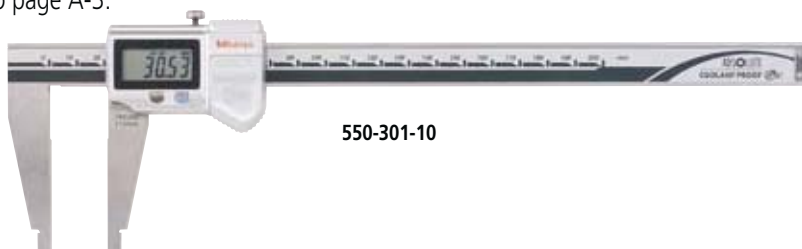


Calipers

A standard measuring tool of industry

ABSOLUTE Digimatic Caliper 550 Series — with Nib Style Jaws

- Offers a resolution of 0.01mm with corresponding accuracy.
- Incorporates an Absolute measurement system. No need to reset the origin after switching on. (Refer to page D-8 for a description of Absolute measurement.)
- Code No. 550-301-10, 550-331-10, 550-311-10 and 550-341-10: IP67
- 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 + (the minimum inside measurement value mentioned below). OFFSET switch allows to input a compensation value so that the measurement value can be read directly (Code No. 550-301-10, 550-331-10, 550-311-10 and 550-341-10). Preset function allows to set a desired starting point (Code No. 550-331-10 and 550-341-10).



550-301-10

SPECIFICATIONS

Metric

Order No.	Range*	Accuracy	Remarks
550-301-10	0 - 200mm (10 - 210mm)	±0.03mm	IP67
550-331-10	0 - 300mm (10 - 310mm)	±0.04mm	IP67, with offset/preset function for easy inside measurement
550-203-10	0 - 450mm (20 - 470mm)	±0.05mm	—
550-205-10	0 - 600mm (20 - 620mm)	±0.05mm	—
550-207-10	0 - 1000mm (20 - 1020mm)	±0.07mm	—

* (): Inside measurement

Note: Series 550 is not equipped with a depth bar.

Inch/Metric

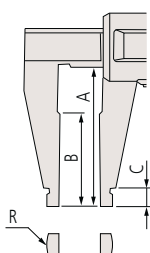
Order No.	Range*	Accuracy	Remarks
550-311-10	0 - 8" (.4" - 8.4")	±.0015"	IP67
550-341-10	0 - 12" (.4" - 12.4")	±.002"	IP67, with offset/preset function for easy inside measurement
550-223-10	0 - 18" (.5" - 18.5")		—
550-225-10	0 - 24" (.5" - 24.5")		—
550-227-10	0 - 40" (1" - 41")	±.003"	—

* (): Inside measurement

Note: Series 550 is not equipped with a depth bar.

DIMENSIONS

Range	A	B	C	R
0 - 200mm	60	40.5	8	5
0 - 300mm	75	50.5	12	
0 - 450mm	100	65	18	10
0 - 600mm				
0 - 1000mm	140	95	24	



Unit: mm

ABSOLUTE

(Refer to page VIII for details.)

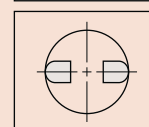
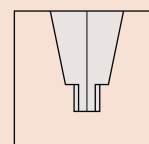
IP67

(Refer to page VIII for details.)



• Dust- and watertight
IP67

(Refer to page IX for details.)



Radiused jaws for accurate ID measurement

Technical Data

Accuracy: Refer to the list of specifications.

(excluding quantizing error for digital models)

Resolution: 0.01mm or .0005"/0.01mm

Display: LCD

Scale type: ABSOLUTE electromagnetic induction linear encoder

Max. response speed: Unlimited

Battery: SR44 (1 pc.), **938882**

Battery life: Approx. 3 years under normal use

(1 year: 300mm models)

(3.5 years: over 300mm models)

Dust/Water protection level: IP67* (models up to 300mm)

*This model is not waterproof type.

Therefore, rustproofing shall be applied after use.

Optional accessories

For details, refer to page A-15.

959143: Data hold unit

Connecting cables for IT/DP/MUX

05CZA624: SPC cable with data button (1m)*

05CZA625: SPC cable with data button (2m)*



959149: SPC cable with data button (1m)

959150: SPC cable with data button (2m)

USB Input Tool Direct

06ADV380A: SPC cable for USB-ITN-A (2m)*

06ADV380C: SPC cable for USB-ITN-C (2m)

Connecting cables for U-WAVE-T

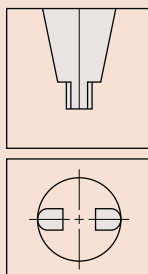
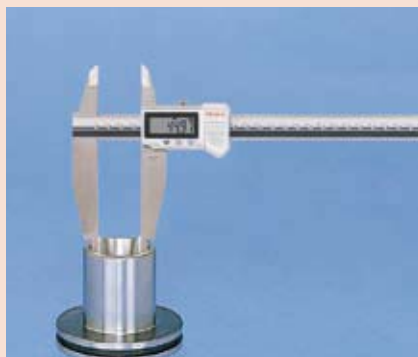
02AZD790A: SPC cable for U-WAVE with data button (160mm)*

02AZE140A: SPC cable for footswitch*

02AZD790C: SPC cable for U-WAVE with data button (160mm)

02AZE140C: SPC cable for footswitch

* For IP67 models (up to 300mm)


 Radiused jaws for accurate
 ID measurement

Technical Data

Accuracy: Refer to the list of specifications.
 (excluding quantizing error for digital models)

Resolution: 0.01mm or .0005"/0.01mm

Display: LCD

Scale type: ABSOLUTE electromagnetic induction linear
 encoder

Max. response speed: Unlimited

Battery: SR44 (1 pc.), **938882**

Battery life: Approx. 3 years under normal use
 (1 year: 300mm models)
 (3.5 years: over 300mm models)

Dust/Water protection level: IP67* (models up to 300mm)

*This model is not waterproof type.

Therefore, rustproofing shall be applied after use.

Optional accessories

For details, refer to page A-15.

959143: Data hold unit

Connecting cables for IT/DP/MUX

05CZA624: SPC cable with data button (1m)*

05CZA625: SPC cable with data button (2m)*



959149: SPC cable with data button (1m)

959150: SPC cable with data button (2m)

USB Input Tool Direct

06ADV380A: SPC cable for USB-ITN-A (2m)*

06ADV380C: SPC cable for USB-ITN-C (2m)

Connecting cables for U-WAVE-T

02AZD790A: SPC cable for U-WAVE with data button
 (160mm)*

02AZE140A: SPC cable for footswitch*

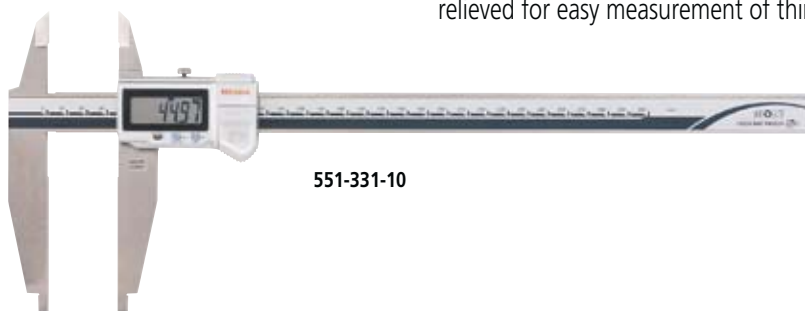
02AZD790C: SPC cable for U-WAVE with data button
 (160mm)

02AZE140C: SPC cable for footswitch

* For IP67 models (up to 300mm)

ABSOLUTE Digimatic Caliper 551 Series - with Nib Style and Standard Jaws

- Offers a resolution of 0.01mm with corresponding accuracy.
- Incorporates an Absolute measurement system. 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.
- ID measurement value: displayed value + (the minimum inside measurement value mentioned below). OFFSET switch allows to input a compensation value so that the measurement value can be read directly (Code No. 551-301-10, 551-331-10, 551-311-10 and 551-341-10). Preset function allows to set a desired starting point (Code No. 551-331-10 and 551-341-10).
- Tips of the outside measurement jaw are relieved for easy measurement of thin parts.



