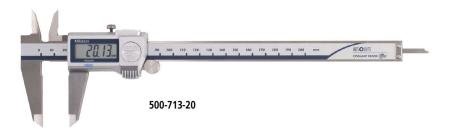
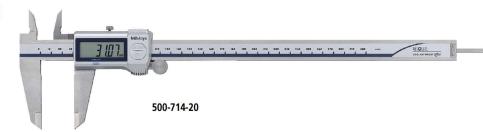
# **ABSOLUTE Coolant Proof Caliper** SERIES 500 — with Dust/Water Protection Conforming to IP67 Level

- Rated to IP67: can be used in workshop conditions exposed to coolant, water, dust or oil. 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. No fear for overspeed errors.
- Battery cap does not require a screw driver for battery replacement.
- SPC data output models can be integrated into statistical process control and measurement systems. (Refer to page 09-3.)
- Carbide-tipped jaw calipers are optimal for rough finished parts, castings, grindingstones, etc.



















#### **Functions**

- Origin-set: ABSOLUTE origin position can be changed.
- Data output: Models equipped with this function have an output port for transferring measurement data to a Statistical Process Control (SPC) system. Note: Excludes 500-702-20 and 500-703-20
- Automatic power on/off: Turns off the LCD display if the caliper remains unused for approximately 20 minutes after measurement, although the origin is still memorized. Moving the slider restores the display.
- Alarm: Should a computing error occur, the display shows an error message, causing the measurement function to stop. This prevents an instrument from giving an erroneous reading. Also, when the battery voltage drops to a certain level, the "B" mark appears to indicate low battery voltage before the measurement becomes unavailable.

#### **Optional Accessories**

(Note: Usable only for models with SPC data output. Refer

to page 09-23 for details.)					
Code No.	Туре	Description			
264-020	-	USB Input Tool Series USB Keyboard Signal Conversion Typi IT-020U			
05CZA624	А	Connection cable for IT/DP/MUX (1 m)*1			
05CZA625	А	Connection cable for IT/DP/MUX (2 m)*1			
06AFM380A	А	USB Input Tool Direct (2 m)			
02AZD730G	IP67	U-WAVE-T* <sup>2</sup>			
02AZD880G	Buzzer	U-WAVE-T*2			
02AZE200	_	<b>U-WAVE-T</b> mounting bracket			
02AZD790A	А	Connection cable for <b>U-WAVE-T</b> (160 mm)			
02AZE140A	А	Connection cable for <b>U-WAVE-T</b> For foot switch			
264-620	IP67	U-WAVE-TC* <sup>2</sup>			
264-621	Buzzer	U-WAVE-TC*2			
264-624	IP67	<b>U- WAVE-TCB</b> Transmitter* <sup>2</sup>			
264-625	Buzzer	<b>U- WAVE-TCB</b> Transmitter* <sup>2</sup>			
02AZF310	IP67	Connecting unit for U-WAVE-TC/TCB			

<sup>\*1</sup> Cannot be used for other than water resistant type Digital calipers with external output function.



<sup>\*2</sup> IP67 model is water/dust-proofed suitable for the factory floor. Buzzer type is not water/dustproofed.

#### LCD



Remarkably easy to read display

## **IP67** protection level



## **SPECIFICATIONS**

Metric								9
Code No.	Range (mm)	and the same of the same of	Maximum permis		Measurement data		-	Remarks
	riange (riini)	(mm)	Емре	SMPE	output port	(g)	roller	
500-702-20* <sup>3</sup>	0 - 150	0.01	±0.02	±0.04	_	168	1	_
500-703-20*3	0 - 200					198		
500-706-20*3	0 - 150					168	1	
500-707-20* <sup>3</sup>	0 - 200					198		
500-716-20	0 - 150				,	168		
500-717-20	0 - 200					198		
500-712-20	0 - 150					168		
500-713-20	0 - 200					198		
500-719-20	0 - 150					168		Depth bar ø1.9 mm
500-721-20	0 - 150					168		Carbide-tipped jaws for outside measurement
500-722-20	0 - 200					198		
500-723-20	0 - 150					168		Carbide-tipped jaws for outside and inside measurement
500-724-20	0 - 200					198		
500-714-20			±0.03	±0.05	1	350	1	, , , , , , , , , , , , , , , , , , ,
500-718-20	0 - 300					345	_	
500-704-20*3	0 - 300		±0.03	±0.03		350	1	_
500-708-20*3						345	_	

Inch/Metric								
Code No	Code No. Range	Resolution	Maximum permissible error*1		Measurement data	Mass	Thumb	Remarks
Code No.			Емре	SMPE	output port	(g)	roller	Remarks
	0 - 6 in/0 - 150 mm	0.01 mm	±0.001 in/ ±0.02 mm	±0.002 in/ ±0.04 mm		168	/	Carbide-tipped jaws for outside measurement
500-732-20*3	0 - 8 in/0 - 200 mm					198		
500-733-20*3	0 - 6 in/0 - 150 mm					168		Carbide-tipped jaws for outside and inside measurement
500-734-20*3	0 - 8 in/0 - 200 mm					198		
500-735-20	0 - 6 in/0 - 150 mm				1	168		Carbide-tipped jaws for outside measurement
500-736-20	0 - 8 in/0 - 200 mm					198		
500-737-20	0 - 6 in/0 - 150 mm					168		Carbide-tipped jaws for outside and inside measurement
	0 - 8 in/0 - 200 mm					198		
	0 - 6 in/0 - 150 mm				_	168		_
500-753-20*3	0 - 8 in/0 - 200 mm					198		
500-762-20	0 - 6 in/0 - 150 mm				1	168		
500-763-20	0 - 8 in/0 - 200 mm					198		
500-768-20*3	0 - 6 in/0 - 150 mm				_	168		Depth bar ø1.9 mm
500-769-20	0 0 1170 - 150111111				1	168		Depth bar ø1.9 mm
500-764-20	0 - 12 in/0 - 300 mm		±0.0015 in/	±0.0025 in/	1	350	1	_
500-754-20*3	- 12 111/0 - 300 111111		±0.03 mm	±0.05 mm	_	350		

- Dust/Water protection level: IP67 (IEC60529)\*2
   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
   With depth bar
   \*\*I The Partial Surface Contact Error (Fure) and Shift Error (Surral and August Language).

- \*1 The Partial Surface Contact Error (EMPE) and Shift Error (SMPE) are terms defined by ISO 13385-1:2019.
  \*2 Although these models are IP67 rated, care should be taken to dry tool after use.
  \*3 Without SPC data output.

## **DIMENSIONS**

