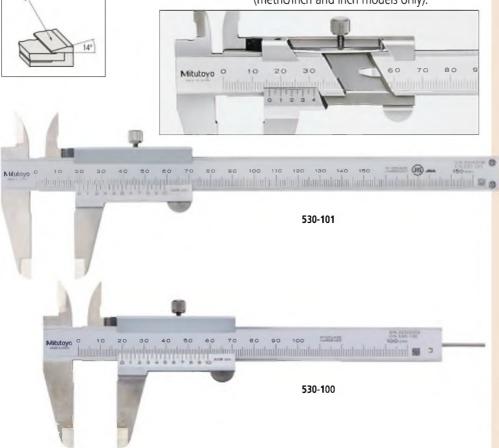
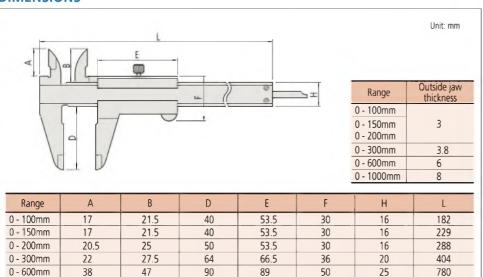
An industry standard in measuring tools

Vernier Caliper 530 Series - Standard model

- Plain and basic design.
- Stepped graduation face prevents dust ingress between the main scale and slider.
- The small vernier face angle (14°) provides easy reading.
- Can measure outside and inside dimensions, depth, and steps.
- Carbide-tipped jaw calipers are optimal for rough finished parts, castings, grinding
- Decimal and fractional graduated scales (metric/inch and inch models only).



DIMENSIONS



111

61



530-102 (Round depth bar type)



530-320 (Carbide-tipped jaw type)



50

0 - 1000mm

130

1240

32

⁶⁰ * Code No.530-100 and No.530-102 incorporate a round depth bar (ø1.9mm). The depth bar shown in the illustration above is a different type.

Technical Data

Accuracy: ±0.05mm (≤200mm), ±0.08mm (≤300mm) ±0.10mm (≤600mm), ±0.15mm (≤1000mm) High accuracy type: ±0.03mm (≤200mm), ±0.04mm (≤300mm) Graduation: 0.05mm, 0.05mm (1/128") or .001" (1/128") High accuracy type: 0.02mm or 0.02mm (.001")

SPECIFICATIONS

Metric			
Order No.	Range	Depth bar	Remarks
530-100	0 - 100mm	ø1.9mm rod	_
530-102		Ø1.9IIIII10 u	_
530-101			_
530-320	0 - 150mm		Carbide-tipped jaws for outside measurement
530-335		Blade	Carbide-tipped jaws for outside and inside measurement
530-122*			High accuracy model: ±0.03mm
530-108			_
530-321	0 - 200mm		Carbide-tipped jaws for outside measurement
530-123*			High accuracy model: ±0.03mm
530-109			_
530-322	0 - 300mm		Carbide-tipped jaws for outside measurement
530-124*			High accuracy model: ±0.04mm
530-501	0 - 600mm		
530-502	0 - 1000mm	_	_

^{*} Graduation: 0.02mm

Metric/Inch with metric/inch double scale							
Order No.	Order No. Range Depth bar			Remarks			
530-104			1/128*	_			
530-316	0 - 150mm	Blade	1/128"	Clamping screw below the slider			
530-312*			.001 "	High accuracy model: ±0.03mm			
530-114	0 - 200mm 0 - 300mm		1/128"	_			
530-118*			.001 "	High accuracy model: ±0.03mm			
530-115			1/128"	_			
530-119*			.001 *	High accuracy model: ±0.04mm			

^{*} Graduation: 0.02mm

Inch	with inch/inch	double scale		
Order No.	Range	Depth bar	Inch graduation	Remarks
530-105	0-6"	Blade	1/128"	
530-116	0 - 8"	biade	1/128	_

Measurement Applications

1. Outside measurement



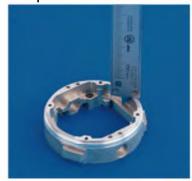
3. Step measurement



2. Inside measurement



4. Depth measurement





An industry standard in measuring tools

Vernier Caliper 532 Series — with fine adjustment

Fine-adjustment aids slider positioning.

Allows step measurement.

Technical Data

Accuracy: ±0.03mm (≤180mm), ±0.04mm (≤280mm) Graduation: 0.02mm, 0.02mm (.001") or .001" (1/128")

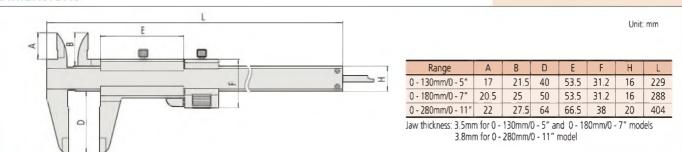


SPECIFICATIONS

	Wetric							
1	Order No.	Range	Depth bar	Remarks				
Ī	532-101	0 - 130mm						
	532-102	0 - 180mm	Omm Blade with fine adjustm					
	532-103	0 - 280mm						

Methc/linco	with metholi	ich donnie 20	ale	
Order No.	Range	Depth bar	Inch graduation	Remarks
532-119	0 - 130mm			
532-120	0 - 180mm	Blade	.001 "	with fine adjustment
532-121	0 - 280mm			

DIMENSIONS



Vernier Caliper 531 Series — with thumb clamp



Accuracy Dep

±0.05mm

±0.08mm

Technical Data

Refer to the list of specifications. Accuracy: Graduation: 0.05mm, 0.05mm (1/128") or .001" (1/128")

High accuracy type: 0.02mm or 0.02mm (.001")

Metric/Inch with metric/inch double scale 531-101 **SPECIFICATIONS**

Blade

1	the spring-loaded thumb grip
th bar	Remarks

Order No.	Range	Accuracy	Depth bar	Inch graduation	Remarks
531-122	0 - 150mm	±0.05mm		1/128"	with inch/mm conversion label
531-128*		±0.03mm	Blade	.001"	High accuracy model
531-108	0 - 200mm	±0.05mm		1/128"	_
531-129*		±0.03mm		.001"	High accuracy model
531-109	0 - 300mm	±0.08mm		1/128*	_
531-112*		±0.04mm		.001"	High accuracy model

531-103 0 - 300mm

Metric Order No.

531-101

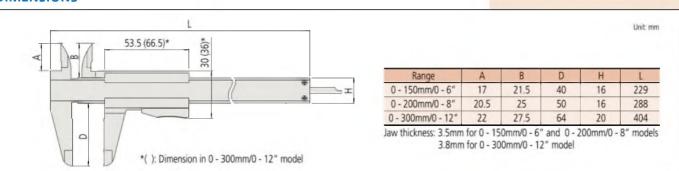
531-102

thumb grip is depressed.

Range

0 - 150mm

0 - 200mm





^{*} Graduation: 0.02mm

Graduation: 0.02mm

ABSOLUTE (Refer to page X for details.)

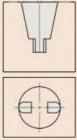


(Refer to page X for details.)



(Refer to page X for details.)





Radiused laws 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

5R44 (1 pc), 938882, Battery:

for initial operational checks (standard accessory) 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 D-39. 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)³

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 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 Nos. 550-301-10, 550-331-10, 550-311-10 and 550-341-10: IP67 (These models are not a waterproof type. Therefore a rustproofing shall be applied after use.)
- 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 Nos. 550-301-10, 550-331-10, 550-311-10 and 550-341-10). Preset function allows to set a desired starting point (Code Nos. 550-331-10 and 550-341-10).



