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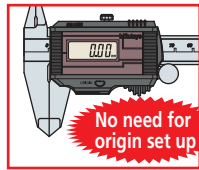
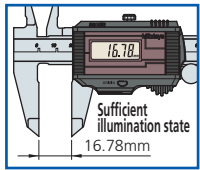
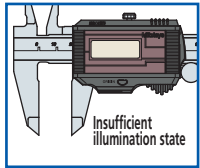
**Digimatic Caliper****Digimatic Height Gages****Linear Height****Depth Gages****SuperCaliper****ABSOLUTE Coolant Proof Caliper****ABSOLUTE Digimatic Caliper****ABSOLUTE Digimatic Offset Caliper****Digimatic Height Gage**

Super Caliper-Solar Powered

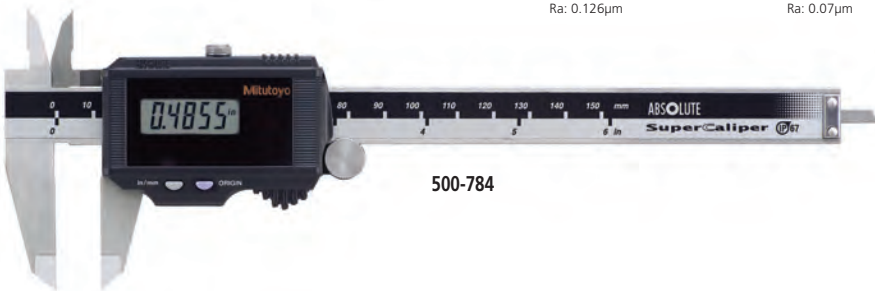
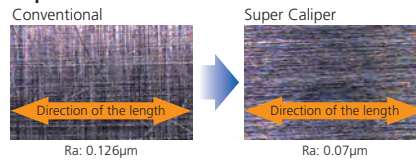
SERIES 500 — No battery or origin reset needed for IP67 Digital Caliper

FEATURES

- With no annoying origin restoration necessary, a measurement can be started any time and there is no restriction on operating speed.
- World's unique* solar-powered Super Caliper that is eco-friendly with no battery.
*According to Mitutoyo investigation in January, 2005
- The impact resistance of the display unit has been increased for improved usability in workshop conditions.
- IP67 protection assures waterproof reliability.
- This Super Caliper uses components that do not contain harmful substances and is compatible with RoHS Directives.
- Supplied in fitted plastic case.



Improvement in surface finish of beam



SPECIFICATIONS

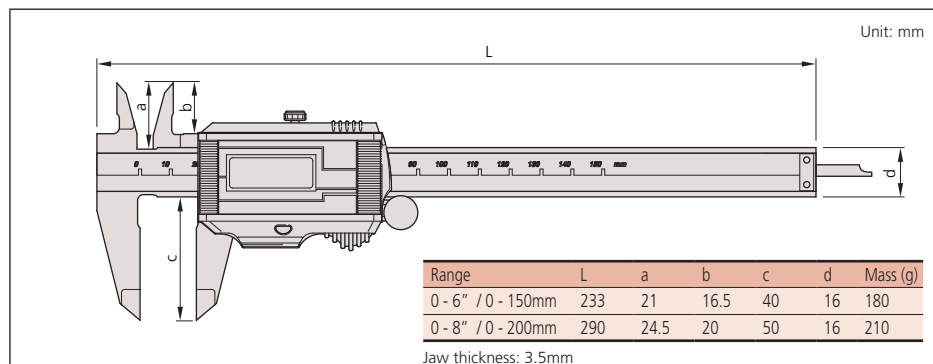
Metric			
Range	Order No.	Accuracy	Resolution
0 - 150mm	500-776	±0.02mm	0.01mm
0 - 150mm	500-774*	±0.02mm	0.01mm
0 - 200mm	500-777	±0.02mm	0.01mm
0 - 200mm	500-775*	±0.02mm	0.01mm

*Without SPC data output

Inch/Metric			
Range	Order No.	Accuracy	Resolution
0 - 6" / 0 - 150mm	500-786	±.001"	.0005" / 0.01mm
0 - 6" / 0 - 150mm	500-784*	±.001"	.0005" / 0.01mm
0 - 8" / 0 - 200mm	500-787	±.001"	.0005" / 0.01mm
0 - 8" / 0 - 200mm	500-785*	±.001"	.0005" / 0.01mm

*Without SPC data output

DIMENSIONS AND MASS



ABSOLUTE®
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SPC



IP67



Technical Data

Accuracy: Refer to the list of specifications
Resolution: .0005" / 0.01mm or 0.01mm
Repeatability: .0005" / 0.01mm
Display: LCD
Length standard: ABSOLUTE electromagnetic induction linear encoder
Max. response speed: Unlimited
Battery: Solar battery*
Dust/Water protection level: IP67
*Can be used continuously above 60 lux ambient illumination.

