

Calipers

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

ABSOLUTE[™]



ABSOLUTE Coolant Proof Carbon Fiber Caliper SERIES 552 — with Standard jaws

- IP66 Absolute Digital Caliper (Refer to page D-5 for details on the Absolute function.)
- Lightweight Digimatic Calipers that employ CFRP (Carbon Fiber Reinforced Plastics) in the beam.



552-303-10

SPECIFICATIONS

Metric				
Order No.	Range (mm)* ¹	Resolution (mm)	Maximum permissible error (mm)* ²	
			<i>E</i> _{MPE}	<i>S</i> _{MPE}
552-302-10	0 - 450 (20.1 - 470)	0.01	±0.04	±0.04
552-303-10	0 - 600 (20.1 - 620)		±0.04	±0.04
552-304-10	0 - 1000 (20.1 - 1020)		±0.05	±0.05
552-305-10	0 - 1500 (20.1 - 1520)		±0.09	±0.09
552-306-10	0 - 2000 (20.1 - 2020)		±0.12	±0.12
Inch / Metric				
Order No.	Range* ¹	Resolution	Maximum permissible error* ²	
			<i>E</i> _{MPE}	<i>S</i> _{MPE}
552-312-10	0 - 18 in/0 - 450 mm (0.504 - 18.5 in/12.8 - 462.7mm)	0.0005 in/0.01 mm	±0.002 in/±0.04 mm	±0.002 in/±0.04 mm
552-313-10	0 - 24 in/0 - 600 mm (0.504 - 24.5 in/12.8 - 612.7 mm)		±0.002 in/±0.05 mm	±0.002 in/±0.05 mm
552-314-10	0 - 40 in/0 - 1000 mm (1.004 - 41 in/25.5 - 1025.4 mm)		±0.004 in/±0.09 mm	±0.004 in/±0.09 mm
552-315-10	0 - 60 in/0 - 1500 mm (1.004 - 61 in/25.5 - 1525.4 mm)		±0.005 in/±0.12 mm	±0.005 in/±0.12 mm
552-316-10	0 - 80 in/0 - 2000 mm (1.004 - 81 in/25.5 - 2025.4 mm)			

- Dust/Water protection level: IP66 (IEC60529)*³
- Battery: SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)
- Battery life: Approx. 5,000 hours in continuous use
- Max. response speed: Unlimited
- Material of jaws: Stainless Steel Hardened

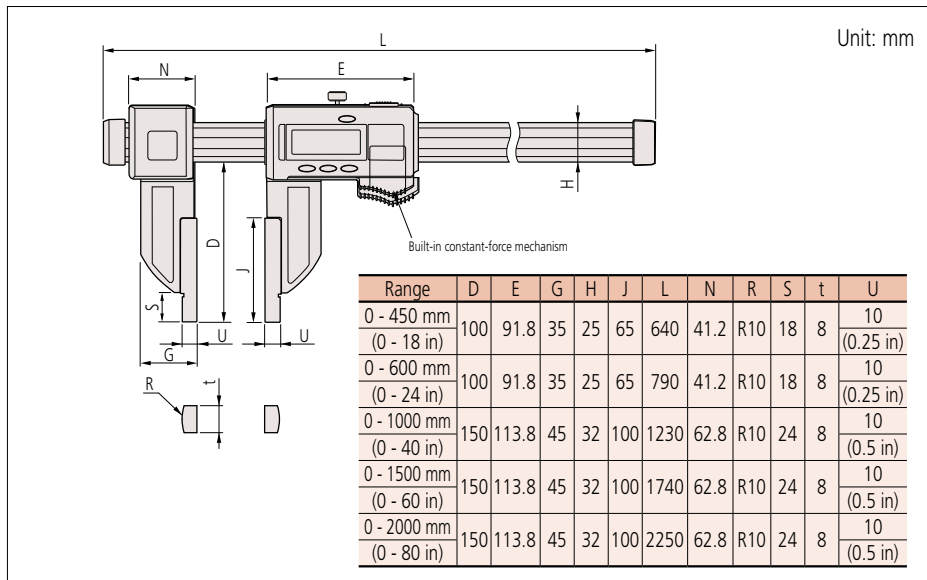
*1 (): Dimension in inside measurement

*2 Partial Surface Contact Error, *E*_{MPE} and Shift Error, *S*_{MPE} are terms (notations) used in ISO 13385-1:2019.

*3 Rustproofing shall be applied after use if caliper was in contact with coolant.

Note: A constant-force mechanism is used in the finger rest; however, this is only an auxiliary mechanism to avoid measurement error caused by excessive measuring force. To measure with good accuracy, use the minimum necessary measuring force for the caliper measuring faces to make sufficient contact with the workpiece. Refer to page D-45 for details.

DIMENSIONS



Measurement example



Functions

- Zero-setting
- Data hold
- Offsetting
- Presetting
- Data output
- Low-power and low-voltage alert
- Counting value composition error
- Automatic power on/off, inch/mm reading (inch/mm models)

LCD display turns off after 20 minutes inactivity but the ABS scale unit origin is stored. Moving the slider restores the display.

Optional Accessories

Order No.	Type	Description
05CZA624	A	Connecting cables for IT/DP/MUX (1 m)
05CZA625	A	Connecting cables for IT/DP/MUX (2 m)
06AFM380A	A	USB Input Tool Direct (2 m)
02AZD790A	A	Connecting cables for U-WAVE-T (160 mm)
02AZE140A	A	Connecting cables for U-WAVE-T For foot switch