

# Calipers

An industry standard measuring tool

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

**MeasurLink<sup>®</sup> ENABLED**  
Data Management Software by Mitutoyo

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

**ABSOLUTE<sup>™</sup>**

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



### 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

## SPECIFICATIONS

### Metric

Order No.	Range (mm)	Maximum permissible error (mm)*		Resolution (mm)	Mass (g)
		$E_{MPE}$	$S_{MPE}$		
<b>500-500-10</b>	0 - 450	±0.05	±0.07	0.01	1170
<b>500-501-10</b>	0 - 600	±0.05	±0.07		1350
<b>500-502-10</b>	0 - 1000	±0.07	±0.09		3300

\* Partial Surface Contact Error,  $E_{MPE}$  and Shift Error,  $S_{MPE}$  are terms (notations) used in ISO 13385-1:2019.

### Inch / Metric

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

\* Partial Surface Contact Error,  $E_{MPE}$  and Shift Error,  $S_{MPE}$  are terms (notations) used in ISO 13385-1:2019.

## DIMENSIONS

Range (mm)	A	B	C	D	H	L	Outside jaw width
0 - 450	38	47	35.9	90	25	630	6
0 - 600						780	
0 - 1000	50	60	49.8	130	32	1240	8