Function

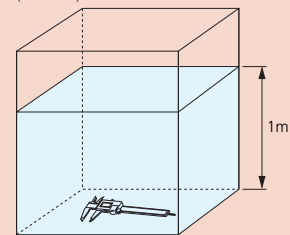
Origin-set, inch/mm conversion (on inch/metric models only)
Alarm: Counting value composition error

Optional Accessories

05CZA624: SPC cable with data switch (40" / 1m)
05CZA625: SPC cable with data switch (80" / 2m)

IP67 protection level

Level 6: Dust-tight
No ingress of dust.
Protected against the effects of temporary immersion in water.
Level 7: Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed 1 meter in water under standardized conditions of pressure and time (30 min.).



About the charge function (Super Caliper)

The minimum illumination required in the uncharged state is 60 lux. As shown in the table 'JIS Z 9110 Artificial Illumination Intensity Standard', this Super Caliper can be used without problems in a normal work environment.

The charge function allows the operator to use this Super Caliper without interrupting work even if the ambient illumination is temporarily insufficient.

- In the fully charged state this Super Caliper can operate for approximately an hour in an environment of 50lux illumination (less than the minimum necessary illumination intensity).
- The time necessary for full charge differs, depending on the charging conditions. If this Super Caliper is left unused in an illumination of 500 lux (usual for manufacturing environments), it takes approximately one hour to reach full charge.

ABSOLUTE Solar Caliper

SERIES 500 — No battery or origin reset needed

Mitutoyo's Absolute Solar Digimatic Caliper retains its origin point even the display turns off for the entire life of the caliper. At 60 Lux and up the ABSOLUTE solar caliper is turned on ready to start measurement.

FEATURES

- No more repeated zero setting caused by low light intensity.
- Hard-coated solar panel for increased durability.
- No fear for overspeed errors.
- With thumb roller.
- Supplied in fitted plastic case.



Technical Data

Accuracy: Refer to the list of specifications
 Resolution: .0005"/0.01mm or 0.01mm
 Repeatability: .0005" / 0.01mm
 Display: LCD
 Length standard: ABSOLUTE electrostatic capacitance type linear encoder
 Max. response speed: Unlimited
 Battery: Solar battery*
 *Can be used continuously above 60 lux ambient illumination.

Function

Origin-set, Data hold, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Counting value composition error

Optional Accessories

959143: Data hold unit (SPC output model only)
959149: SPC cable with data switch (40" / 1m)
959150: SPC cable with data switch (80" / 2m)

SPECIFICATIONS

Metric

Range	Order No.	Accuracy	Resolution	Remarks
0 - 100mm	500-443	±0.02mm	0.01mm	ø1.9mm round depth bar
0 - 100mm	500-453*	±0.02mm	0.01mm	ø1.9mm round depth bar
0 - 150mm	500-444	±0.02mm	0.01mm	
0 - 150mm	500-454*	±0.02mm	0.01mm	
0 - 200mm	500-445	±0.02mm	0.01mm	
0 - 200mm	500-455*	±0.02mm	0.01mm	