SPECIFICATIONS

Metric Order No. Range* Accuracy Remarks 0 - 200mm (10.1 - 210mm) 550-301-10 ±0.03mm IP67 550-331-10 0 - 300mm (10.1 - 310mm) ±0.04mm IP67, with offset/preset function for easy inside measurement 550-203-10 0 - 450mm (20.1 - 470mm) ±0.05mm 550-205-10 0 - 600mm (20.1 - 620mm) ±0.05mm 550-207-10 0 - 1000mm (20.1 - 1020mm) ±0.07mm

* (): Inside measurement

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

Inch/Motele

- 5	men/metre =						
	Order No. Range*		Accuracy	Remarks			
	550-311-10	0 - 8" (.404" - 8.4")	±.0015°	IP67			
	550-341-10	0 - 12" (.404" - 12.4")		IP67, with offset/preset function for easy inside measurement			
	550-223-10	0 - 18" (.504" - 18.5")	±.002 *	_			
	550-225-10	0 - 24" (.504" - 24.5")		_			
	550-227-10	0 - 40" (.504" - 40.2")	±.003"	_			

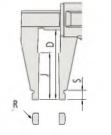
^{* ():} Inside measurement

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

DIMENSIONS

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

Jaw thickness: 3mm for 0 - 200mm model 3.8mm for 0 - 300mm model 6mm for 0 - 450mm and 0 - 600mm models 8mm for 0 - 1000mm model



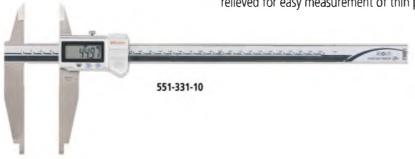


Unit: mm

An industry standard in measuring tools

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.



SPECIFICATIONS

	Metric			
	Order No.	Range*	Accuracy	Remarks
Ī	551-301-10	0 - 200mm (10.1 - 210mm)	±0.03mm	IP67
	551-331-10	0 - 300mm (10.1 - 310mm)	±0.04mm	IP67, with offset/preset function for easy inside measurement
	551-204-10	0 - 500mm (20.1 - 520mm)	±0.06mm	
	551-206-10	0 - 750mm (20.1 - 770mm)	±0.06mm	_
	551-207-10	0 - 1000mm (20.1 - 1020mm)	±0.07mm	

* (): inside measurement

In all 18 flat via

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

inch/Metric	ĺ.		
Order No.	Range*	Accuracy	Remarks
551-311-10	0 - 8" (.404" - 8.4")	± 0015"	IP67
551-341-10	0 - 12" (.404" - 12.4")	±.002"	IP67, with offset/preset function for easy inside measurement
551-224-10	0 - 20" (.504" - 20.5")	±.0025"	
551-226-10	0 - 30" (.504" - 30.5")	±.0025*	_
551-227-10	0 - 40" (1.004" - 41")	±.003"	

* (): inside measurement

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

DIMENSIONS

Range	А	D	J	S
0 - 200mm	30	60	43	8
0 - 300mm	40.1	90	68	10
0 - 500mm	56	150	115	15
0 - 750mm	56	150	115	15
0 - 1000mm	56	150	115	20

Jaw thickness: 3mm for 0 - 200mm model

3.8mm for 0 - 300mm model 6mm for 0 - 500mm and 0 - 750mm models 8mm for 0 - 1000mm model





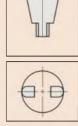


(Refer to page X for details.)



(Refer to page X 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,

for initial operational checks (standard accessory)

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 D-39. 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

(160 mm)*

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)

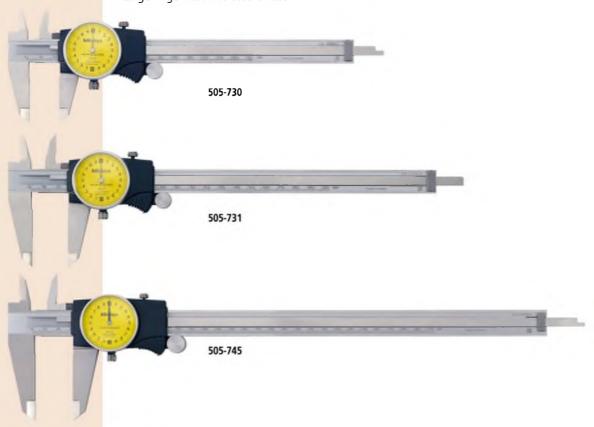




Dial Caliper Series 505

- Newly designed dial movement for ultrasmooth sliding and high shock protection.
 Easy-to-read yellow dial.
 Large finger-rest aids ease-of-use.

- Jaw tips are relieved for easy measurement of thin parts.
- Allows step measurement.





Reading (A) Main scale reading 22. mm (B) Dial reading .00mm 22.00mm

SPECIFICATIONS

Metric				
Order No.	Range	Accuracy	Graduation	Remarks
505-730				
505-734	0 - 150mm	±0.03mm	0.02mm, 2mm/rev	Carbide-tipped jaws for outside measurement
505-735				Carbide-tipped jaws for outside and inside measurement
505-732*		±0.02mm	0.01mm, 1mm/rev	
505-731	0 - 200mm	±0.03mm	0.02mm, 2mm/rev	
505-733*	0 - 20011111 ±0.0311111		0.01mm, 1mm/rev	_
505-745	0 - 300mm	±0.04mm	0.02mm, 2mm/rev	

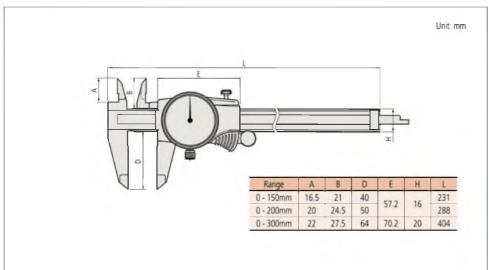
* Silver cover type

inch				
Order No.	Range	Accuracy	Graduation	Remarks
505-740J / 505-742J*		±.001"		
505-736*	0 - 6"	±.001*	.001", .1"/rev	Carbide-tipped jaws for outside measurement
505-738*	0-0	±.001*		Carbide-tipped jaws for outside and inside measurement
505-744		±.001"	.001", .2"/rev	Carbide-tipped jaws for outside measurement
505-741J / 505-743J*		±.002"		_
505-737*	0 - 8"	±.002"	.001", .1"/rev	Carbide-tipped jaws for outside measurement
505-739*		±.002"		Carbide-tipped jaws for outside and inside measurement
505-749		± 002"	.001", .2"/rev	
505-746*		±.002"	.001", .1"/rev	_
505-750	0 - 12"	±.002"	.001", .2"/rev	Carbide-tipped jaws for outside measurement
505-747*		± 002 "	.001", .1"/rev	Carbide-tipped jaws for outside and inside measurement
505-748*		±.002 "	.001 , .1 /lev	Carbide-tipped jaws for outside and inside measurement

^{*} Silver cover type



An industry standard in measuring tools









(Refer to page X for details.)



(Refer to page X for details.)





• IP66 Absolute Digital Caliper (Refer to page D-8 for Absolute function.)

SERIES 552 — with Standard jaws

ABSOLUTE Coolant Proof Carbon Fiber Caliper

- Lightweight Digimatic Calipers that employ CFRP (Carbon Fiber Reinforced Plastics) in the beam and jaws.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



552-303-10

Technical Data

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

Resolution: 0.01mm or .0005*/0.01mm Material of jaws: Stainless Steel Hardened

Display: LCD

Scale type: ABSOLUTE electromagnetic induction linear encoder

Max. response speed: Unlimited Battery: SR44 (1 pc), 938882,

for initial operational checks (standard accessory) Battery life: Approx. 5,000 hours in continuous use Dust/Water protection level: IP66 (IEC60529)* Standard accessory: Jaw clamps (2 pcs.), 05GZA033

* This model is not waterproof type. Please wipe away the wet after use.

