

# Vernier Caliper

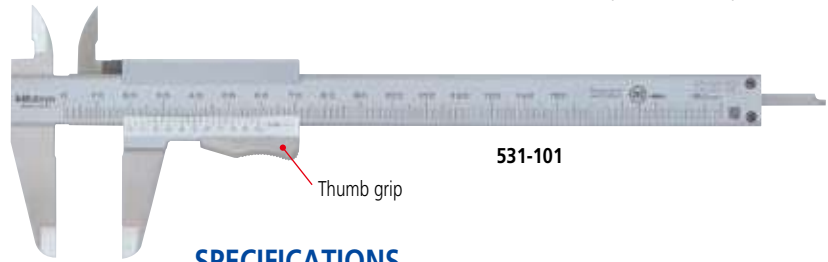
## SERIES 531 — with Thumb Clamp

### FEATURES

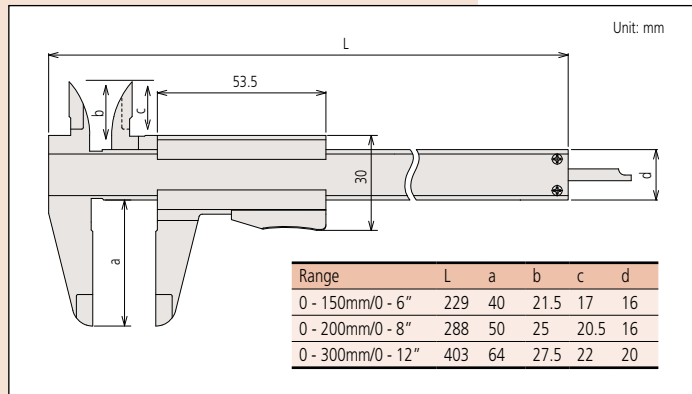
- The slider moves only when the spring-loaded thumb grip is depressed.
- Can measure outside and inside diameter (OD and ID), depth, and steps.

### Technical Data

Accuracy: Refer to the list of specifications.  
 Graduation: 0.05mm, 0.05mm (1/128") or .001" (1/128")  
 High accuracy type:  
 0.02mm or 0.02mm (.001")



### DIMENSIONS



### SPECIFICATIONS

Metric					
Range	Order No.	Accuracy	Depth bar	Remarks	
0 - 150mm	<b>531-101</b>	±0.05mm	Blade	—	
0 - 200mm	<b>531-102</b>	±0.05mm	Blade	—	
0 - 300mm	<b>531-103</b>	±0.08mm	Blade	—	

\*Graduation: 0.02mm

### Metric/Inch with metric/inch double scale

Range	Order No.	Accuracy	Depth bar	Inch graduation	Remarks
0 - 150mm	<b>531-122</b>	±0.05mm	Blade	1/128"	with inch/mm conversion label
0 - 150mm	<b>531-128*</b>	±0.03mm	Blade	.001"	High accuracy model
0 - 200mm	<b>531-108</b>	±0.05mm	Blade	1/128"	—
0 - 200mm	<b>531-129*</b>	±0.03mm	Blade	.001"	High accuracy model
0 - 300mm	<b>531-109</b>	±0.08mm	Blade	1/128"	—
0 - 300mm	<b>531-112*</b>	±0.04mm	Blade	.001"	High accuracy model

\*Graduation: 0.02mm

# Vernier Caliper

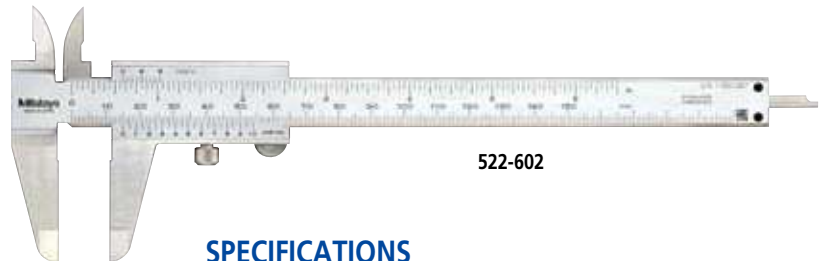
## SERIES 522 — Parallax-Free Type

### FEATURES

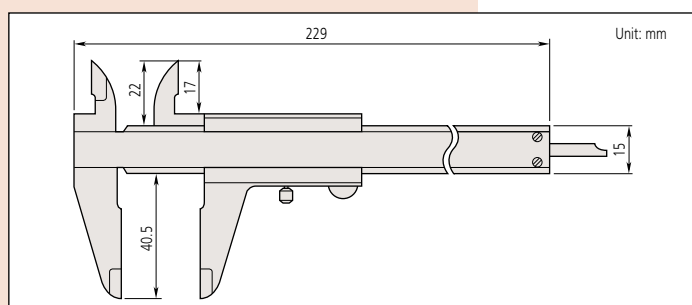
- The main and vernier scales are flush-fitted to eliminate parallax errors because of the diamond-shape (octagonal) cross section of the main scale.
- Can measure outside and inside diameter (OD and ID), depth, and steps.
- With locking screw below the slider.

### Technical Data

Accuracy: Refer to the list of specifications.  
 Graduation: 0.05mm (1/128")  
 High accuracy type: 0.02mm (.001")



### DIMENSIONS



### SPECIFICATIONS

Metric					
Range	Order No.	Accuracy	Depth bar	Remarks	
0 - 150mm	<b>522-600</b>	±0.05mm	Blade	—	
0 - 150mm	<b>522-606*</b>	±0.03mm	Blade	High accuracy model	

\*Graduation: 0.02mm

### Metric/Inch with metric/inch double scale

Range	Order No.	Accuracy	Depth bar	Inch resolution	Remarks
0 - 150mm	<b>522-601</b>	±0.05mm	Blade	1/128"	—
0 - 150mm	<b>522-602*</b>	±0.03mm	Blade	.001"	High accuracy model

