

Calipers

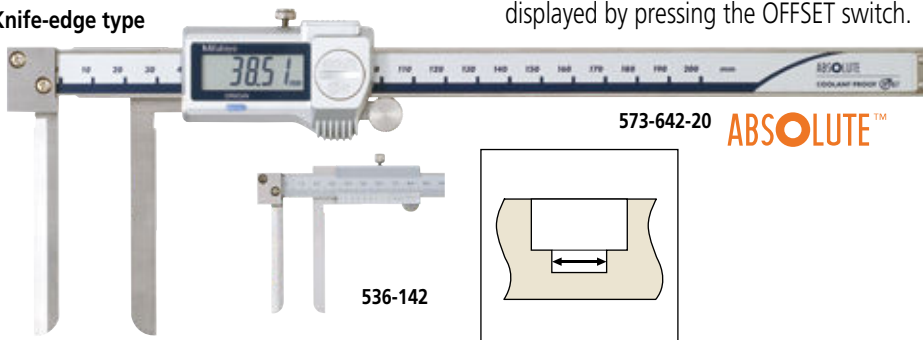
An industry standard measuring tool

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

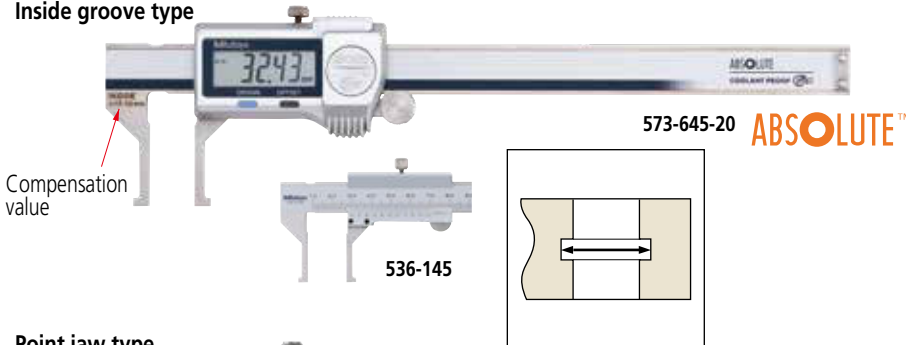
MeasurLink ENABLED
Data Management Software by Mitutoyo

- Specially designed for inside measurements in hard-to-reach places.
- Digimatic models are IP67 Absolute type. No need to reset the origin after switching on. (Refer to page D-8 for a description of Absolute measurement.)
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.
- It is necessary for measurement values of **573-645-20** and **573-646-20** to add the correction value to the displayed value. However, the featured offset function enables direct reading of the correction value displayed by pressing the OFFSET switch.

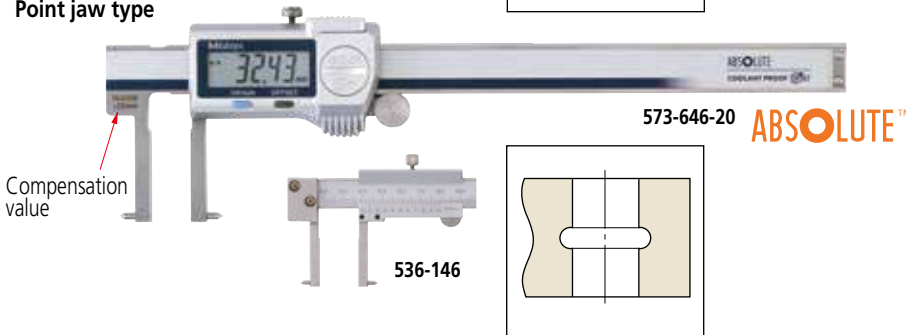
Knife-edge type



Inside groove type



Point jaw type



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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

- Accuracy: Refer to the list of specifications. (excluding quantizing error for Digimatic models)
- Resolution*1: 0.01 mm or 0.00005 in/0.01 mm
- Graduation*2: 0.05 mm
- Display*1: LCD
- Scale type*1: 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
- *3 Rustproofing shall be applied after use if caliper was in contact with coolant.

Optional Accessories for Digimatic Models

- For details, refer to page D-38.
- Connecting cables for **IT/DP/MUX**
 - **05CZA624**: SPC cable with data button (1 m)
 - **05CZA625**: SPC cable with data button (2 m)
 - USB Input Tool Direct
 - **06AFM380A**: SPC cable for **USB-ITN-A** (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™

- **U-WAVE-TC: 264-620** (IP67 type)
 - **264-621** (Buzzer type)
 - Connecting unit for **U-WAVE-TC: 02AZF310** (IP67 type)
- Note: IP67 model is water/dust-proofed suitable for the factory floor.
Buzzer type is not water/dust-proofed.
Refer to page A-15 for details.
Note: cannot be used with **573-642-20**, **573-643-20** and **573-742-20**

SPECIFICATIONS

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 jaw type, Measurable min.

*1 Without thumb roller

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

Metric	Analog model		
Order No.	Range (mm)	Accuracy (mm)	Remarks
536-142	10.1 - 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.