551-331-10

SPECIFICATIONS

Metric			
Order No.	Range*	Accuracy	Remarks
551-301-10	0 - 200mm (10 - 210mm)	±0.03mm	IP67
551-331-10	0 - 300mm (10 - 310mm)	±0.04mm	IP67, with offset/preset function for easy inside measurement
551-204-10	0 - 500mm (20 - 520mm)	±0.06mm	—
551-206-10	0 - 750mm (20 - 770mm)	±0.06mm	
551-207-10	0 - 1000mm (20 - 1020mm)	±0.07mm	

* () : inside measurement

Note: Series 551 is not equipped with a depth bar.

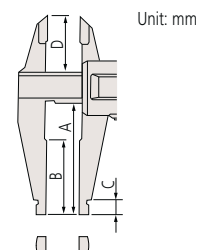
Inch/Metric			
Order No.	Range*	Accuracy	Remarks
551-311-10	0 - 8" (.4" - 8.4")	±.0015"	IP67
551-341-10	0 - 12" (.4" - 12.4")	±.002"	IP67, with offset/preset function for easy inside measurement
551-224-10	0 - 20" (.5" - 20.5")	±.0025"	—
551-226-10	0 - 30" (.5" - 30.5")	±.0025"	
551-227-10	0 - 40" (1" - 41")	±.003"	

* () : inside measurement

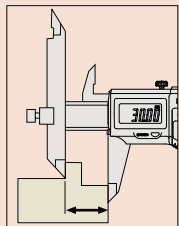
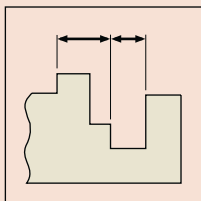
Note: Series 551 is not equipped with a depth bar.

DIMENSIONS

Range	A	B	C	D
0 - 200mm	60	43	8	30
0 - 300mm	90	68	10	40.1
0 - 500mm	150	115	15	56
0 - 750mm			20	
0 - 1000mm				



Unit: mm



Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)
Resolution*: 0.01mm or .0005"/0.01mm
Graduation**: 0.05mm
Display*: LCD
Scale type*: ABSOLUTE electromagnetic induction linear encoder
Max. response speed*: Unlimited
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 3 years under normal use
(1 year: 300mm model)
Dust/Water protection level*: IP67***
* Digital models ** Analog models
*** This model is not waterproof type.
Therefore, rustproofing shall be applied after use.

Optional accessories for Digital Model

For details, refer to page A-15.

959143: Data hold unit

Connecting cables for IT/DP/MUX

05CZA624: SPC cable with data button (1m)

05CZA625: SPC cable with data button (2m)

USB Input Tool Direct

06ADV380A: SPC cable for **USB-ITN-A** (2m)

Connecting cables for **U-WAVE-T**

02AZD790A: SPC cable for **U-WAVE** with data button
(160mm)

02AZE140A: SPC cable for footswitch

Offset Caliper SERIES 573, 536 — ABSOLUTE Digimatic and vernier type

- The beam-mounted jaw can be adjusted to facilitate measurement of stepped sections and hard-to-get-at workpiece features.
- Digital 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.)

- The slider operation of digital models is smooth and comfortable.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



SPECIFICATIONS

Metric	Digital model	
Order No.	Range	Accuracy
573-601	0 - 150mm	±0.02mm
573-611*	0 - 150mm	±0.02mm
573-602	0 - 200mm	±0.02mm
573-612*	0 - 200mm	±0.02mm
573-604	0 - 300mm	±0.03mm
573-614*	0 - 300mm	±0.03mm

* Without thumb roller

Metric	Analog model	
Order No.	Range	Accuracy
536-101	0 - 150mm	±0.05mm
536-102	0 - 200mm	±0.05mm
536-103	0 - 300mm	±0.08mm

Inch/Metric	Digital model	
Order No.	Range	Accuracy
573-701	0 - 6"	±.001"
573-702	0 - 8"	±.001"
573-704	0 - 12"	±.0015"

DIMENSIONS

		Unit: mm			
Model	Range	Analog model			
		A	B	C	D
Digital model	0 - 150mm/0 - 6"	95	10	40	30
	0 - 200mm/0 - 8"	95	10	50	38.5
	0 - 300mm/0 - 12"	135	15	64	51
Analog model	0 - 150mm	95	10	40	30
	0 - 200mm	95	10	50	38.5
	0 - 300mm	135	15	64	51

Calipers

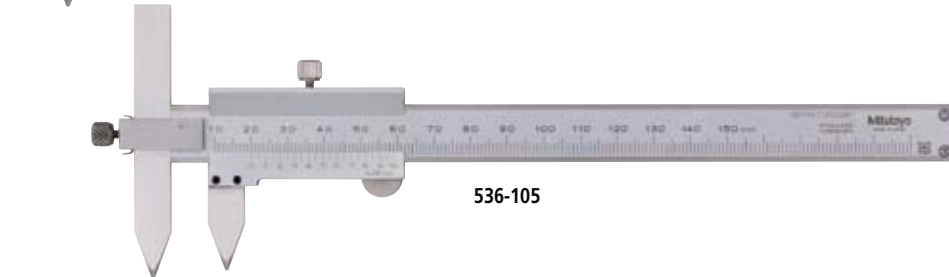
A standard measuring tool of industry

Offset Centerline Caliper SERIES 573, 536 — ABSOLUTE Digimatic and vernier type

- Specially designed for hole Center-to-Center measurements on the same, or offset, planes.
- Digital 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.)
- The slider operation of digital models is smooth and comfortable.
- Direct reading of pitch measurements is available due to the offset-value setting function.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



573-605



536-105

SPECIFICATIONS

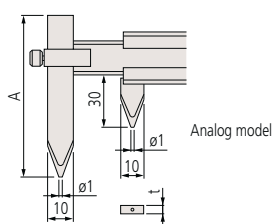
Metric Digital model		
Order No.	Range	Accuracy
573-605	10 - 160mm	±0.03mm
573-615*	10 - 160mm	±0.03mm
573-606	10 - 210mm	±0.03mm
573-616*	10 - 210mm	±0.03mm
573-608	10 - 310mm	±0.04mm
573-618*	10 - 310mm	±0.04mm

* Without thumb roller

Metric Analog model		
Order No.	Range	Accuracy
536-105	10 - 150mm	±0.05mm
536-106	10 - 200mm	±0.05mm
536-107	10 - 300mm	±0.08mm

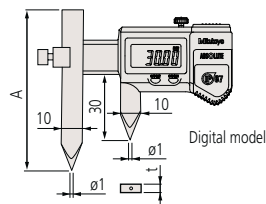
Inch/Metric Digital model		
Order No.	Range	Accuracy
573-705	.4 - 6.4"	±.0015"
573-706	.4 - 8.4"	±.0015"
573-708	.4 - 12.4"	±.0015"

DIMENSIONS



Analog model

Range	A	t
10 - 150mm	75	3
10 - 200mm	75	3
10 - 300mm	100	3.8



Digital model

Range	A	t
10 - 160mm/.4 - 6.4"	75	3.5
10 - 210mm/.4 - 8.4"	75	3.5
10 - 310mm/.4 - 12.4"	100	3.8

Unit: mm

ABSOLUTE

(Refer to page VIII for details.)

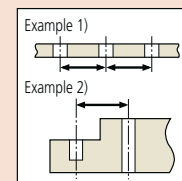
IP67

(Refer to page VIII for details.)



• Dust- and watertight
IP67

(Refer to page IX for details.)



Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)
Resolution*: 0.01mm or .0005"/0.01mm
Graduation**: 0.05mm
Display*: LCD
Scale type*: ABSOLUTE electromagnetic induction linear encoder
Max. response speed*: Unlimited
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 3 years under normal use
(1 year: 310mm model)
Dust/Water protection level*: IP67***
* Digital models ** Analog models
*** This model is not waterproof type.
Therefore, rustproofing shall be applied after use.

Optional accessories for Digital Models

For details, refer to page A-15.
959143: Data hold unit
Connecting cables for IT/DP/MUX
05CZA624: SPC cable with data button (1m)
05CZA625: SPC cable with data button (2m)
USB Input Tool Direct
06ADV380A: SPC cable for **USB-ITN-A** (2m)
Connecting cables for **U-WAVE-T**
02AZD790A: SPC cable for **U-WAVE** with data button
(160mm)
02AZE140A: SPC cable for footswitch



Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error)

Resolution: 0.01mm or .0005"/0.01mm

Display: LCD

Scale type: ABSOLUTE electrostatic capacity linear encoder

Max. response speed: Unlimited

Battery: SR44 (1 pc.), 938882

Battery life: Approx. 3.5 years under normal use

Optional accessories

For details, refer to page A-15.

959143: Data hold unit

Connecting cables for IT/DP/MUX

959149: SPC cable with data button (1m)

959150: SPC cable with data button (2m)

USB Input Tool Direct

06ADV380C: SPC cable for USB-ITN-C (2m)

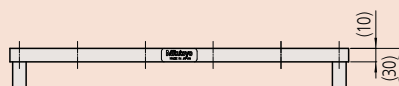
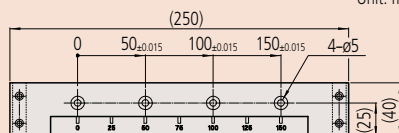
Connecting cables for U-WAVE-T

02AZD790C: SPC cable for U-WAVE with data button
(160mm)

02AZE140C: SPC cable for footswitch

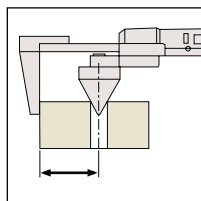
05FAJ735: Centerline caliper inspection gage

Unit: mm

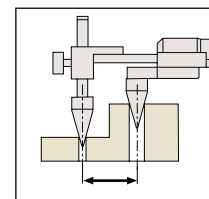
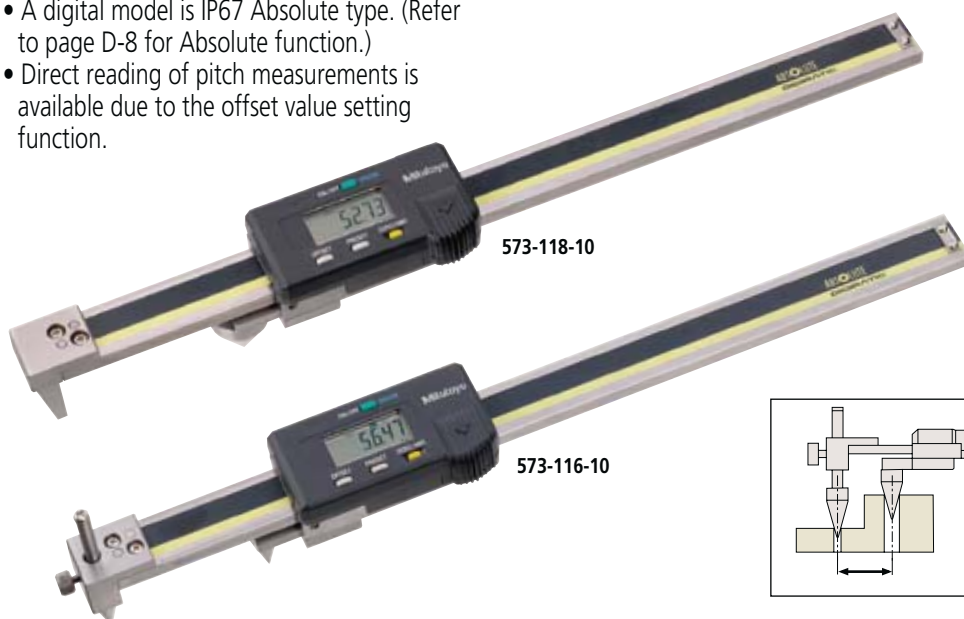


ABSOLUTE Back-Jaw Centerline Caliper SERIES 573 - Center-to-Center & Edge-to-Center Types

- Specially designed to measure hole Center-to-Center and Edge-to-Center distances.
- Provided with jaws on the back of the slider, measurements can be read easily from above.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.
- Dedicated calibration inspection tools are available.



- A digital model is IP67 Absolute type. (Refer to page D-8 for Absolute function.)
- Direct reading of pitch measurements is available due to the offset value setting function.

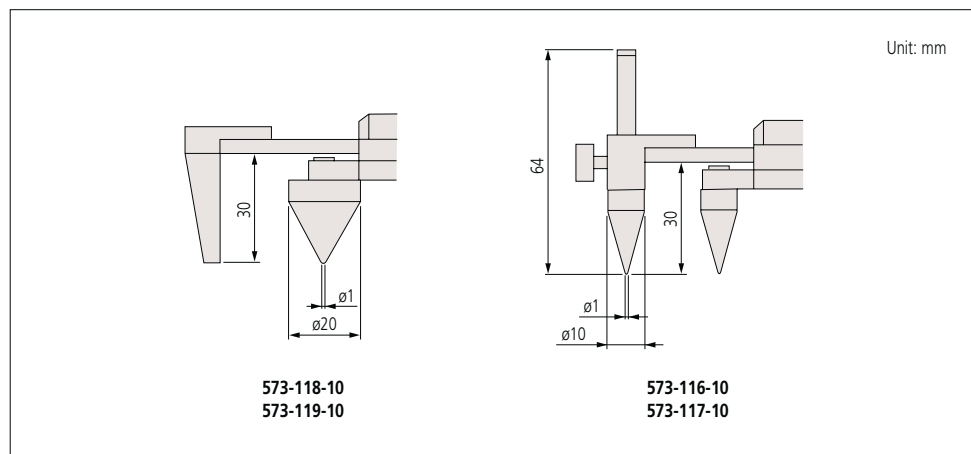


SPECIFICATIONS

Metric	Edge-to-center distance type	
Order No.	Range	Accuracy
573-118-10	10 - 200mm	±0.10mm
573-119-10	10 - 300mm	±0.15mm

Metric	Center-to-center distance type	
Order No.	Range	Accuracy
573-116-10	10 - 200mm	±0.10mm
573-117-10	10 - 300mm	±0.15mm

