

ABSOLUTE Solar Digimatic Indicator ID-S

543 Series – With Simple Design

FEATURES

- Mitutoyo's unique ABSOLUTE sensor automatically restores the last origin position when the indicator is turned on. This allows quick-start operation, which is especially useful in multipoint measurement.
- Measurement tool with a solar power source. Ready for use from 40 lux illumination.
- As compact as Series 2 dial indicators.
- SPC Output provided
- Two large buttons (three on inch/mm models) improve functionality



SPECIFICATIONS

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

| Order | Model | Range | Resolution | Accuracy | Stem Diameter | Measuring Force | Back Type |
|----------|-------------|------------|-----------------|----------------|-----------------|-----------------|-----------|
| 543-502 | ID-S112ES | .5"/12.7mm | .00005"/0.001mm | .0001"/0.003mm | 3/8" (ANSI/AGD) | 1.5N or less | Lug Back |
| 543-502B | ID-S112ESB | .5"/12.7mm | .00005"/0.001mm | .0001"/0.003mm | 3/8" (ANSI/AGD) | 1.5N or less | Flat Back |
| 543-507 | ID-S1012ES | .5"/12.7mm | .0005"/0.01mm | .001"/0.02mm | 3/8" (ANSI/AGD) | 1.5N or less | Lug Back |
| 543-507B | ID-S1012ESB | .5"/12.7mm | .0005"/0.01mm | .001"/0.02mm | 3/8" (ANSI/AGD) | 1.5N or less | Flat Back |

Metric with 8mm dia. Stem, M2.5x.45 Thread

| Order | Model | Range | Resolution | Accuracy | Stem Diameter | Measuring Force | Back Type |
|----------|------------|--------|------------|----------|---------------|-----------------|-----------|
| 543-500 | ID-S112S | 12.7mm | 0.001mm | 0.003mm | 8mm (ISO) | 1.5N or less | Lug Back |
| 543-500B | ID-S112SB | 12.7mm | 0.001mm | 0.003mm | 8mm (ISO) | 1.5N or less | Flat Back |
| 543-505 | ID-S1012S | 12.7mm | 0.01mm | 0.02mm | 8mm (ISO) | 1.5N or less | Lug Back |
| 543-505B | ID-S1012SB | 12.7mm | 0.01mm | 0.02mm | 8mm (ISO) | 1.5N or less | Flat Back |

Inch/Metric with 8mm dia. Stem, M2.5x.45 Thread

| Order | Model | Range | Resolution | Accuracy | Stem Diameter | Measuring Force | Back Type |
|----------|-------------|------------|-----------------|----------------|---------------|-----------------|-----------|
| 543-501 | ID-S112MS | .5"/12.7mm | .00005"/0.001mm | .0001"/0.003mm | 8mm (ISO) | 1.5N or less | Lug Back |
| 543-501B | ID-S112MSB | .5"/12.7mm | .00005"/0.001mm | .0001"/0.003mm | 8mm (ISO) | 1.5N or less | Flat Back |
| 543-506 | ID-S1012MS | .5"/12.7mm | .0005"/0.01mm | .001"/0.02mm | 8mm (ISO) | 1.5N or less | Lug Back |
| 543-506B | ID-S1012MSB | .5"/12.7mm | .0005"/0.01mm | .001"/0.02mm | 8mm (ISO) | 1.5N or less | Flat Back |

Technical Data

Accuracy: Refer to the list of specifications
 Resolution: 0.01mm, 0.001mm, .00005"/0.001mm, or .0005"/0.01mm
 Display: LCD
 Length Standard: ABSOLUTE electrostatic capacitance type linear encoder
 Max. Response Speed: Unlimited
 Measuring Force: Refer to the list of specifications
 Battery: Solar Battery*
 Dust/Water Protection Level: IP42
 *can be used continuously above 40 lux

Function

Origin Set, Counting Direction Switching, in/mm conversion

Optional Accessories

21EZA198 Lifting lever (mm)
 21EZA199 Lifting lever (inch)
 540774 Lifting cable
 21EZA105 Lifting knob (mm)
 21EZA150 Lifting knob (inch)
 905338 SPC cable (1m)
 905409 SPC cable (2m)
 All Mitutoyo Series 2 standard backs

About the charge function:

Reserve capacity allows a fully charged ID-S Solar to be used for about 3.5 hours under light conditions below the minimum level. The charging time differs depending on the environment, but it usually takes about 1.5 hours for a fully discharged ID-S Solar to fully recharge under light conditions of 500 lux.

DIMENSIONS

