

Offset Caliper

SERIES 573, 536 — ABSOLUTE Digimatic and vernier type

FEATURES

- The beam-mounted jaw can be adjusted to facilitate measurement of stepped sections and hard-to-get-at workpiece features.
- With depth bar.
- SPC data output (Series 573).



SPECIFICATIONS

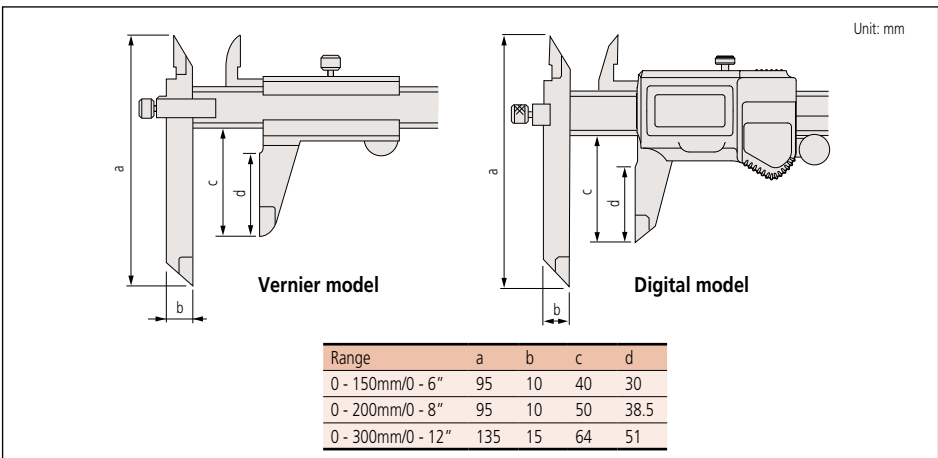
Metric Digital model		
Range	Order No.	Accuracy
0 - 150mm	573-601	±0.02mm
0 - 150mm	573-611*	±0.02mm
0 - 200mm	573-602	±0.02mm
0 - 200mm	573-612*	±0.02mm
0 - 300mm	573-604	±0.03mm
0 - 300mm	573-614*	±0.03mm

*Without thumb roller

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

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

DIMENSIONS



(Refer to page VIII for details.)



(Refer to page VIII for details.)

Technical Data

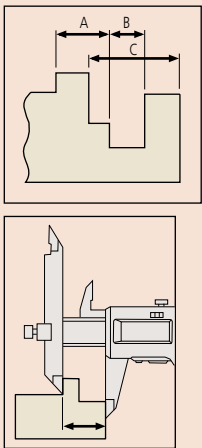
Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)
Resolution*: 0.01mm or .0005"/0.01mm
Graduation*: 0.05mm
Display*: LCD
Scale type*: ABSOLUTE electromagnetic linear encoder
Max. response speed*: Unlimited
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 3 years under normal use
(1 year: 300mm model)
Dust/Water protection level*: IP67
*Digital models **Analog models

Functions of Digital Model

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)
Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

- 05CZA624**: SPC cable with data switch (1m)
- 05CZA625**: SPC cable with data switch (2m)
- 02AZD790A**: SPC cable for U-WAVE w/ data switch (160mm)



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(Refer to page VIII for details.)



(Refer to page VIII 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 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

Functions of Digital Model

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)

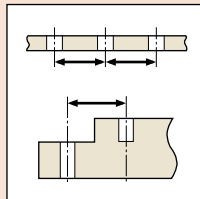
Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

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

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

02AZD790A: SPC cable for U-WAVE w/ data switch (160mm)



Offset Centerline Caliper

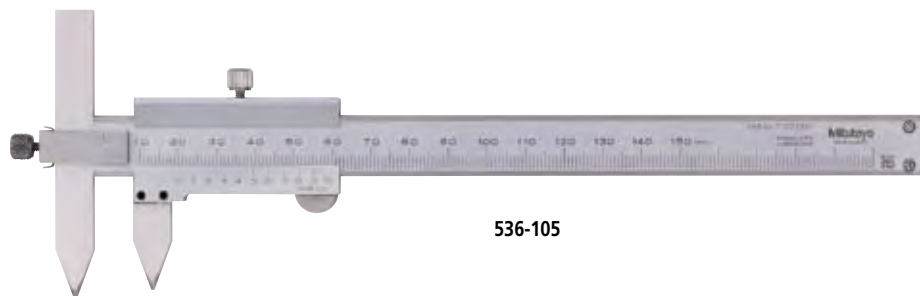
SERIES 536, 573 — ABSOLUTE Digimatic and vernier type

FEATURES

- Specially designed for hole center-to-center measurements on the same, or offset, planes.
- Can also measure from an edge to a hole center.
- Hole diameter should be in the range 1.5mm - 10mm (.06" - .4").
- SPC data output (Series 573).