DIMENSIONS



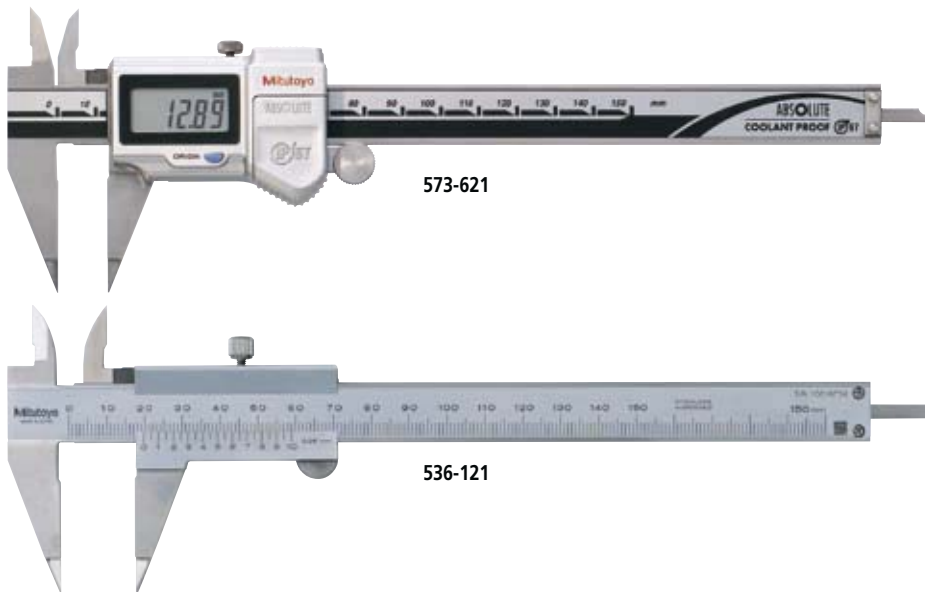
Calipers

A standard measuring tool of industry

Point Caliper

SERIES 573, 536 — ABSOLUTE Digimatic and vernier type

- Narrow-tip jaws fit into very small grooves and tracks, making many previously difficult outside measurements far easier to obtain.
- Allows step measurement.
- Digital 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.)
- The slider operation of digital models is smooth and comfortable.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



573-621

536-121

SPECIFICATIONS

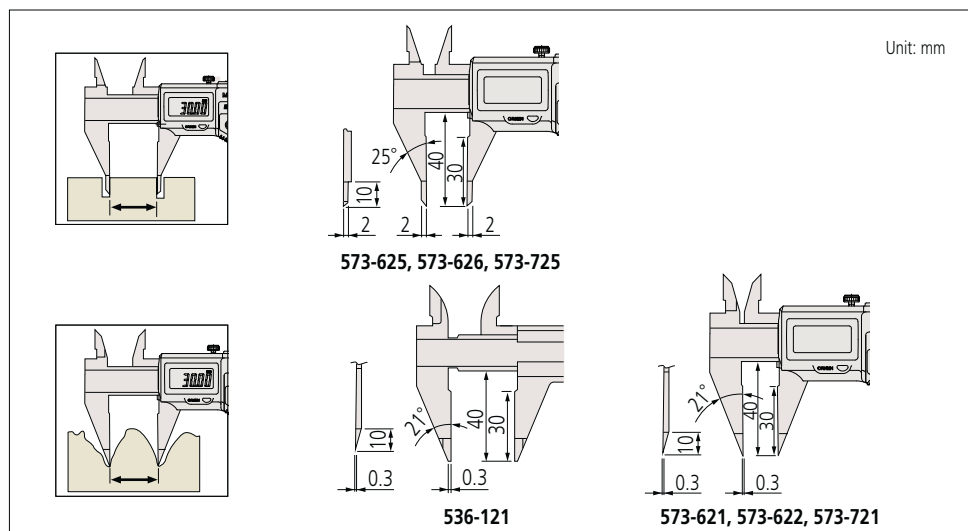
Metric	Digital model	
Order No.	Range	Accuracy
573-621	0 - 150mm	±0.02mm
573-625	0 - 150mm	±0.02mm
573-622*	0 - 150mm	±0.02mm
573-626*	0 - 150mm	±0.02mm

* without thumb roller

Metric		
Order No.	Range	Accuracy
536-121	0 - 150mm	±0.05mm

Inch/Metric	Digital model	
Order No.	Range	Accuracy
573-721	0 - 6"	±.001"
573-725	0 - 6"	±.001"

DIMENSIONS



ABSOLUTE

(Refer to page VIII for details.)

IP67

(Refer to page VIII for details.)



• Dust- and watertight
IP67

(Refer to page IX for details.)

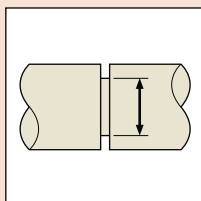


Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)
Resolution*: 0.01mm or .0005"/0.01mm
Graduation**: 0.05mm
Display*: LCD
Scale type*: ABSOLUTE electromagnetic induction linear encoder
Max. response speed*: Unlimited
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 3 years under normal use
Dust/Water protection level*: IP67***
* Digital models ** Analog models
*** This model is not waterproof type.
Therefore, rustproofing shall be applied after use.

Optional accessories for Digital Models

For details, refer to page A-15.
Connecting cables for IT/DP/MUX
05CZA624: SPC cable with data button (1m)
05CZA625: SPC cable with data button (2m)
USB Input Tool Direct
06ADV380A: SPC cable for **USB-ITN-A** (2m)
Connecting cables for **U-WAVE-T**
02AZD790A: SPC cable for **U-WAVE** with data button (160mm)
02AZE140A: SPC cable for footswitch



Technical Data

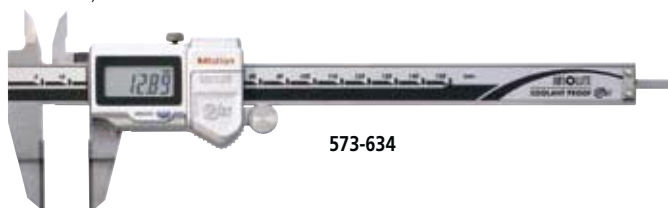
Accuracy: Refer to the list of specifications.
 (excluding quantizing error for digital models)
 Resolution*: 0.01mm or .0005"/0.01mm
 Graduation**: 0.05mm
 Display*: LCD
 Scale type*: ABSOLUTE electromagnetic induction linear encoder
 Max. response speed*: Unlimited
 Battery*: SR44 (1 pc.), **938882**
 Battery life*: Approx. 3 years under normal use
 Dust/Water protection level*: IP67***
 * Digital models ** Analog models
 *** This model is not waterproof type.
 Therefore, rustproofing shall be applied after use.

Optional accessories for Digital Models

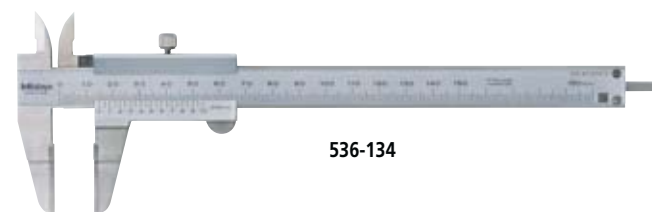
For details, refer to page A-15.
 Connecting cables for IT/DP/MUX
05CZA624: SPC cable with data button (1m)
05CZA625: SPC cable with data button (2m)
USB Input Tool Direct
06ADV380A: SPC cable for USB-ITN-A (2m)
 Connecting cables for U-WAVE-T
02AZD790A: SPC cable for U-WAVE with data button
 (160mm)
02AZE140A: SPC cable for footswitch

Blade Type Caliper SERIES 573, 536 — ABSOLUTE Digimatic and vernier type

- 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.
- Allows step measurement.
- Digital 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.)
- The slider operation of digital models is smooth and comfortable.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



573-634



536-134

SPECIFICATIONS

Metric	Digital model	
Order No.	Range	Accuracy
573-634	0 - 150mm	±0.02mm
573-635*	0 - 150mm	±0.02mm

* without thumb roller

Metric	Digital model	
Order No.	Range	Accuracy
536-134	0 - 150mm	±0.05mm
536-135	0 - 200mm	±0.05mm
536-136	0 - 300mm	±0.08mm

Inch/Metric	Digital model	
Order No.	Range	Accuracy
573-734	0 - 6"	±.001"

DIMENSIONS

Unit: mm

Anlog model

Digital model

Range	A	B	C	t
0 - 150mm	40	20	0.75	3
0 - 200mm	50	25	0.75	3
0 - 300mm	64	30	1	3.8

Calipers

A standard measuring tool of industry

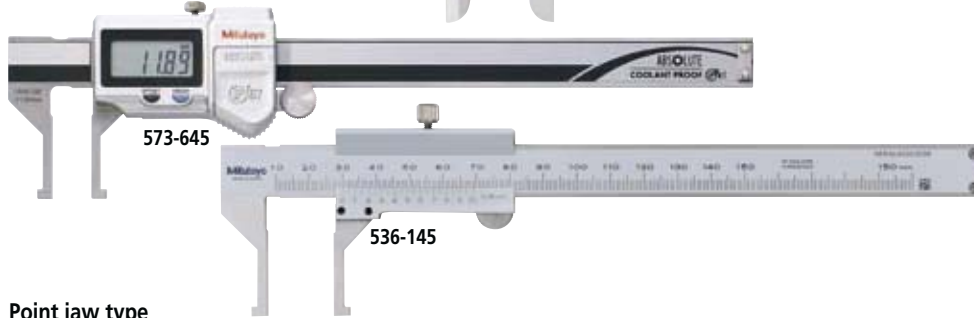
ABSOLUTE Inside Caliper SERIES 573, 536 — Knife-edge/Inside Groove/Point Jaw Type

- Specially designed for inside measurements in hard-to-reach places.
- Digital 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.)
- The slider operation of digital model is smooth and comfortable.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.