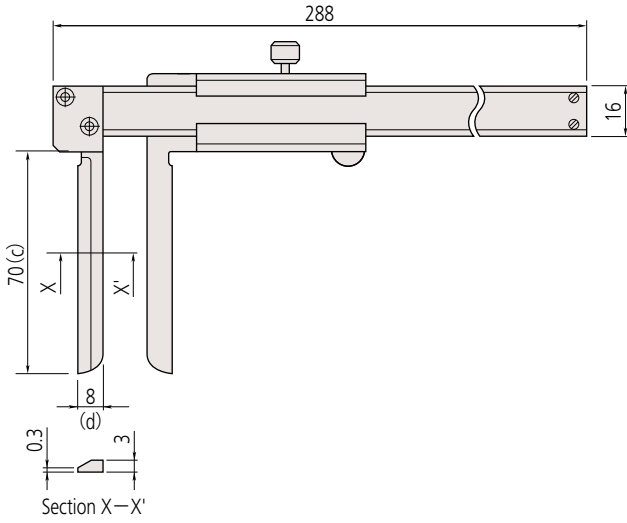
Inch / Metric	Digimatic model		
Order No.	Range (in)	Accuracy (in)	Remarks
573-742-20	0.4 - 8	±0.002	Knife-edge type, Measurable min.
573-745-20 *2	0.404 - 6.4	±0.002	Inside groove type, Measurable min.
573-746-20 *2	0.804 - 6.8	±0.002	Point jaw type, Measurable min.

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

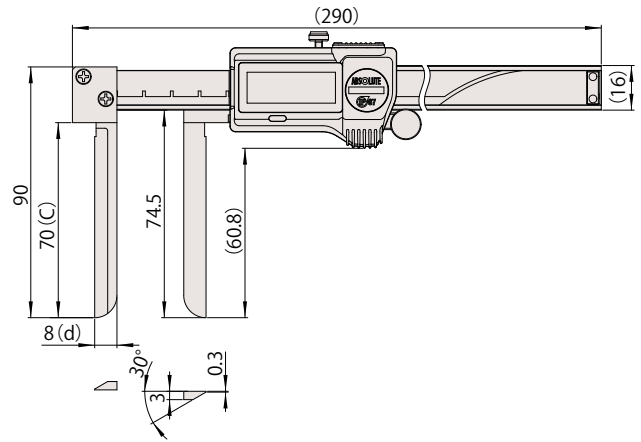
DIMENSIONS

Unit: mm

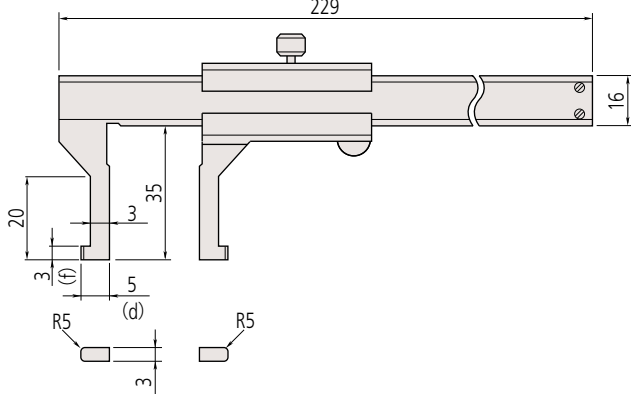
Knife-edge type: 536-142



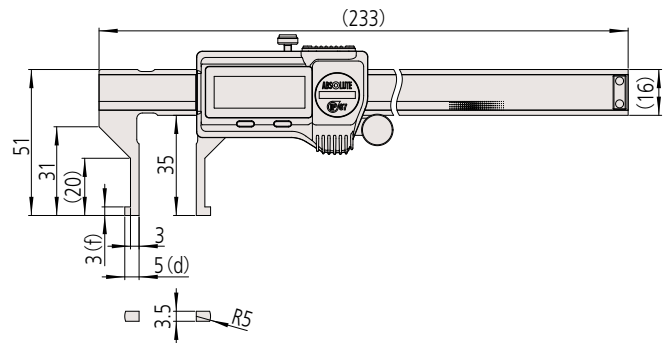
Knife-edge type: 573-642-20, 573-643-20, 573-742-20



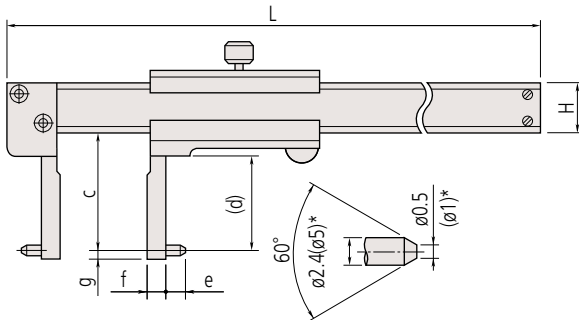
Inside groove type: 536-145



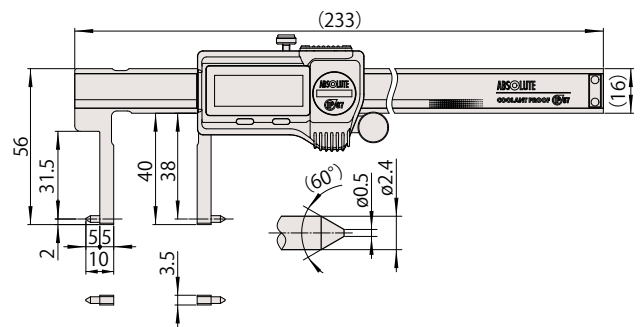
Inside groove type: 573-645-20, 573-647-20, 573-745-20



Point jaw type: 536-146, 147, 148, 149



Point jaw type: 573-646-20, 573-648-20, 573-746-20



*Applies to 536-148 or 149

Range (mm)	c	d	e	f	g	H	L
150	38	31	5	5	2	16	229
300	98	89	5	10	2	20	403
450	145	136	10	25	5	25	610
600	145	136	10	25	5	25	750