

**ABSOLUTE™** (Refer to page X for details.)

**IP66** (Refer to page X for details.)

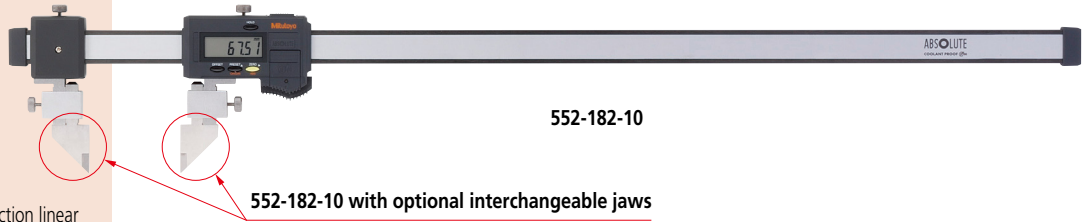


(Refer to page X for details.)

## ABSOLUTE Coolant Proof Carbon Fiber Caliper SERIES 552 - with Interchangeable Jaws

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

- IP66 Absolute Digital Caliper (Refer to page D-8 for a description of Absolute measurement.)
- The range of applications can be expanded by using interchangeable jaws (optional).
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.
- Provided with preset function for setting a desired starting point, which allows direct readout of offset measurement.



### Technical Data

Accuracy: Refer to the list of specifications. (excluding quantizing error)

Resolution: 0.01 mm or 0.0005 in/0.01 mm

Display: LCD

Scale type: ABSOLUTE electromagnetic induction linear encoder

Max. response speed: Unlimited

Battery: **SR44** (1 pc), **938882**, for initial operational checks (standard accessory)

Battery life: Approx. 5,000 hours in continuous use

Dust/Water protection level: IP66 (IEC 60529)\*

Standard accessory: Jaw clamps (2 pcs.), 05GZA033

\* Rustproofing shall be applied after use if caliper was in contact with coolant.

### Functions

Zero-setting

Data hold

Offsetting

Presetting

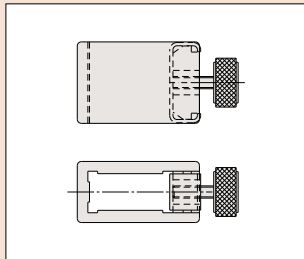
Data output

Low-power and low-voltage alert

Counting value composition error

Automatic power on/off, inch/mm reading (inch/mm models)

### Standard accessories (2 pcs)



Jaw clamps: 05GZA033

### Optional accessories

For details, refer to page D-39.

Connecting cables for **IT/DP/MUX**

**05CZA624**: SPC cable with data button (1 m)

**05CZA625**: SPC cable with data button (2 m)



### USB Input Tool Direct

**06AFM380A**: SPC cable for **USB-ITN-A** (2 m)

Connecting cables for **U-WAVE-T**

**02AZD790A**: SPC cable for U-WAVE with data button (160 mm)

**02AZE140A**: SPC cable for footswitch

### SPECIFICATIONS

Metric		
Order No.	Range	Accuracy
<b>552-181-10</b>	0 - 450 mm	±0.04 mm
<b>552-182-10</b>	0 - 600 mm	
<b>552-183-10</b>	0 - 1000 mm	±0.05 mm
<b>552-184-10</b>	0 - 1500 mm	±0.09 mm
<b>552-185-10</b>	0 - 2000 mm	±0.12 mm

Inch/Metric		
Order No.	Range	Accuracy
<b>552-191-10</b>	0 - 18 in	±0.002 in
<b>552-192-10</b>	0 - 24 in	
<b>552-193-10</b>	0 - 40 in	±0.004 in
<b>552-194-10</b>	0 - 60 in	
<b>552-195-10</b>	0 - 80 in	±0.005 in