Knife-edge type



Inside groove type



Point jaw type



SPECIFICATIONS

Metric Digital model			
Order No.	Range	Accuracy	Remarks
573-642	10 - 200mm	±0.05mm	Knife-edge type, Measurable min. hole diameter: ø10mm
573-643*	10 - 200mm	±0.05mm	Knife-edge type, Measurable min. hole diameter: ø10mm
573-645**	10 - 160mm	±0.05mm	Inside groove type, Measurable min. hole diameter: ø10mm
573-647*	10 - 160mm	±0.05mm	Inside groove type, Measurable min. hole diameter: ø10mm
573-646**	20 - 170mm	±0.03mm	Point jaw type, Measurable min. hole diameter: ø20mm
573-648*	20 - 170mm	±0.03mm	Point jaw type, Measurable min. hole diameter: ø20mm

* without thumb roller

** Incorporated with the offsetting function, which indicates the actual measurement value.

Metric			
Order No.	Range	Accuracy	Remarks
536-142	10 - 200mm	±0.12mm	Knife-edge type, Measurable min. hole diameter: ø10mm
536-145	10 - 150mm	±0.05mm	Inside groove type, Measurable min. hole diameter: ø10mm
536-146	20 - 150mm	±0.05mm	Point jaw type, Measurable min. hole diameter: ø20mm
536-147	30 - 300mm	±0.08mm	Point jaw type, Measurable min. hole diameter: ø30mm
536-148	70 - 450mm	±0.10mm	Point jaw type, Measurable min. hole diameter: ø70mm
536-149	70 - 600mm	±0.12mm	Point jaw type, Measurable min. hole diameter: ø70mm

Mitutoyo

D-33

ABSOLUTE

(Refer to page VIII for details.)

IP67

(Refer to page VIII for details.)



• Dust- and watertight
IP67

(Refer to page IX for details.)



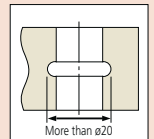
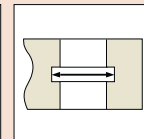
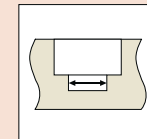
Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)
Resolution*: 0.01mm or .0005"/0.01mm
Graduation**: 0.05mm
Display*: LCD
Scale type*: ABSOLUTE electromagnetic induction linear encoder
Max. response speed*: Unlimited
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 3 years under normal use
Dust/Water protection level*: IP67***
* Digital models ** Analog models
*** This model is not waterproof type.
Therefore, rustproofing shall be applied after use.

Optional accessories

For details, refer to page A-15.
Connecting cables for IT/DP/MUX
05CZA624: SPC cable with data button (1m)
05CZA625: SPC cable with data button (2m)
USB Input Tool Direct
06ADV380A: SPC cable for **USB-ITN-A** (2m)
Connecting cables for **U-WAVE-T**
02AZD790A: SPC cable for **U-WAVE** with data button (160mm)
02AZE140A: SPC cable for footswitch

Knife-edge type Inside groove type Inside groove type



Inch/Metric Digital model

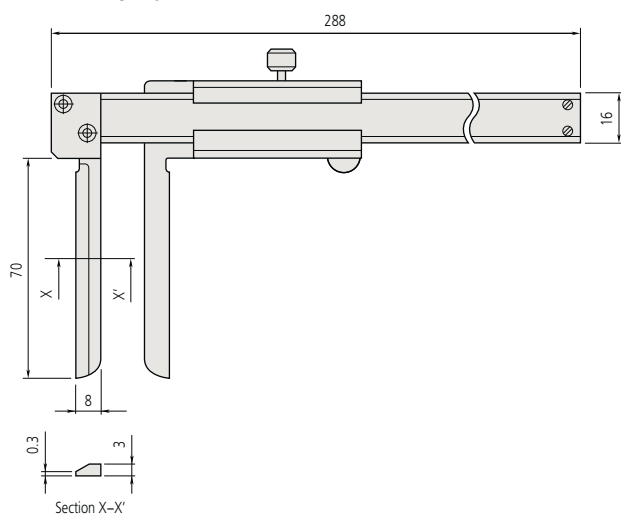
Order No.	Range	Accuracy	Remarks
573-742	.4" - 8"	±.002"	Knife-edge type, Measurable min. hole diameter: ø.4"
573-745**	.4" - 6"	±.002"	Inside groove type, Measurable min. hole diameter: ø.4"
573-746**	.8" - 6"	±.0015"	Point jaw type, Measurable min. hole diameter: ø.8"