Functions

Zero-setting Data hold Offsetting Presetting Data output Low-power and low-voltage alert Counting value composition error Automatic power on/off, inch/mm reading (inch/mm models)

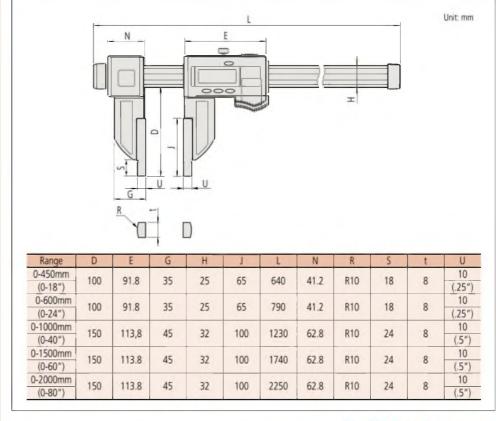
SPECIFICATIONS

Metric		
Order No.	Range*	Accuracy
552-302-10	0 - 450mm (20.1 - 470mm)	±0.04mm
552-303-10	0 - 600mm (20.1 - 620mm)	±0.04mm
552-304-10	0 - 1000mm (20.1 - 1020mm)	±0.05mm
552-305-10	0 - 1500mm (20.1 - 1520mm)	±0.09mm
552-306-10	0 - 2000mm (20.1 - 2020mm)	±0.12mm

* (): Dimension in inside measurement

Inch/Metric	_	
Order No.	Range*	Accuracy
552-312-10	0 - 18" (.504 - 18.5*)	±.002*
552-313-10	0 - 24" (.504 - 24.5")	±.002 "
552-314-10	0 - 40" (1.004 - 40.5")	±.002*
552-315-10	0 - 60" (1.004 - 60.5")	±.004*
552-316-10	0 - 80" (1.004 - 80.5")	±.005*

^{* ():} Dimension in inside measurement



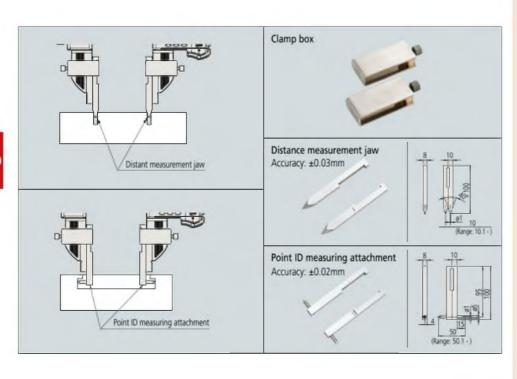


An industry standard in measuring tools

Optional accessories

Metric			
	No. 552-302-10, 552-155-10, 552-303- 10 and 552-156-10.	No. 552-304-10 and 552-305-10	
Clamp box (1 pair)	No.914053	No.914054	
Distance measurement jaw (1 pair)	No.914055		
Point ID measuring attachment	No.914057		

Inch/Metric		
	No. 552-312-10, 552-165-10, 552-313-10 and 552-166-10	No. 552-314-10, 552-315-10, 552-316-10
Clamp box (1 pair)	No.914053	No.914054
Distance measurement jaw (1 pair)	No.9	14056
Point ID measuring attachment	No.9	14058



Optional accessories

For details, refer to page D-39.
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



ABSOLUTE (Refer to page X for details.)



(Refer to page X for details.)



(Refer to page X for details.)



ABSOLUTE Coolant Proof Carbon Fiber Caliper SERIES 552 - with Long Jaws

- IP66 Absolute Digital Caliper (Refer to page D-8 for a description of Absolute measurement.)
- Lightweight Digimatic Calipers that employ CFRP (Carbon Fiber Reinforced Plastics) in the beam and jaws.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



Technical Data

Accuracy: Refer to the list of specifications.

(excluding quantizing error)

Resolution: 0.01mm or .0005 "/0.01mm Material of jaws: Stainless Steel Hardened

Display: LCD

Scale type: ABSOLUTE electromagnetic induction linear

encoder

Max. response speed: Unlimited SR44 (1 pc), 938882, Battery:

for initial operational checks (standard accessory) Battery life: Approx. 5,000 hours in continuous use Dust/Water protection level: IP66 (IEC 60529)* Standard accessory: Jaw clamps (2 pcs.), 05GZA033 *This model is not waterproof type. Please wipe away the wet after use.

Functions

Zero-setting Data hold Offsetting Presetting Data output

Low-power and low-voltage alert Counting value composition error Automatic power on/off, inch/mm reading (inch/mm models)

Optional accessories

For details, refer to page D-39. 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

SPECIFICATIONS

Metric		
Order No.	Range*	Accuracy
552-150-10	0 - 450mm (20.1 - 470mm)	±0.06mm
552-151-10	0 - 600mm (20.1 - 620mm)	±0.06/11111
552-152-10	0 - 1000mm (20.1 - 1020mm)	±0.07mm
552-153-10	0 - 1500mm (20.1 - 1520mm)	±0.11mm
552-154-10	0 - 2000mm (20.1 - 2020mm)	±0.14mm

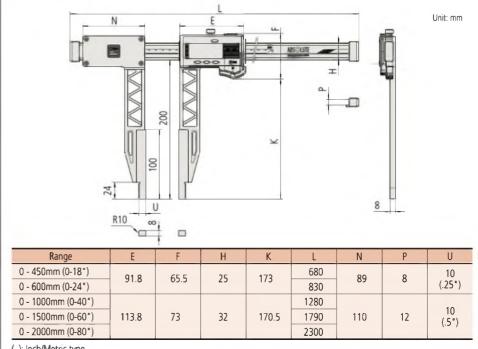
* (): Dimension in inside measurement

Inch/Metric

Order No.	Range*	Accuracy
552-160-10	0 - 18" (.504 - 18.5")	±.0025"
552-161-10	0 - 24" (.504 - 24.5")	±.0025
552-162-10	0 - 40" (1,004 - 40.5")	±.003"
552-163-10	0 - 60" (1.004 - 60.5")	±.0045"
552-164-10	0 - 80" (1.004 - 80.5")	±.0055"

^{* ():} Dimension in inside measurement

DIMENSIONS



(): Inch/Metric type



An industry standard in measuring tools

ABSOLUTE Coolant Proof Carbon Fiber Caliper SERIES 552 - with Ceramic Jaws

- IP66 Absolute Digital Caliper (Refer to page D-8 for a description of Absolute measurement.)
- Lightweight Digimatic Calipers that employ CFRP (Carbon Fiber Reinforced Plastics) in the beam and jaws.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.
- The zirconia-ceramic jaws make this caliper suitable for measuring moderately magnetic workpieces. However, since steel is used in the main unit, it may not be suitable for measuring strongly magnetic workpieces.



SPECIFICATIONS

M	atric	
11/	I CHILL	_

medie				
Order No.	Range*	Accuracy		
552-155-10	0 - 450mm (20.1 - 470mm)	+0.04mm		
552-156-10	0 - 600mm (20.1 - 620mm)	±0.0411111		

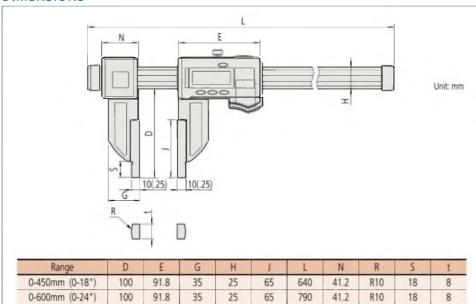
^{* ():} Dimension in inside measurement

le.	-h/	BAC	40	

Range*	Accuracy
0 - 18" (.504 - 18.5")	±.002"
0 - 24" (.504 - 24.5")	±.002
	0 - 18" (.504 - 18.5")

^{* ():} Dimension in inside measurement

DIMENSIONS



Mitutoyo

(): Inch/Metric type

ABSOLUTE

(Refer to page X for details.)