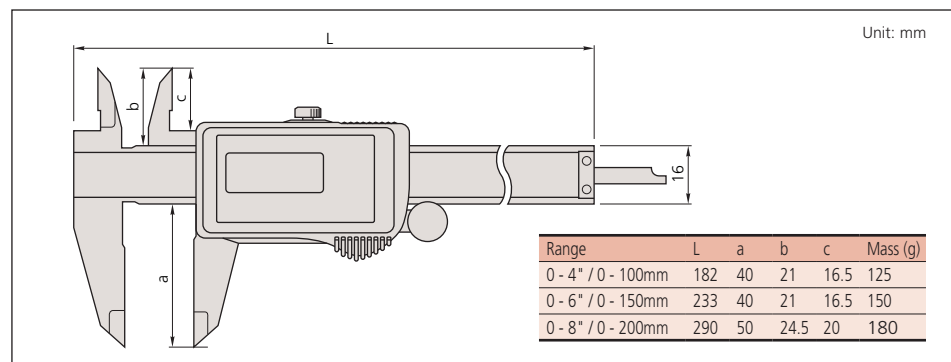
*without SPC data output

Inch/Metric

Range	Order No.	Accuracy	Resolution	Remarks
0 - 4" / 0 - 100mm	500-463	±.001"	.0005" / 0.01mm	.075" round depth bar
0 - 4" / 0 - 100mm	500-473*	±.001"	.0005" / 0.01mm	.075" round depth bar
0 - 6" / 0 - 150mm	500-464	±.001"	.0005" / 0.01mm	
0 - 6" / 0 - 150mm	500-474*	±.001"	.0005" / 0.01mm	
0 - 8" / 0 - 200mm	500-465	±.001"	.0005" / 0.01mm	
0 - 8" / 0 - 200mm	500-475*	±.001"	.0005" / 0.01mm	

*without SPC data output

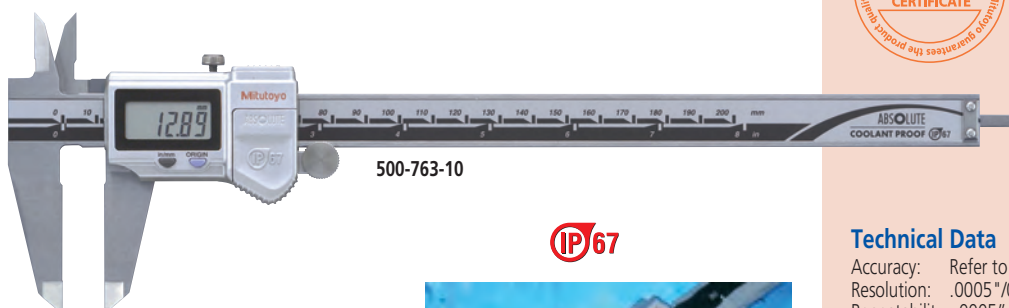
DIMENSIONS AND MASS



SERIES 500 — with Dust/Water Protection Conforming to IP67 Level

- Can be used in workshop conditions exposed to coolant, water, dust or oil.
- Easy to use - no need to wipe or clean the scale.
- Advanced design styling.

- Incorporates absolute measurement system.
- Automatic power-on/off.
- Data output function.
- With thumb roller.
- Supplied in fitted plastic case.



The diagram illustrates the process of resetting the digital depth gauge. It consists of three sequential panels connected by blue arrows. In the first panel, the gauge is shown with a blank display and a red oval labeled "Power OFF" below it. In the second panel, the display shows "16.38" and a red oval labeled "Power ON" below it. In the third panel, the display shows "0.00" and a red oval labeled "No origin resetting" below it.

[illegible]

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

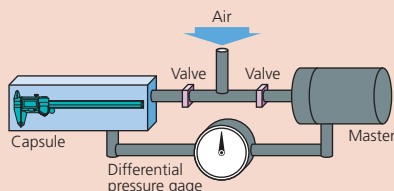
05CZA624: SPC cable with data switch (40" / 1m)
05CZA625: SPC cable with data switch (80" / 2m)



Measurement data output function is available with a water-resistant SPC cable.

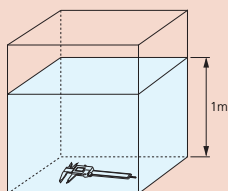
Air leakage detection system used for water-proof testing

Generally, air leakage tests are performed to evaluate water resistance. Testing begins by placing a measuring tool into the capsule. Next, air with equivalent pressure is supplied to the capsule and the master, then the valves are closed. If none of the air in the capsule seeps into the measuring tool, the capsule's air pressure will remain equal to that in the master, and the differential pressure gage will continue to point to the center. However, if some air does seep into the measuring tool, it will create an air pressure difference in the amount indicated by the differential pressure gage. Thus, detection of air pressure differences is used as a criterion for judging leakage. Every single unit of the ABS Coolant Proof calipers and Coolant Proof micrometer is tested this way for air leakage to help ensure product quality.



IP67 protection level

- Level 6: Dust-tight
No ingress of dust.
- Level 7: Protected against the effects of temporary immersion in water.
Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed 1 meter in water under standardized conditions of pressure and time (30 min.).