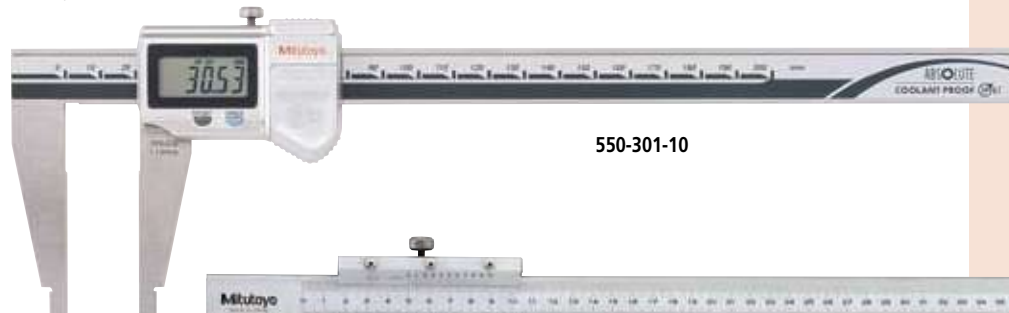
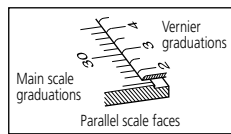
\*Graduation: 0.02mm

# ABSOLUTE Digimatic & Vernier Caliper

**SERIES 550, 160 — with Nib Style Jaws**

## FEATURES

- The rounded faces of the jaws are ideal for accurate inside diameter (ID) measurement.
- Inside and outside measurements can be read directly from the upper and lower vernier scales (Series 160).
- Fine-adjustment type is available (Series 160).
- Parallax-free vernier scale type is available for easy and positive measurement (Series 160).
- SPC output (Series 550).



550-301-10



160-130

## SPECIFICATIONS

**Metric** Digital model

Range*	Order No.	Accuracy	Remarks
0 - 200mm (10 - 210mm)	<b>550-301-10</b>	±0.03mm	IP67
0 - 300mm (10 - 310mm)	<b>550-331-10</b>	±0.04mm	IP67, with offset/preset function for easy inside measurement
0 - 450mm (20 - 470mm)	<b>550-203-10</b>	±0.05mm	—
0 - 600mm (20 - 620mm)	<b>550-205-10</b>	±0.05mm	—
0 - 1000mm (20 - 1020mm)	<b>550-207-10</b>	±0.07mm	—

\*( ): Inside measurement

**Inch/Metric** Digital model

Range*	Order No.	Accuracy	Remarks
0 - 8" (.4" - 8.4")	<b>550-311-10</b>	±.0015"	IP67
0 - 12" (.4" - 12.4")	<b>550-341-10</b>	±.002"	IP67, with offset/preset function for easy inside measurement
0 - 18" (.5" - 18.5")	<b>550-223-10</b>	±.002"	—
0 - 24" (.5" - 24.5")	<b>550-225-10</b>	±.002"	—
0 - 40" (1" - 41")	<b>550-227-10</b>	±.003"	—

\*( ): Inside measurement

**Metric** with metric/metric double scale

Range*	Order No.	Accuracy	Remarks
0 (20) - 450mm	<b>160-130</b>	±0.10mm	—
0 (20) - 600mm	<b>160-131</b>	±0.10mm	—
0 (20) - 1000mm	<b>160-132</b>	±0.15mm	—

\*( ): Minimum dimension in inside measurement

## DIMENSIONS

Series 550 / 160		Series 551 / 533		Unit: mm	
Range	a b c R	Range	a b c d R		
0 - 200mm	60 40.5 8 5	0 - 200mm	60 43 8 30 5		
0 - 300mm	75 50.5 12 5	0 - 300mm	90 68 10 40.1 5		
0 - 450mm	100 65 18 10	0 - 450mm	150 115 15 56 10		
0 - 600mm	100 65 18 10	0 - 600mm	150 115 15 56 10		
0 - 1000mm	140 95 24 10	0 - 1000mm	150 115 20 56 10		



(Refer to page VIII for details.)

## Technical Data

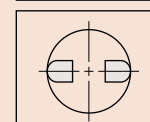
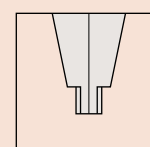
Accuracy: Refer to the list of specifications.  
(excluding quantizing error for digital models)  
Resolution\*: 0.01mm or .0005"/0.01mm  
Graduation\*\*: 0.02mm  
Display\*: LCD  
Scale type\*: ABSOLUTE electrostatic linear encoder  
Max. response speed\*: Unlimited  
Battery\*: SR44 (1 pc.), **938882**  
Battery life\*: Approx. 3 years under normal use  
(1 year: 300mm models)  
(3.5 years: over 300mm models)  
Dust/Water protection level\*: IP67 (models up to 300mm)  
\*Digital models \*\*Analog models

## Functions of Digital Model

Origin-set, Zero-setting, Data output, inch/mm conversion (inch/mm models)  
Alarm: Low voltage, Counting value composition error

## Optional Accessories for Digital Model

- 05CZA624**: SPC cable with data switch (1m)\*
  - 05CZA625**: SPC cable with data switch (2m)\*
  - 02AZD790A**: SPC cable for U-WAVE w/ data switch (160mm)\*
  - 959143**: Data hold unit
  - 959149**: SPC cable with data switch (1m)
  - 959150**: SPC cable with data switch (2m)
  - 02AZD790C**: SPC cable for U-WAVE w/ data switch (160mm)
- \*For IP67 models (up to 300mm)



Round surface of jaws for accurate CD measurement

(Refer to page VIII for details.)