(Refer to page X for details.)



(Refer to page X for details.)

Technical Data

Accuracy: Refer to the list of specifications. (excluding quantizing error)
Resolution: 0.01mm or .0005 "/0.01mm

Material of jaws: Ceramic

I CD Display:

Scale type: ABSOLUTE electromagnetic induction linear

encoder

Max. response speed: Unlimited SR44 (1 pc), 938882, Battery:

for initial operational checks (standard accessory) Battery life: Approx. 5,000 hours in continuous use Dust/Water protection level: IP66 (IEC 60529)* Standard accessory. Jaw clamps (2 pcs.), 05GZA033 *This model is not waterproof type. Please wipe away the wet after use.

Functions

Zero-setting Data hold Offsetting Presetting Data output Low-power and low-voltage alert Counting value composition error Automatic power on/off, inch/mm reading (inch/mm models)

Optional accessories

For details, refer to page D-39 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

ABSOLUTE (Refer to page X for details.)



(Refer to page X for details.)



(Refer to page X for details.)

ABSOLUTE Coolant Proof Carbon Fiber Caliper SERIES 552 - with Interchangeable Jaws

- IP66 Absolute Digital Caliper (Refer to page D-8 for a description of Absolute measurement.)
- The range of applications can be expanded by using interchangeable jaws (optional).
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.
- Provided with preset function for setting a desired starting point, which allows direct readout of offset measurement.



552-182-10

552-182-10 with optional interchangeable jaws

Technical Data

Accuracy: Refer to the list of specifications. (excluding quantizing error) Resolution: 0.01mm or .0005 */0.01mm

Display: LCD

Scale type: ABSOLUTE electromagnetic induction linear

encoder

Max. response speed: Unlimited SR44 (1 pc), 938882,

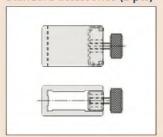
for initial operational checks (standard accessory) Battery life: Approx. 5,000 hours in continuous use Dust/Water protection level: IP66 (IEC 60529)* Standard accessory: Jaw clamps (2 pcs.), 05GZA033 * Although these models are IP66 rated, care should be

taken to dry tool after use.

Functions

Zero-setting Data hold Offsetting Presetting Data output Low-power and low-voltage alert Counting value composition error Automatic power on/off, inch/mm reading (inch/mm models)

Standard accessories (2 pcs)



Jaw clamps: No.05GZA033

Optional accessories

For details, refer to page D-39 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

SPECIFICATIONS

Range	Accuracy
0 - 450mm	±0.04mm
0 - 600mm	±0.04111111
0 - 1000mm	±0.05mm
0 - 1500mm	±0.09mm
0 - 2000mm	±0.12mm
	0 - 450mm 0 - 600mm 0 - 1000mm 0 - 1500mm

Inch/Metric		
Order No.	Range	Accuracy
552-191-10	0 - 18"	
552-192-10	0 - 24"	± 002
552-193-10	0 - 40 "	
552-194-10	0 - 60"	±.004"
552-195-10	0 - 80"	±.005 "

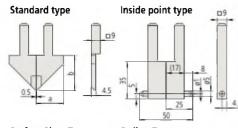


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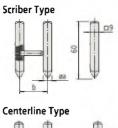
Optional accessories

Interchangeable jaws

SPECIFICATIONS

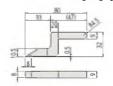


Surface Plate Type



Centerline Type

Scriber for height gages



andard Type					
Order No.	Components				

Oldel Ho.	Components	u		
07CZA056	Right (07CAA044), Left (07CAA045)	28mm (1.1")	30mm (1.2")	
* 1 cot				

Inside Point Type

Order No.	Components	a	b
07CZA058	07CZA041 x 2pcs.	25mm	50mm
07CZA059	07CZA048 x 2pcs.	1"	2"

Scriber Type

Order No.	Components	a	b
07CZA055	Right (07CZA042), Left (07CZA043)	8mm	30mm
07CZA061	Right (07CZA042), Left (07CZA049)	031 "	1.2"

Surface Plate Type

Order No.	a	b	
07CZA044	90mm (3.5*)	28mm (1.1")	

Centerline Type

	Order No.	Components	a	b
-	07CZA057	07CZA039 x 2pcs.	30mm	30mm
1	07CZA060	07CZA047 x 2pcs.	1.2"	1.2"

Note: Entering the appropriate offset value enables the display to indicate the correct measurement value inscribed on the jaws, which should be installed so that this inscription is visible from the display side of the caliper.

