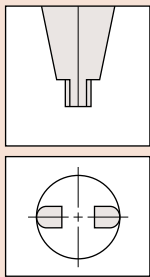


ABSOLUTE™

IP67



www.mitoyo.com
ID 0000045042



Radiused jaws for accurate ID measurement

Technical Data

- Accuracy: Refer to the list of specifications. (excluding quantizing error for Digimatic models)
- 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)

Optional Accessories

For details, refer to page A-27.

- **959143**: Data hold unit
- Connecting cables for **IT/DP/MUX**
 - **05CZA624**: SPC cable with data button (1 m)*
 - **05CZA625**: SPC cable with data button (2 m)*
 - **959149**: SPC cable with data button (1 m)
 - **959150**: SPC cable with data button (2 m)
- USB Input Tool Direct
 - **06AFM380A**: SPC cable for **USB-ITN-A** (2 m)*
 - **06AFM380C**: SPC cable for **USB-ITN-C** (2 m)
- Connecting cables for **U-WAVE-T**
 - **02AZD790A**: SPC cable with data button (160 mm)
 - **02AZE140A**: SPC cable for foot switch

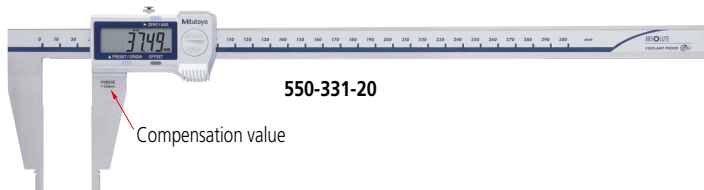
Wireless Data Output U-WAVE™

- **U-WAVE-TC**: **264-620** (IP67 type)
264-621 (Buzzer type)
- **U-WAVE-TCB Transmitter (Mitutoyo Bluetooth® U-WAVE)**
264-624 (IP type)
264-625 (Buzzer type)
Refer to page A-15 for details.
- Connecting unit for **U-WAVE-TC/TCB**
02AZF310 (IP67 type)
Note: IP67 model is water/dust-proofed suitable for the factory floor.
Buzzer type is not water/dust-proofed.
Refer to pages A-16 and A-18 for details.
* For IP67 models (up to 300 mm)

ABSOLUTE Digimatic Caliper SERIES 550 — with Nib Style Jaws

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

- Offers a resolution of 0.01 mm with corresponding accuracy.
- Incorporates an Absolute measurement system. No need to reset the origin after switching on. (Refer to page D-4 and D-6 for details on the Absolute function.)
- **Order No. 550-301-20, 550-331-20, 550-311-20 and 550-341-20**: IP67 (Rustproofing shall be applied after use if caliper was in contact with coolant.)
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. (Refer to page A-3.)
- ID measurement value: displayed value + (a compensation value displayed on the main unit). OFFSET switch allows to input a compensation value so that the measurement value can be read directly (**Order No. 550-301-20, 550-331-20, 550-311-20 and 550-341-20**). Preset function allows to set a desired starting point (**550-331-20 and 550-341-20**).



SPECIFICATIONS

Metric			
Order No.	Range (mm)*	Accuracy (mm)	Remarks
550-301-20	0 - 200 (10.1 - 210)	±0.03	IP67, with offset
550-331-20	0 - 300 (10.1 - 310)	±0.04	IP67, with offset/preset function for easy inside measurement
550-203-10	0 - 450 (20.1 - 470)	±0.05	—
550-205-10	0 - 600 (20.1 - 620)	±0.05	—
550-207-10	0 - 1000 (20.1 - 1020)	±0.07	—

* (): Inside measurement

Note: Series 550 is not equipped with a depth bar.

Inch / Metric			
Order No.	Range (in)*	Accuracy (in)	Remarks
550-311-20	0 - 8 (0.404 - 8.4)	±0.0015	IP67, with offset
550-341-20	0 - 12 (0.404 - 12.4)	±0.002	IP67, with offset/preset function for easy inside measurement
550-223-10	0 - 18 (0.504 - 18.5)		—
550-225-10	0 - 24 (0.504 - 24.5)		—
550-227-10	0 - 40 (1.004 - 41)	±0.003	—

* (): Inside measurement

Note: Series 550 is not equipped with a depth bar.

DIMENSIONS

Range (mm)	D	G	S	W	H	t	R
0 - 200 (0 - 8 in)*	60	5 (5.08)*	8	76	16	3	5 (5.08)*
0 - 300 (0 - 12 in)*	75		12	95	20	3.8	
0 - 450 (0 - 18 in)*	100	10 (6.35)*	18	125	25	6	10 (6.35)*
0 - 600 (0 - 24 in)*			24	172	32	8	10 (12.7)*
0 - 1000 (0 - 40 in)*	140	10 (12.7)*	24	172	32	8	10 (12.7)*