573-605



536-105

SPECIFICATIONS

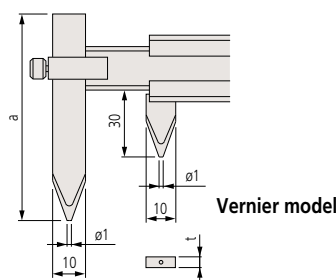
Metric Digital model		
Range	Order No.	Accuracy
10 - 160mm	573-605	±0.03mm
10 - 160mm	573-615*	±0.03mm
10 - 210mm	573-606	±0.03mm
10 - 210mm	573-616*	±0.03mm
10 - 310mm	573-608	±0.04mm
10 - 310mm	573-618*	±0.04mm

*Without thumb roller

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

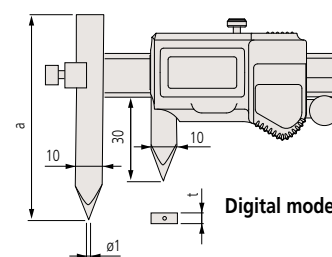
Inch/Metric Digital model		
Range	Order No.	Accuracy
.4 - 6.4"	573-705	±.0015"
.4 - 8.4"	573-706	±.0015"
.4 - 12.4"	573-708	±.0015"

DIMENSIONS



Vernier 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

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D-21

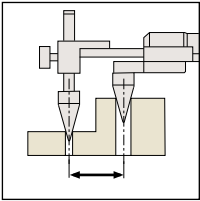
MILUTOYO

ABSOLUTE Back-Jaw Centerline Caliper

SERIES 573 — Center-to-center & edge-to-center Types

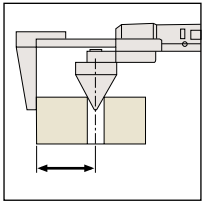
FEATURES

- Specially designed to measure hole center-to-center or edge-to-center distances.
- Provided with jaws on the back of the slider, measurements can be read easily from above.
- Direct reading of pitch measurements is available due to the offset value setting function.
- SPC data output.



573-116-10
(Center-to-center type)

573-118-10
(Edge-to-center type)

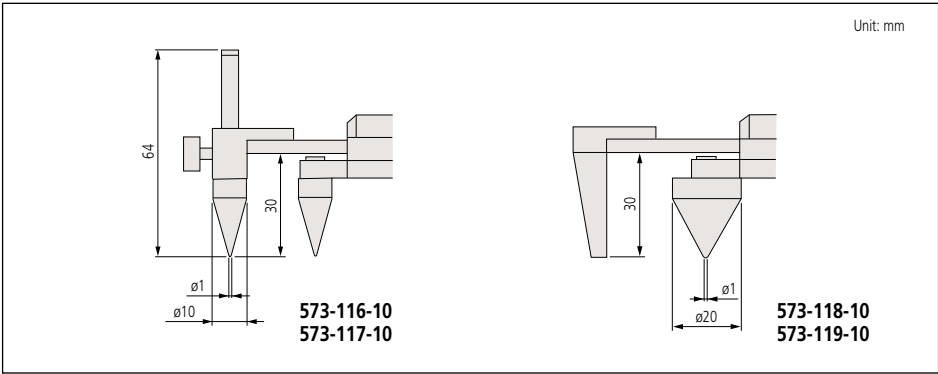


SPECIFICATIONS

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

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

DIMENSIONS



(Refer to page VIII for details.)



Technical Data

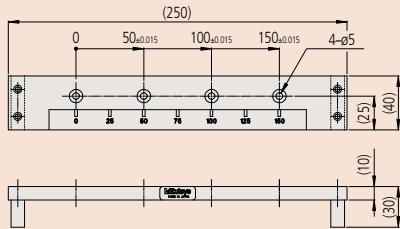
Accuracy: Refer to the list of specifications.
(excluding quantizing error)
Resolution: 0.01mm or .0005"/0.01mm
Display: LCD
Scale type*: ABSOLUTE electrostatic linear encoder
Max. response speed: Unlimited
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 3.5 years under normal use

Functions

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)
Alarm: Low voltage, Counting value composition error

Optional Accessories

- 959143**: Data hold unit
- 959149**: SPC cable with data switch (1m)
- 959150**: SPC cable with data switch (2m)
- 02AZD790C**: SPC cable for U-WAVE w/ data switch (160mm)
- 05FAJ735**: Centerline caliper inspection gage





(Refer to page VIII for details.)



(Refer to page VIII 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 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

Functions of Digital Model

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)
Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

05CZA624: SPC cable with data switch (1m)
05CZA625: SPC cable with data switch (2m)
02AZD790A: SPC cable for U-WAVE w/ data switch (160mm)



Point Caliper

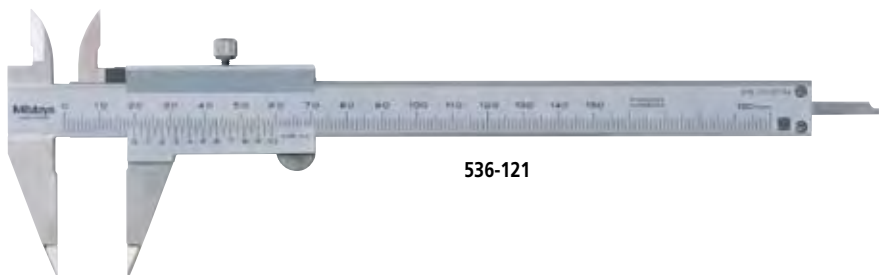
SERIES 573, 536 — ABSOLUTE Digimatic and vernier type

FEATURES

- Narrow-tip jaws fit into very small grooves and tracks, making many previously difficult outside measurements far easier to obtain.
- With depth bar.
- SPC data output (Series 573).