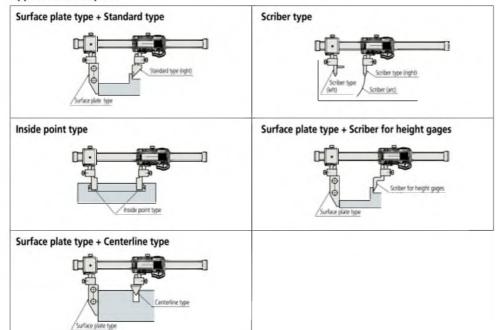
Scriber for height gages

 ·
Order No.
Order No.
07GZA000

Туре	Applicable calipers	Range	Accuracy when attached to the caliber	
	552-181-10 552-191-10	0 - 450mm (0-18")	±0.06mm (±.0025°)	
	552-182-10 (552-192-10)	0 - 600mm (0-24")		
Standard type	552-183-10 (552-193-10)	0 - 1000mm (0-40°)	±0.07mm (±.0030°)	
	552-184-10 (552-194-10)	0 - 1500mm (0-60")	±0.11mm(±.0045")	
	552-185-10 552-195-10)	0 - 2000mm (0-80")	±0.14mm (±.0055")	
	552-181-10 (552-191-10)	Inside: 50.1-500mm (2.004-20")		
		Outside: 0 - 450mm (0-18")	±0.09mm(±.0035")	
	552-182-10 (552-192-10)	Inside: 50.1-650mm (2.004-26")		
		Outside: 0 - 600mm(0-24")		
Inside point type	552-183-10 (552-193-10)	Inside: 50.1-1050mm (2.004-42°)	±0.10mm (±.0040°)	
		Outside: 0 - 1000mm (0-40 °)		
	552-184-10 (552-194-10)	Inside S0.1-1550mm (2.004-62°)	±0.14mm (±.0055°)	
		Outside: 0 - 1500mm (0-60 °)	,	
	552-185-10 (552-195-10)	Inside: 50.1-2050mm(2.004-82")	±0.17mm (±.0070°)	
		Outside: 0 - 2000mm(0-80*)		
	552-181-10 (552-191-10)	30.1 - 480mm (1.204-19.2")	±0.08mm (±.0030°)	
	552-182-10 552-192-10)	30.1 - 630mm (1.204-25.2")		
Centerline type	552-183-10 (552-193-10)	30.1 - 1030mmm (1.204-41.2")	±0.09mm (±.0035°)	
	552-184-10 (552-194-10)	30.1 - 1530mm (1.204-61.2")	±0.13mm(±.0055")	
	552-185-10 (552-195-10)	30.1 - 2030mm (1.204-81.2°)	±0.16mm (±.0065°)	
	552-181-10 (552-191-10)	30 - 480mm (1.2-19.2")	±0.10mm (±.0040")	
	552-182-10 (552-192-10)	30 - 630mm (1.2-25.2*)		
Scriber type	552-183-10 552-193-10)	30 - 1030mm (1.2-41.2")	±0.11mm (±.0045")	
	552-184-10 552-194-10)	30 - 1530mm (1.2-61.2 ")	±0.15mm(±.0060")	
	552-185-10 552-195-10)	30 - 2030mm (1_2-81.2")	±0.18mm (±.0070")	
Curface alata	552-181-10 (552-191-10)	0 - 450mm (0-17.7°)	±0.10mm(±.0040")	
Surface plate	552-182-10 (552-192-10)	0 - 600mm (0-23.7°)		
Scriber type for	552-183-10 (552-193-10)	0 - 1000mm (0-39.4")	±0.11mm (±.0045")	
height gages	552-184-10 (552-194-10)	0 - 1500mm (0-59.4")	±0.15mm (±.0060")	
	552-185-10 552-195-10	0 - 2000mm (0-79.6")	±0.18mm (±.0070°)	
	552-181-10 (552-191-10)	Inside: 25.1 - 475mm (1.004-191)		
	332 101 10 (332 131 10)	Outside: 0 - 450mm (1-18")	±0.12mm (±.0050")	
	552-182-10 (552-192-10)	Inside: 25.1 - 625mm (1.004-25")		
Surface plate		Outside: 0 - 600mm (1-24")		
type	552-183-10 (552-193-10)	Inside: 25.1 - 1025mm (1.004-41*)	±0.13mm (±.0055°)	
Inside point type		Outside: 0 - 1000mm (1-40 ")	20	
made point type	552-184-10 (552-194-10)	Inside: 25.1 - 1525mm (1.004-62*)	±0.17mm (±.0070")	
	332 .07 10 (332 134 10)	Outside: 0 - 1500mm (1-60")	20//// (2.00/0)	
	552-185-10 (552-195-10)	Inside: 25.1 - 2025mm (1.004-81*)	±0.20mm (±.0080")	
		Outside: 0 - 2000mm (1-80")	20.201111 (2.0000)	
	552-181-10 (552-191-10)	15 - 465mm (0.6-18.6°)	±0.11mm (±.0045")	
Surface plate	552-182-10 (552-192-10)	15 - 615mm (0.6-24.6")		
type +	552-183-10 552-193-10)	15 - 1015mm (0.6-40.6")	±0.12mm (±.0050")	
Centerline type	552-184-10 552-194-10)	15 - 1515mm (0.6-60.6")	±0.16mm (±.0065")	
	552-185-10 (552-195-10)	15 - 2015mm (0.6-80.6")	±0.19mm (±.0075")	

(): Inch/Metric models

Application examples





Vernier Caliper SERIES 160 — with Nib Style Jaws and Fine Adjustment

- Inside and outside measurements can be read directly from the upper and lower vernier scales.
- The jaws have radiused measuring faces for accurate inside diameter (ID) measurement.
- With fine adjustment (except for 160-130/131/132/133/134).











SPECIFICATIONS

Metric	with inside measureme	ent vernier scale	•	
Order No.	Range*	Accuracy	Graduations	Remarks
160-130	0 (20.1) - 450mm	.0.10mm		
160-131	0 (20.1) - 600mm	±0.10mm	TUMM	
160-132	0 (20.1) - 1000mm		without fine adjustment	
160-133	0 (20.1) - 1500mm	±0.22mm	⊣	
160-134	0 (20.1) - 2000mm	±0.28mm		

* (): Minimum dimension in ID measurement

Metric, with inside measurement vernier scale					
	Order No.	Range*	Accuracy	Graduations	Remarks
	160-127	0 (10.1) - 300mm	±0.04mm		
	160-128	0 (20.1) - 450mm	±0.05mm		
	160-101	0 (20.1) - 600mm	±0.05mm	±0.07mm 0.02mm	with fine adjustment
	160-104	0 (20.1) - 1000mm	±0.07mm		with the adjustment
	160-110	0 (20.1) - 1500mm	±0.1mm		
	160-113	0 (20.1) - 2000mm	±0.12mm		

^{* ():} Minimum dimension in ID measurement

Metric/Inch	with metric/inch doub	le scale		
Order No.	Range*	Accuracy	Graduations	Remarks
160-150	0 (10.1) - 300mm	±0.04mm		+10mm/.394" to reading in inside measurement
160-151	0 (20.1) - 450mm	±0.05mm		
160-153	0 (20.1) - 600mm	±0.05mm	0.02mm/.001"	
160-155	0 (20.1) - 1000mm	±0.07mm		+20mm/.787" to reading in inside measurement
160-157	0 (20.1) - 1500mm	±0.1mm		
160-159	0 (20.1) - 2000mm	±0.12mm		

^{* ():} Minimum dimension in ID measurement

Inch	with inside measuren	nent vernier scal	ē	
Order No.	Range*	Accuracy	Graduations	Remarks
160-124	0 (.304") - 12"	± 0015"		
160-116	0 (.504") - 18"	±.002"		
160-102	0 (.504") - 24"	1.002	.001"	
160-105	0 (1.004") - 40"	±.003"	.001	_
160-111	0 (1.004") - 60"	±.004"		
160-114	0 (1.004") - 80"	± 005"		

^{* ():} Minimum dimension in ID measurement

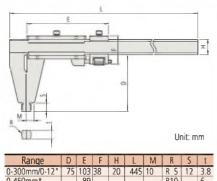
Inch/Metric	, with inch/metric doul	ble scale		
Order No.	Range*	Accuracy	Graduations	Remarks
160-125	0 (.304") - 12"	±.0015"		+.3"/7.62mm to reading in inside measurement
160-119	0 (.504") - 18"	±.002"		+.5"/12.7mm to reading in inside measurement
160-103	0 (.504") - 24"	±.002"	.001"/0.02mm	4.5 712.711111 to reading in his de measurement
160-106	0 (1.004") - 40"	±.003"	.001 /0.0211111	
160-112	0 (1.004") - 60"	±.004"		+1"/25.4mm to reading in inside measurement
160-115	0 (1.004") - 80"	±.005*		







Radiused jaws for accurate ID measurement



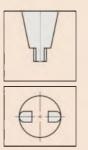
Range	D	E	F	Н	L	M	R	5	t
0-300mm/0-12"	75	103	38	20	445	10	R 5	12	3.8
0-450mm*	100	89	_	25	630	14.8	R10	18	6
0-450mm/0-18"	100	112	51	25	030	14.0	R10	10	6
0-600mm*	100	89	-	25	790	14.8	R10	18	6
0-600mm/0-24"	100	112	51	23	700	14.0	R10	10	
0-1000mm*	140	111	_	32	1240	17	R10	24	8
0-1000mm/0-40"	140	150	62.5	32	1240	17	R10	24	8
0-1500mm*	180	129	_	32	1800	19	R10	30	8
0-1500mm/0-60"	100	170	62.5	32	1000	17	R10	30	8
0-2000mm*	180	129	_	40	2300	22	R10	30	12
0-2000mm/0-80"	100	180	78	40	2300	23	R10	30	12
*: without fine ac	ljustn	nent							

An industry standard in measuring tools

Long Jaw Vernier Caliper SERIES 534

- Long jaws for measuring hard-to-reach workpiece features.
- Inside and outside measurements can be read directly from the upper and lower vernier scales.