SPECIFICATIONS

Metric IP67 model

Range	Order No.	Accuracy	Resolution	Remarks
0-150mm	500-702-10*	+/-0.02mm	0.01mm	
0-150mm	500-712-10	+/-0.02mm	0.01mm	
0-150mm	500-719-10	+/-0.02mm	0.01mm	dia. 1.9mm rod depth bar
0-150mm	500-721-10	+/-0.02mm	0.01mm	carbide-tipped jaws for ID measurement
0-150mm	500-723-10	+/-0.02mm	0.01mm	carbide-tipped jaws for OD & ID measurement
0-200mm	500-703-10*	+/-0.02mm	0.01mm	
0-200mm	500-713-10	+/-0.02mm	0.01mm	
0-200mm	500-722-10	+/-0.02mm	0.01mm	carbide-tipped jaws for ID measurement
0-200mm	500-724-10	+/-0.02mm	0.01mm	carbide-tipped jaws for OD & ID measurement
0-300mm	500-704-10*	+/-0.03mm	0.01mm	
0-300mm	500-714-10	+/-0.03mm	0.01mm	

*without SPC data output

Inch/Metric IP67 model

Range	Order No.	Accuracy	Resolution	Remarks
0-6" / 0-150mm	500-752-10*	+/- .001"	.0005" / 0.01mm	
0-6" / 0-150mm	500-762-10	+/- .001"	.0005" / 0.01mm	
0-6" / 0-150mm	500-768-10*	+/- .001"	.0005" / 0.01mm	.075" rod depth bar
0-6" / 0-150mm	500-769-10	+/- .001"	.0005" / 0.01mm	.075" rod depth bar
0-6" / 0-150mm	500-731-10*	+/- .001"	.0005" / 0.01mm	carbide-tipped jaws for ID measurement
0-6" / 0-150mm	500-735-10	+/- .001"	.0005" / 0.01mm	carbide-tipped jaws for ID measurement
0-6" / 0-150mm	500-733-10*	+/- .001"	.0005" / 0.01mm	carbide-tipped jaws for OD & ID measurement
0-6" / 0-150mm	500-737-10	+/- .001"	.0005" / 0.01mm	carbide-tipped jaws for OD & ID measurement
0-8" / 0-200mm	500-753-10*	+/- .001"	.0005" / 0.01mm	
0-8" / 0-200mm	500-763-10	+/- .001"	.0005" / 0.01mm	
0-8" / 0-200mm	500-732-10*	+/- .001"	.0005" / 0.01mm	carbide-tipped jaws for OD measurement
0-8" / 0-200mm	500-736-10	+/- .001"	.0005" / 0.01mm	carbide-tipped jaws for ID measurement
0-8" / 0-200mm	500-734-10*	+/- .001"	.0005" / 0.01mm	carbide-tipped jaws for OD & ID measurement
0-8" / 0-200mm	500-738-10	+/- .001"	.0005" / 0.01mm	carbide-tipped jaws for OD & ID measurement
0-12" / 0-300mm	500-754-10*	+/- .0015"	.0005" / 0.01mm	
0-12" / 0-300mm	500-764-10	+/- .0015"	.0005" / 0.01mm	

*without SPC data output

DIMENSIONS AND MASS

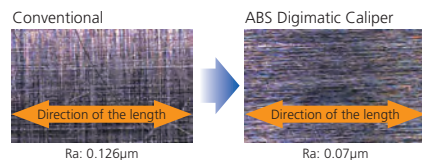
Unit: mm						
Range	L	a	b	c	e	Mass (g)
0 - 6" / 0 - 150mm	233	40	21	16.5	16	168
0 - 8" / 0 - 200mm	290	50	24.5	20	16	198
0 - 12" / 0 - 300mm	404	64	27.5	22	20	350

ABSOLUTE Digimatic Caliper

SERIES 500 — with Exclusive ABSOLUTE Encoder Technology

Mitutoyo's absolute Digimatic Caliper is the next generation of electronic calipers. It keeps track of its origin point once set. Whenever turned on, the large LCD screen displays the actual slider position ready to start measurement. No more repeated zero setting is necessary with the absolute encoder technology as well as no more care for overspeed errors.

