

Digimatic Carbon-Fiber Caliper

SERIES 552 — with Optional Jaw Attachments

ABSOLUTE®
Absolute System Patented by MITUTOYO

FEATURES

- Lightweight Digimatic Calipers employ CFRP (Carbon-Fiber Reinforced Plastics) in the beam and jaws.
- Highly durable and easy to handle.
- The range of applications can be expanded by using the optional attachments.
- Direct readout of ID measurements from the LCD. (Offset value can be set easily by pressing the Offset key.)
- Preset function for setting a desired starting point.
- With SPC data output.
- Special model available with ceramic jaws which are suitable for measuring abrasive and magnetic products.
- Supplied in fitted wooden case.

SPC

IP66

Technical Data

Accuracy: Refer to the list of specifications
Resolution: .0005"/0.01mm or 0.01mm
Display: LCD
Length standard: Electrostatic capacitance type linear encoder
Max. response speed: unlimited
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 3,000 hours in continuous use



SPECIFICATIONS

Metric

Range*	Order No.	Accuracy	Resolution	Remarks
0(20)-450mm	552-302-10	+/-0.04mm	0.01mm	
0(20)-450mm	552-150-10	+/-0.06mm	0.01mm	long jaws 200mm
0(20)-450mm	552-155-10	+/-0.04mm	0.01mm	ceramic jaws
0(20)-600mm	552-303-10	+/-0.04mm	0.01mm	
0(20)-600mm	552-151-10	+/-0.06mm	0.01mm	long jaws 200mm
0(20)-600mm	552-156-10	+/-0.04mm	0.01mm	ceramic jaws
0(20)-1000mm	552-304-10	+/-0.05mm	0.01mm	
0(20)-1000mm	552-152-10	+/-0.07mm	0.01mm	long jaws 200mm
0(20)-1500mm	552-305-10	+/-0.09mm	0.01mm	
0(20)-1500mm	552-153-10	+/-0.11mm	0.01mm	long jaws 200mm
0(20)-2000mm	552-306-10	+/-0.12mm	0.01mm	
0(20)-2000mm	552-154-10	+/-0.14mm	0.01mm	long jaws 200mm

*(): Minimum dimension in ID measurement

Inch/Metric

Range*	Order No.	Accuracy	Resolution	Remarks
0(.5")-18"	552-312-10	+/- .002"	.0005"/0.01mm	
0(.5")-18"	552-160-10	+/- .0025"	.0005"/0.01mm	long jaws 7.9"
0(.5")-18"	552-165-10	+/- .002"	.0005"/0.01mm	ceramic jaws
0(.5")-24"	552-313-10	+/- .002"	.0005"/0.01mm	
0(.5")-24"	552-161-10	+/- .0025"	.0005"/0.01mm	long jaws 7.9"
0(.5")-24"	552-166-10	+/- .002"	.0005"/0.01mm	ceramic jaws
0(1")-40"	552-314-10	+/- .002"	.0005"/0.01mm	
0(1")-40"	552-162-10	+/- .003"	.0005"/0.01mm	long jaws 7.9"
0(1")-60"	552-315-10	+/- .004"	.0005"/0.01mm	
0(1")-60"	552-163-10	+/- .0045"	.0005"/0.01mm	long jaws 7.9"
0(1")-80"	552-316-10	+/- .005"	.0005"/0.01mm	
0(1")-80"	552-164-10	+/- .0055"	.0005"/0.01mm	long jaws 7.9"

*(): Minimum dimension in ID measurement

Function

Origin-set, Zero-setting, Presetting, Offsetting, Data hold, 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)

- 914055:*** Centerline attachments (mm)
- 914056:*** Centerline attachments (inch)
- 914057:*** Pointed ID measuring attachments (mm)
- 914058:*** Pointed ID measuring attachments (inch)
- 914053:**** Attachment clamps (for models up to 24"/600mm range)
- 914054:**** Attachment clamps (for models over 24"/600mm range)

*Attachment clamps are required
**Attachment clamps and attachments are not available for long jaw type calipers



Centerline Attachments

Pointed ID Measuring Attachments



Attachment Clamps