Round jaws for accurate ID measurement

SPECIFICATIONS

Metric	with inside measurem	nent vernier scal	e	
Order No.	Range*	Accuracy	Graduation	Remarks
534-109	0 (10.1) - 300mm	±0.07mm	0.05mm	without fine adjustment
534-110	0 (20.1) - 500mm	±0.13mm	U.USIRIII	without line adjustment

^{* ():} Minimum dimension in inside measurement

Metric/Inch, with metric/inch double scale				
Order No.	Range*	Accuracy	Graduation	Remarks
534-101	0 (10.1) - 300mm	±0.07mm	0.05mm/ 1/128"	+10mm/.394" to reading in inside measurement
534-105	0 (10.1) - 300111111	±0.04mm	0.02mm/.001"	without fine adjustment
534-102	0 (20.1) - 500mm	±0.13mm	0.05mm/ 1/128"	
534-106	0 (20.1) - 300111111	±0.06mm	0.02mm/.001"	
534-103	0 (20.1) - 750mm	±0.16mm	0.05mm/ 1/128"	+20mm/.787" to reading in inside measurement
534-107	0 (20.1) - 750111111	±0.08mm	0.02mm/.001"	without fine adjustment
534-104	0 (20.1) - 1000mm	±0.20mm	0.05mm/ 1/128"	
534-108	0 (20.1) - 1000111111	±0.10mm	0.02mm/.001"	

^{* ():} Minimum dimension in inside measurement

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Radiused jaws for accurate ID measurement

Long Jaw Vernier Caliper SERIES 534

- Long jaws for measuring hard-to-reach workpiece features.
- Inside and outside measurements can be read directly from the upper and lower vernier scales.



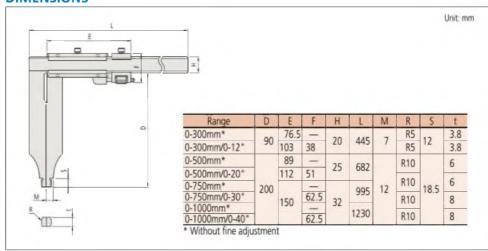
SPECIFICATIONS

Metric	with inside measurem	ent vernier sca	le	
Order No.	Range*	Accuracy	Graduation	Remarks
534-113	0 (10.1) - 300mm	±0.04mm		
534-114	0 (20.1) - 500mm	±0.06mm	0.02mm	with fine adjustment
534-115	0 (20.1) - 750mm	±0.08mm	0.02111111	with line adjustment
534-116	0 (20.1) - 1000mm	±0.10mm		

^{* ():} Minimum dimension in inside measurement

Inch		with inside measuren	nent vernier scal	e	
Orde	r No.	Range*	Accuracy	Graduation	Remarks
534	-117	0 (.304") - 12"	±.002"		
534	-118	0 (.804") - 20"	±.003"	.001"	with fine adjustment
534	-119	0 (.804") - 30"	±.004*	.001	with line adjustment
534	-120	0 (.804") - 40"	I.004		

^{*():} Minimum dimension in inside measurement



An industry standard in measuring tools

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.)
- 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			

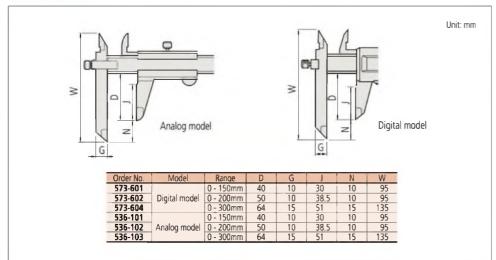
Without thumb rol	ler
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Metric	Analog model			
Order No.	Range	Accuracy		
536-101	0 - 150mm	±0.05mm		
536-102	0 - 200mm	±0.05mm		
536-103	0 - 300mm	±0.08mm		

Inch/Metric Digital model

	- 9.12.	
Order No.	Range	Accuracy
573-701	0 - 6*	±.001"
573-702	0 - 8"	±.001"
573-704	0 - 12"	±.0015°

DIMENSIONS



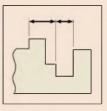


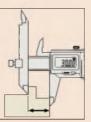
(Refer to page X for details.)



(Refer to page X 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, for initial operational checks (standard accessory)

Battery life*: Approx. 3 years under normal use (1 year: 300mm model)

Dust/Water protection level*: IP67 (IEC 60529)***

* 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 D-39. **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



(Refer to page X for details.)



(Refer to page X for details.)





Technical Data

Refer to the list of specifications. Accuracy:

(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 SR44 (1 pc), 938882, Battery:

for initial operational checks (standard accessory)

Battery life*: Approx. 3 years under normal use

(1 year: 310mm model)

Dust/Water protection level*: IP67 (IEC 60529)***

* 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 D-39. 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)

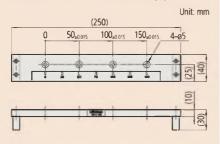
Connecting cables for U-WAVE-T

02AZD790A: SPC cable for U-WAVE with data button

(160mm)

02AZE140A: SPC cable for footswitch

05FAJ735: Centerline caliper inspection gage



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

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



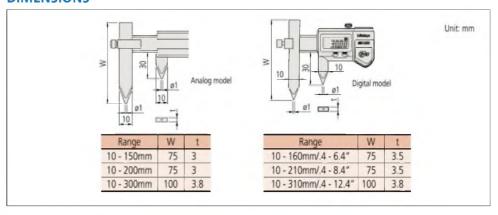
SPECIFICATIONS

Metric	Digital model	
Order No.	Range	Accuracy
573-605	10.1 - 160mm	±0.03mm
573-615*	10.1 - 160mm	±0.03mm
573-606	10.1 - 210mm	±0.03mm
573-616*	10.1 - 210mm	±0.03mm
573-608	10.1 - 310mm	±0.04mm
573-618*	10.1 - 310mm	±0.04mm

* Without thumb roller

Metric Analog model		
Order No.	Range	Accuracy
536-105	10.1 - 150mm	±0.05mm
536-106	10.1 - 200mm	±0.05mm
536-107	10.1 - 300mm	±0.08mm

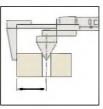
Inch/Metric Digital model		
Order No.	Range	Accuracy
573-705	.404 - 6.4 "	±.0015"
573-706	.404 - 8.4 "	±.0015"
573-708	.404 - 12.4"	±.0015"



An industry standard in measuring tools

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

- Specially designed to measure hole Centerto-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

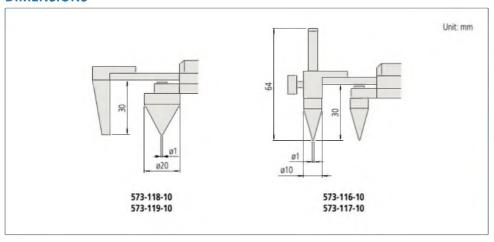


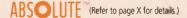
SPECIFICATIONS

Metric Edge-to-center distance type		
Order No.	Range	Accuracy
573-118-10	10.1 - 200mm	±0.10mm
573-119-10	10.1 - 300mm	±0.15mm

Metric Center-to-center distance type		
Order No.	Range	Accuracy
573-116-10	10.1 - 200mm	±0.10mm
573-117-10	10.1 - 300mm	±0.15mm

DIMENSIONS









Technical Data

Accuracy: Refer to the list of specifications. (excluding quantizing error)
Resolution: 0.01mm or .0005"/0.01mm

Scale type: ABSOLUTE electrostatic capacity linear encoder

Max. response speed: Unlimited SR44 (1 pc), 938882,

for initial operational checks (standard accessory)

Battery life: Approx. 3.5 years under normal use

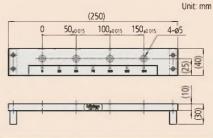
Optional accessories

For details, refer to page D-39. **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









(Refer to page X for details.)



(Refer to page X for details.)





