

Mitutoyo Absolute Digimatic dial indicators with calculation function ID-C

Multi-functional dial indicators with absolute measuring system and built-in calculation function for various applications. The results, for example inside and outside diameter, groove width, bore diameter and curve radius, are determined based on the spindle displacement x ; formula: $Ax + B + Cx^{-1}$. The coefficients A, B and C can be set and the calculations are processed and displayed real-time. Besides the calculation function these dial indicators have the following functions: tolerance judgement, zero point setting, memory for min/max value, hold function and data output.

- Measuring range: 0- 50.8 mm.
- Resolution: 0.0002 to 1 mm, switchable.
- ABS/INC switchable.
- LCD display 330° rotatable.
- Digimatic data output.
- Reset/preset.
- Max. measuring speed: any.
- Clamping stem: \varnothing 8 mm.
- Adjustable tolerance limits.
- Protection: IP42.
- Power supply: 1 battery type V357.



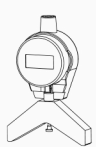
Item No.	Measuring range/mm	Accuracy mm	Measuring force/N
543.285	0- 12.7	± 0.003	≤ 1.5
543.480	0- 25.4	± 0.003	≤ 1.8
543.485	0- 50.8	± 0.006	≤ 2.3

Options:

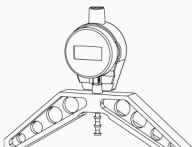
- 836.535 Spare battery
- 905.338 Digimatic signal cable, 1 m
- 905.409 Digimatic signal cable, 2 m
- 106.384 USB Input Tool Direct cable, 2 m
- 102.795 U-WAVE data cable
- 902.011 Retraction lever
- 540.774 Cable retraction device
- 101.040 Back plate with lug

Bridges

A number of standard bridges have been developed for these indicators to provide several convenient measuring solutions. The accuracy depends on the radius and form deviation of the workpiece. Custom-made bridges are also possible.



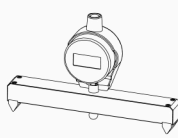
131.047



131.040



131.043



131.044-131.046



131.042



Item No. Description

- 131.047 Bridge, $r = 15 - 80$ mm
- 131.040 Bridge, $r = 40 - 210$ mm
- 131.043 Bridge, $r > 40$ mm
- 131.044 Bridge, $r > 120$ mm
- 131.045 Bridge, $r > 420$ mm
- 131.046 Bridge, $r > 1000$ mm
- 131.042 Groove gauge 1- 12 mm