### Technical Data

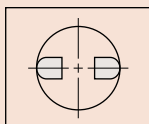
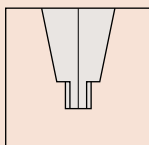
Accuracy: Refer to the list of specifications.  
(excluding quantizing error for digital models)  
Resolution: 0.01mm or .0005"/0.01mm  
Display: LCD  
Scale type: ABSOLUTE electrostatic linear encoder  
Max. response speed: Unlimited  
Battery: SR44 (1 pc.), **938882**  
Battery life: Approx. 3 years under normal use  
(1 year: 300mm models)  
(3.5 years: over 300mm models)  
Dust/Water protection level: IP67 (models up to 300mm)

### Functions of Digital Model

Origin-set, Zero-setting, Data output, inch/mm conversion  
(inch/mm models)  
Alarm: Low voltage, Counting value composition error

### Optional Accessories for Digital Model

- 05CZA624:** SPC cable with data switch (1m)\*
  - 05CZA625:** SPC cable with data switch (2m)\*
  - 02AZD790A:** SPC cable for U-WAVE w/ data switch (160mm)\*
  - 959143:** Data hold unit
  - 959149:** SPC cable with data switch (1m)
  - 959150:** SPC cable with data switch (2m)
  - 02AZD790C:** SPC cable for U-WAVE w/ data switch (160mm)
- \*For IP67 models (up to 300mm)



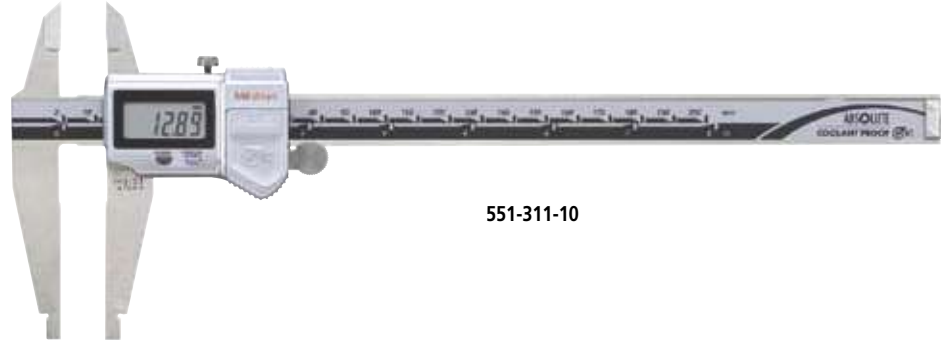
Round surface of jaws for accurate CD measurement

# ABSOLUTE Digimatic Caliper

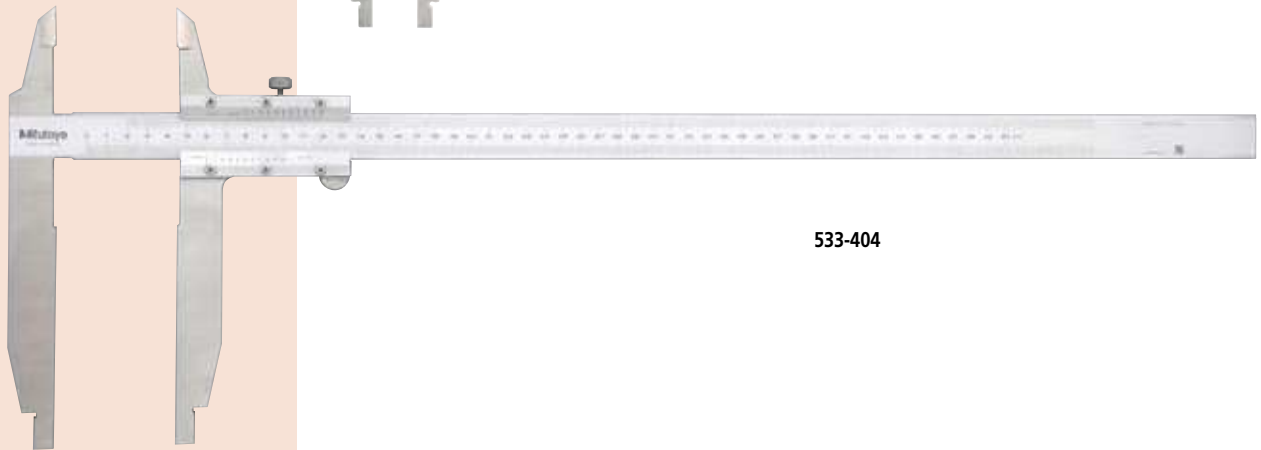
## SERIES 551, 533 — with Nib Style and Standard Jaws

### FEATURES

- The rounded faces of the jaws are ideal for accurate inside diameter (ID) measurement.
- SPC output. (Series 551)
- Inside and outside measurements can be read directly from the upper and lower vernier scales (Series 533).



551-311-10



533-404

### SPECIFICATIONS

#### Metric Digital model

Range*	Order No.	Accuracy	Remarks
0 - 200mm (10 - 210mm)	<b>551-301-10</b>	±0.03mm	IP67
0 - 300mm (10 - 310mm)	<b>551-331-10</b>	±0.04mm	IP67, with offset/preset function for easy inside measurement
0 - 500mm (20 - 520mm)	<b>551-204-10</b>	±0.06mm	—
0 - 750mm (20 - 770mm)	<b>551-206-10</b>	±0.06mm	—
0 - 1000mm (20 - 1020mm)	<b>551-207-10</b>	±0.07mm	—

\*( ): inside measurement

#### Inch/Metric Digital model

Range*	Order No.	Accuracy	Remarks
0 - 8" (.4" - 8.4")	<b>551-311-10</b>	±.0015"	IP67
0 - 12" (.4" - 12.4")	<b>551-341-10</b>	±.002"	IP67, with offset/preset function for easy inside measurement
0 - 20" (.5" - 20.5")	<b>551-224-10</b>	±.0025"	—
0 - 30" (.5" - 30.5")	<b>551-226-10</b>	±.0025"	—
0 - 40" (1" - 41")	<b>551-227-10</b>	±.003"	—

\*( ): inside measurement

#### Metric with metric/metric double scale

Range*	Order No.	Accuracy	Remarks
0 (20) - 500mm	<b>533-404</b>	±0.10mm	—
0 (20) - 750mm	<b>533-405</b>	±0.12mm	—
0 (20) - 1000mm	<b>533-406</b>	±0.15mm	—

