
.00005"/0.001mm	.5" / 12.7mm	543-691	543-691B	ID-S112M	.00012"	2.0N or less	—		
.00005"/0.001mm	.5" / 12.7mm	543-695	543-695B	ID-S112PM	.00012"	2.5N or less	Dust-proof		
.0005"/0.01mm	.5" / 12.7mm	543-682	543-682B	ID-S1012M	.0008"	2.0N or less	—		

Metric		Stem ø 8mm, M2.5 x 0.45 Thread							
Resolution	Range	Order No.		Model	Accuracy	Measuring force	Remarks		
		w/ lug back	w/ flat-back						
0.001mm	12.7mm	543-690	543-690B	ID-S112	0.003mm	2.0N or less	—		
0.001mm	12.7mm	543-694	543-694B	ID-S112P	0.003mm	2.5N or less	Dust-proof		
0.01mm	12.7mm	543-681	543-681B	ID-S1012	0.02mm	2.0N or less	—		

DIMENSIONS

