

IDC Series Absolute Digimatic Indicators

SERIES 543 — Standard Type with Multiple Functions



543-252



543-452B



543-462B

SPC
ABSOLUTE

Mitutoyo's new IDC Series Digimatic Indicator presents error-free digital readings in measurements. Its unique ABSOLUTE Linear Encoder keeps track of the origin point once set over the entire battery life, allowing the large LCD screen to display the actual spindle position from the origin point at power-on. Whenever turned on, the operator can take measurements with no need for preliminary absolute positioning.

FEATURES

- As compact as standard Series 2 dial indicators.
- Large, easy-to-read LCD.
- ZERO/ABS key: Allows the display to be Zero-Set at any spindle position for comparison measurements. This switch will also allow return to the absolute coordinate and display of the true position from the origin point.
- 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.
- Unlimited response speed eliminates spindle over-speed errors.
- The IDC indicator face can be rotated 330° to an appropriate angle for easy reading.
- The measurement data can be output to an external data processor using the optional SPC cable.

Technical Data

Display:	LCD
Functions:	Origin-Set (preset), Zero-Set, power on/off, inch/mm conversion (inch/mm type only), SPC data output, counting direction switching, GO/±NG judgment
Battery:	SR44 (1 pc.) (938882)
Battery life:	Approx. 5000 hours in continuous use
Stem diameter:	8mm (ISO/JIS type) or 3/8" (ANSI/AGD type)
Contact point:	Carbide ball with M2.5x0.45 thread (ISO/JIS type) or steel ball with #4-48UNF thread (ANSI/AGD type)
Alarm:	Low battery voltage, scale contamination, over-flow error, tolerance limit setting error
Dust/Water protection level:	Conforming to IP42
Operating temperature:	0°C to 40°C

OPTIONAL ACCESSORIES

Order No.	Description
905338	SPC cable (1m)
905409	SPC cable (2m)
902011	Spindle lifting lever (ISO/JIS type)*
902794	Spindle lifting lever (ANSI/AGD type)*
540774	Spindle lifting cable
101040	Lug-on-center back (ISO/JIS type)**
101306	Lug-on-center back (ANSI/AGD type)**
02ACA571	Auxiliary spindle spring (for 25mm IDC)***
02ACA773	Auxiliary spindle spring (for 50mm IDC)***

*Can be used on 12mm (.5") IDC only.

**Can be used on 25mm (1") IDC or 50mm (2") IDC.

***Required when orienting an IDC upside down.

Metric

Note: A 0.01mm reading type IDC is available with a measuring accuracy equal to that of the 0.001mm reading type.

Note: A .0005"/0.01mm reading type IDC is available with a measuring accuracy equal to that of the .00005"/0.001mm reading type.