\*( ): inside measurement

# Dial Caliper

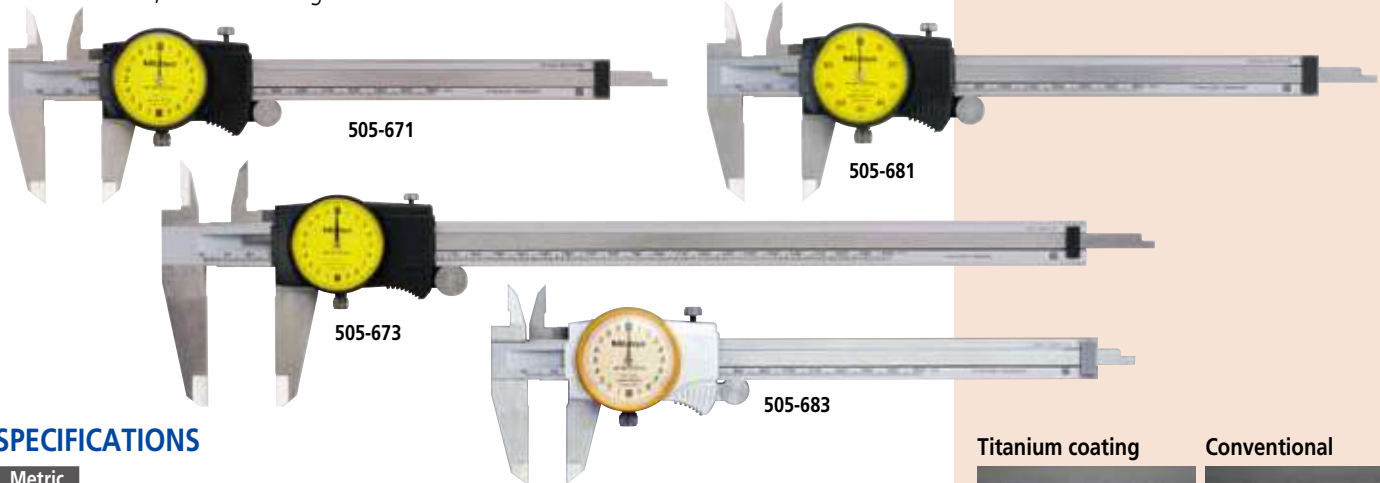
## SERIES 505

### FEATURES

- Newly designed dial movement for ultra smooth sliding and high shock protection.
- Titanium coating is applied to the sliding surfaces to enhance the durability (except for 0 - 300mm and 0 - 12" model). No wear over 100,000-time sliding test.
- Can measure outside and inside diameter (OD and ID), depth, and steps.
- Clamping screw atop the slider.
- Special models available with carbide-tipped outside and inside jaws.



(Refer to page VIII for details.)



### SPECIFICATIONS

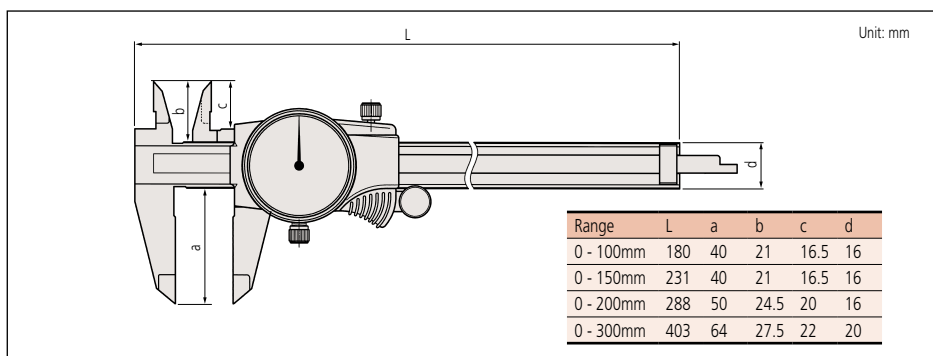
Metric				
Range	Order No.	Accuracy	Graduation	Remarks
0 - 100mm	505-680	±0.015mm	0.01mm, 1mm/rev	—
0 - 150mm	505-671 / 505-683*	±0.03mm	0.02mm, 2mm/rev	—
0 - 150mm	505-707	±0.03mm	0.02mm, 2mm/rev	Carbide-tipped jaws for outside measurement
0 - 150mm	505-711	±0.03mm	0.02mm, 2mm/rev	Carbide-tipped jaws for outside and inside measurement
0 - 150mm	505-681 / 505-685*	±0.02mm	0.01mm, 1mm/rev	—
0 - 200mm	505-672 / 505-684*	±0.03mm	0.02mm, 2mm/rev	—
0 - 200mm	505-682 / 505-686*	±0.03mm	0.01mm, 1mm/rev	—
0 - 300mm	505-673	±0.04mm	0.02mm, 2mm/rev	—

\*Silver cover type

Inch				
Range	Order No.	Accuracy	Graduation	Remarks
0 - 4"	505-674	±.001"	.001", .1"/rev	—
0 - 6"	505-675 / 505-689*	±.001"	.001", .1"/rev	—
0 - 6"	505-708	±.001"	.001", .1"/rev	Carbide-tipped jaws for outside measurement
0 - 6"	505-712	±.001"	.001", .1"/rev	Carbide-tipped jaws for outside and inside measurement
0 - 8"	505-676 / 505-690*	±.002"	.001", .1"/rev	—
0 - 8"	505-709	±.002"	.001", .1"/rev	Carbide-tipped jaws for outside measurement
0 - 8"	505-713	±.002"	.001", .1"/rev	Carbide-tipped jaws for outside and inside measurement
0 - 12"	505-720	±.002"	.001", .2"/rev	—
0 - 12"	505-677*	±.002"	.001", .1"/rev	—
0 - 12"	505-721	±.002"	.001", .2"/rev	Carbide-tipped jaws for outside measurement
0 - 12"	505-710*	±.002"	.001", .1"/rev	Carbide-tipped jaws for outside measurement
0 - 12"	505-714*	±.002"	.001", .1"/rev	Carbide-tipped jaws for outside and inside measurement

\*Silver cover type

### DIMENSIONS



### Titanium coating



Wear: 0µm

### Conventional



Wear: 4µm

### Technical Data

Accuracy: Refer to the list of specifications.  
Dial reading: Refer to the list of specifications.

