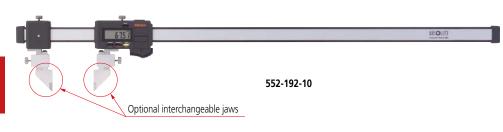
# Calipers

# SERIES 552 – ABSOLUTE Digimatic Coolant Proof Interchangeable Jaw Carbon Fibre Caliper

- A lightweight Digimatic caliper that uses CFRP (Carbon Fibre Reinforced Plastics) in the beam and jaws.
- Provided with preset function for setting a desired starting point, which allows direct readout of offset measurement.
- The range of applications can be expanded by using interchangeable jaws (optional).
- Data output function allows integration into statistical process control and measurement systems.



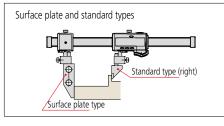


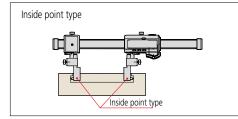
### **Specifications**

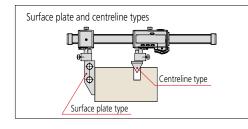
Inch/Metric			
Code No.	Range	Resolution	Accuracy*1
552-191-10	0-450 mm/0-18"		
552-192-10	0-600 mm/0-24"		±0.04 mm/±.002"
552-193-10	0-1000 mm/0-40"	0.01 mm/.0005"	
552-194-10	0-1500 mm/0-60"		±0.09 mm/±.004"
552-195-10	0-2000 mm/0-80"		±0.12 mm/±.005"

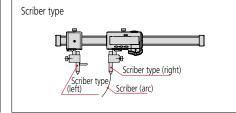
\*1 Excluding quantizing error.

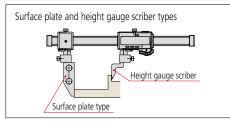
### **Application Examples**











#### **Technical Data**

ABSOLUTE electromagnetic induction linear encoder Max. response speed: Unlimited

Approx. 5,000 hours in continuous use

SR44 (1 pc.), 938882

Battery: Battery life: Dust/water protection level:

Scale type:

IP66\*2

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

\*2 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 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:

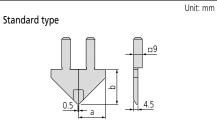
Switches the units of measurement (at any time). Alerts<sup>.</sup>

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.

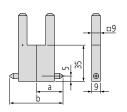
#### **Optional Accessories**

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

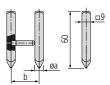
#### Interchangeable Jaw Dimensions



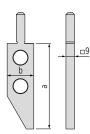
Inside point type



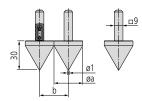
Scriber type



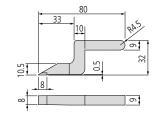
Surface plate type



Centreline type



Height gauge scriber



#### Interchangeable Jaw Specifications

Code No.	Components	а	b			
Standard type						
07CZA056*	2 pcs.	28 mm	30 mm			
Inside point type						
07CZA058*	2 pcs.	25 mm	50 mm			
07CZA059*	2 pcs.	1"	2 "			
Scriber type						
07CZA055*	2 pcs.	8 mm	30 mm			
07CZA061*	2 pcs.	.031"	1.2"			

Code No. Components b а Surface plate type 07CZA044 90 mm 28 mm 1 pc. Centreline type 07CZA057\* 2 pcs. 30 mm 30 mm 07CZA060\* 1.2" 1.2" 2 pcs. Height gauge scriber type 07GZA000 1 pc. \_

\* Individual components available, price on application.

