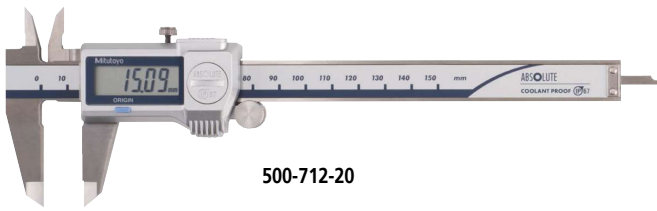


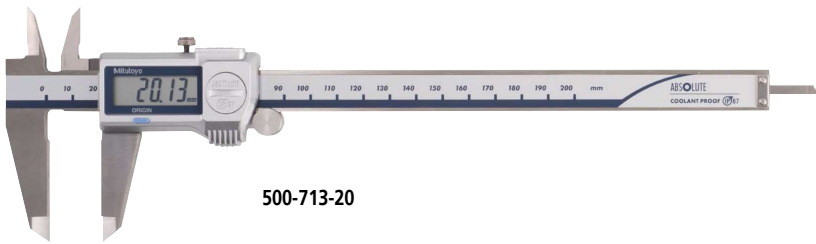
Calipers

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

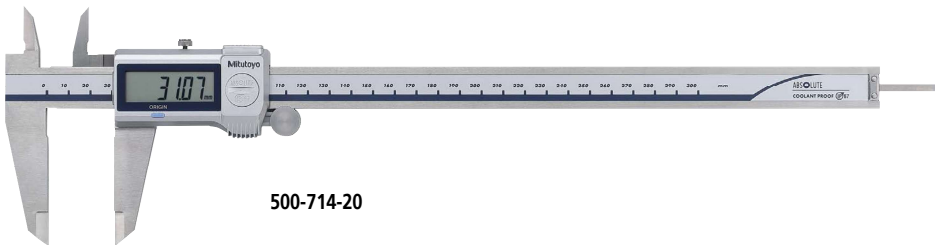
- Can be used in workshop conditions exposed to coolant, water, dust or oil. 100% air-leak test ensures every caliper conforms to IP67.
- Incorporates Mitutoyo's ABSOLUTE measurement system. No need to reset the origin.
- Easy to use — advanced ergonomic design uses only 1 button.
- Battery cap does 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

<p>Conventional</p> <p>Ra: 0.126 μm</p> <p>Direction of the length</p>	<p>Coolant proof caliper</p> <p>Ra: 0.071 μm</p> <p>Direction of the length</p>
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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		
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		
500-769-20	0 - 6 in/0 - 150 mm					168		
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

Unit: mm

Range (mm)	A	B	C	D	H	L
0 - 150	16.5	21	14.6	40	16	233
0 - 200	20	24.5	18.1	50		290
0 - 300	22	27.5	19.8	64	20	404

Outside jaw thickness = 3.5 mm for 0 to 150 mm/0 to 200 mm models
3.8 mm for 0 to 300 mm model