# ABSOLUTE Coolant Proof Carbon Fiber Caliper

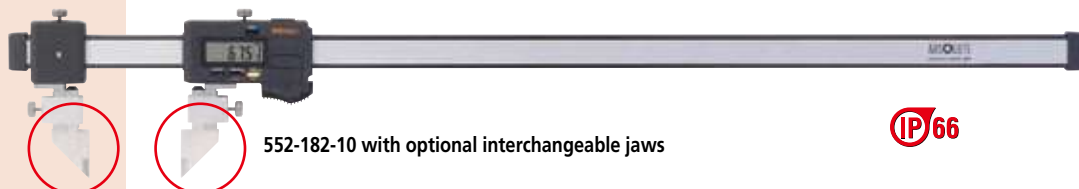
## SERIES 552 — with Interchangeable Jaws



(Refer to page VIII for details.)

### FEATURES

- The range of applications can be expanded by using interchangeable jaws (optional).
- Quick and easy exchanging of jaws due to the unique clamping mechanism. (A pair of clamping wheels is a standard accessory.)
- Provided with preset function for setting a desired starting point, which allows direct readout of offset measurements.
- SPC data output.



552-182-10 with optional interchangeable jaws

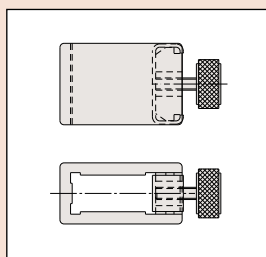
### SPECIFICATIONS

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

Inch/Metric		
Range	Order No.	Accuracy
0 - 18"	<b>552-191-10</b>	±.002"
0 - 24"	<b>552-192-10</b>	±.002"
0 - 40"	<b>552-193-10</b>	±.002"
0 - 60"	<b>552-194-10</b>	±.004"
0 - 80"	<b>552-195-10</b>	±.005"

### Technical Data

Accuracy: Refer to the list of specifications. (excluding quantizing error)  
 Resolution: 0.01mm or .0005"/0.01mm  
 Display: LCD  
 Scale type: ABSOLUTE electromagnetic 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  
 Standard accessory: Jaw clamps (2 pcs.), **05GZA033**

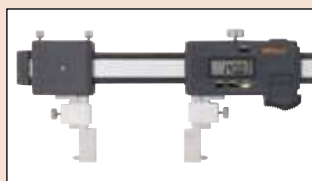


### Functions

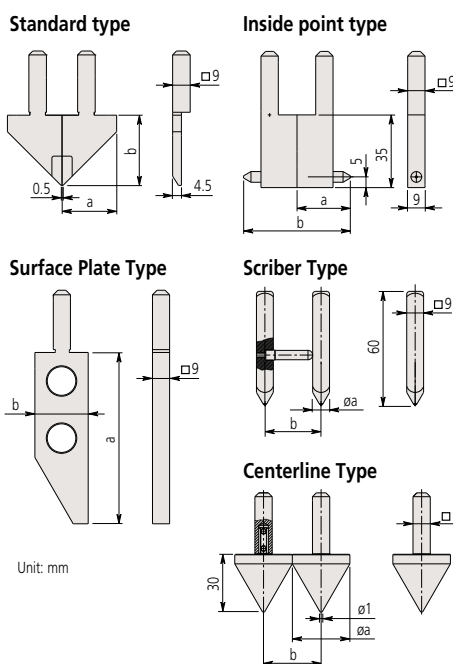
Origin-set, Zero-setting, Presetting, Offsetting, Data hold, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)  
 Alarm: Low voltage, Counting value composition error

### Optional Accessories

- 05CZA624**: SPC cable with data switch (1m)
- 05CZA625**: SPC cable with data switch (2m)
- 02AZD790A**: SPC cable for U-WAVE w/ data switch (160mm)



### Interchangeable Jaws (Optional)



#### Standard Type

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

#### Inside Point Type

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

#### Scriber Type

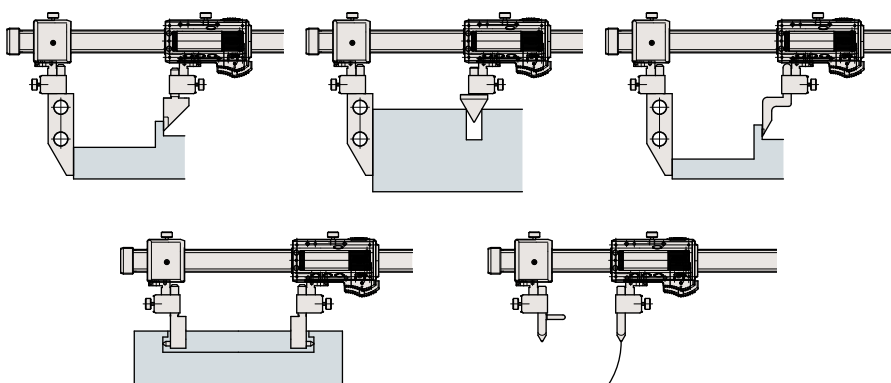
Order No.	Components	a	b
<b>07CZA055</b>	Right ( <b>07CZA042</b> ), Left ( <b>07CZA043</b> )	8mm	30mm
<b>07CZA061</b>	Right ( <b>07CZA042</b> ), Left ( <b>07CZA049</b> )	0.31"	1.2"

