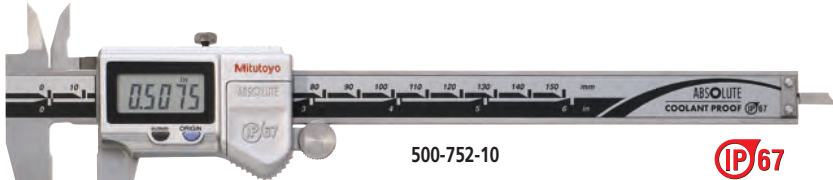


ABSOLUTE Coolant Proof Caliper

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.
- With thumb roller.
- Supplied in fitted plastic case.



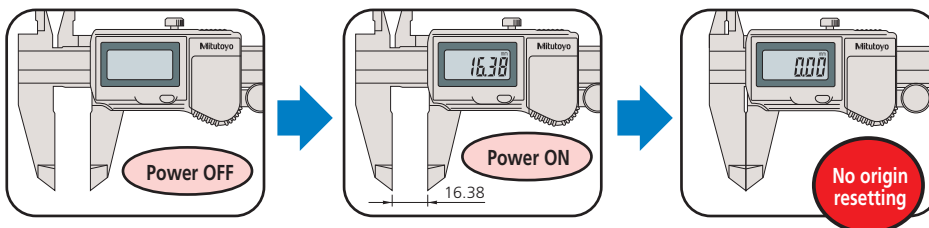
500-752-10



500-763-10



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 CONTROLÉ | | Inspection Results / Résultats | | | | (GRY/P) |
|---|--|--------------------------------|----------------------|----------------------|----------------------|---------|
| Product name/Designation | Customer/Client/Part & purchase Document | Inspection length | Inspection tolerance | Inspection tolerance | Inspection tolerance | |
| Model No./Modelo | CD-1099 | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Case No./Matrícula | 952452 | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Serial No./No. de sèrie | 03416911 | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Measuring range/Capacitat de mesura | 0-150mm | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Minimum Indicator Resolution | 0.01mm | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Standard Temperature / | | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Temperatura de Mesura / | 20°C | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| QC Manager/Responsable Qualitat Controlada | <i>g. g. g.</i> | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Inspection Standard / Mitutoyo Standard | | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Based on / Basat en | JIS B 7501 / ISO 9000:2008 | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Inspected by / Inspeccionat per | ICBS INC. 0000/US/ST Via 8212188834-02 | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Printed on / Impressió en | 978 Via 2180-1778 (2) 4340-1778 (2) | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Mitutoyo Corporation | | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |
| Overall Judgment: Passed / Passada Conformitat: conforma. | | Position tolerance | Form tolerance | Form tolerance | Form tolerance | |



Technical Data

Accuracy: Refer to the list of specifications
 Resolution: .0005" / 0.01mm or 0.01mm
 Repeatability: .0005" / 0.01mm
 Display: LCD
 Length standard: ABSOLUTE electromagnetic induction linear encoder
 Max. response speed: Unlimited
 Battery: SR44 (1 pc./2 pcs*), **938882**
 Battery life: Approx. 3 years under normal use (1 year: over 12" / 300mm models)
 Dust/Water protection level: IP67
 *0 - 300mm model

Function

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

Optional Accessories

- 05CZA624: SPC cable with data switch (40" / 1m)
- 05CZA625: SPC cable with data switch (80" / 2m)



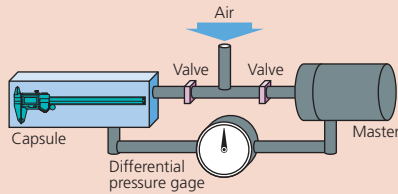
05CZA624



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

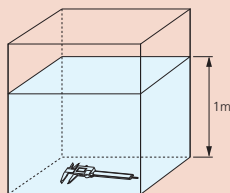
Air leakage detection system used for water-proof testing

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 gage 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 gage. 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.



