

Calipers

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

U-WAVE^{fit}

ABSOLUTE[™]

Applicable models: series 573

IP67



Measurement example



Optional Accessories (for series 573)

Code No.	Type	Description
264-020	—	USB Input Tool Series USB Keyboard Signal Conversion Type IT-020U
05CZA624	A	Connection cable for IT/DP/MUX (1 m)
05CZA625	A	Connection cable for IT/DP/MUX (2 m)
06AFM380A	A	USB Input Tool Direct (2 m)
02AZD730G	IP67	U-WAVE-T
02AZD880G	Buzzer	U-WAVE-T
02AZE200	—	U-WAVE-T mounting bracket
02AZD790A	A	Connection cable for U-WAVE-T (160 mm)
02AZE140A	A	Connection cable for U-WAVE-T For foot switch
264-620	IP67	U-WAVE-TC
264-621	Buzzer	U-WAVE-TC
264-624	IP67	U-WAVE-TCB
264-625	Buzzer	U-WAVE-TCB
02AZF310	IP67	Connecting unit for U-WAVE-TC/TCB

Point Caliper SERIES 573, 536 — ABSOLUTE Digimatic and Vernier Types

- Narrow-tip jaws fit into very small grooves and tracks, making many previously difficult outside measurements far easier to obtain.



SPECIFICATIONS

Metric		Digimatic model		
Code No.	Range (mm)	Resolution (mm)	Maximum permissible error (mm)* ²	
573-621-20	0 - 150	0.01	ENPE	SMPE
573-625-20	0 - 150		±0.02	±0.04
573-622-20* ¹	0 - 150			
573-626-20* ¹	0 - 150			

Inch / Metric		Digimatic model		
Code No.	Range	Resolution	Maximum permissible error* ²	
573-721-20	0 - 6 in/0 - 150 mm	0.0005 in/0.01 mm	ENPE	SMPE
573-725-20			±0.001 in/±0.02 mm	±0.002 in/±0.04 mm

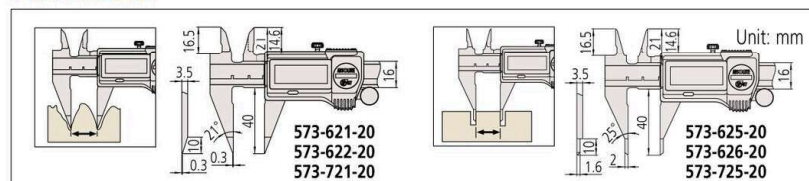
- Dust/Water protection level: IP67 (IEC 60529)*³
- Power source: SR44 battery (1 pc.), 938882 included as standard (for operational checks)
- Battery life: Approx. 5 years under normal use
- Position detection method: ABSOLUTE electromagnetic induction linear encoder
- Response speed: Unlimited
- With depth bar

*¹ Without thumb roller

*² The Partial Surface Contact Error (ENPE) and Shift Error (SMPE) are terms defined by ISO 13385-1:2019.

*³ Rustproofing shall be applied after use if caliper was in contact with coolant.

DIMENSIONS



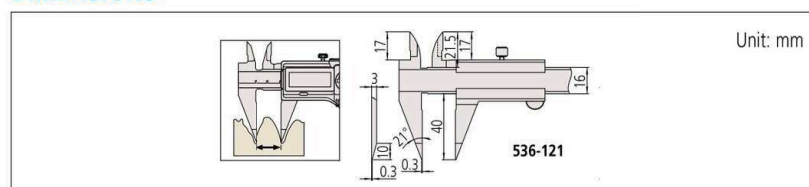
SPECIFICATIONS

Metric		Analog model		
Code No.	Range (mm)	Graduation (mm)	Maximum permissible error (mm)*	
536-121	0 - 150	0.05	ENPE	SMPE
			±0.05	±0.07

- With depth bar

* The Partial Surface Contact Error (ENPE) and Shift Error (SMPE) are terms defined by ISO 13385-1:2019.

DIMENSIONS



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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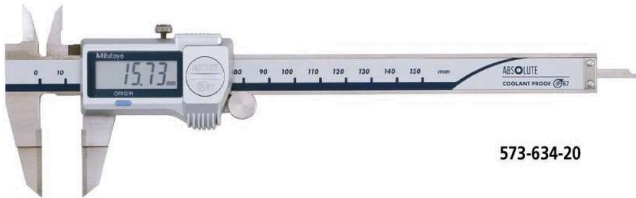
Mitutoyo

Calipers

Blade Type Caliper
SERIES 573 — ABSOLUTE Digimatic Type

04
Calipers

- The thin blade-type jaws fit into very small grooves and make previously difficult outside measurements far easier to obtain.
- The outside measuring faces are carbide tipped.



