BOMBAY TOOLS SUPPLYING AGENCY

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™

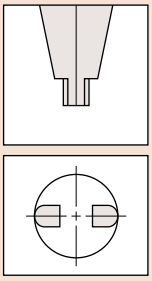
IP67

TÜVRheinland CERTIFIED
www.tuv.com
ID 0000045042

ABSOLUTE Digimatic Caliper SERIES 550 — with Nib Style Jaws

MeasurLink® ENABLED
Data Management Software by Mitutoyo

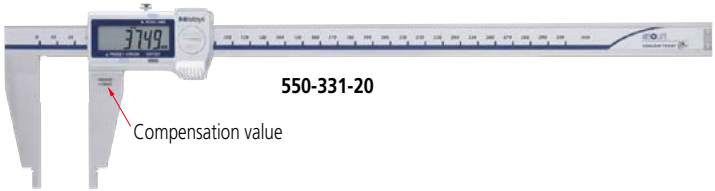
- Offers a resolution of 0.01 mm with corresponding accuracy.
- Incorporates an Absolute measurement system. No need to reset the origin after switching on. (Refer to page D-4 and D-6 for details on the Absolute function.)
- **Order No. 550-301-20, 550-331-20, 550-311-20** and **550-341-20**: IP67 (Rustproofing 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

550-301-20

Compensation value



550-331-20

Compensation value

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 fit

- **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)

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	—

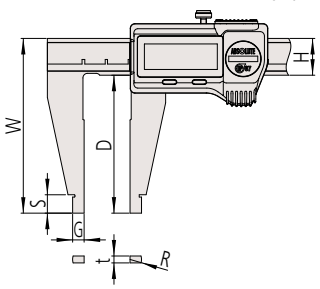
* ( ): Inside measurement
Note: Series 550 is not equipped with a depth bar.

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

* Inch model

Unit: mm



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Mitutoyo reserves the right to change any or all aspects of any product specification, including prices, designs and service content, without notice.

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