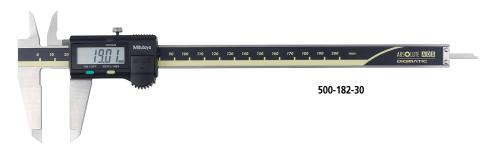
ABSOLUTE Digimatic Caliper SERIES 500 — with Exclusive ABSOLUTE Encoder Technology

- 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.
- This is a standard digital calliper. The digital Carbide-tipped jaw calipers are optimal for rough finished parts, castings, grinding stones, etc.
 - SPC data output models can be integrated into statistical process control and measurement systems. (Refer to page 09-3.)









Functions

- ABSOLUTE measurement: after a data is displayed, next measurement can be performed without zero-setting. Also, the ABS origin point can be changed with ORIGIN
- Incremental measurement: Sets the displayed value to zero (zero-setting) at any position, making comparative measurement easier.
- Low-voltage alert: notifies that the battery is worn with "B" mark before becoming immeasurable. Thus, the timing for battery replacement can be confirmed in
- Data output: Models equipped with this function have an output port for transferring measurement data to a Statistical Process Control (SPC) system.
 - Note: Excludes models without measurement output data port. See SPECIFICATIONS on page 04-6.
- Data hold: With the optional hold unit, the function can hold the displayed value (cannot be used with the output function).

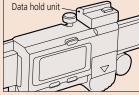
Optional Accessories

(Note: Usable only for models with SPC data output. Refer to page 09-23 for details.)

to page 03-23 for details.)									
Туре	Description								
_	USB Input Tool Series USB Keyboard Signal Conversion Type IT-020U								
С	Connection cable for IT/DP/MUX (1 m)								
С	Connection cable for IT/DP/MUX (2 m)								
С	USB Input Tool Direct (2 m)								
IP67*	U-WAVE-T								
Buzzer	U-WAVE-T								
_	U-WAVE-T mounting bracket								
С	Connection cable for U-WAVE-T (160 mm)								
С	Connection cable for U-WAVE-T For foot switch								
IP67*	U-WAVE-TC								
Buzzer	U-WAVE-TC								
IP67*	U-WAVE-TCB								
Buzzer	U-WAVE-TCB								
Buzzer	Connecting unit for U-WAVE-TC/TCB								
	C C IP67* Buzzer C IP67* Buzzer IP67* Buzzer								

- * IP-67 is applied to these U-WAVE-T/-TC/-TCB, but not to the calipers on page 04-6 to 04-7.
- Data hold unit





959143



SPECIFICATIONS

Metric									
Code No.	Range (mm)	Resolution (mm)	Maximum permis	sible error (mm)* SMPE	Measurement data output port	Mass (g)	Depth bar	Fine adjustment	Remarks
500-150-30	0 - 100				1	143	ø1.9 mm rod	with thumb roller	
500-180-30					_			_	_
500-151-30									Carbida tipped inverfer
500-154-30							Blade	with	Carbide-tipped jaws for outside measurement
500-155-30	0 - 150	±0	±0.02	±0.04	✓	168	168	thumb roller with thumb roller	Carbide-tipped jaws for outside and inside measurement
500-158-30							ø1.9 mm rod		
500-181-30									_
500-152-30					1	198	Blade -		Carbide-tipped jaws for
500-156-30	0 - 200								outside measurement
500-157-30									Carbide-tipped jaws for outside and inside measurement
500-182-30					_				
500-153-30	0 - 300		±0.03	±0.05		350		with thumb roller	_
500-161-30	0 - 150 0 - 200 0 - 150 0 - 100 0 - 150			±0.04	1	168			
500-162-30			±0.02			198			
500-184-30					_	168	ø1.9 mm rod		
500-201-30						143	Blade		
500-203-30						168	ø1.9 mm rod		
500-205-30	0 - 300		±0.03	±0.05		345			
500-233-30	- 0 - 150 - 0 - 200	_	±0.02	±0.04		168	Blade		Carbide-tipped jaws for outside measurement
500-234-30									Carbide-tipped jaws for outside and inside measurement
500-235-30						198			Carbide-tipped jaws for outside measurement
500-236-30									Carbide-tipped jaws for outside and inside measurement

- Power source: SR44 battery (1 pc.), 938882 included as standard (for operational checks)
 Position detection method: ABSOLUTE electromagnetic induction linear encoder
 Battery life: Approx. 5 years under normal use
 Response speed: Unlimited
 The Partial Surface Contact Error (EMPE) and Shift Error (SMPE) are terms defined by ISO 13385-1:2019.