Technical Data

Refer to the list of specifications. Accuracy:

(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 SR44 (1 pc), 938882, Battery:

for initial operational checks (standard accessory)

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

* 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 D-39. 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

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.)
- SPC output models allow integration into statistical process control and measurement systems. Refer to page A-3.



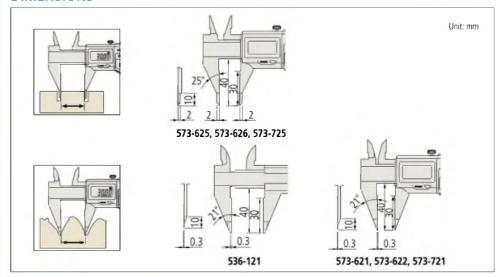
SPECIFICATIONS

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 " 0 - 6" 573-725 + 001*





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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
- 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.)
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



SPECIFICATIONS

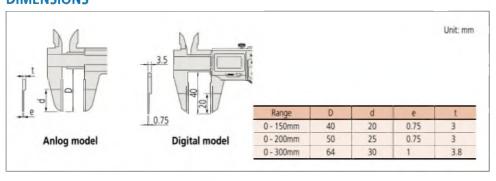
Metric	Digital model	
Order No.	Range	Accuracy
573-634	0 - 150mm	±0.02mm
573-635*	0 - 150mm	±0.02mm

 without thumb ro 	ller
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Metric			
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



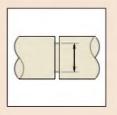


(Refer to page X for details.)



(Refer to page X for details.)





Technical Data

Refer to the list of specifications. Accuracy:

(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,

for initial operational checks (standard accessory)

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

* 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 D-39. 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





(Refer to page X for details.)



(Refer to page X for details.)

ID 2011207400



Technical Data

Accuracy:

Accuracy: Refer to the list of specifications. (excluding quantizing error for digital models)
Resolution*: 0.01mm or .00005*/0.01mm

Graduation**: 0.05mm LCD Display*:

Scale type*: ABSOLUTE electromagnetic induction linear

encoder

Max. response speed*: Unlimited Battery: **SR44** (1 pc), **938882**,

for initial operational checks (standard accessory)
Battery life*: Approx. 3 years under normal use Dust/Water protection level*: IP67 (IEC 60529)***
* Digital models ** Analog models

This model is not waterproof type

Therefore, rustproofing shall be applied after use.

Optional accessories

For details, refer to page D-39. 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

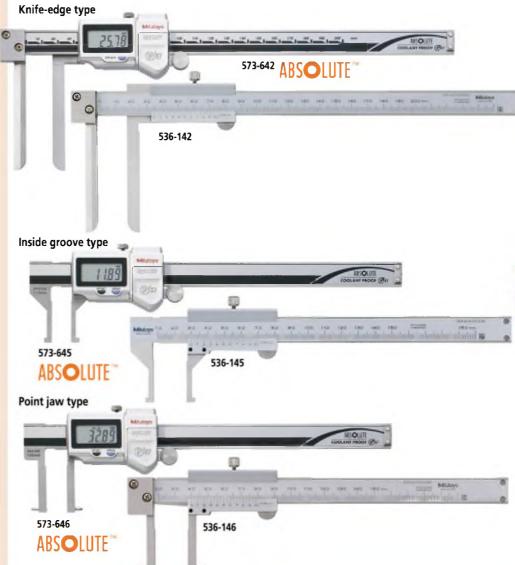


ABSOLUTE Inside Caliper SERIES 573, 536 — Knife-edge/Inside Groove/Point Jaw Type

• 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.)

 Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



SPECIFICATIONS

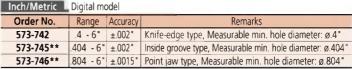
Metric	Digital model		
Order No.	Range	Accuracy	Remarks
573-642	10 - 200mm	±0.05mm	Knife-edge type, Measurable min. hole diameter: ø10mm
573-643*	10 - 200mm	±0.05mm	Knife-edge type, Measurable min. hole diameter: ø10mm
573-645**	10.1 - 160mm	±0.05mm	Inside groove type, Measurable min. hole diameter: ø10.1mm
573-647*	10.1 - 160mm	±0.05mm	Inside groove type, Measurable min. hole diameter: ø10.1mm
573-646**	20.1 - 170mm	±0.03mm	Point jaw type, Measurable min. hole diameter: ø20.1mm
573-648*	20.1 - 170mm	±0.03mm	Point jaw type, Measurable min. hole diameter: ø20.1mm
A 241 4 41	1 11		

^{*} without thumb roller

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

-	-	-	•	-	-
1.7.	м	п.	27	э	
18.7	14	м	ш	-	

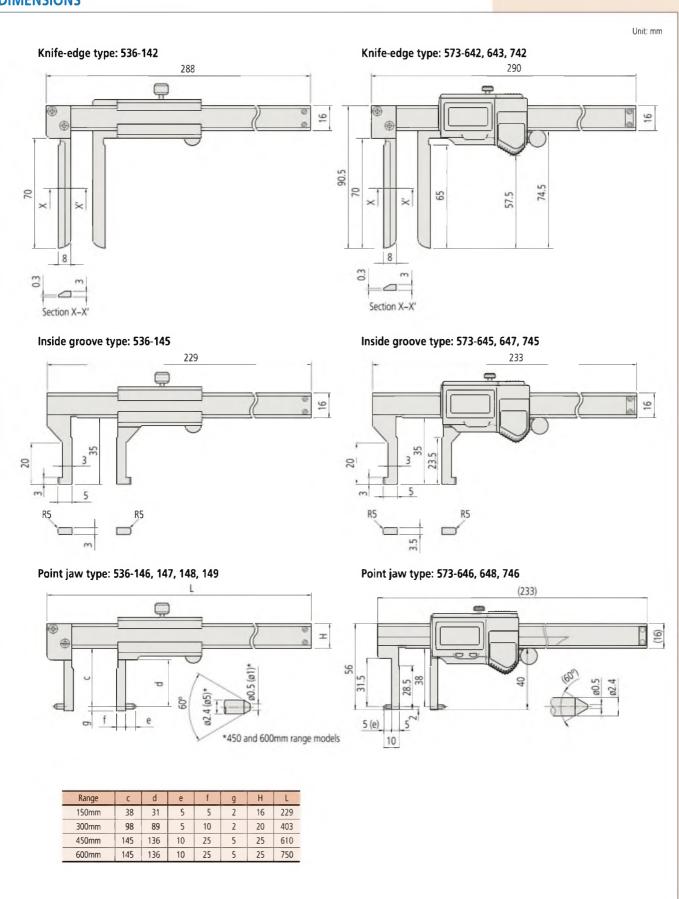
Metric			
Order No.	Range	Accuracy	Remarks
536-142	10 - 200mm	±0.12mm	Knife-edge type, Measurable min. hole diameter: ø10.1mm
536-145	10.1 - 150mm	±0.05mm	Inside groove type, Measurable min. hole diameter: ø10.1mm
536-146	20.1 - 150mm	±0.05mm	Point jaw type, Measurable min. hole diameter: ø20.1mm
536-147	30.1 - 300mm	±0.08mm	Point jaw type, Measurable min. hole diameter: ø30.1mm
536-148	70.1 - 450mm	±0.10mm	Point jaw type, Measurable min. hole diameter: ø70.1mm
536-149	70.1 - 600mm	±0.12mm	Point jaw type, Measurable min. hole diameter: ø70.1mm



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



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Accuracy

±.0015"

±.0015*

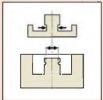


(Refer to page X for details.)



(Refer to page X for details.)





Technical Data

Accuracy: Refer to the list of specifications.

