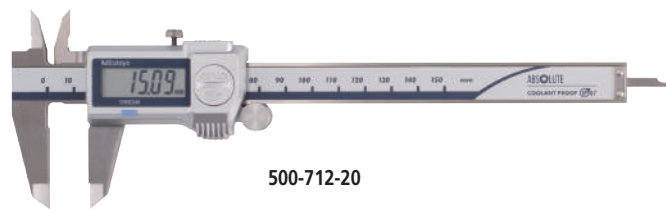


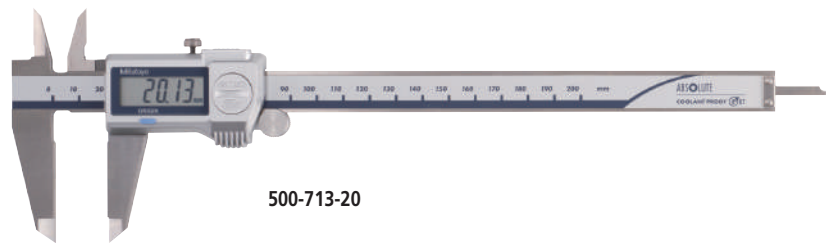
Calipers

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

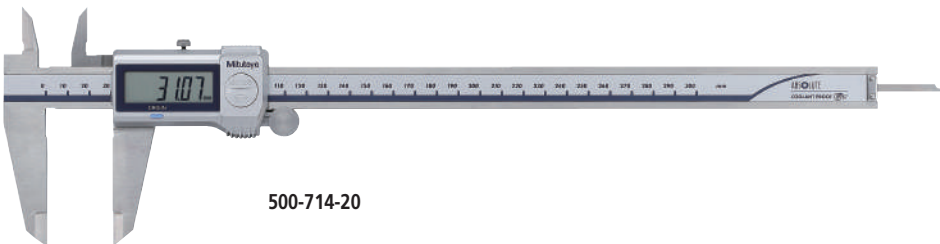
- Can be used in workshop conditions exposed to coolant, water, dust or oil. 100% air-leak test ensures every caliper conforms to IP67.
- Incorporates Mitutoyo's ABSOLUTE measurement system. No need to reset the origin.
- Easy to use — advanced ergonomic design uses only 1 button.
- Battery cap does not require a screw driver for battery replacement.
- Can be integrated into statistical process control and measurement systems. (Refer to page A-3.)



500-712-20



500-713-20



500-714-20

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

U-WAVE^{fit}

ABSOLUTE[™]



Functions

Origin-set
Data output
Note: See SPECIFICATIONS for items without SPC data output.
Automatic power on/off
Alarm

Optional Accessories

(Note: Usable only for models with SPC data output. Refer to page A-21 for details.)

Order No.	Type	Description
05CZA624	A	Connecting cables for IT/DP/MUX (1 m)* ¹
05CZA625	A	Connecting cables for IT/DP/MUX (2 m)* ¹
06AFM380A	A	USB Input Tool Direct (2 m)
02AZD730G	IP67	U-WAVE-T* ²
02AZD880G	Buzzer	U-WAVE-T* ²
264-620	IP67	U-WAVE-TC* ²
264-621	Buzzer	U-WAVE-TC* ²
264-624	IP67	U- WAVE-TCB Transmitter* ²
264-625	Buzzer	U- WAVE-TCB Transmitter* ²
02AZF310	IP67	Connecting unit for U-WAVE-TC/TCB

*1 Cannot be used for other than water resistant type Digital calipers with external output function.
*2 IP67 model is water/dust-proofed suitable for the factory floor. Buzzer type is not water/dust-proofed.

Smooth slider movement makes for comfortable operation.

High quality guide surface finish for smooth slider movement

Conventional	Coolant proof caliper
Ra: 0.126 μm	Ra: 0.071 μm
Direction of the length	Direction of the length

LCD



Remarkably easy to read display

IP67 protection level



SPECIFICATIONS

Metric								
Order No.	Range (mm)	Resolution (mm)	Maximum permissible error (mm)*1		Measurement data output port	Mass (g)	Thumb roller	Remarks
			EMPE	SMPE				
500-702-20*3	0 - 150	0.01	±0.02	±0.04	—	168	✓	—
500-703-20*3	0 - 200					198		
500-706-20*3	0 - 150					168		
500-707-20*3	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		
500-721-20	0 - 150					168		
500-722-20	0 - 200					198		
500-723-20	0 - 150					168		
500-724-20	0 - 200					198		
500-714-20	0 - 300				±0.03	±0.05	✓	
500-718-20		—	345	—				
500-704-20*3		—	350	✓				
500-708-20*3		—	345	—				

Inch / Metric								
Order No.	Range	Resolution	Maximum permissible error*1		Measurement data output port	Mass (g)	Thumb roller	Remarks
			EMPE	SMPE				
500-731-20*3	0 - 6 in/0 - 150 mm	0.0005 in/ 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		
500-734-20*3	0 - 8 in/0 - 200 mm					198		
500-735-20	0 - 6 in/0 - 150 mm				✓	168	—	
500-736-20	0 - 8 in/0 - 200 mm					198		
500-737-20	0 - 6 in/0 - 150 mm					168		
500-738-20	0 - 8 in/0 - 200 mm					198		
500-752-20*3	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					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					✓	168		Depth bar ø1.9 mm
500-764-20	0 - 12 in/0 - 300 mm		±0.0015 in/ ±0.03 mm	±0.0025 in/ ±0.05 mm	✓	350	✓	—
500-754-20*3					—	350		

- Dust/Water protection level: IP67 (IEC60529)*2
 - Battery: SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)
 - Scale type: ABSOLUTE electromagnetic induction linear encoder
 - Battery life: Approx. 5 years under normal use
 - Max. response speed: Unlimited
- *1 Partial Surface Contact Error, $EMPE$ and Shift Error, $SMPE$ are terms (notations) used in 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

