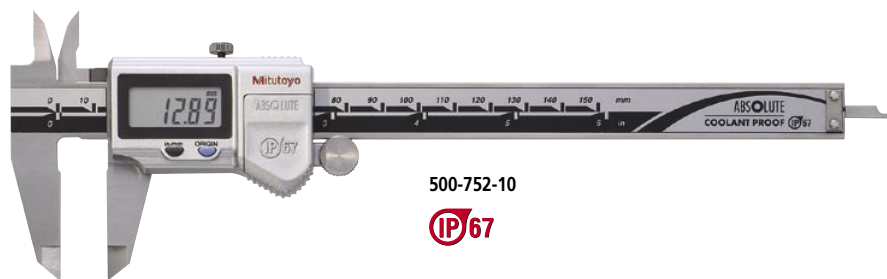
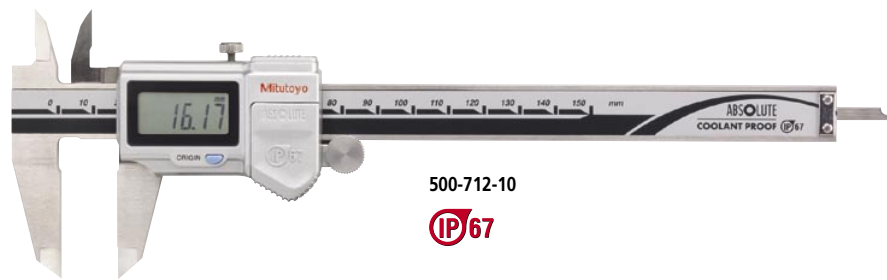


ABSOLUTE Coolant Proof Caliper

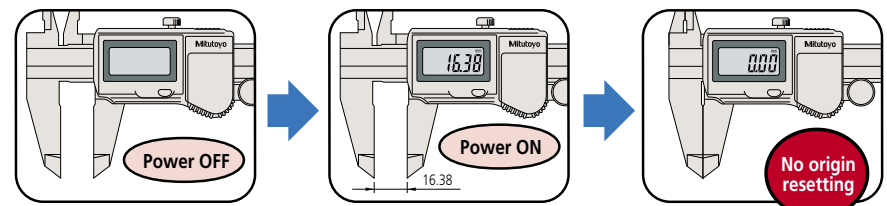
SERIES 500 — with Dust/Water Protection Conforming to IP67 Level

FEATURES

- Can be used in workshop conditions exposed to coolant, water, dust or oil.
- Easy to use - no need to wipe or clean the scale.
- Advanced design styling.
- Incorporates absolute measurement system.
- Automatic power-on/off.
- Data output function.



Built-in ABS (absolute) scale means that these calipers are ready to use immediately after power-on without origin resetting. It's as easy as vernier caliper measurements.



Certificate of inspection

CERTIFICATE OF INSPECTION / CERTIFICAT DE CONTROLE		Inspection result/Réultats				(GB/CF)
Product name/Désignation	Digital Caliper/ Pied à coulisse Digital	Measuring length	Permissible value	Imbalance error/Erreur	Inspection result	
Model No./Modèle	500-712-10	Position de mesure	±0.01	±0.03	±0.01	
Code No./ Référence	500-572	0	0	0.00	---	
Serial No./ Séq. us. série	03418811	50	±0.02	0.00	0.01	
Manufacture length/Date de mesure	0.15mm	100	±0.01	-0.01	0.00	
Minimum inspection/Inspection	0.01mm	150	±0.01	-0.01	0.00	
Standard Temperature / Température de Référence	20°C	200	±0.005	---	---	Unit:mm
QC Manager/Responsable Qualité Contrôle	<i>g. j. j.</i>		-0.0015	---	---	Unit:inch
Inspection standard : Mitutoyo standard		0	---	---	---	
Based on : ABS/OT/960/2146/2186		2	±0.0010	---	---	
Traceable to : NMI/JASIST by JCRS No.1030/NET via 821018834/03		4	---	---	---	
PTB via 3185 PTB Q2-4340/PTB 03		6	---	---	---	
		8	---	---	---	
Overall Judgment: Passed/Passé/Conforme/ conforme						
Mitutoyo Corporation						

Measurement data output function is available with a water-resistant SPC cable.



(Refer to the page 9 for details.)



(Refer to the page 9 for details.)



(Refer to the page 9 for details.)