573-621



536-121

SPECIFICATIONS

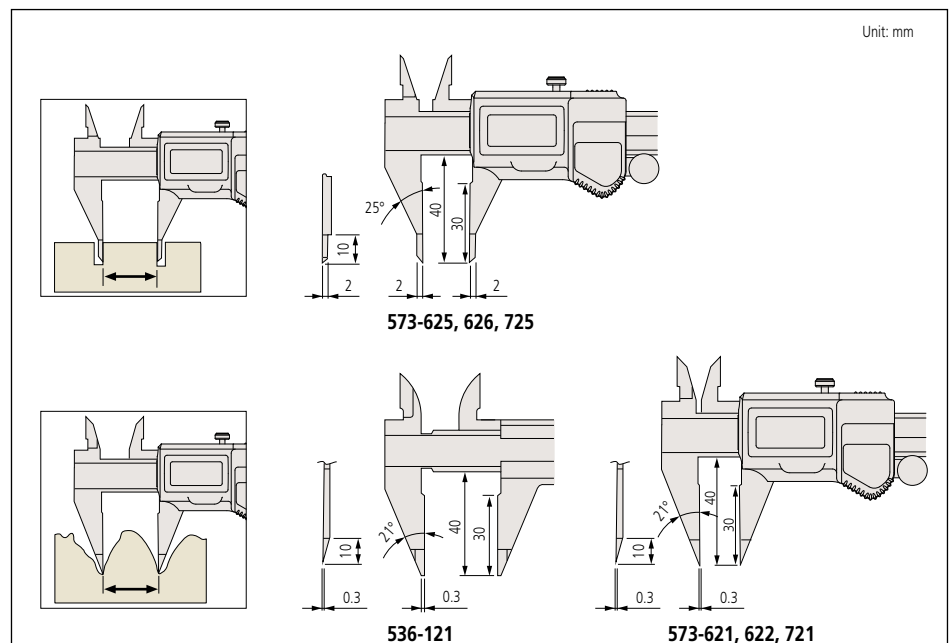
Metric Digital model		
Range	Order No.	Accuracy
0 - 150mm	573-621	±0.02mm
0 - 150mm	573-625	±0.02mm
0 - 150mm	573-622*	±0.02mm
0 - 150mm	573-626*	±0.02mm

*without thumb roller

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

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

DIMENSIONS



D

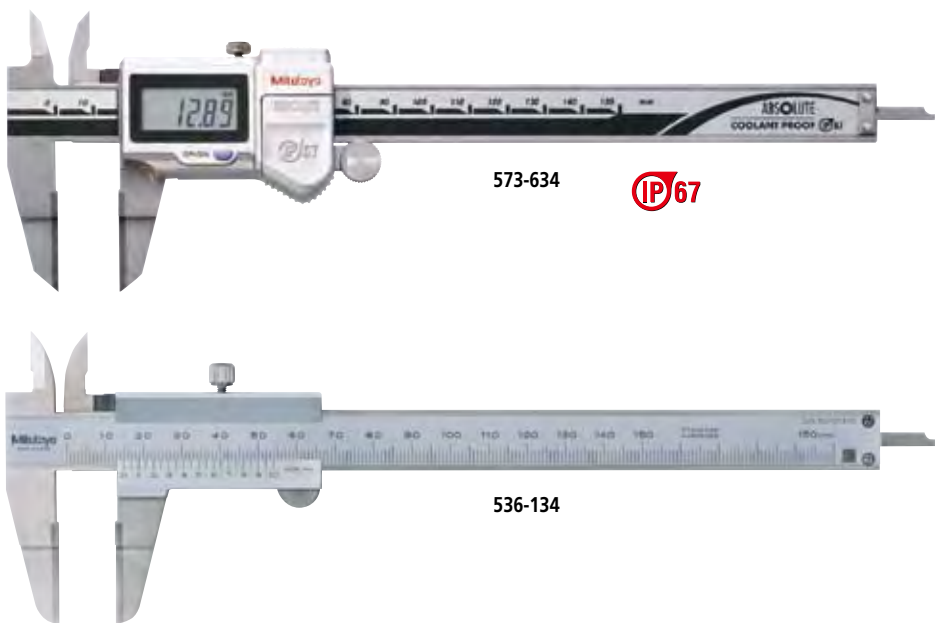


Blade Type Caliper

SERIES 573, 536 — ABSOLUTE Digimatic and vernier type

FEATURES

- 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.
- With depth bar.
- SPC data output (Series 573).



SPECIFICATIONS

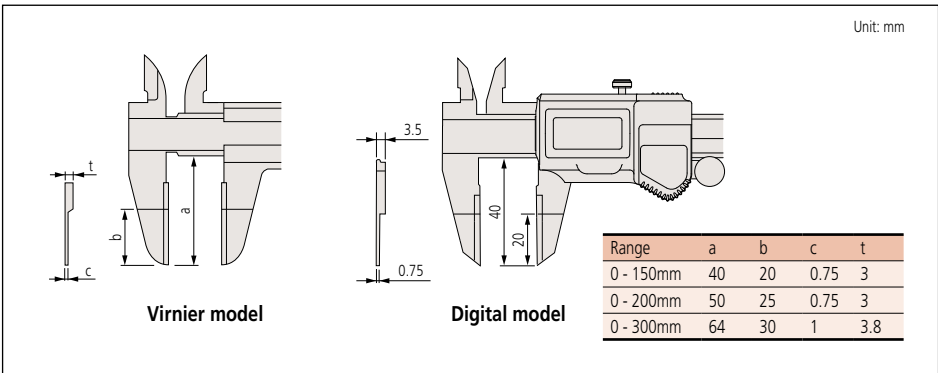
Metric Digital model		
Range	Order No.	Accuracy
0 - 150mm	573-634	±0.02mm
0 - 150mm	573-635*	±0.02mm

*without thumb roller

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

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

DIMENSIONS



(Refer to page VIII for details.)



