ABSOLUTE Inside Caliper SERIES 573, 536 — Knife-edge/Inside **Groove/Point Jaw Type**

MeasurLink* ENABLED

Data Management Software by Mitutoyo

• Dedicated caliper for inside measurement.

- Digimatic models are IP67 Absolute type. Slider action is smooth, firm and comfortable.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. (Refer to page A-3.)
- Digimatic models 573-645-20 and 573-646-**20** need the compensation value (engraved on the fixed jaw) added to the displayed value for correct measurement. However, the featured Offset function enables this to be done easily just by pressing the OFFSET button after the jaws are brought together and the ORIGIN button is pressed.

Knife-edge type 573-642-20 **ABSOLUTE** 536-142 Inside groove type ABSOLUTE 573-645-20 ABSOLUTE™ Compensation value 536-145 Point jaw type 573-646-20 ABSOLUTE* Compensation value

SPECIFICATIONS

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Metric Digimatic model								
Order No.	Range (mm)	Accuracy (mm)	Remarks					
573-642-20	10 - 200	±0.05	Knife-edge type, Measurable min.					
573-643-20*1	10 - 200	±0.05	Knife-edge type, Measurable min.					
573-645-20* ²	10.1 - 160	±0.05	Inside groove type, Measurable min.					
573-647-20*1	10.1 - 160	±0.05	Inside groove type, Measurable min.					
573-646-20* ²	20.1 - 170	±0.05	Point jaw type, Measurable min.					
573-648-20*1	20.1 - 170	±0.05	Point law type. Measurable min.					

536-146

*1 Without thumb roller

*2 Includes the offsetting function, which indicates the actual measurement value.

Metr	ic	, Analog model		
Orde	er No.	Range (mm)	Accuracy (mm)	Remarks
536	-142	10 - 200	±0.12	Knife-edge type, Measurable min.
536	-145	10.1 - 150	±0.05	Inside groove type, Measurable min.
536	-146	20.1 - 150	±0.05	Point jaw type, Measurable min.
536	-147	30.1 - 300	±0.08	Point jaw type, Measurable min.
536	-148	70.1 - 450	±0.10	Point jaw type, Measurable min.
536	-149	70.1 - 600	±0.12	Point jaw type, Measurable min.

MeasurLink ENABLED

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).









Technical Data

Refer to the list of specifications. (excluding quantizing error for Digimatic models) 0.01 mm or 0.00005 in/0.01 mm Accuracy

• Resolution*1:

• Graduation*2: 0.05 mm Display*1: LCD

• Scale type*1: ABSOLUTE electromagnetic induction Absolute electromagnetic induction linear encoder

 Max. response speed*1: Unlimited
 Battery: SR44 (1 pc), 938882, for initial operational checks (standard accessory)

 Battery life*1: Approx. 5 years under normal use
 Dust/Water protection level*1: IP67 (IEC 60529)*3

*1 Digimatic models
*2 Analog models

*2 Analog models

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

Optional Accessories for Digimatic Models

For details, refer to page A-27.

Connecting cables for IT/DP/MUX

O5CZA624: SPC cable with data button (1 m)

O5CZA625: SPC cable with data button (2 m)

USB Input Tool Direct

O6AFM380A: SPC cable for USB-ITN-A (2 m)

Connecting cables for U-WAVE-T

O2AZD790A: SPC cable with data button (160 mm)

O2AZE140A: SPC cable for foot switch

Wireless Data Output U-WAVE THE

• 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.

Note: Cannot be used with 573-642-20, 573-643-20

and 573-742-20

Inch/Metric Digimatic model						
Order No.	Range (in)	Accuracy (in)	Remarks			
573-742-20	0.4 - 8	±0.002	Knife-edge type, Measurable min.			
573-745-20*	0.404 - 6.4	±0.002	Inside groove type, Measurable min.			
E72 7/6 20*	0 004 6 0	.0.002	Point jaw type Meacurable min			

* Includes the offsetting function, which indicates the actual measurement value

DIMENSIONS