#### Surface Plate Type

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

#### Centerline Type

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



# ABSOLUTE Coolant Proof Carbon Fiber Caliper

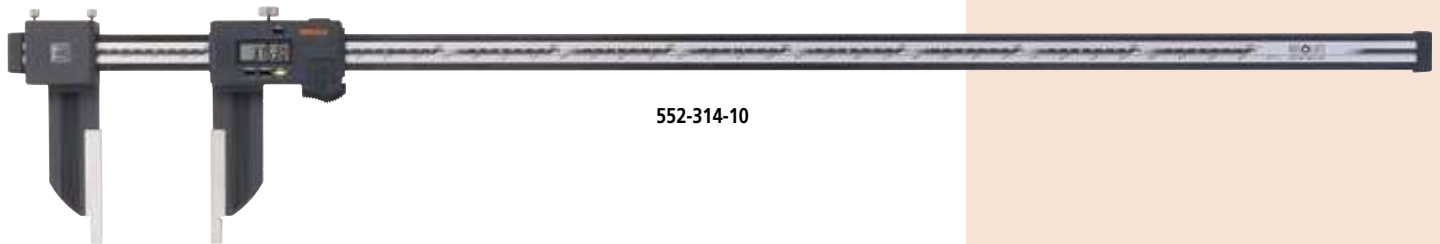
## SERIES 552

### FEATURES

- Lightweight Digimatic Calipers that 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 inside measurements from the LCD. (Offset value can be set easily by using the Offset key.)
- Preset function for setting a desired starting point.
- SPC data output.
- Special model available with ceramic jaws suitable for measuring magnetic products.



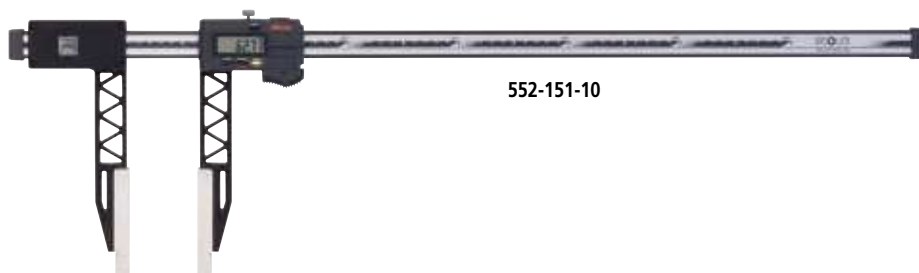
(Refer to page VIII for details.)



552-314-10



552-155-10



552-151-10

### SPECIFICATIONS

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

\*( ): Minimum dimension in inside measurement

Inch/Metric		
Range*	Order No. (standard / long jaws / ceramic jaws)	Accuracy (standard / long jaws / ceramic jaws)
0 (.5") - 18"	552-312-10 / 552-160-10 / 552-165-10	±.002" / ±.0025" / ±.002"
0 (.5") - 24"	552-313-10 / 552-161-10 / 552-166-10	±.002" / ±.0025" / ±.002"
0 (1") - 40"	552-314-10 / 552-162-10	±.002" / ±.003"
0 (1") - 60"	552-315-10 / 552-163-10	±.004" / ±.0045"
0 (1") - 80"	552-316-10 / 552-164-10	±.005" / ±.0055"

\*( ): Minimum dimension in inside measurement

### Technical Data

Accuracy: Refer to the list of specifications. (excluding quantizing error)  
 Resolution: 0.01mm or .0005"/0.01mm  
 Display: LCD  
 Scale type: ABSOLUTE electromagnetic 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