(Refer to page VIII for details.)

Technical Data

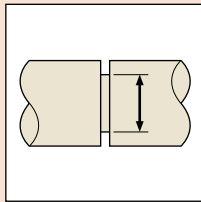
Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)
Resolution*: 0.01mm or .0005"/0.01mm
Graduation**: 0.05mm
Display*: LCD
Scale type*: ABSOLUTE electromagnetic linear encoder
Max. response speed*: Unlimited
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 3 years under normal use
Dust/Water protection level*: IP67
*Digital models **Analog models

Functions of Digital Model

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)
Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

05CZA624: SPC cable with data switch (1m)
05CZA625: SPC cable with data switch (2m)
02AZD790A: SPC cable for U-WAVE w/ data switch (160mm)



ABSOLUTE Inside Caliper

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

FEATURES

- Specially designed for inside measurements in hard-to-reach places.
- SPC data output (Series 573).

Knife-edge type



573-642



536-142

Inside groove type



573-745



536-145

Point jaw type



573-646



536-146

SPECIFICATIONS

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

*without thumb roller

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

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



(Refer to page VIII for details.)



(Refer to page VIII 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 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

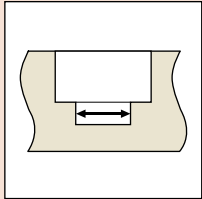
Functions of Digital Model

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)
Alarm: Low voltage, Counting value composition error

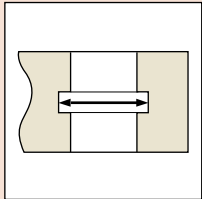
Optional Accessories for Digital Model

05CZA624: SPC cable with data switch (1m)
05CZA625: SPC cable with data switch (2m)
02AZD790A: SPC cable for U-WAVE w/ data switch (160mm)