** Incorporated with the offsetting function, which indicates the actual measurement value.

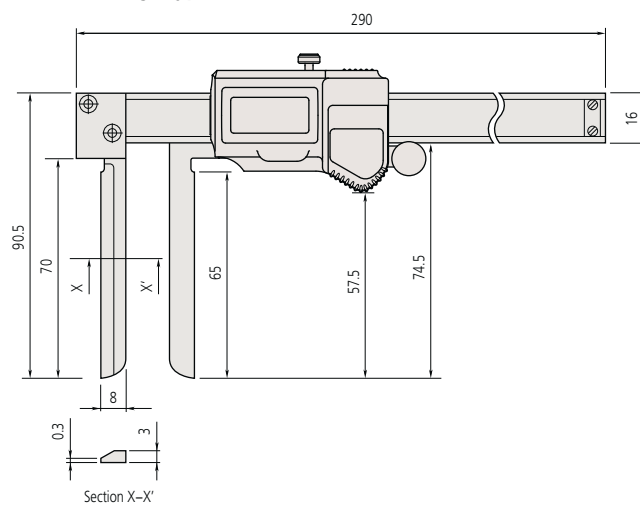
DIMENSIONS

Unit: mm

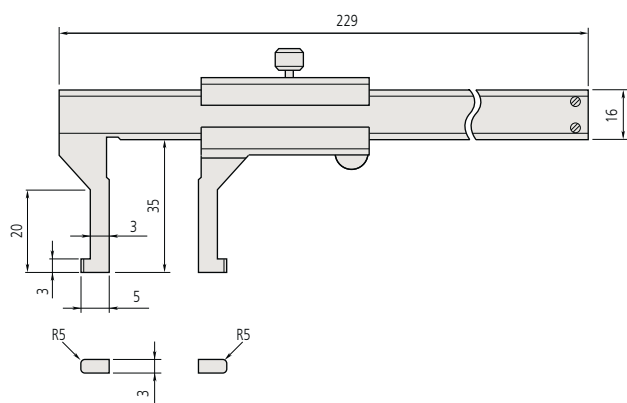
Knife-edge type: 536-142



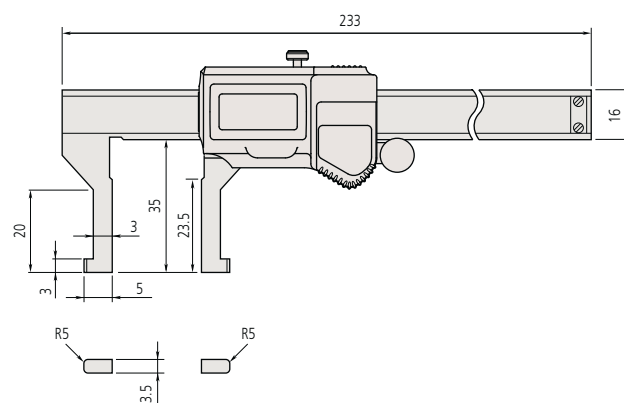
Knife-edge type: 573-642, 643, 742



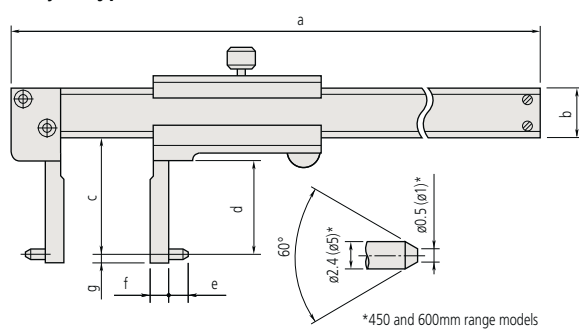
Inside groove type: 536-145



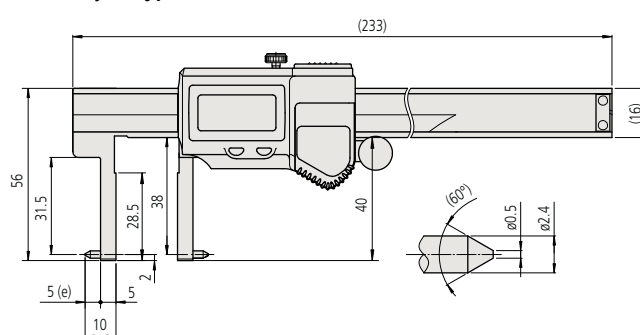
Inside groove type: 573-645, 647, 745



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



Point jaw type: 573-646, 648, 746



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

Calipers

A standard measuring tool of industry

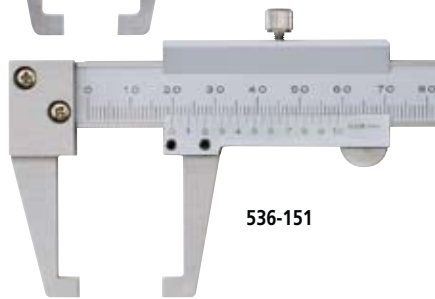
Neck Caliper

SERIES 573, 536 — ABSOLUTE Digimatic and vernier type

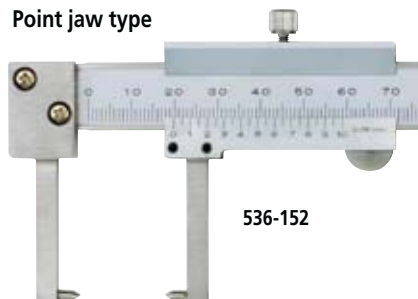
- Can measure wall thickness inside bores and recesses.
- Digital models are an IP67 Absolute type. No need to reset the origin after switching on. (Refer to page D-8 for a description of Absolute measurement.)
- The slider operation of digital models is smooth and comfortable.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



573-651



536-151



536-152

SPECIFICATIONS

Metric	Digital model
Order No.	Range
573-651	0 - 150mm
573-652*	0 - 150mm
573-653**	0 - 150mm
573-654***	0 - 150mm

* Point type

** Without thumb roller

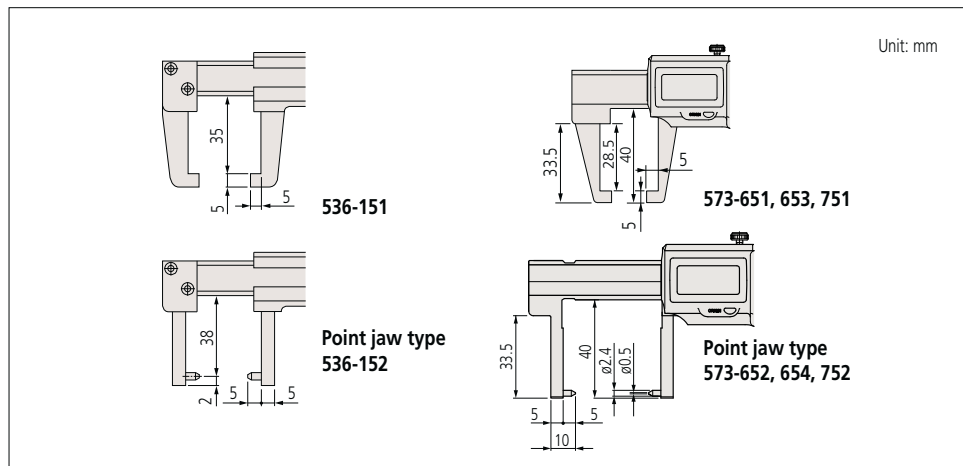
Metric	Digital model
Order No.	Range
536-151	0 - 150mm
536-152*	0 - 150mm

* Point type

Inch/Metric	Digital model
Order No.	Range
573-751	0 - 6"
573-752*	0 - 6"

* Point type

DIMENSIONS



ABSOLUTE

(Refer to page VIII for details.)

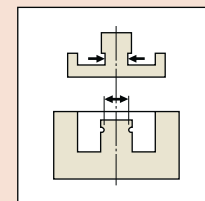
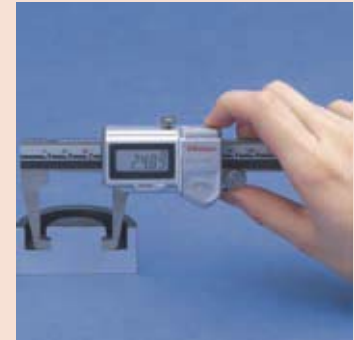
IP67

(Refer to page VIII for details.)



• Dust- and watertight
IP67

(Refer to page IX for details.)



Technical Data

Accuracy: Refer to the list of specifications.

(excluding quantizing error for digital models)

Resolution*: 0.01mm or .0005"/0.01mm

Graduation**: 0.05mm

Display*: LCD

Scale type*: ABSOLUTE electromagnetic induction linear encoder

Max. response speed*: Unlimited

Battery*: SR44 (1 pc.), **938882**

Battery life*: Approx. 3 years under normal use

Dust/Water protection level*: IP67***

* Digital models ** Analog models

*** This model is not waterproof type.

Therefore, rustproofing shall be applied after use.

Optional accessories

For details, refer to page A-15.

Connecting cables for IT/DP/MUX

05CZA624: SPC cable with data button (1m)

05CZA625: SPC cable with data button (2m)

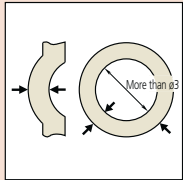
USB Input Tool Direct

06ADV380A: SPC cable for **USB-ITN-A** (2m)

Connecting cables for **U-WAVE-T**

02AZD790A: SPC cable for **U-WAVE** with data button (160mm)

02AZE140A: SPC cable for footswitch



Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)

Resolution*: 0.01mm or .0005"/0.01mm

Graduation**: 0.05mm

Display*: LCD

Scale type*: ABSOLUTE electromagnetic induction linear encoder

Max. response speed*: Unlimited

Battery*: SR44 (1 pc.), **938882**

Battery life*: Approx. 3 years under normal use

Dust/Water protection level*: IP67***

* Digital models ** Analog models

*** This model is not waterproof type.

Therefore, rustproofing shall be applied after use.

Optional accessories

For details, refer to page A-15.

