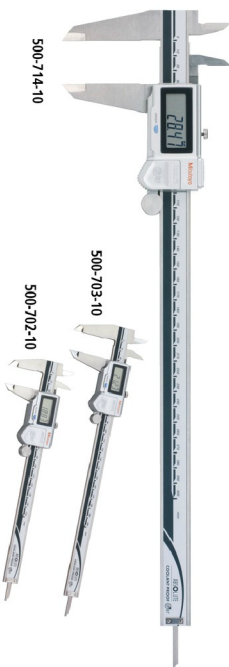


Calipers

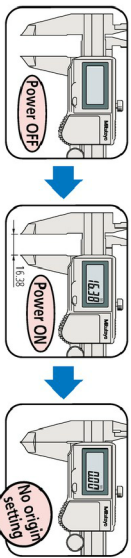
A standard measuring tool of industry

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. Dimensions, mass and price are the same as the conventional products. Also, 100% inspection by air leak test is performed.
- Carbide-faced jaws with round depth-rod type is newly added to the product lineup.
- Large LCD characters make the display easy to read.
- Easy to use — advanced design styling with only 1 button.
- Incorporates the absolute measurement system. No need to reset the origin.
- The automatic power-on/off function shuts down the LCD display after 20 minutes inactivity, but the ABS scale unit origin is stored. Power is restored when the slider is moved.
- Allows step measurement
- Can be integrated into statistical process control and measurement systems.
- A convenient interface input tool is available so that measurement data can be converted to keyboard signals and input directly to commercial spreadsheet software. Refer to page A-4.
- An inspection certificate is supplied as standard.
(However, this cannot be used as a calibration certificate as it is undated.)
- Special type ABS Coolant Proof Calipers are provided.



A built-in ABS (absolute) scale means that these calipers are ready to use immediately after power-on without origin resetting – just like using a vernier caliper.



Optional accessories

For details, refer to page A-15.



Connecting cables for IT/DP/MUX*

- 05CA624 SPC cable with data button (1m)
- 05CA625 SPC cable with data button (2m)
- * Cannot be used for other than water resistant type digital calipers with external output function



USB Input Tool Direct

- 06ADV380A SPC cable for USB-TN-A (2m)
- 02AZD790A SPC cable for U-WAVE-T
- 02AZET140A SPC cable for footswitch

IP67 protection level



First characteristic (number)	Brief description	Description	Second characteristic (number)	Brief description	Description
6	Dust-proof.	No ingress of dust allowed.	7	Protected against water penetration.	Ingress of water in quantities causing harmful effects shall not be possible even if immersed in water under standardized conditions of pressure and time.

For details of the test conditions used in evaluating each degree of protection, please refer to the original standard.

ABSOLUTE

(Refer to page VIII for details.)

IP67

(Refer to page VIII for details.)

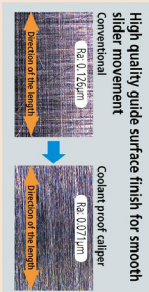


(Refer to page IX for details.)



An inspection certificate is attached as standard. Refer to page IX for details.

Smooth slider movement makes for comfortable operation.



Technical Data

- Accuracy: $\pm 0.02\text{mm}$ ($\leq 200\text{mm}$), $\pm 0.03\text{mm}$ ($> 200\text{mm}$)
- Resolution: (excluding quantizing error) 0.01mm or $0.005/0.01\text{mm}$
- Repeatability 0.01mm
- Quantizing error: Not including ± 1 count
- Dust/Water protection level: IP67*
- Display: LCD
- Scale type: ABSOLUTE electromagnetic induction linear encoder
- Max. response speed: Unlimited
- Battery: **SR44** (1 pc.) **938882**
- Battery life: Approx. 3 years under normal use (1 year over 300mm model)
- * This model is not waterproof type. Therefore, waterproofing shall be applied after use.

Functions

- Origin-set: Absolute origin position can be changed.
- Data output: Measurement data output connector allows integration into statistical process control and measurement systems.
- Automatic power on/off: LCD display will turn off after 20 minutes inactivity, but the ABS scale unit origin is stored. Power is restored when the slider is moved.
- Alarm: Error message is displayed if error in calculation is found and measurement is stopped. Measurement will not be continued while error is displayed. Also, if the battery voltage becomes low, "B" appears to alert the user before measurement is no longer possible.

SPECIFICATIONS

Metric	Order No.	Range	Depth bar	Fine adjustment	Remarks
	500-702-10*				
	500-712-10		Blade	with thumb roller	
	500-706-11*				—
	500-709-11*	0 - 150mm	$\phi 19\text{mm}$ rod	—	
	500-719-10			with thumb roller	Carbide-tipped jaws for outside measurement
	500-721-10			—	Carbide-tipped jaws for outside and inside measurement
	500-723-10			—	
	500-727-11			with thumb roller	
	500-703-10*			with thumb roller	—
	500-707-11*			—	
	500-717-11	0 - 200mm	Blade	with thumb roller	Carbide-tipped jaws for outside measurement
	500-722-10			—	Carbide-tipped jaws for outside and inside measurement
	500-724-10			with thumb roller	
	500-728-11			—	
	500-714-10			with thumb roller	
	500-718-11			—	
	500-704-10*	0 - 300mm		with thumb roller	—
	500-708-11*			—	

* without SPC data output

Inch/Metric	Order No.	Range	Depth bar	Fine adjustment	Remarks
	500-752-10*		Blade		
	500-762-10				—
	500-768-10*				
	500-769-10	0 - 6"	$\phi 3/40"$ rod		Carbide-tipped jaws for outside measurement
	500-731-10*				Carbide-tipped jaws for outside and inside measurement
	500-733-10*				Carbide-tipped jaws outside and inside measurement
	500-737-10			with thumb roller	—
	500-753-10*		Blade		Carbide-tipped jaws for outside measurement
	500-763-10				Carbide-tipped jaws for outside and inside measurement
	500-732-10*	0 - 8"			
	500-736-10				
	500-734-10*				Carbide-tipped jaws for outside and inside measurement
	500-738-10				
	500-764-10	0 - 12"			—
	500-754-10*				

* without SPC data output

DIMENSIONS