# Calipers

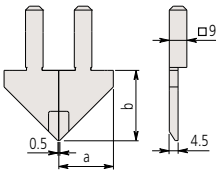
An industry standard measuring tool

## Optional accessories

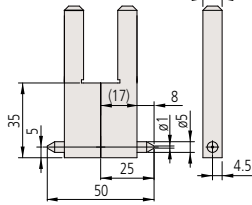
Interchangeable jaws

### SPECIFICATIONS

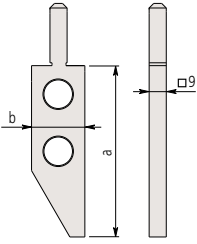
#### Standard type



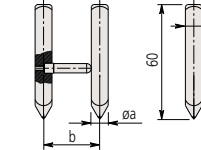
#### Inside point type



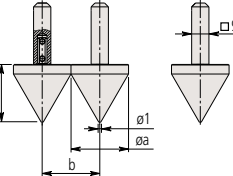
#### Surface Plate Type



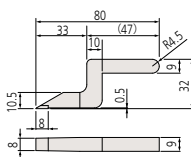
#### Scriber Type



#### Centerline Type



#### Scriber for height gages



#### Standard Type

Order No.	Components	a	b
<b>07CZA056</b>	Right ( <b>07CAA044</b> ), Left ( <b>07CAA045</b> )	28 mm (1.1 in)	30 mm (1.2 in)

\* 1 set

#### Inside Point Type

Order No.	Components	a	b
<b>07CZA058</b>	<b>07CZA041</b> x 2pcs.	25 mm	50 mm
<b>07CZA059</b>	<b>07CZA048</b> x 2pcs.	1 in	2 in

#### Scriber Type

Order No.	Components	a	b
<b>07CZA055</b>	Right ( <b>07CZA042</b> ), Left ( <b>07CZA043</b> )	8 mm	30 mm
<b>07CZA061</b>	Right ( <b>07CZA042</b> ), Left ( <b>07CZA049</b> )	0.31 in	1.2 in

#### Surface Plate Type

Order No.	a	b
<b>07CZA044</b>	90 mm (3.5 in)	28 mm (1.1 in)

#### Centerline Type

Order No.	Components	a	b
<b>07CZA057</b>	<b>07CZA039</b> x 2pcs.	30 mm	30 mm
<b>07CZA060</b>	<b>07CZA047</b> x 2pcs.	1.2 in	1.2 in

Note: Entering the appropriate offset value enables the display to indicate the correct measurement value inscribed on the jaws, which should be installed so that this inscription is visible from the display side of the caliper.