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 IP67 model

| Range | Order No. | Accuracy | Resolution | Remarks |
|---------|--------------------|-----------|------------|---|
| 0-150mm | 500-702-10* | +/-0.02mm | 0.01mm | |
| 0-150mm | 500-712-10 | +/-0.02mm | 0.01mm | |
| 0-150mm | 500-719-10 | +/-0.02mm | 0.01mm | dia. 1.9mm rod depth bar |
| 0-150mm | 500-721-10 | +/-0.02mm | 0.01mm | carbide-tipped jaws for ID measurement |
| 0-150mm | 500-723-10 | +/-0.02mm | 0.01mm | carbide-tipped jaws for OD & ID measurement |
| 0-200mm | 500-703-10* | +/-0.02mm | 0.01mm | |
| 0-200mm | 500-713-10 | +/-0.02mm | 0.01mm | |
| 0-200mm | 500-722-10 | +/-0.02mm | 0.01mm | carbide-tipped jaws for ID measurement |
| 0-200mm | 500-724-10 | +/-0.02mm | 0.01mm | carbide-tipped jaws for OD & ID measurement |
| 0-300mm | 500-704-10* | +/-0.03mm | 0.01mm | |
| 0-300mm | 500-714-10 | +/-0.03mm | 0.01mm | |

*without SPC data output

Inch/Metric IP67 model

| Range | Order No. | Accuracy | Resolution | Remarks |
|---------------|--------------------|------------|---------------|---|
| 0-6"/0-150mm | 500-752-10* | +/- .001" | .0005"/0.01mm | |
| 0-6"/0-150mm | 500-762-10 | +/- .001" | .0005"/0.01mm | |
| 0-6"/0-150mm | 500-768-10* | +/- .001" | .0005"/0.01mm | .075" rod depth bar |
| 0-6"/0-150mm | 500-769-10 | +/- .001" | .0005"/0.01mm | .075" rod depth bar |
| 0-6"/0-150mm | 500-731-10* | +/- .001" | .0005"/0.01mm | carbide-tipped jaws for ID measurement |
| 0-6"/0-150mm | 500-735-10 | +/- .001" | .0005"/0.01mm | carbide-tipped jaws for ID measurement |
| 0-6"/0-150mm | 500-733-10* | +/- .001" | .0005"/0.01mm | carbide-tipped jaws for OD & ID measurement |
| 0-6"/0-150mm | 500-737-10 | +/- .001" | .0005"/0.01mm | carbide-tipped jaws for OD & ID measurement |
| 0-8"/0-200mm | 500-753-10* | +/- .001" | .0005"/0.01mm | |
| 0-8"/0-200mm | 500-763-10 | +/- .001" | .0005"/0.01mm | |
| 0-8"/0-200mm | 500-732-10* | +/- .001" | .0005"/0.01mm | carbide-tipped jaws for OD measurement |
| 0-8"/0-200mm | 500-736-10 | +/- .001" | .0005"/0.01mm | carbide-tipped jaws for ID measurement |
| 0-8"/0-200mm | 500-734-10* | +/- .001" | .0005"/0.01mm | carbide-tipped jaws for OD & ID measurement |
| 0-8"/0-200mm | 500-738-10 | +/- .001" | .0005"/0.01mm | carbide-tipped jaws for OD & ID measurement |
| 0-12"/0-300mm | 500-754-10* | +/- .0015" | .0005"/0.01mm | |
| 0-12"/0-300mm | 500-764-10 | +/- .0015" | .0005"/0.01mm | |

*without SPC data output

DIMENSIONS AND MASS

Unit: mm

| Range | L | a | b | c | e | Mass (g) |
|---------------------|-----|----|------|------|----|----------|
| 0 - 6" / 0 - 150mm | 233 | 40 | 21 | 16.5 | 16 | 168 |
| 0 - 8" / 0 - 200mm | 290 | 50 | 24.5 | 20 | 16 | 198 |
| 0 - 12" / 0 - 300mm | 404 | 64 | 27.5 | 22 | 20 | 350 |