

# Calipers

An industry standard measuring tool

## Long ABSOLUTE Digimatic Caliper SERIES 500 — with Exclusive ABSOLUTE Encoder Technology

- Long Digital caliper incorporating an ABSOLUTE scale and available with a measuring range from 450 mm to 1000 mm.
- Allows step measurement.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector.  
(Refer to page A-3.)

**MeasurLink® ENABLED**  
Data Management Software by Mitutoyo

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink® (refer to page A-25 for details).

**ABSOLUTE™**



- For details of the Absolute scale and its function, refer to page D-6.

## SPECIFICATIONS

### Metric

Order No.	Range (mm)	Maximum permissible error (mm)*		Resolution (mm)	Mass (g)
		E <sub>MPE</sub>	S <sub>MPE</sub>		
500-500-10	0 - 450	±0.05	±0.07	0.01	1170
500-501-10	0 - 600	±0.05	±0.07		1350
500-502-10	0 - 1000	±0.07	±0.09		3300

\* Partial Surface Contact Error, E<sub>MPE</sub> and Shift Error, S<sub>MPE</sub> are terms (notations) used in ISO 13385-1:2019.

### Technical Data

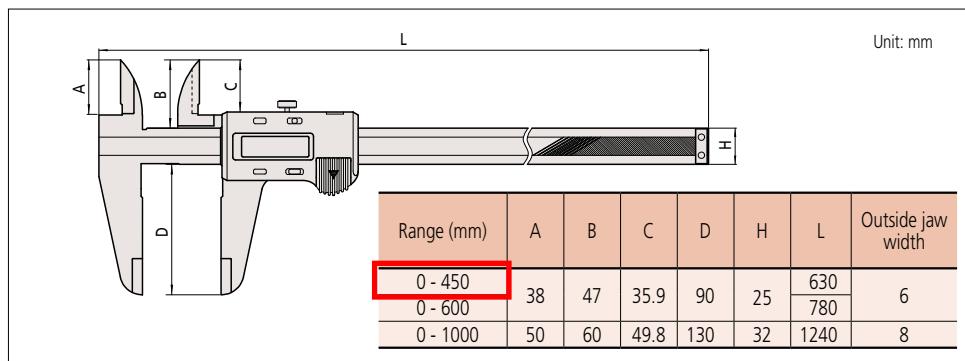
- Battery: SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)
- Battery life: Approx. 3.5 years under normal use
- Max. response speed: Unlimited

### Inch/Metric

Order No.	Range (in)	Maximum permissible error (mm)*		Resolution	Mass (g)
		E <sub>MPE</sub>	S <sub>MPE</sub>		
500-505-10	0 - 18	±0.05	±0.07	0.0005 in/ 0.01 mm	1170
500-506-10	0 - 24	±0.05	±0.07		1350
500-507-10	0 - 40	±0.07	±0.09		3300

\* Partial Surface Contact Error, E<sub>MPE</sub> and Shift Error, S<sub>MPE</sub> are terms (notations) used in ISO 13385-1:2019.

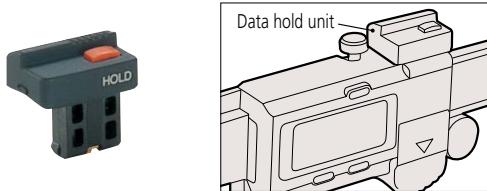
## DIMENSIONS



## Optional accessories

Dedicated for the models equipped with a digimatic output function. For details, refer to page A-21.

### 959143: Data hold unit



### Connecting cables for IT/DP/MUX

**959149:** SPC cable with data button (1 m)

**959150:** SPC cable with data button (2 m)



### USB Input Tool Direct

**06AFM380C:** SPC cable for **USB-ITN-C** (2 m)

### Connecting cables for U-WAVE-T

**02AZD790C:** SPC cable with data button (160 mm)

**02AZE140C:** SPC cable for foot switch