#### Scriber for height gages

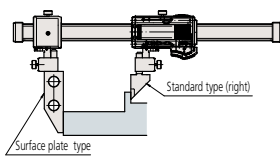
Order No.
<b>07GZA000</b>

Type	Applicable calipers	Range	Accuracy when attached to the caliper
Standard type	<b>552-181-10 (552-191-10)</b>	0 - 450 mm (0 - 18 in)	±0.06 mm (±0.0025 in)
	<b>552-182-10 (552-192-10)</b>	0 - 600 mm (0 - 24 in)	±0.07 mm (±0.0030 in)
	<b>552-183-10 (552-193-10)</b>	0 - 1000 mm (0 - 40 in)	±0.07 mm (±0.0030 in)
	<b>552-184-10 (552-194-10)</b>	0 - 1500 mm (0 - 60 in)	±0.11 mm (±0.0045 in)
Inside point type	<b>552-185-10 (552-195-10)</b>	0 - 2000 mm (0 - 80 in)	±0.14 mm (±0.0055 in)
	<b>552-181-10 (552-191-10)</b>	Inside: 50.1-500 mm (2.004 - 20 in) Outside: 0 - 450 mm (0 - 18 in)	±0.09 mm (±0.0035 in)
	<b>552-182-10 (552-192-10)</b>	Inside: 50.1 - 650 mm (2.004 - 26 in) Outside: 0 - 600 mm (0 - 24 in)	
	<b>552-183-10 (552-193-10)</b>	Inside: 50.1 - 1050 mm (2.004 - 42 in) Outside: 0 - 1000 mm (0 - 40 in)	±0.10 mm (±0.0040 in)
Centerline type	<b>552-184-10 (552-194-10)</b>	Inside: 50.1 - 1550 mm (2.004 - 62 in) Outside: 0 - 1500 mm (0 - 60 in)	±0.14 mm (±0.0055 in)
	<b>552-185-10 (552-195-10)</b>	Inside: 50.1-2050 mm (2.004 - 82 in) Outside: 0 - 2000 mm (0 - 80 in)	±0.17 mm (±0.0070 in)
	<b>552-181-10 (552-191-10)</b>	30.1 - 480 mm (1.204 - 19.2 in)	±0.08 mm (±0.0030 in)
	<b>552-182-10 (552-192-10)</b>	30.1 - 630 mm (1.204 - 25.2 in)	
Scriber type	<b>552-183-10 (552-193-10)</b>	30.1 - 1030 mm (1.204 - 41.2 in)	±0.09 mm (±0.0035 in)
	<b>552-184-10 (552-194-10)</b>	30.1 - 1530 mm (1.204 - 61.2 in)	±0.13 mm (±0.0055 in)
	<b>552-185-10 (552-195-10)</b>	30.1 - 2030 mm (1.204 - 81.2 in)	±0.16 mm (±0.0065 in)
	<b>552-181-10 (552-191-10)</b>	30.1 - 480 mm (1.204 - 19.2 in) 30.1 - 630 mm (1.204 - 25.2 in)	±0.10 mm (±0.0040 in)
Surface plate type + Scriber type for height gages	<b>552-183-10 (552-193-10)</b>	30.1 - 1030 mm (1.204 - 41.2 in)	±0.11 mm (±0.0045 in)
	<b>552-184-10 (552-194-10)</b>	30.1 - 1530 mm (1.204 - 61.2 in)	±0.15 mm (±0.0060 in)
	<b>552-185-10 (552-195-10)</b>	30.1 - 2030 mm (1.204 - 81.2 in)	±0.18 mm (±0.0070 in)
	<b>552-181-10 (552-191-10)</b>	0 - 450 mm (0 - 17.7 in)	±0.10 mm (±0.0040 in)
Surface plate type + Inside point type	<b>552-182-10 (552-192-10)</b>	0 - 600 mm (0 - 23.7 in)	±0.11 mm (±0.0045 in)
	<b>552-183-10 (552-193-10)</b>	0 - 1000 mm (0 - 39.4 in)	±0.15 mm (±0.0060 in)
	<b>552-184-10 (552-194-10)</b>	0 - 1500 mm (0 - 59.4 in)	±0.18 mm (±0.0070 in)
	<b>552-185-10 (552-195-10)</b>	0 - 2000 mm (0 - 79.6 in)	±0.20 mm (±0.0080 in)
Surface plate type + Centerline type	<b>552-181-10 (552-191-10)</b>	Inside: 60 - 450 mm (1.004 - 19 in) Outside: 0 - 450 mm (1 - 18 in)	±0.12 mm (±0.0050 in)
	<b>552-182-10 (552-192-10)</b>	Inside: 60 - 600 mm (1.004 - 25 in) Outside: 0 - 600 mm (1 - 24 in)	±0.13 mm (±0.0055 in)
	<b>552-183-10 (552-193-10)</b>	Inside: 60 - 1000 mm (1.004 - 41 in) Outside: 0 - 1000 mm (1 - 40 in)	±0.17 mm (±0.0070 in)
	<b>552-184-10 (552-194-10)</b>	Inside: 60 - 1500 mm (1.004 - 62 in) Outside: 0 - 1500 mm (1-60 in)	±0.20 mm (±0.0080 in)
Surface plate type + Scriber type for height gages	<b>552-185-10 (552-195-10)</b>	Inside: 60 - 2000 mm (1.004 - 81 in) Outside: 0 - 2000 mm (1 - 80 in)	±0.20 mm (±0.0080 in)
	<b>552-181-10 (552-191-10)</b>	15 - 465 mm (0.6 - 18.6 in)	±0.11 mm (±0.0045 in)
	<b>552-183-10 (552-193-10)</b>	15 - 615 mm (0.6 - 24.6 in)	±0.12 mm (±0.0050 in)
	<b>552-184-10 (552-194-10)</b>	15 - 1015 mm (0.6 - 40.6 in)	±0.16 mm (±0.0065 in)
Surface plate type + Centerline type	<b>552-185-10 (552-195-10)</b>	15 - 1515 mm (0.6 - 60.6 in)	±0.19 mm (±0.0075 in)
	<b>552-185-10 (552-195-10)</b>	15 - 2015 mm (0.6 - 80.6 in)	±0.19 mm (±0.0075 in)

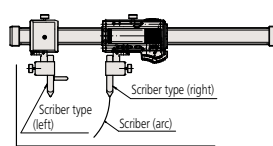
( ): Inch/Metric models

### Application examples

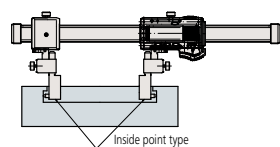
#### Surface plate type + Standard type



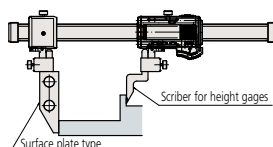
#### Scriber type



#### Inside point type



#### Surface plate type + Scriber for height gages



#### Surface plate type + Centerline type

