ABSOLUTE™ (Refer to page X for details.)
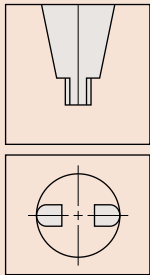
IP67 (Refer to page X for details.)

TÜVRheinland CERTIFIED (Refer to page X for details.)
www.tuv.com
ID 0000045042

ABSOLUTE Digimatic Caliper
550 Series — with Nib Style Jaws

- 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-8 for a description of Absolute measurement.)
- Order No. 550-301-20, 550-331-10, 550-311-20 and 550-341-10: 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 550-341-10). Preset function allows to set a desired starting point (Order No. 550-331-10 and 550-341-10).

550-301-20

Compensation value

Radiused jaws for accurate ID measurement

Technical Data

Accuracy: Refer to the list of specifications. (excluding quantizing error for digital 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)
Battery life: Approx. 5 years under normal use (1 year: 300 mm models)
(3.5 years: over 300 mm models)
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 D-39.
959143: Data hold unit
Connecting cables for IT/DP/MUX
05CZA624: SPC cable with data button (1 m)*
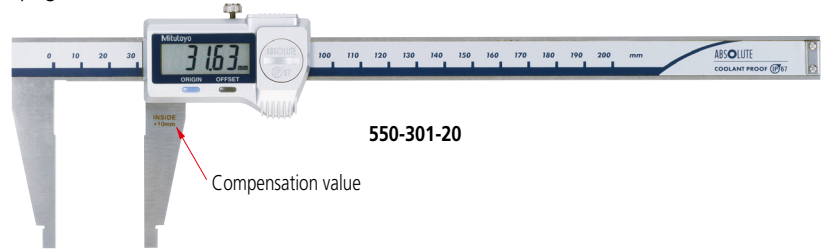**05CZA625**: SPC cable with data button (2 m)*

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)
Wireless data output **U·WAVEfit**
U-WAVE-TC: **264-620** (IP67 type)
264-621 (Buzzer type)
Connecting unit for U-WAVE-TC:
02AZF310 (IP67 type)
02AZF300 (Buzzer type)
Refer to page A-15 for details
* For IP67 models (up to 300 mm)

SPECIFICATIONS

Metric

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

* ( ): Inside measurement
Note: Series 550 is not equipped with a depth bar.

Inch/Metric

Order No.	Range*	Accuracy	Remarks
550-311-20	0 - 8 in (0.404 in - 8.4 in)	±0.0015 in	IP67
550-341-10	0 - 12 in (0.404 in - 12.4 in)		IP67, with offset/preset function for easy inside measurement
550-223-10	0 - 18 in (0.504 in - 18.5 in)	±0.002 in	—
550-225-10	0 - 24 in (0.504 in - 24.5 in)		—
550-227-10	0 - 40 in (0.504 in - 40.2 in)	±0.003 in	—

* ( ): Inside measurement
Note: Series 550 is not equipped with a depth bar.

DIMENSIONS

Unit: mm

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

D

Mitutoyo