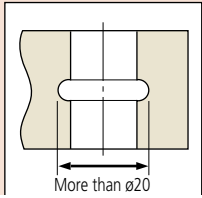
Knife-edge type



Inside groove type



Point jaw type

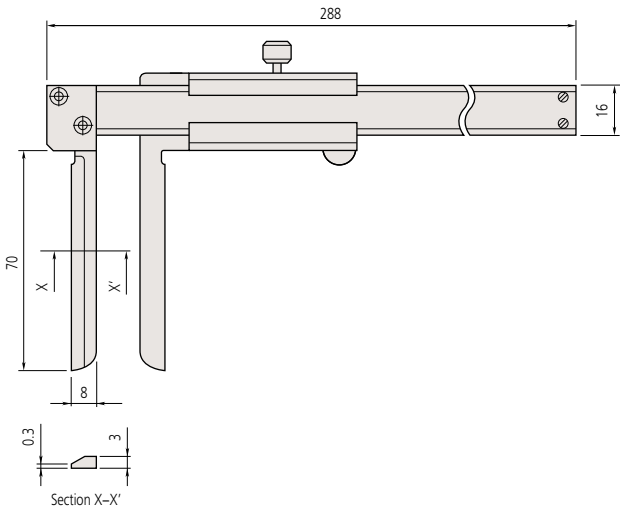


More than ø20

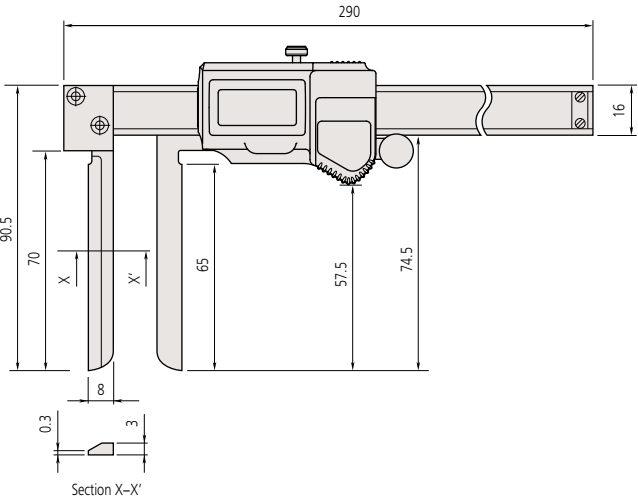
DIMENSIONS

Unit: mm

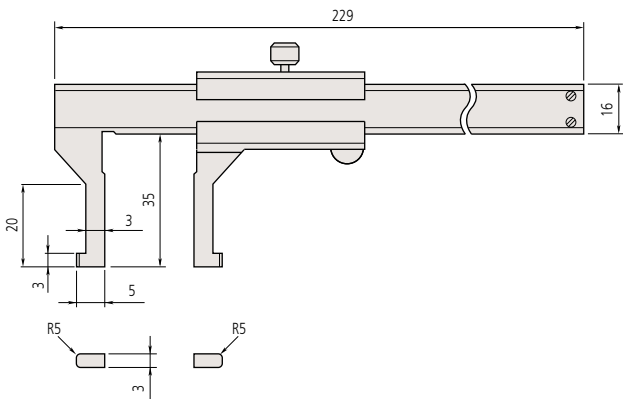
Knife-edge type: 536-142



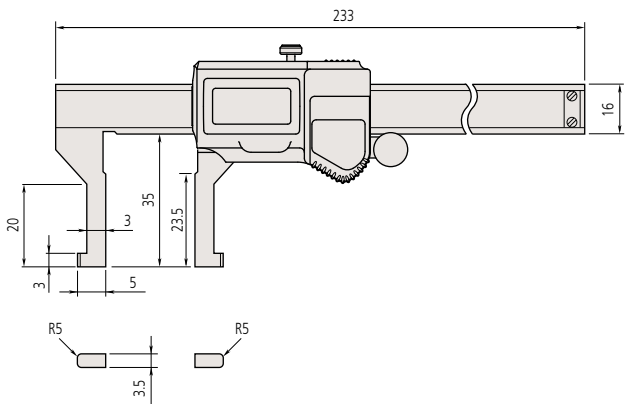
Knife-edge type: 573-642, 643, 742



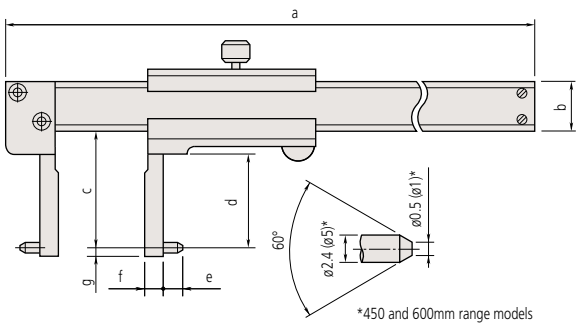
Inside groove type: 536-145



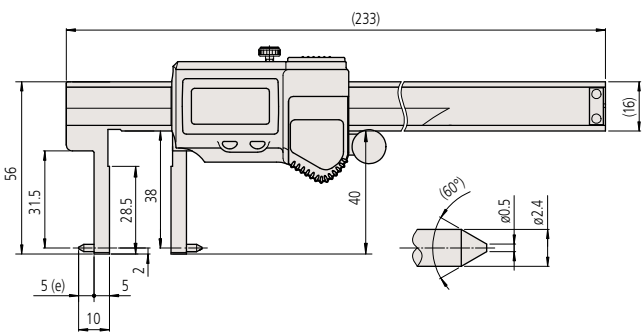
Inside groove type: 573-645, 647, 745



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



Point jaw type: 573-646, 648, 746



*450 and 600mm range models

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

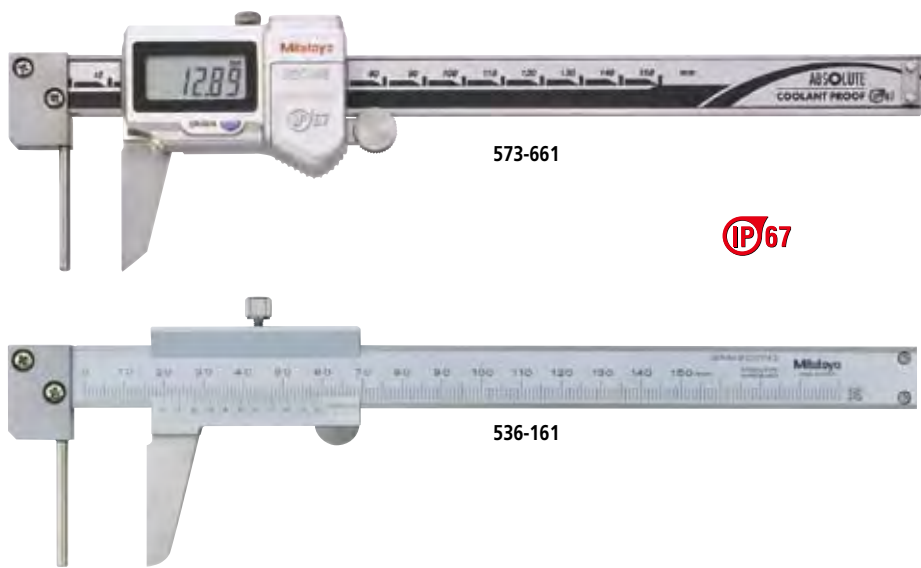
D

Tube Thickness Caliper

SERIES 573, 536 — ABSOLUTE Digimatic and vernier type

FEATURES

- The beam-mounted jaw is a round bar that facilitates measurements of tube wall thickness.
- SPC data output (Series 573).