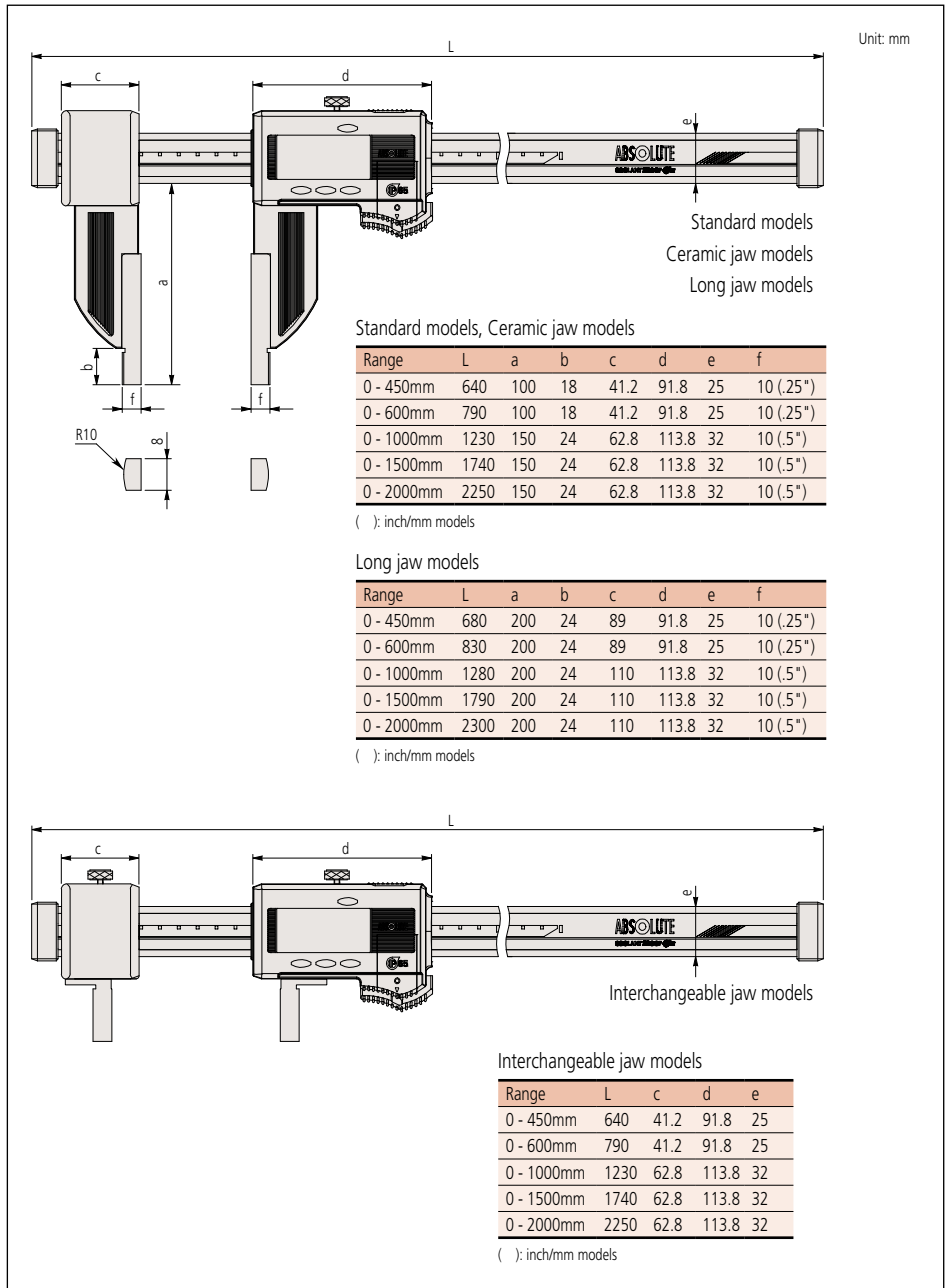
### Functions

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

### Optional Accessories

**05CZA624**: SPC cable with data switch (1m)  
**05CZA625**: SPC cable with data switch (2m)  
**02AZD790A**: SPC cable for U-WAVE w/ data switch (160mm)

## DIMENSION

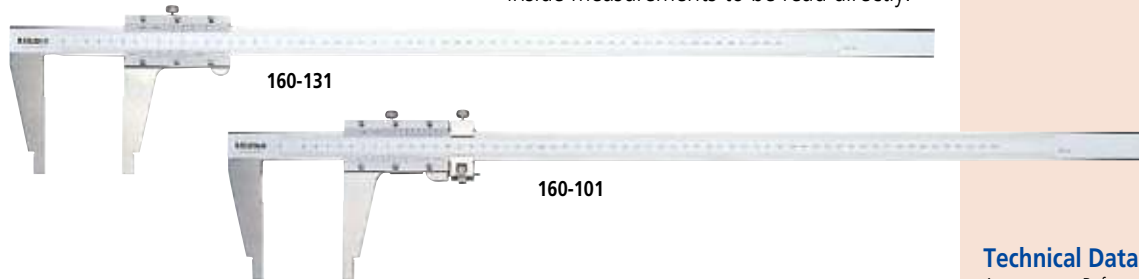


# Vernier Caliper

## SERIES 160 — with Nib Style Jaws and Fine Adjustment

### FEATURES

- The jaws have round measuring faces for accurate inside diameter (ID) measurement.
- With fine adjustment (excepting **160-130/131/132/133/134**).
- The single main scale models feature an additional (offset) vernier scale to enable inside measurements to be read directly.



### SPECIFICATIONS

**Metric** with inside measurement vernier scale

Range*	Order No.	Accuracy	Graduations	Remarks
0 (20) - 450mm	<b>160-130</b>	±0.10mm	0.05mm	without fine adjustment
0 (20) - 600mm	<b>160-131</b>	±0.10mm	0.05mm	without fine adjustment
0 (20) - 1000mm	<b>160-132</b>	±0.15mm	0.05mm	without fine adjustment
0 (20) - 1500mm	<b>160-133</b>	±0.22mm	0.05mm	without fine adjustment
0 (20) - 2000mm	<b>160-134</b>	±0.28mm	0.05mm	without fine adjustment

\*( ): Minimum dimension in ID measurement

**Metric** with inside measurement vernier scale

Range*	Order No.	Accuracy	Graduations	Remarks
0 (10) - 300mm	<b>160-127</b>	±0.04mm	0.02mm	—
0 (20) - 450mm	<b>160-128</b>	±0.05mm	0.02mm	—
0 (20) - 600mm	<b>160-101</b>	±0.05mm	0.02mm	—
0 (20) - 1000mm	<b>160-104</b>	±0.07mm	0.02mm	—
0 (20) - 1500mm	<b>160-110</b>	±0.1mm	0.02mm	—
0 (20) - 2000mm	<b>160-113</b>	±0.12mm	0.02mm	—

\*( ): Minimum dimension in ID measurement

**Metric/Inch** with metric/inch double scale

Range*	Order No.	Accuracy	Graduations	Remarks
0 (10) - 300mm	<b>160-150</b>	±0.04mm	0.02mm/.001"	+10mm/.394" to reading in inside measurement
0 (20) - 450mm	<b>160-151</b>	±0.05mm	0.02mm/.001"	+20mm/.787" to reading in inside measurement
0 (20) - 600mm	<b>160-153</b>	±0.05mm	0.02mm/.001"	+20mm/.787" to reading in inside measurement
0 (20) - 1000mm	<b>160-155</b>	±0.07mm	0.02mm/.001"	+20mm/.787" to reading in inside measurement
0 (20) - 1500mm	<b>160-157</b>	±0.1mm	0.02mm/.001"	+20mm/.787" to reading in inside measurement
0 (20) - 2000mm	<b>160-159</b>	±0.12mm	0.02mm/.001"	+20mm/.787" to reading in inside measurement

\*( ): Minimum dimension in ID measurement

**Inch** with inside measurement vernier scale

Range*	Order No.	Accuracy	Graduations	Remarks
0 (.3") - 12"	<b>160-124</b>	±.0015"	.001"	—
0 (.5") - 18"	<b>160-116</b>	±.002"	.001"	—
0 (.5") - 24"	<b>160-102</b>	±.002"	.001"	—
0 (1") - 40"	<b>160-105</b>	±.003"	.001"	—
0 (1") - 60"	<b>160-111</b>	±.004"	.001"	—
0 (1") - 80"	<b>160-114</b>	±.005"	.001"	—

\*( ): Minimum dimension in ID measurement

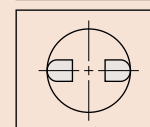
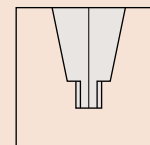
**Inch/Metric** with inch/metric double scale

