

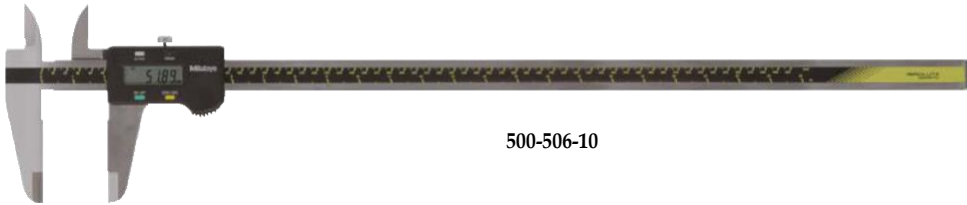
# Calipers

## SERIES 500 – ABSOLUTE Digimatic Long Beam Caliper

- Long Digimatic caliper incorporating Mitutoyo's ABSOLUTE scale and available with a measuring range from 450 mm to 1000 mm.
- Can measure outside and inside dimensions, depth, and steps.
- Data output function allows integration into statistical process control and measurement systems.

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

**ABSOLUTE**



500-506-10



500-505-10

### Specifications

Inch/Metric					
Code No.	Range	Resolution	Accuracy*	Repeatability	Price
500-505-10	0-450 mm (0-18")	0.01 mm (.0005")	±0.05 mm (±.002")	0.01 mm	
500-506-10	0-600 mm (0-24")				
500-507-10	0-1000 mm (0-40")				

\* Excluding quantizing error.

### Dimensions

Unit: mm

Range	A	B	C	D
0-450 mm	90	47	630	25
0-600 mm			780	
0-1000 mm	130	60	1240	32

### Technical Data

Scale type:	ABSOLUTE electrostatic linear encoder
Max. response speed:	Unlimited
Battery:	SR44 (1 pc.), <b>938882</b>
Battery life:	Approx. 3.5 years under normal use (20,000 hours for continuous use)

### Functions

**ABSOLUTE system measurement:**  
After power is turned ON, measurement can be started without zero-setting if origin-setting was previously performed. The ABS (absolute) origin position can be changed by the ORIGIN button.

**Incremental measurement:**  
Display can be set to zero at any arbitrary position for comparative measurements.

**Scale contamination detection:**  
Contamination on the surface of the scale is detected and an error message (ErrC) is displayed.

**Low-voltage alert:**  
If the battery voltage becomes low, a "B" appears in the display to alert the user before measurement is no longer possible. A battery change advisory alert precedes this alert.

**Data output:**  
Models equipped with this function have an output port for transferring measurement data to a Statistical Process Control (SPC) system.

**Data hold:**  
By using the data hold unit (option), the displayed value can be held. This cannot be used with the data output function.

### Optional Accessories

Code No.	Description	Price
959143	Data hold unit	
959149	SPC data cable with pushbutton (1 m)	
959150	SPC data cable with pushbutton (2 m)	
02AZD790C	U-WAVE-T data cable with pushbutton (160 mm)	
02AZE140C	U-WAVE-T data cable with pushbutton and footswitch connection (160/500 mm)	
06AFM380C	USB input tool direct USB-ITN-C (2 m)	



Data hold unit fitted to a Digimatic caliper (no data output possible).