SPECIFICATIONS

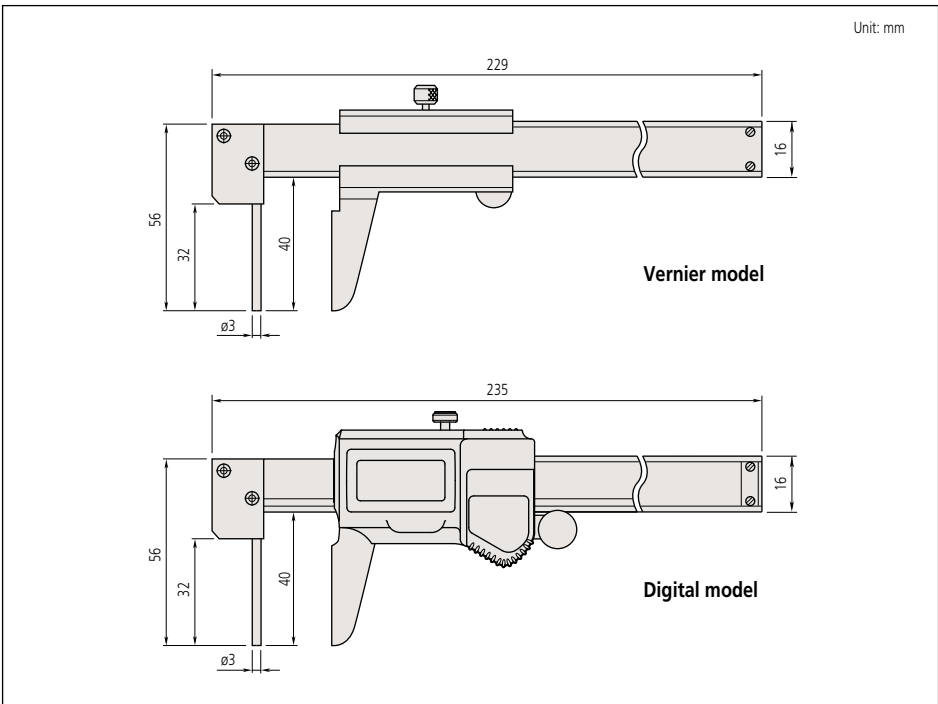
Metric	Digital model	
Range	Order No.	Accuracy
0 - 150mm	573-661	±0.05mm
0 - 150mm	573-662*	±0.05mm

*without thumb roller

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

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

DIMENSIONS



(Refer to page VIII for details.)



(Refer to page VIII for details.)

Technical Data

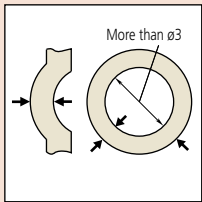
Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)
Resolution*: 0.01mm or .0005"/0.01mm
Graduation**: 0.05mm
Display*: LCD
Scale type*: ABSOLUTE electromagnetic linear encoder
Max. response speed*: Unlimited
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 3 years under normal use
Dust/Water protection level*: IP67
*Digital models **Analog models

Functions of Digital Model

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)
Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

05CZA624: SPC cable with data switch (1m)
05CZA625: SPC cable with data switch (2m)
02AZD790A: SPC cable for U-WAVE w/ data switch (160mm)

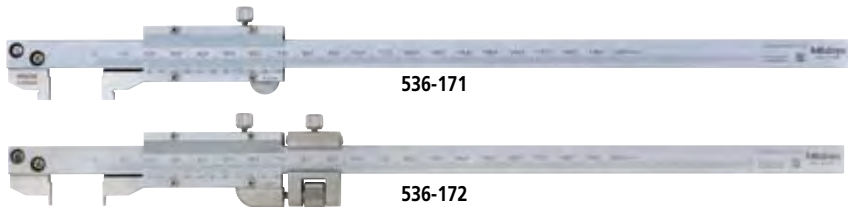


Hook Type Vernier Caliper

SERIES 536

FEATURES

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

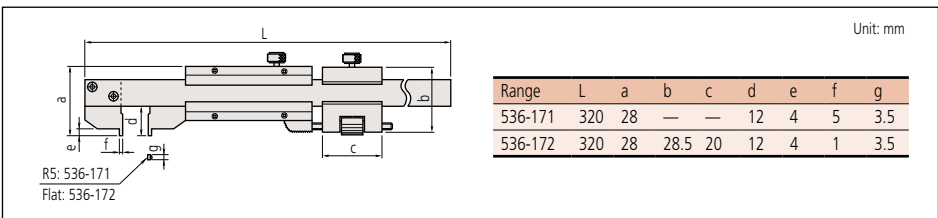


SPECIFICATIONS

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

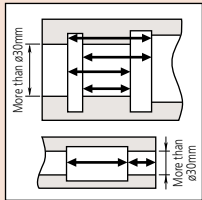
*(): Minimum dimension in inside measurement

DIMENSIONS



Technical Data

Accuracy: ±0.03mm
Graduation: 0.02mm



Swivel Vernier Caliper

SERIES 536 — Moving Jaw type

FEATURES

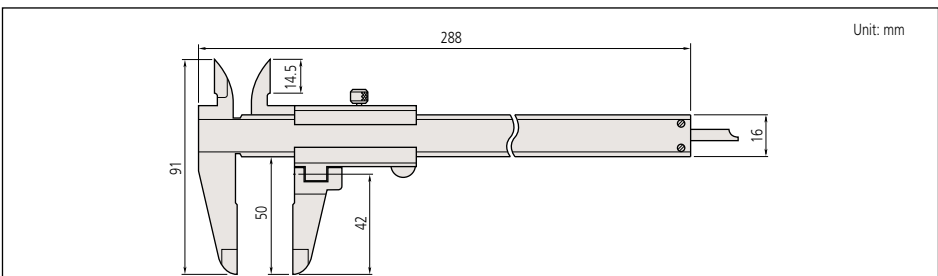
- The moving jaw can be rotated to measure sectioned shafts.
- With depth bar.