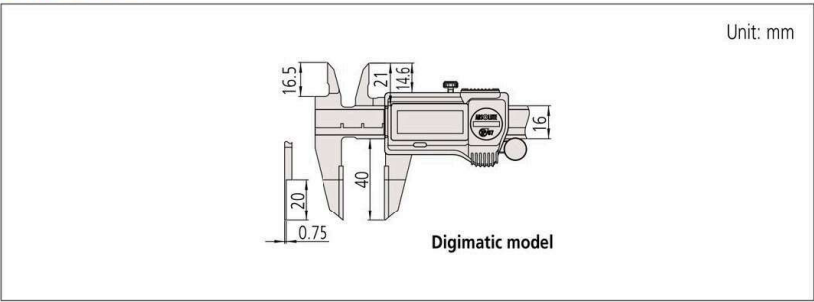
573-634-20

SPECIFICATIONS

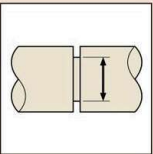
Metric	Digimatic model			
Code No.	Range (mm)	Resolution (mm)	Maximum permissible error (mm)*2	
			EMPE	SMPE
573-634-20	0 - 150	0.01	±0.02	±0.04
573-635-20*1	0 - 150			
Inch / Metric	Digimatic model			
Code No.	Range	Resolution	Maximum permissible error*2	
			EMPE	SMPE
573-734-20	0 - 6 in/0 - 150 mm	0.0005 in/0.01 mm	±0.001 in/±0.02 mm	±0.002 in/±0.04 mm

- Dust/Water protection level: IP67 (IEC 60529)*3
- Power source: SR44 battery (1 pc.); **938882** included as standard (for operational checks)
- Battery life: Approx. 5 years under normal use
- Position detection method: ABSOLUTE electromagnetic induction linear encoder
- Response speed: Unlimited
- *1 Without thumb roller
- *2 The Partial Surface Contact Error (EMPE) and Shift Error (SMPE) are terms defined by ISO 13385-1:2019.
- *3 Rustproofing shall be applied after use if caliper was in contact with coolant.

DIMENSIONS



Measurement example



Optional Accessories (for series 573)

Code No.	Type	Description
264-020	—	USB Inout Tool Series USB Keyboard Signal Conversion Type IT-020U
05CZA624	A	Connection cable for IT/DP/MUX (1 m)
05CZA625	A	Connection cable for IT/DP/MUX (2 m)
06AFM380A	A	USB Input Tool Direct (2 m)
02AZD730G	IP67	U-WAVE-T
02AZD880G	Buzzer	U-WAVE-T
02AZE200	—	U-WAVE-T mounting bracket
02AZD790A	A	Connection cable for U-WAVE-T (160 mm)
02AZE140A	A	Connection cable for U-WAVE-T For foot switch
264-620	IP67	U-WAVE-TC
264-621	Buzzer	U-WAVE-TC
264-624	IP67	U-WAVE-TCB
264-625	Buzzer	U-WAVE-TCB
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Calipers

ABSOLUTE Inside Caliper
SERIES 573 — Knife-edge/Inside Groove/Point Jaw Type

- Specially designed for inside measurements. Select the right model for your workpiece shape.

Knife-edge type



573-642-20

Inside groove type



573-645-20

Point jaw type



573-646-20

SPECIFICATIONS

Metric		Digimatic model			
Code No.	Range (mm)	Resolution (mm)	Maximum permissible error (mm)*3		Remarks
573-642-20	10 - 200	0.01		±0.05	Knife-edge type, Measurable min.
573-643-20*1	10 - 200				Knife-edge type, Measurable min.
573-645-20*2	10.1 - 160				Inside groove type, Measurable min.
573-647-20*1	10.1 - 160			±0.03	Inside groove type, Measurable min.
573-646-20*2	20.1 - 170				Point jaw type, Measurable min.
573-648-20*1	20.1 - 170				Point jaw type, Measurable min.

Inch / Metric		Digimatic model			
Code No.	Range	Resolution	Maximum permissible error*3		Remarks
573-742-20	0.4 - 8 in/ 10 - 200 mm	0.0005 in/ 0.01 mm		±0.002 in/ ±0.05 mm	Knife-edge type, Measurable min.
573-745-20*2	0.404 - 6.4 in/ 10.26 - 160.16 mm			±0.0015 in/ ±0.03 mm	Inside groove type, Measurable min.
573-746-20*2	0.804 - 6.8 in/ 20.42 - 170.32 mm				Point jaw type, Measurable min.

- Dust/Water protection level: IP67 (IEC 60529)*4
- Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
- Battery life: Approx. 5 years under normal use
- Position detection method: ABSOLUTE electromagnetic induction linear encoder
- Response speed: Unlimited
- *1 Without thumb roller
- *2 Includes the offsetting function, which indicates the actual measurement value.
- *3 The Partial Surface Contact Error (EMPE) and Shift Error (SMPE) are terms defined by ISO 13385-1:2019.
- *4 Rustproofing shall be applied after use if caliper was in contact with coolant.



Measurement example



Optional Accessories

Code No.	Type	Description
264-020	—	USB Input Tool Series USB Keyboard Signal Conversion Type IT-020U
05CZA624	A	Connection cable for IT/DP/MUX (1 m)
05CZA625	A	Connection cable for IT/DP/MUX (2 m)
06AFM380A	A	USB Input Tool Direct (2 m)
02AZD730G	IP67	U-WAVE-T
02AZD880G	Buzzer	U-WAVE-T
02AZE200	—	U-WAVE-T mounting bracket
02AZD790A	A	Connection cable for U-WAVE-T (160 mm)
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264-625	Buzzer	U-WAVE-TCB
02AZF310	IP67	Connecting unit for U-WAVE-TC/TCB

Note: **U-WAVE-TC/TCB** cannot be used with Knife-edge Type (573-642-20, 573-643-20 and 573-742-20).