

# Calipers

## SERIES 552 – ABSOLUTE Digimatic Long Jaw Carbon Fibre Caliper

- A lightweight Digimatic caliper that uses CFRP (Carbon Fibre Reinforced Plastics) in the beam and jaws.
- Data output function allows integration into statistical process control and measurement systems.

**MeasurLink<sup>®</sup> ENABLED**  
Data Management Software by Mitutoyo

**ABSOLUTE**

**IP66**



### Specifications

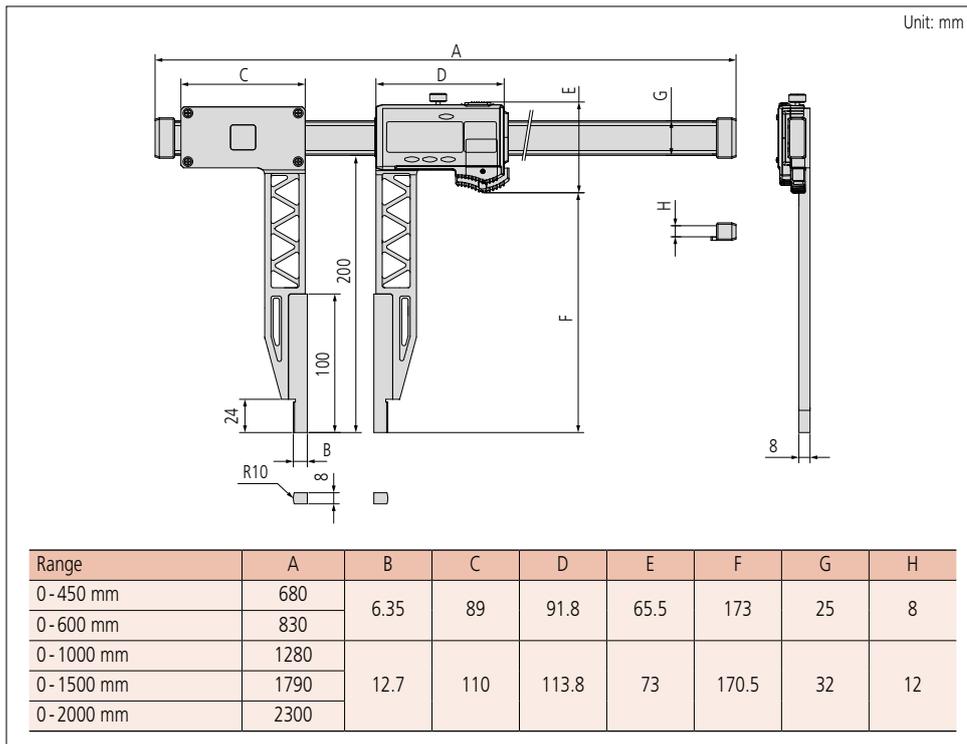
Inch/Metric

Code No.	Range* <sup>1</sup>	Resolution	Accuracy* <sup>2</sup>
<b>552-160-10</b>	0 (20) - 450 mm / 0 (.5") - 18"	0.01 mm / .0005"	±0.06 mm / ±.0025"
<b>552-161-10</b>	0 (20) - 600 mm / 0 (.5") - 24"		
<b>552-162-10</b>	0 (20) - 1000 mm / 0 (1") - 40"		
<b>552-163-10</b>	0 (20) - 1500 mm / 0 (1") - 60"		
<b>552-164-10</b>	0 (20) - 2000 mm / 0 (1") - 80"		

\*<sup>1</sup> ( ): Minimum dimension in inside measurement.

\*<sup>2</sup> Excluding quantizing error.

### Dimensions



### Technical Data

Scale type: ABSOLUTE electromagnetic induction linear encoder  
 Max. response speed: Unlimited  
 Battery: SR44 (1 pc.), **938882**  
 Battery life: Approx. 5,000 hours in continuous use  
 Dust/water protection level: IP66\*<sup>3</sup>  
 \*<sup>3</sup> Rustproofing treatment to be applied after use.

### Functions

**ABSOLUTE system measurement:**  
 After power is turned ON, measurement can be started without zero-setting if origin-setting was previously performed. The ABS (absolute) origin position can be changed by the ORIGIN button.

**Zero-setting (INC measurement mode):**  
 Displayed value can be set to zero at any arbitrary position of the slider for comparative measurements.

**Auto ON/OFF:**  
 The reading on the LCD disappears after this instrument is idle for a short time, but the origin point is retained. Moving the slider causes the reading on the LCD to reappear.

**Data output:**  
 Models equipped with this function have an output port for transferring measurement data to a Statistical Process Control (SPC) system.

**Data hold:**  
 By using the data hold button the displayed value can be held.

**Presetting (ABS INC measurement mode):**  
 Displayed value can be set to any arbitrary value.

**Offsetting:**  
 Automatically adds the thickness of the inside jaws to the measured value so that the result can be read directly, without calculation.

**Inch/mm selection:**  
 Switches the units of measurement (at any time).

**Alerts:**  
 In the unlikely event of a display overflow or calculation error, an error message is displayed and measurement stops. Measurement cannot continue until the error is corrected. If the battery voltage drops below a certain point, the battery indicator will turn on before measurement becomes impossible, warning the user that the battery needs to be replaced. If contamination on the surface of the scale causes a calculation error, an error message is displayed and measurement stops.

### Optional Accessories

Code No.	Description
<b>02AZD790A</b>	U-WAVE-T data cable with pushbutton (160 mm)
<b>02AZE140A</b>	U-WAVE-T data cable with pushbutton and footswitch connection (160/500 mm)
<b>05CZA624</b>	SPC data cable with pushbutton (1 m)
<b>05CZA625</b>	SPC data cable with pushbutton (2 m)
<b>06AFM380A</b>	USB Input Tool Direct USB-ITN-A (2 m)