SPECIFICATIONS

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

DIMENSIONS



Technical Data

Accuracy: ±0.05mm
Graduation: 0.05mm

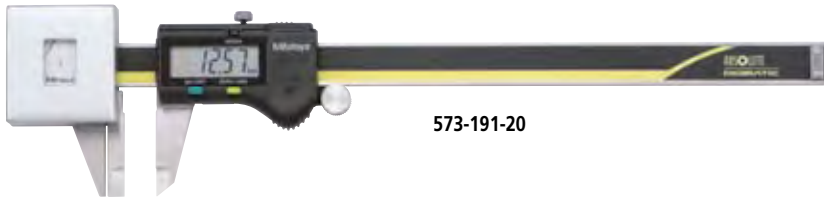


ABSOLUTE Low Force Caliper

SERIES 573

FEATURES

- 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.
- SPC data output.



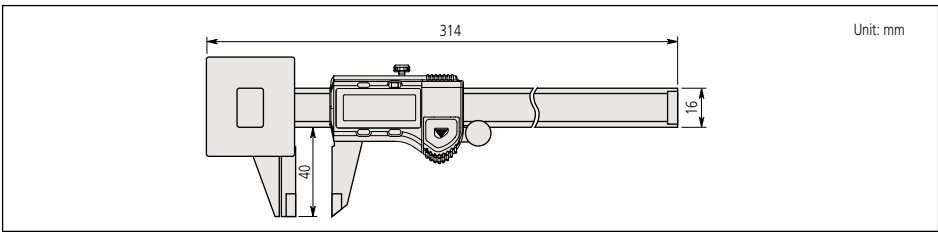
573-191-20

SPECIFICATIONS

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

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

DIMENSIONS

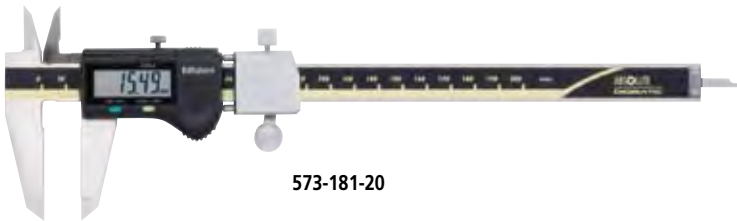


ABSOLUTE Snap Caliper

SERIES 573

FEATURES

- The ABSOLUTE Digimatic snap caliper features a spring-loaded mechanism to allow quick and efficient GO/NO-GO inspection for mass production parts.
- SPC data output.



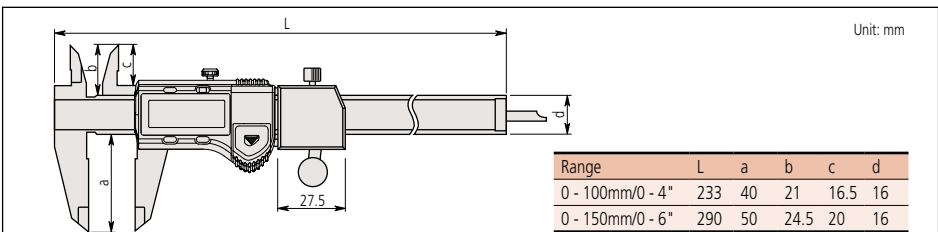
573-181-20

SPECIFICATIONS

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

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

DIMENSIONS



Range	L	a	b	c	d
0 - 100mm/0 - 4"	233	40	21	16.5	16
0 - 150mm/0 - 6"	290	50	24.5	20	16



Absolute System Patented by MITUTOYO

(Refer to page VIII for details.)

Technical Data

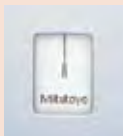
Accuracy: Refer to the list of specifications. (excluding quantizing error)
Resolution: 0.01mm or .0005"/0.01mm
Display: LCD
Scale type*: ABSOLUTE electrostatic linear encoder
Measuring force: 0.49N to 0.98N (50gf to 100gf)
Jaw retraction: 0.3mm
Max. response speed: Unlimited
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 3.5 years under normal use

Functions

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)
Alarm: Low voltage, Counting value composition error

Optional Accessories

959143: Data hold unit
959149: SPC cable with data switch (1m)
959150: SPC cable with data switch (2m)
02AZD790C: SPC cable for U-WAVE w/ data switch (160mm)



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

Measurement procedure



Absolute System Patented by MITUTOYO

(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 linear encoder
Measuring force: 7N to 14N (700gf to 1400gf)
Jaw retraction: 2mm
Max. response speed: Unlimited
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 3.5 years under normal use

Functions

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)
Alarm: Low voltage, Counting value composition error

Optional Accessories

959143: Data hold unit
959149: SPC cable with data switch (1m)
959150: SPC cable with data switch (2m)
02AZD790C: SPC cable for U-WAVE w/ data switch (160mm)



1.888.610.7664



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(Refer to page VIII for details.)



