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-25 for details).

ABSOLUTE™

IP67

Dust- and Water-Protected

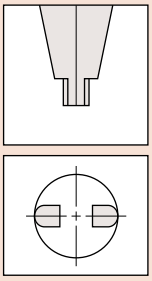
TÜVRheinland CERTIFIED

www.tuv.com ID 0000045042

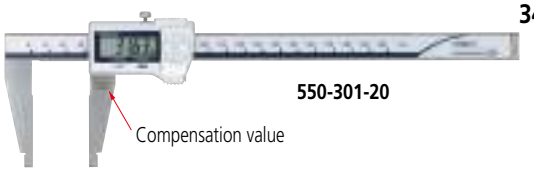
ABSOLUTE Digimatic Caliper SERIES 550 — with Nib Style Jaws

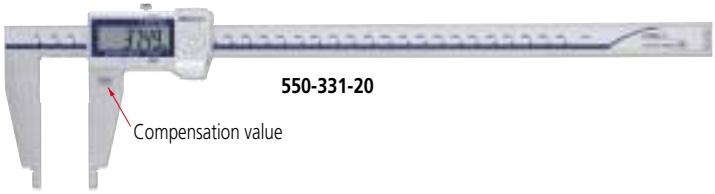
MeasurLink® ENABLED
Data Management Software by Mitutoyo

- 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**).



Radiused jaws for accurate ID measurement





Technical Data

- 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-21.

- **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 fit

- **U-WAVE-TC**: **264-620** (IP67 type)
  264-621 (Buzzer type)
- **U-WAVE-TCB Transmitter**
  (**Mitutoyo *Bluetooth*® U-WAVE**)
  264-624 (IP67 type)
  264-625 (Buzzer type)
  Refer to page A-10 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-10 and A-12 for details.
  * For IP67 models (up to 300 mm)

SPECIFICATIONS

Metric

Order No.	Range (mm)*1	Maximum permissible error (mm)*2		Remarks
		E_{MPE}	S_{MPE}	
550-301-20	0 - 200 (10.1 - 210)	±0.03	±0.03	IP67, with offset
550-331-20	0 - 300 (10.1 - 310)	±0.04	±0.04	IP67, with offset/preset function for easy inside measurement
550-203-10	0 - 450 (20.1 - 470)	±0.05	±0.05	—
550-205-10	0 - 600 (20.1 - 620)	±0.05	±0.05	—
550-207-10	0 - 1000 (20.1 - 1020)	±0.07	±0.07	—

*1 ( ): Inside measurement
*2 Partial Surface Contact Error, E_{MPE} and Shift Error, S_{MPE} are terms (notations) used in ISO 13385-1:2019.
Note: **Series 550** is not equipped with a depth bar.

Inch / Metric

Order No.	Range (in)*1	Maximum permissible error (in)*2		Remarks
		E_{MPE}	S_{MPE}	
550-311-20	0 - 8 (0.404 - 8.4)	±0.0015	±0.0015	IP67, with offset
550-341-20	0 - 12 (0.404 - 12.4)	±0.002	±0.002	IP67, with offset/preset function for easy inside measurement
550-223-10	0 - 18 (0.504 - 18.5)	±0.002	±0.002	—
550-225-10	0 - 24 (0.504 - 24.5)	±0.002	±0.002	—
550-227-10	0 - 40 (1.004 - 41)	±0.003	±0.003	—

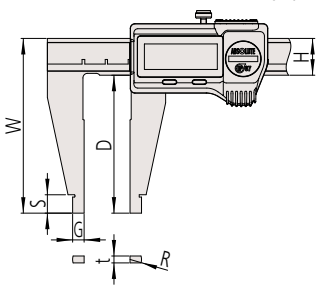
*1 ( ): Inside measurement
*2 Partial Surface Contact Error, E_{MPE} and Shift Error, S_{MPE} are terms (notations) used in ISO 13385-1:2019.
Note: **Series 550** is not equipped with a depth bar.

DIMENSIONS

Unit: mm

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)*							
0 - 1000 (0 - 40 in)*	140	10 (12.7)*	24	172	32	8	10 (12.7)*

* Inch model



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