* Inch model

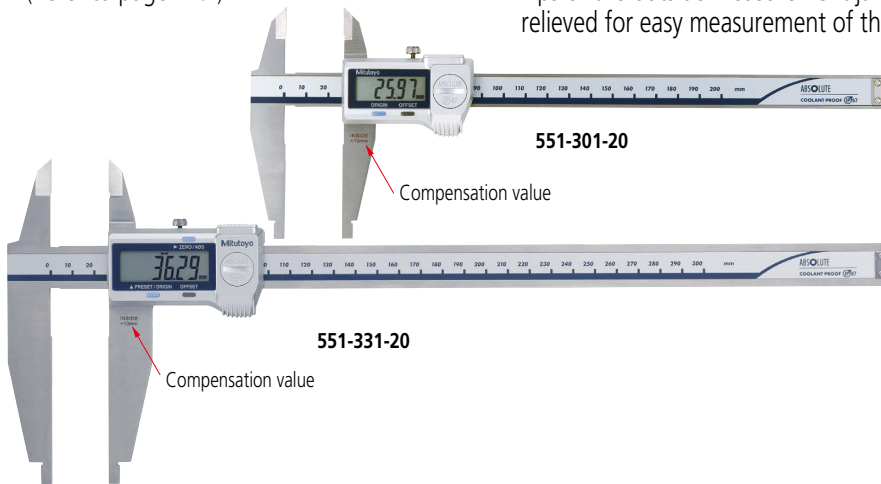
Calipers

An industry standard measuring tool

ABSOLUTE Digimatic Caliper SERIES 551 - with Nib Style and Standard Jaws

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

- Offers a resolution of 0.01 mm with corresponding accuracy.
- Incorporates an Absolute measurement system. No need to reset the origin after switching on. (Refer to page D-4 and D-6 for details on the Absolute function.)
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. (Refer to page A-3.)
- ID measurement value: displayed value + (a compensation value displayed on the main unit). OFFSET switch allows to input a compensation value so that the measurement value can be read directly (**Order No. 551-301-20, 551-331-20, 551-311-20 and 551-341-20**). Preset function allows to set a desired starting point (**Order No. 551-331-20 and 551-341-20**).
- Tips of the outside measurement jaw are relieved for easy measurement of thin parts.



MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

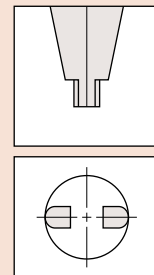
Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

ABSOLUTE[™]

IP67



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Radiused jaws for accurate ID measurement

SPECIFICATIONS

Metric			
Order No.	Range (mm)*	Accuracy (mm)	Remarks
551-301-20	0 - 200 (10.1 - 210)	±0.03	IP67, with offset
551-331-20	0 - 300 (10.1 - 310)	±0.04	IP67, with offset/preset function for easy inside measurement
551-204-10	0 - 500 (20.1 - 520)	±0.06	—
551-206-10	0 - 750 (20.1 - 770)	±0.06	
551-207-10	0 - 1000 (20.1 - 1020)	±0.07	

* () : inside measurement

Note: **Series 551** is not equipped with a depth bar.

Inch / Metric			
Order No.	Range (in)*	Accuracy (in)	Remarks
551-311-20	0 - 8 (0.404 - 8.4)	±0.0015	IP67, with offset
551-341-20	0 - 12 (0.404 - 12.4)	±0.002	IP67, with offset/preset function for easy inside measurement
551-224-10	0 - 20 (0.504 - 20.5)	±0.0025	—
551-226-10	0 - 30 (0.504 - 30.5)	±0.0025	
551-227-10	0 - 40 (1.004 - 41)	±0.003	

* () : inside measurement

Note: **Series 551** is not equipped with a depth bar.

DIMENSIONS

Range (mm)	B	C	D	G	S	H	t	R
0 - 200 (0 - 8 in)*	30	23.6	60	5 (5.08)*	8	16	3	5 (5.08)*
0 - 300 (0 - 12 in)*	40	32.2	90		10	20	3.8	
0 - 500 (0 - 20 in)*	56	44.9	150	10 (6.35)*	18	25	6	10 (6.35)*
0 - 750 (0 - 30 in)*				10 (12.7)*	20	32	8	10 (12.7)*
0 - 1000 (0 - 40 in)*	56	43.8						

* Inch model

Technical Data

- Accuracy: Refer to the list of specifications. (excluding quantizing error for Digimatic models)
 - 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)
 - Dust/Water protection level: IP67* (models up to 300 mm)
- * Rustproofing shall be applied after use if caliper was in contact with coolant.

Optional Accessories

For details, refer to page A-27.

- **959143**: Data hold unit
- Connecting cables for **IT / DP / MUX**
 - **05CZA624**: SPC cable with data button (1 m)*
 - **05CZA625**: SPC cable with data button (2 m)*
 - **959149**: SPC cable with data button (1 m)
 - **959150**: SPC cable with data button (2 m)
- USB Input Tool Direct
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 - **06AFM380C**: SPC cable for **USB-ITN-C** (2 m)
- Connecting cables for **U-WAVE-T**
 - **02AZD790A**: SPC cable with data button (160 mm)
 - **02AZE140A**: SPC cable for foot switch

Wireless Data Output **U-WAVE[™]**

- **U-WAVE-TC: 264-620** (IP67 type)
264-621 (Buzzer type)
- **U-WAVE-TCB Transmitter (Mitutoyo Bluetooth[®] U-WAVE)**
264-624 (IP type)
264-625 (Buzzer type)
Refer to page A-15 for details.
- Connecting unit for **U-WAVE-TC / TCB**
02AZF310 (IP67 type)
Note: IP67 model is water/dust-proofed suitable for the factory floor.
Buzzer type is not water/dust-proofed.
Refer to pages A-16 and A-18 for details.
* For IP67 models (up to 300 mm)