(Refer to page VIII 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 linear encoder
Max. response speed*: Unlimited
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 3 years under normal use
(1 year: over 300mm model)
Dust/Water protection level*: IP67
*Digital models **Analog models

Functions

Origin-set, Zero-setting, Automatic power on/off, Data output, inch/mm conversion (inch/mm models)
Alarm: Low voltage, Counting value composition error

Optional Accessories

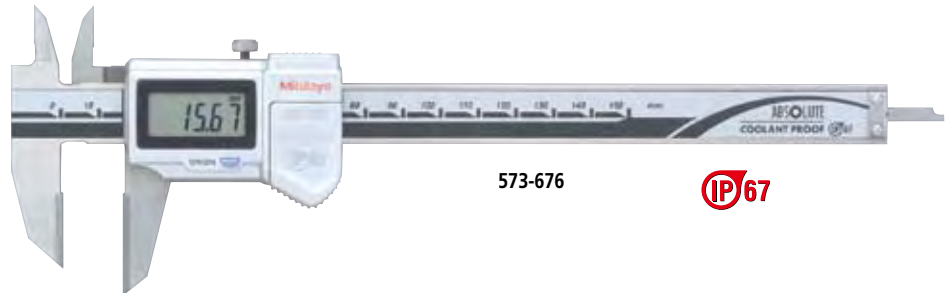
05CZA624: SPC cable with data switch (1m)
05CZA625: SPC cable with data switch (2m)
02AZD790A: SPC cable for U-WAVE w/ data switch (160mm)

Scribing Caliper

SERIES 573, 536 — ABSOLUTE Digimatic and vernier type

FEATURES

- The carbide-tipped jaws facilitate fine scribing on workpiece.
- With depth bar.
- SPC data output (Series 573).

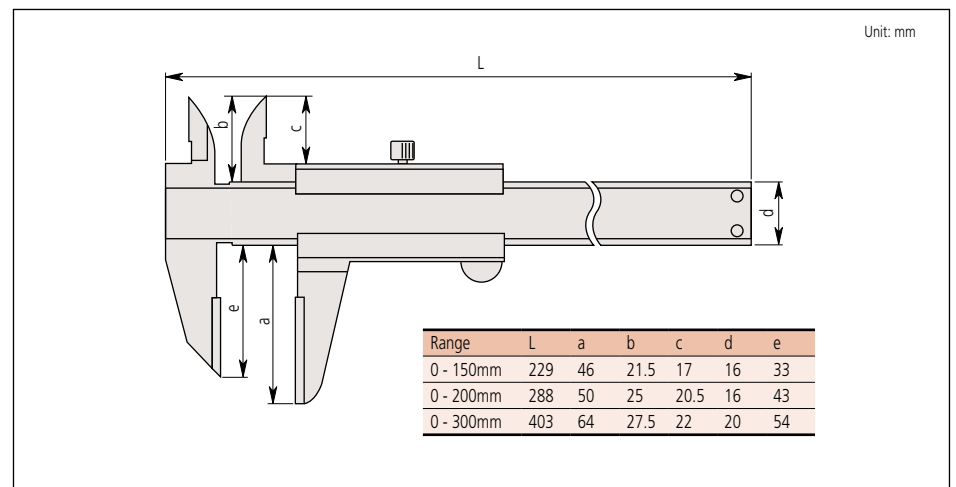


SPECIFICATIONS

Metric Digital model		
Range	Order No.	Accuracy
0 - 150mm	573-676	±0.02mm
0 - 200mm	573-677	±0.02mm
0 - 300mm	573-679	±0.03mm

Metric		
Range	Order No.	Accuracy
0 - 150mm	536-221	±0.05mm
0 - 200mm	536-222	±0.05mm
0 - 300mm	536-223	±0.08mm

DIMENSIONS



D

Plastic Caliper

SERIES 700 — Digital Caliper for DIY

FEATURES

- Plastic construction for lightweight use.
- Ideal for use in laboratory, wood-shop, nursery, doctor’s surgery, office, etc.



700-127



700-128

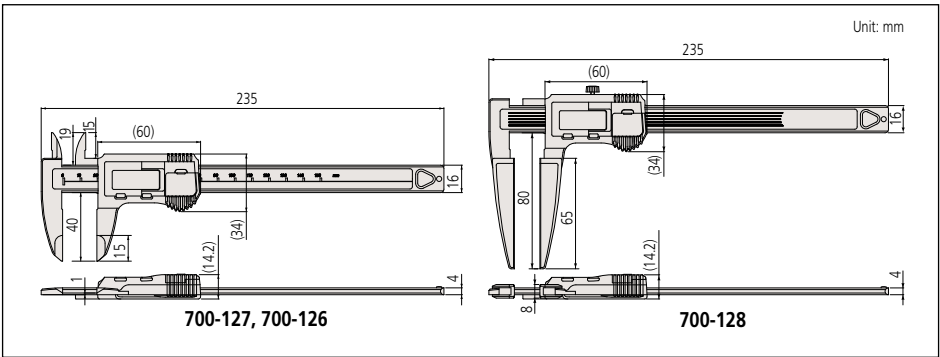
SPECIFICATIONS

Metric		
Range	Order No.	Accuracy
0 - 150mm	700-127	±0.2mm
0 - 150mm	700-128*	±0.5mm

*Deep throat type without inside measuring jaws.

Inch/Metric		
Range	Order No.	Accuracy
0 - 6"	700-126	±.008"

DIMENSIONS



Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error)
Resolution: 0.1mm or .001"/0.1mm
Display: LCD
Scale type: Electrostatic linear encoder
Max. response speed: 1800mm/s
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 2 years under normal use

Functions

Zero-setting, Power on/off
Alarm: Low voltage, Counting value composition error