Connecting cables for IT/DP/MUX

05CZA624: SPC cable with data button (1m)

05CZA625: SPC cable with data button (2m)

USB Input Tool Direct

06ADV380A: SPC cable for **USB-ITN-A** (2m)

Connecting cables for **U-WAVE-T**

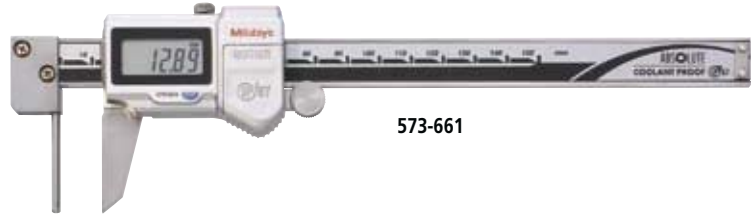
02AZD790A: SPC cable for **U-WAVE** with data button (160mm)

02AZE140A: SPC cable for footswitch

Tube Thickness Caliper SERIES 573, 536 — ABSOLUTE Digimatic and vernier type

- The beam-mounted jaw is a round bar that facilitates measurements of tube wall thickness.
- Digital 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.)

- The slider operation of digital models is smooth and comfortable.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



573-661



536-161

SPECIFICATIONS

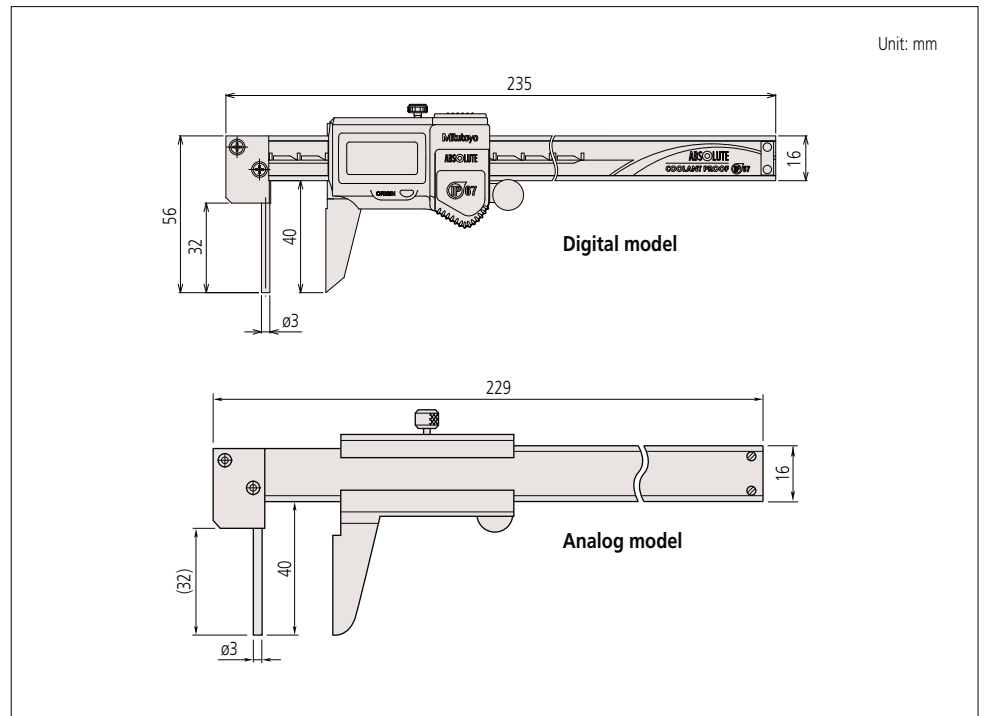
Metric	Digital model
Order No.	Range
573-661	0 - 150mm
573-662*	0 - 150mm
Accuracy	±0.05mm
Accuracy	±0.05mm

* without thumb roller

Metric	Analog model
Order No.	Range
536-161	0 - 150mm
Accuracy	±0.05mm

Inch/Metric	Digital model
Order No.	Range
573-761	0 - 6"
Accuracy	±.002"

DIMENSIONS



Calipers

A standard measuring tool of industry

Hook Type Vernier Caliper SERIES 536

- Can measure width of grooves and lands inside bores and recesses.



536-171

Inside-groove type



536-172

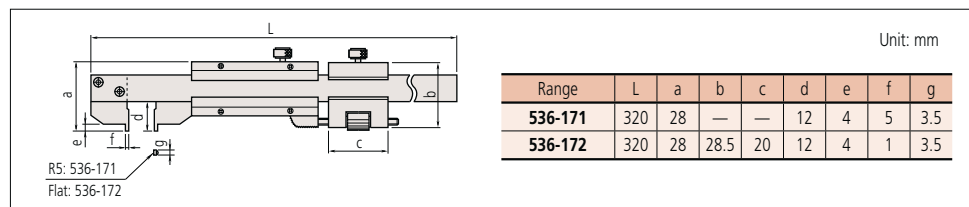
SPECIFICATIONS

Metric

Order No.	Range*	Accuracy	Remarks
536-171	0 (10) - 200mm	±0.03mm	—
536-172	0 (2) - 200mm	±0.03mm	with fine adjustment

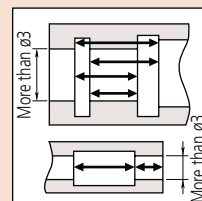
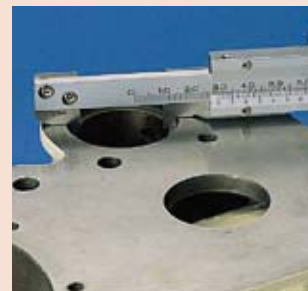
* () : Minimum dimension in inside measurement

DIMENSIONS



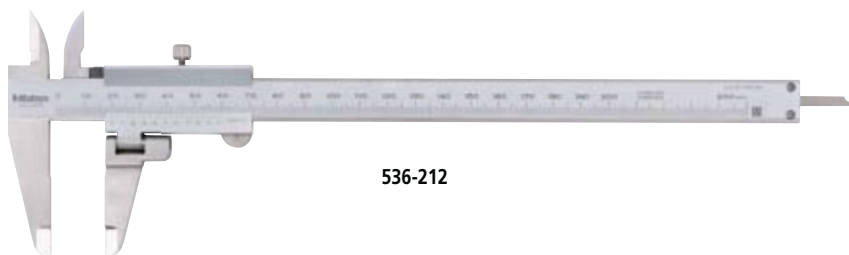
Technical Data

Accuracy: ±0.03mm
Graduation: 0.02mm



Swivel Vernier Caliper SERIES 536 — Moving Jaw type

- The moving jaw can be rotated to measure sectioned shafts.
- Allows step measurement.



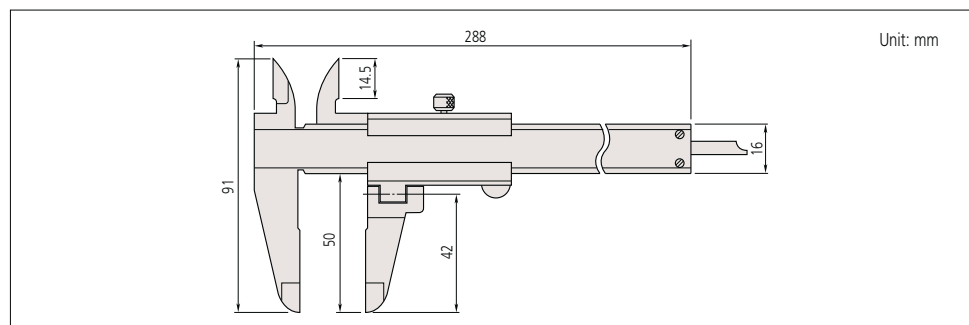
536-212

SPECIFICATIONS

Metric

Order No.	Range	Accuracy
536-212	0 - 200mm	±0.05mm

DIMENSIONS



Technical Data

Accuracy: ±0.05mm
Graduation: 0.05mm





Technical Explanation

Measurement procedure



A consistently low measuring force can be guaranteed by only taking measurements when the pointer is between the two fiducial lines.

Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error)

Resolution: 0.01mm or .0005"/0.01mm

Display: LCD

Scale type*: ABSOLUTE electrostatic capacity linear encoder

Jaw retraction: 0.3mm

Max. response speed: Unlimited

Battery: SR44 (1 pc.), **938882**

Battery life: Approx. 3.5 years under normal use

Optional accessories

For details, refer to page A-15.

959143: Data hold unit

Connecting cables for IT/DP/MUX

959149: SPC cable with data button (1m)

959150: SPC cable with data button (2m)

USB Input Tool Direct

06ADV380C: SPC cable for **USB-ITN-C** (2m)

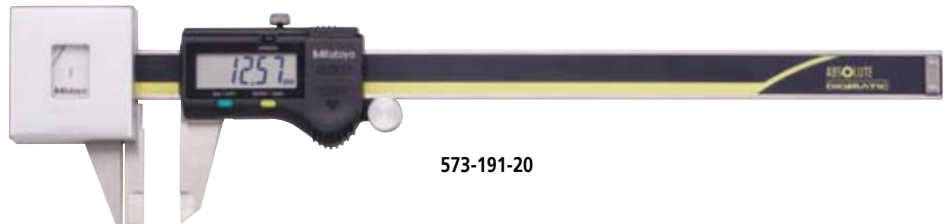
Connecting cables for **U-WAVE-T**

02AZD790C: SPC cable for **U-WAVE** with data button (160mm)

02AZE140C: SPC cable for footswitch

Absolute Low Force Caliper SERIES 573

- Due to the low measuring force, these calipers are ideal for measuring elastic workpieces such as plastic parts and rubber parts that standard calipers cannot measure accurately.
- Allows fine feeding easily by using thumb roller.
- Displacement of main scale jaw is 0.3mm.
- Measuring force: 0.49N to 0.98N (50gf to 100gf)
- Absolute type. (Refer to page D-8 for a description of Absolute measurement.)
- Slider operation is smooth and comfortable.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



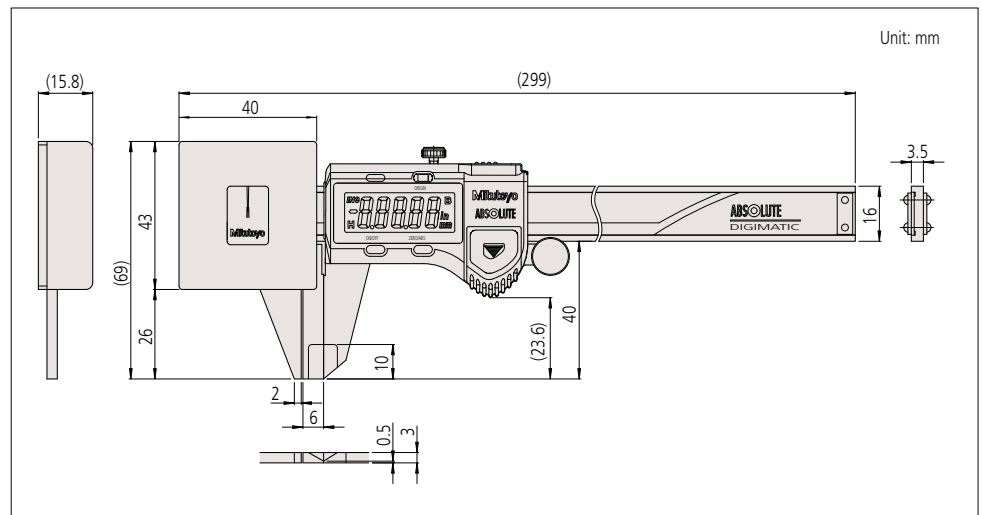
573-191-20

SPECIFICATIONS

Metric		
Order No.	Range	Accuracy
573-191-20	0 - 180mm	±0.05mm

Inch/Metric		
Order No.	Range	Accuracy
573-291-20	0 - 7"	±.002"

DIMENSIONS

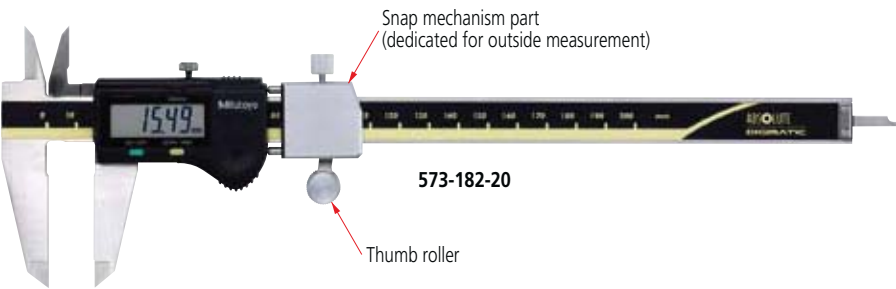


Calipers

A standard measuring tool of industry

Absolute Snap Caliper SERIES 573

- Snap mechanism allows continuous and easy measurement without moving the slider by using the lever.
- The ABSOLUTE Digimatic snap caliper features a spring-loaded mechanism to allow quick and efficient GO/NO-GO inspection for mass production parts.
- Allows step measurement
- Displacement of snap part is 2 mm.
- Measuring force: 7N to 14N (700gf to 1400gf)
- Absolute type. (Refer to page D-8 for a description of Absolute measurement.)
- Slider operation is smooth and comfortable.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.

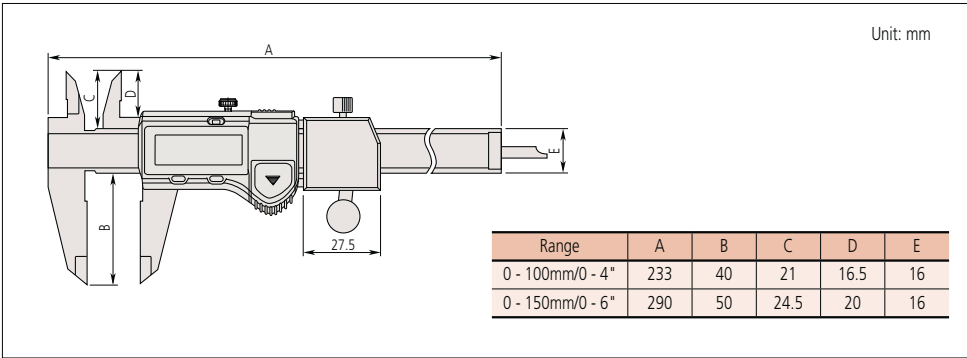


SPECIFICATIONS

Metric		
Order No.	Range	Accuracy
573-181-20	0 - 100mm	±0.02mm
573-182-20	0 - 150mm	±0.02mm

Inch/Metric		
Order No.	Range	Accuracy
573-281-20	0 - 4"	±.001"
573-282-20	0 - 6"	±.001"

DIMENSIONS



ABSOLUTE

(Refer to page VIII for details.)



Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error)
Resolution: 0.01mm or .0005"/0.01mm
Repeatability: 0.01mm
Display: LCD
Scale type: ABSOLUTE electrostatic capacity linear encoder
Jaw retraction: 2mm
Max. response speed: Unlimited
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 3.5 years under normal use

Optional accessories

For details, refer to page A-15.
959143: Data hold unit
Connecting cables for IT/DP/MUX
959149: SPC cable with data button (1m)
959150: SPC cable with data button (2m)
USB Input Tool Direct
06ADV380C: SPC cable for **USB-ITN-C** (2m)
Connecting cables for **U-WAVE-T**
02AZD790C: SPC cable for **U-WAVE** with data button (160mm)
02AZE140C: SPC cable for footswitch