Interchangeable Jaw	Applicable calipers	Range	Accuracy when attached to the caliper	
	552-191-10	0-450 mm (0-18")	±0.06 mm (±.0025")	
	552-192-10	0-600 mm (0-24")	±0.00 mm (±.0025 )	
Standard type	552-193-10	0-1000 mm (0-40")	±0.07 mm (±.0030")	
	552-194-10	0-1500 mm (0-60")	±0.11 mm(±.0045")	
	552-195-10	0-2000 mm (0-80")	±0.14 mm (±.0055")	
	EE2 101 10	Inside: 50-500 mm (2-20")		
Inside point type	552-191-10	Outside: 0-450 mm (0-18")	.0.00 mm(+.0025")	
	FF2 402 40	Inside: 50-650 mm (2-26")	±0.09 mm(±.0035")	
	552-192-10	Outside: 0-600 mm (0-24")		
	FF2 102 10	Inside: 50 - 1050 mm (2 - 42 ")	±0.10 mm (±.0040")	
	552-193-10	Outside: 0 - 1000 mm (0 - 40 ")		
	FF2 404 40	Inside: 50 - 1550 mm (2 - 62 ")		
	552-194-10	Outside: 0 - 1500 mm (0 - 60 ")	±0.14 mm (±.0055")	
	FF2 405 40	Inside: 50 - 2050 mm(2 - 82")		
	552-195-10	Outside: 0 - 2000 mm( 0 - 80 ")	±0.17 mm (±.0070")	
	552-191-10	30-480 mm (1.2-19.2")	0.00 (	
	552-192-10	30-630 mm (1.2-25.2")	±0.08 mm (±.0030")	
Centreline type	552-193-10	30 - 1030 mm (1.2 - 41.2 ")	±0.09 mm (±.0035")	
	552-194-10	30 - 1530 mm (1.2 - 61.2 ")	±0.13 mm(±.0055")	
	552-195-10	30-2030 mm (1.2-81.2")	±0.16 mm (±.0065")	
	552-191-10	30-480 mm (1.2-19.2")		
	552-192-10	30-630 mm (1.2-25.2")	±0.10 mm (±.0040")	
Scriber type	552-193-10	30 - 1030 mm (1.2 - 41.2 ")	±0.11 mm (±.0045")	
,,	552-194-10	30-1530 mm (1.2-61.2")	±0.15 mm (±.0060")	
	552-195-10	30-2030 mm (1.2-81.2")	±0.18 mm (±.0070")	
	552-191-10	0-450 mm (0-17.7")		
Surface plate and	552-192-10	0-600 mm (0-23.7")	±0.10 mm(±.0040")	
neight gauge scriber	552-193-10	0 - 1000 mm (0 - 39.4")	±0.11 mm (±.0045")	
ypes	552-194-10	0 - 1500 mm (0 - 59.4")	±0.15 mm (±.0060")	
	552-195-10	0 - 2000 mm (0 - 79.6")	±0.18 mm (±.0070")	
	552-191-10	Inside: 25 - 475 mm (1 - 19")		
		Outside: 0-450 mm (1-18")	±0.12 mm (±.0050")	
	552-192-10 -	Inside: 25 - 625 mm (1 - 25")		
		Outside: 0-600 mm (1-24")		
Surface plate and	552-193-10 -	Inside: 25 - 1025 mm (1 - 41 ")		
nside point types		Outside: 0 - 1000 mm (1 - 40")	±0.13 mm (±.0055")	
inside point types	552-194-10 -	Inside: 25 - 1525 mm (1 - 62 ")	±0.17 mm (±.0070")	
		Outside: 0 - 1500 mm (1 - 60 ")		
	552-195-10	Inside: 25-2025 mm (1-81")	±0.20 mm (±.0080")	
		Outside: 0 - 2000 mm (1 - 80")		
	552-191-10	15-465 mm (0.6-18.6")		
	552-192-10	15-615 mm (0.6-24.6")		
Surface plate and	552-192-10	15-1015 mm (0.6-40.6")	±0.12 mm (±.0050")	
centreline types	552-193-10	15-1515 mm (0.6-60.6")	±0.12 mm (±.0050 ) ±0.16 mm (±.0065")	
		0.00-00.0	±0.10 IIIII (±.0000 )	

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