Range*	Order No.	Accuracy	Graduations	Remarks
0 (.3") - 12"	<b>160-125</b>	±.0015"	.001"/0.02mm	+3"/7.62mm to reading in inside measurement
0 (.5") - 18"	<b>160-119</b>	±.002"	.001"/0.02mm	+5"/12.7mm to reading in inside measurement
0 (.5") - 24"	<b>160-103</b>	±.002"	.001"/0.02mm	+5"/12.7mm to reading in inside measurement
0 (1") - 40"	<b>160-106</b>	±.003"	.001"/0.02mm	+1"/25.4mm to reading in inside measurement
0 (1") - 60"	<b>160-112</b>	±.004"	.001"/0.02mm	+1"/25.4mm to reading in inside measurement
0 (1") - 80"	<b>160-115</b>	±.005"	.001"/0.02mm	+1"/25.4mm to reading in inside measurement

\*( ): Minimum dimension in ID measurement

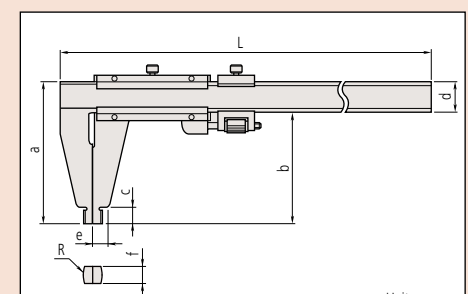
### Technical Data

Accuracy: Refer to the list of specifications.  
Graduation: Refer to the list of specifications.



Round-faced jaws for accurate ID measurement

### DIMENSIONS



Unit: mm

Range	L	a	b	c	d	e	f	R
0 - 300mm	445	95	25	12	20	10	3.8	R5
0 - 450mm	630	125	100	18	25	14.8	6	R10
0 - 600mm	780	125	100	18	25	14.8	6	R10
0 - 1000mm	1240	172	140	24	32	17	10	R10
0 - 1500mm	1800	212	180	30	32	19	10	R10
0 - 2000mm	2300	220	180	30	40	23	12	R10



# Long Jaw Vernier Caliper

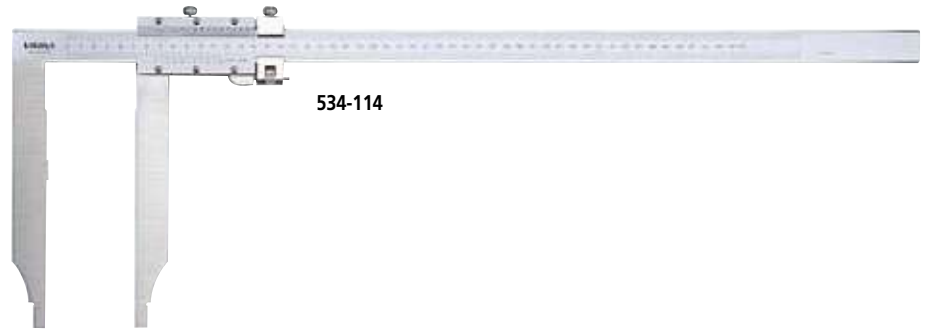
## SERIES 534

### FEATURES

- Long jaws for measuring hard-to-reach workpiece features.



534-110



534-114

### SPECIFICATIONS

**Metric** with inside measurement vernier scale

Range*	Order No.	Accuracy	Graduation	Remarks
0 (10) - 300mm	<b>534-109</b>	±0.07mm	0.05mm	without fine adjustment
0 (20) - 500mm	<b>534-110</b>	±0.13mm	0.05mm	without fine adjustment

\*( ): Minimum dimension in inside measurement

**Metric** with inside measurement vernier scale

Range*	Order No.	Accuracy	Graduation	Remarks
0 (10) - 300mm	<b>534-113</b>	±0.04mm	0.02mm	—
0 (20) - 500mm	<b>534-114</b>	±0.06mm	0.02mm	—
0 (20) - 750mm	<b>534-115</b>	±0.08mm	0.02mm	—
0 (20) - 1000mm	<b>534-116</b>	±0.10mm	0.02mm	—

\*( ): Minimum dimension in inside measurement

**Metric/Inch** with metric/inch double scale

Range*	Order No.	Accuracy	Graduation	Remarks
0 (10) - 300mm	<b>534-101</b>	±0.07mm	0.05mm/ 1/128"	+10mm/.394" to reading in inside measurement
0 (10) - 300mm	<b>534-105</b>	±0.04mm	0.02mm/.001"	+10mm/.394" to reading in inside measurement
0 (20) - 500mm	<b>534-102</b>	±0.13mm	0.05mm/ 1/128"	+20mm/.787" to reading in inside measurement
0 (20) - 500mm	<b>534-106</b>	±0.06mm	0.02mm/.001"	+20mm/.787" to reading in inside measurement
0 (20) - 700mm	<b>534-103</b>	±0.16mm	0.05mm/ 1/128"	+20mm/.787" to reading in inside measurement
0 (20) - 700mm	<b>534-107</b>	±0.08mm	0.02mm/.001"	+20mm/.787" to reading in inside measurement
0 (20) - 1000mm	<b>534-104</b>	±0.20mm	0.05mm/ 1/128"	+20mm/.787" to reading in inside measurement
0 (20) - 1000mm	<b>534-108</b>	±0.10mm	0.02mm/.001"	+20mm/.787" to reading in inside measurement

\*( ): Minimum dimension in inside measurement

**Inch** with inside measurement vernier scale

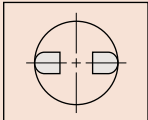
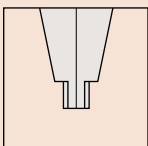
Range*	Order No.	Accuracy	Graduation	Remarks
0 (.3") - 12"	<b>534-117</b>	±.002"	.001"	—
0 (.8") - 20"	<b>534-118</b>	±.003"	.001"	—
0 (.8") - 30"	<b>534-119</b>	±.004"	.001"	—
0 (.8") - 40"	<b>534-120</b>	±.004"	.001"	—

\*( ): Minimum dimension in inside measurement

### Technical Data

Accuracy: Refer to the list of specifications.

Graduation: Refer to the list of specifications.



Round-faced jaws for accurate ID measurement

### DIMENSIONS

