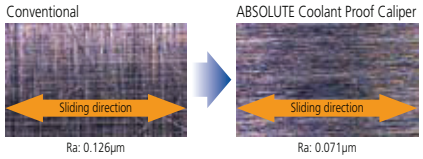
ABSOLUTE Coolant Proof Caliper

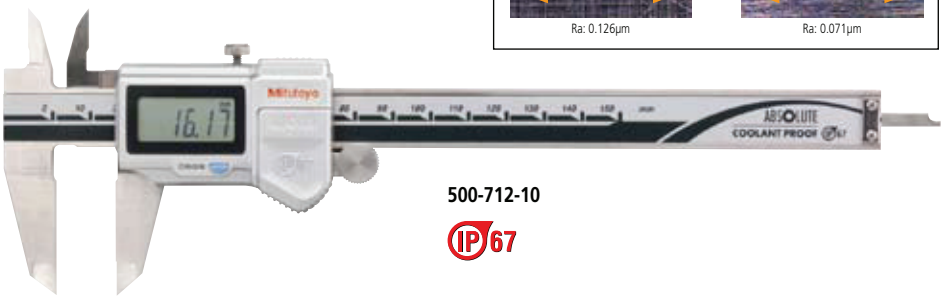
SERIES 500 — with Dust/Water Protection Conforming to IP67 Level

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.

High quality guide surface finish for smooth slider movement





500-712-10

IP67

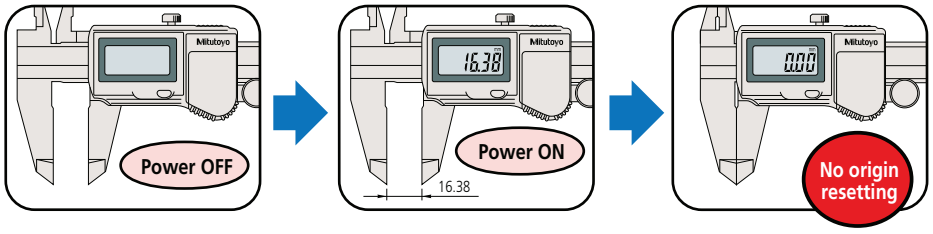
500-752-10

IP67

500-763-10

IP67

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

Mitutoyo Corporation

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

SPC

ABSOLUTE® Absolute System Patented by MITUTOYO (Refer to page VIII for details.)

IP67 (Refer to page VIII for details.)

PROPRIETARY INSPECTION CERTIFICATE (Refer to page VIII 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
Scale type: ABSOLUTE electromagnetic 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

Functions

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

Optional Accessories

05CZA624: SPC cable with data switch (1m)
05CZA625: SPC cable with data switch (2m)
02AZD790A: SPC cable for U-WAVE w/ data switch (160mm)

05CZA624

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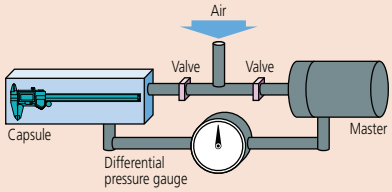
Air leakage detection system used for water-proof testing

Generally, air leakage tests are performed to evaluate water resistance. Testing begins by placing a measuring tool into the capsule. Next, air at the required test pressure is supplied to the capsule and the master capsule, 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 that will be indicated by the differential pressure gauge. Thus, detection of air pressure differences is used as a criterion for judging leakage. Every single unit of ABS Coolant Proof caliper and Coolant Proof micrometer is tested this way to help ensure product quality.



IP66 protection level

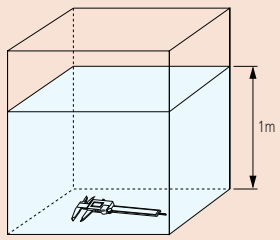
Level 6: Dust-tight
No ingress of dust.

Level 6: Protected against powerful water jets.
Water projected in powerful jets* against the enclosure from any direction shall have no harmful effects.
*Size of direct jets: 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.	Depth bar	Fine adjustment	Remarks
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 outside measurement
0 - 150mm	**500-723-10**	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement
0 - 150mm	**500-727-11**	Blade	—	Carbide-tipped jaws for outside and inside 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 outside measurement
0 - 200mm	**500-724-10**	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement
0 - 200mm	**500-728-11**	Blade	—	Carbide-tipped jaws for outside and inside measurement
0 - 300mm	**500-714-10**	Blade	with thumb roller	—
0 - 300mm	**500-718-11**	Blade	—	—
0 - 300mm	**500-704-10***	Blade	with thumb roller	—
0 - 300mm	**500-708-11***	Blade	—	—

*without SPC data output

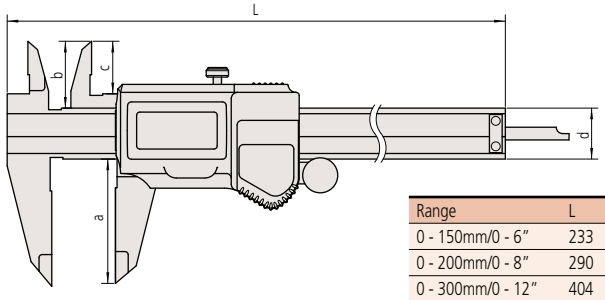
Inch/Metric

Range	Order No.	Depth bar	Fine adjustment	Remarks
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 outside measurement
0 - 6"	**500-735-10**	Blade	with thumb roller	Carbide-tipped jaws for outside measurement
0 - 6"	**500-733-10***	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement
0 - 6"	**500-737-10**	Blade	with thumb roller	Carbide-tipped jaws outside and inside 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 outside measurement
0 - 8"	**500-736-10**	Blade	with thumb roller	Carbide-tipped jaws for outside measurement
0 - 8"	**500-734-10***	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement
0 - 8"	**500-738-10**	Blade	with thumb roller	Carbide-tipped jaws for outside and inside measurement
0 - 12"	**500-764-10**	Blade	with thumb roller	—
0 - 12"	**500-754-10***	Blade	with thumb roller	—

*without SPC data output

DIMENSIONS

Unit: mm



Range	L	a	b	c	d
0 - 150mm/0 - 6"	233	40	21	16.5	16
0 - 200mm/0 - 8"	290	50	24.5	20	16
0 - 300mm/0 - 12"	404	64	27.5	21.8	20

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Mitutoyo