Technical Data

- Accuracy: ±0.02mm (≤200mm), ±0.03mm (>200mm) (excluding quantizing error)
- Resolution: 0.01mm or .0005"/0.01mm
- Repeatability: 0.01mm
- Display: LCD
- Length standard: 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 models)
- Dust/Water protection level: IP67

Function

- Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)
- Alarm: Low voltage, Counting value composition error

Optional Accessory

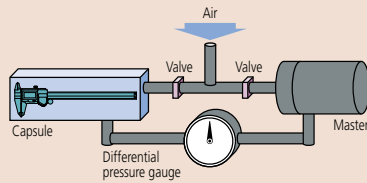
- 05CZA624**: SPC cable with data switch (1m)
- 05CZA625**: SPC cable with data switch (2m)



05CZA624

Air leakage detection system used for water-proof testing

Generally, air leakage tests are performed to evaluate water resistance. Testing begins by placing a measuring tool into the capsule. Next, air with equivalent pressure is supplied to the capsule and the master, then the valves are closed. If none of the air in the capsule seeps into the measuring tool, the capsule's air pressure will remain equal to that in the master, and the differential pressure gauge will continue to point to the center. However, if some air does seep into the measuring tool, it will create an air pressure difference in the amount indicated by the differential pressure gauge. Thus, detection of air pressure differences is used as a criterion for judging leakage. Every single unit of the ABS Coolant Proof calipers and Coolant Proof micrometer is tested this way for air leakage to help ensure product quality.



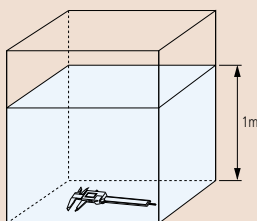
IP66 protection level

- Level 6: Dust-tight
No ingress of dust.
- Level 6: Protected against powerful water jet.
Water projected in powerful jets* against the enclosure from any direction shall have no harmful effects.
*Size of direct jets: uses 12.5 mm (inner diameter) nozzle emitting a 100 kPa jet of water at 100 liters per minute for at least 3 minutes from a distance of approx. 3 meters.



IP67 protection level

- Level 6: Dust-tight
No ingress of dust.
- Level 7: Protected against the effects of temporary immersion in water.
Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed 1 meter in water under standardized conditions of pressure and time (30 min.).



SPECIFICATIONS

Metric

Range	Order No.	Remarks (depth measuring bar / thumb roller / others)		
0 - 150mm	500-702-10*	Blade	with thumb roller	—
0 - 150mm	500-712-10	Blade	with thumb roller	—
0 - 150mm	500-706-11*	Blade	—	—
0 - 150mm	500-716-11	Blade	—	—
0 - 150mm	500-709-11*	ø1.9mm rod	—	—
0 - 150mm	500-719-10	ø1.9mm rod	with thumb roller	—
0 - 150mm	500-721-10	Blade	with thumb roller	Carbide-tipped jaws for ID measurement
0 - 150mm	500-723-10	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 150mm	500-727-11	Blade	—	Carbide-tipped jaws for OD & ID measurement
0 - 200mm	500-703-10*	Blade	with thumb roller	—
0 - 200mm	500-713-10	Blade	with thumb roller	—
0 - 200mm	500-707-11*	Blade	—	—
0 - 200mm	500-717-11	Blade	—	—
0 - 200mm	500-722-10	Blade	with thumb roller	Carbide-tipped jaws for ID measurement
0 - 200mm	500-724-10	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 200mm	500-728-11	—	—	Carbide-tipped jaws for OD & ID measurement
0 - 300mm	500-714-10	—	with thumb roller	—
0 - 300mm	500-718-11	—	—	—
0 - 300mm	500-704-10*	—	with thumb roller	—
0 - 300mm	500-708-11*	—	—	—

*without SPC data output

Inch/Metric

Range	Order No.	Remarks (depth measuring bar / thumb roller / others)		
0 - 6"	500-752-10*	Blade	with thumb roller	—
0 - 6"	500-762-10	Blade	with thumb roller	—
0 - 6"	500-768-10*	ø3/40" rod	with thumb roller	—
0 - 6"	500-769-10	ø3/40" rod	with thumb roller	—
0 - 6"	500-731-10*	Blade	with thumb roller	Carbide-tipped jaws for ID measurement
0 - 6"	500-735-10	Blade	with thumb roller	Carbide-tipped jaws for ID measurement
0 - 6"	500-733-10*	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 6"	500-737-10	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 8"	500-753-10*	Blade	with thumb roller	—
0 - 8"	500-763-10	Blade	with thumb roller	—
0 - 8"	500-732-10*	Blade	with thumb roller	Carbide-tipped jaws for ID measurement
0 - 8"	500-736-10	Blade	with thumb roller	Carbide-tipped jaws for ID measurement
0 - 8"	500-734-10*	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 8"	500-738-10	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 12"	500-764-10	—	with thumb roller	—
0 - 12"	500-754-10*	—	with thumb roller	—

*without SPC data output

DIMENSION

