MeasurLink® ENABLED Data Management Software by Mitutoyo

ABSOLUTE™

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

- This is a long-scale digital caliper. The digital display can reduce human error by preventing incorrect reading of measurement results.
- Incorporates Mitutoyo's ABSOLUTE measurement system. No need to reset the origin after switching on. Eliminates overspeed errors.
- Data output function allows integration into statistical process control and measurement systems. (Refer to page 09-3.)



500-500-10

SPECIFICATIONS

Metric

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

Inch / Metric

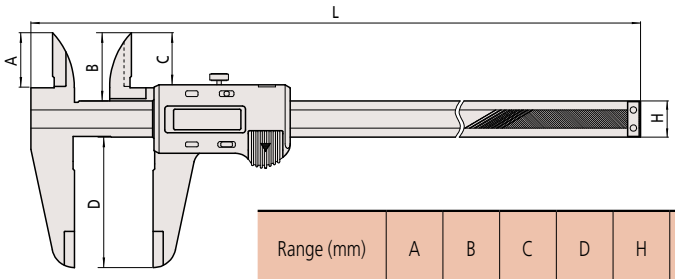
Code No.	Range	Resolution	Maximum permissible error*		Mass (g)
			E_{MPE}	S_{MPE}	
500-505-10	0 - 18 in/0 - 450 mm	0.0005 in/0.01 mm	±0.002 in/±0.05 mm	±0.003 in/±0.07 mm	1170
500-506-10	0 - 24 in/0 - 600 mm				1350
500-507-10	0 - 40 in/0 - 1000 mm		±0.003 in/±0.07 mm	±0.004 in/±0.09 mm	3300

- Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
- Battery life: Approx. 3.5 years under normal use
- Response speed: Unlimited

* The Partial Surface Contact Error (E_{MPE}) and Shift Error (S_{MPE}) are terms defined by ISO 13385-1:2019.

DIMENSIONS

Unit: mm



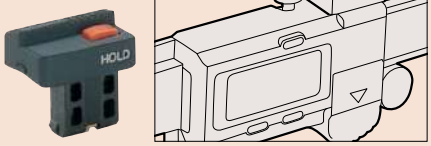
Range (mm)	A	B	C	D	H	L	Outside jaw width
0 - 450	38	47	35.9	90	25	630	6
0 - 600						780	
0 - 1000	50	60	49.8	130	32	1240	8

Optional Accessories

Code No.	Type	Description
264-020	—	USB Input Tool Series USB Keyboard Signal Conversion Type **IT-020U**
959149	C	Connection cable for **IT/DP/MUX** (1 m)
959150	C	Connection cable for **IT/DP/MUX** (2 m)
06AFM380C	C	USB Input Tool Direct (2 m)
02AZD730G	IP67*	**U-WAVE-T**
02AZD880G	Buzzer	**U-WAVE-T**
02AZE200	—	**U-WAVE-T** mounting bracket
02AZD790C	C	Connection cable for **U-WAVE-T** (160 mm)
02AZE140C	C	Connection cable for **U-WAVE-T**

* IP-67 is applied to this **U-WAVE-T**, but not to the calipers on page 04-9.

- **Data hold unit**



959143

Mitutoyo reserves the right to change any or all aspects of any product specification, including prices, designs and service content, without notice.