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,

for initial operational checks (standard accessory) Battery life*: Approx. 3 years under normal use Dust/Water protection level*: IP67 (IEC 60529)***

* Digital models ** Analog models

*** This model is not waterproof type. Therefore, rustproofing shall be applied after use

Optional accessories

For details, refer to page D-39. 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

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.)
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



Inch/Metric

573-751

573-752*

* Point type

Order No

Digital model

Range

0-6"

0-6"

SPECIFICATIONS

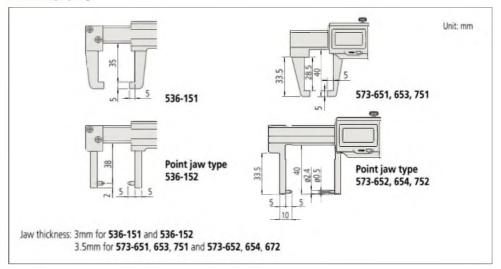
Metric Digital model				
Order No.	Range	Accuracy		
573-651	0 - 150mm	±0.03mm		
573-652*	0 - 150mm	±0.03mm		
573-653**	0 - 150mm	±0.03mm		
573-654***	0 - 150mm	±0.03mm		
4.0 1.11				

*	Doint	type

^{**} Without thumb roller

Metric					
Order No.	Range	Accuracy			
536-151	0 - 150mm	±0.05mm			
536-152*	0 - 150mm	±0.05mm			

^{*} Point type





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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.)
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.



SPECIFICATIONS

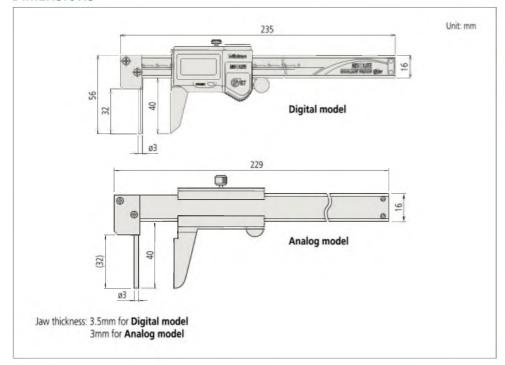
Metric	Digital model		
Order No.	Range	Accuracy	
573-661	0 - 150mm	±0.05mm	
573-662*	0 - 150mm	±0.05mm	

×	without	thumb	roller

Without thamb folici				
Metric Analog model				
Order No. Range Accuracy				
536-161	0 - 150mm	±0.05mm		

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

DIMENSIONS





(Refer to page X for details.)



(Refer to page X 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: 5R44 (1 pc), 938882,

for initial operational checks (standard accessory)

Battery life*: Approx. 3 years under normal use
DustWater protection level*: IP67 (IEC 60529)***

* Digital models ** Analog models

*** This model is not waterproof type.

Therefore, rustproofing shall be applied after use.

Optional accessories

For details, refer to page D-39.
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

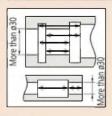
(160mm) **02AZE140A**: SPC cable for footswitch



Technical DataAccuracy: ±0.03mm Graduation: 0.02mm







Technical DataAccuracy: ±0.05mm Graduation: 0.05mm



Hook Type Vernier Caliper SERIES 536

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

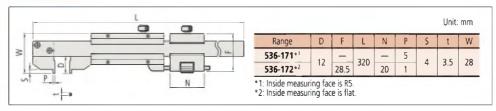


SPECIFICATIONS

Metric —				
Order No.	Range*	Accuracy	Remarks	
536-171	0 - 200mm (10.1 - 200mm)	±0.03mm	_	
536-172	0 - 200mm (2.1 - 200mm)	±0.03mm	with fine adjustment	

^{* ():} Dimension in inside measurement

DIMENSIONS



Swivel Vernier Caliper SERIES 536 — Moving Jaw type

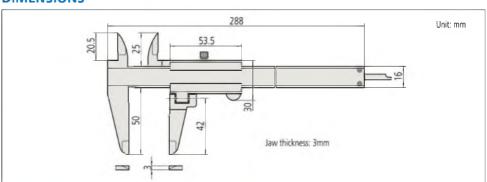
- The moving jaw can be rotated to measure sectioned shafts.
- Allows step measurement.



SPECIFICATIONS

Metric			
Order No.	Range	Accuracy	Remarks
536-212	0 - 200mm	±0.05mm	with depth bar

* with depth bar





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Absolute Low Force Caliper SERIES 573

- ABSOLUTE electromagnetic induction linear encoder system is introduced.
- . 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
- Allows fine feeding easily by using thumb
- Displacement of main scale jaw is 0.3mm.

- Measuring force: 0.49N to 0.98N (0.5gf to 1.0qf)
- Absolute type. (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.



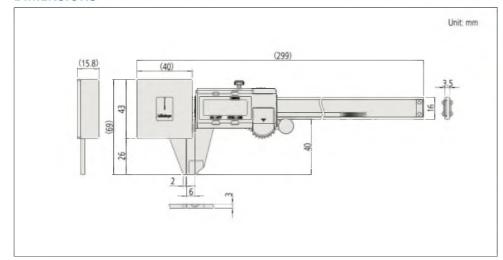
SPECIFICATIONS

Metric		
Order No.	Range	Accuracy*
573-191-30	0 - 180mm	±0.05mm

* Excluding quantizing error. Note) Dedicated for outside measurement (depth bar is not fitted)

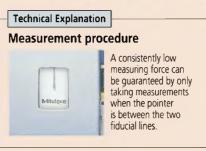
Inch/Metric			
Order No.	Range	Accuracy*	İ
573-291-20	0 - 7*	±.002*	

DIMENSIONS



ABSOLUTE (Refer to page X for details.)





Technical Data

Accuracy: Refer to the list of specifications. (excluding quantizing error) 0.01mm or .0005*/0.01mm Resolution:

Display: LCD

Scale type*: ABSOLUTE electromagnetic inductive linear

encoder

Jaw retraction: 0.3mm Max. response speed: Unlimited Battery: SR44 (1 pc), 938882,

for initial operational checks (standard accessory) Battery life: Approx. 3.5 years under normal use

Optional accessories

For details, refer to page D-39. 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™ (Refer to page X 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 electromagnetic inductive linear

encoder Jaw retraction: 2mm

Max. response speed: Unlimited

Battery: SR44 (1 pc), 938882

for initial operational checks (standard accessory)

Battery life: Approx. 3.5 years under normal use

Optional accessories

For details, refer to page D-39. **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

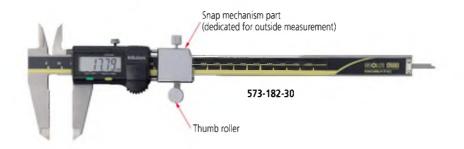
02AZD790C: SPC cable for U-WAVE with data button

(160mm)

02AZE140C: SPC cable for footswitch

Absolute Snap Caliper SERIES 573

- ABSOLUTE electromagnetic induction linear encoder system is introduced.
- 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
- Absolute type. (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.

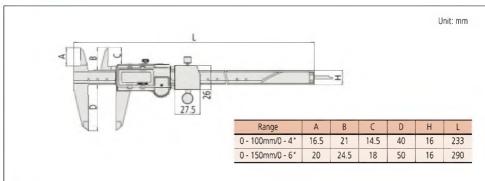


SPECIFICATIONS

Metric		
Order No.	Range	Accuracy*
573-181-30	0 - 100mm	±0.02mm
573-182-30	0 - 150mm	±0.02mm

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

Note) Dedicated for outside measurement (depth bar is not fitted)





^{*} Excluding quantizing error.