High quality guide surface finish for smooth slider movement

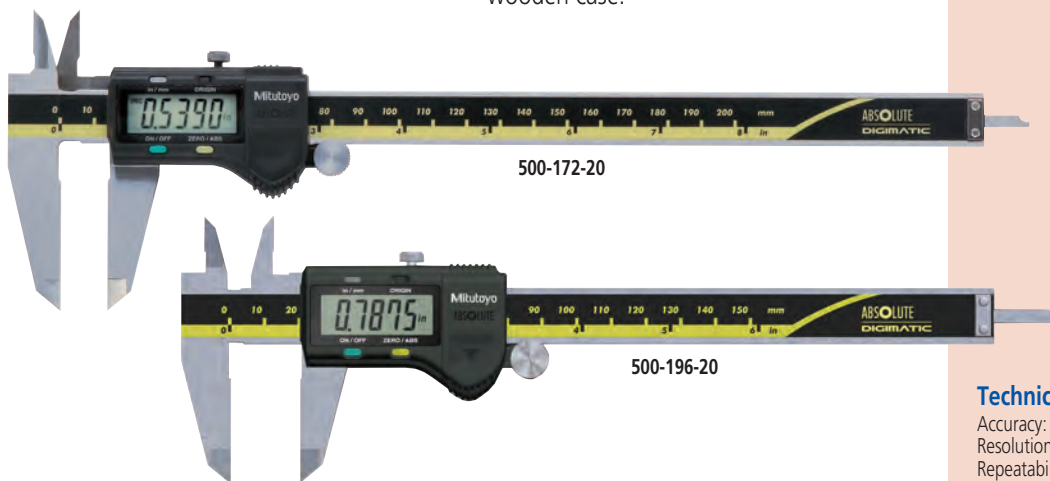


FEATURES

- Large and clear LCD readout.
- The ZERO/ABS key allows the display to be Zero-Set at any slider position along the scale for incremental comparison measurements. This switch will also allow return to the absolute (ABS) coordinate and display of the true position from the origin point (usually jaws-closed point).
- Data Hold Unit (959143) is optional.
- Carbide-tipped jaw type calipers are also available.
- Thumb roller included only on calipers up to and including 12" or 300mm.
- Supplied in fitted plastic case. Except 40" / 1000mm supplied in wooden case.

SPC

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DIMENSIONS AND MASS

Unit: mm

Technical drawing of a digital depth gauge. The drawing shows the main body with a digital display and a sliding beam. Dimensions are labeled: L (total length), a (height of the main body), b (height of the sliding beam), c (height of the sliding beam at the end), d (height of the sliding beam at the end), and e (height of the main body at the end).

Range	L	a	b	c	d	Mass (g)
0 - 4" / 0 - 100mm	182	40	21	16.5	16	143
0 - 6" / 0 - 150mm	233	40	21	16.5	16	168
0 - 8" / 0 - 200mm	290	50	24.5	20	16	198
0 - 12" / 0 - 300mm	403	64	27.5	22	20	350

Technical drawing of a digital depth gauge. The drawing shows the main body with a digital display and a sliding beam. Dimensions are labeled: L (total length), a (height of the main body), b (height of the sliding beam), c (height of the sliding beam at the end), d (height of the sliding beam at the end), and e (height of the main body at the end).

Range	L	a	b	c	d	Mass (g)
0 - 18" / 0 - 450mm	630	90	47	38	25	1170
0 - 24" / 0 - 600mm	780	90	47	38	25	1350
0 - 40" / 0 - 1000mm	1240	130	61	50	32	3300

Technical Data

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

Function

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

Optional Accessories

959143: Data hold unit
959149: SPC cable with data switch (40" / 1m)
959150: SPC cable with data switch (80" / 2m)





SPECIFICATIONS

Metric

Range	Order No.	Accuracy	Resolution	Remarks
0 - 100mm	500-150-20	±0.02mm	0.01mm	ø1.9mm rod depth bar
0 - 150mm	500-151-20	±0.02mm	0.01mm	—
0 - 150mm	500-154-20	±0.02mm	0.01mm	Carbide-tipped jaws for OD measurement
0 - 150mm	500-155-20	±0.02mm	0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 150mm	500-158-20	±0.02mm	0.01mm	ø1.9mm rod depth bar
0 - 200mm	500-152-20	±0.02mm	0.01mm	—
0 - 200mm	500-156-20	±0.02mm	0.01mm	Carbide-tipped jaws for OD measurement
0 - 200mm	500-157-20	±0.02mm	0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 300mm	500-153	±0.03mm	0.01mm	—
0 - 450mm	500-500-10*	±0.05mm	0.01mm	Without Thumb Roller
0 - 600mm	500-501-10*	±0.05mm	0.01mm	Without Thumb Roller
0 - 1000mm	500-502-10*	±0.07mm	0.01mm	Without Thumb Roller

*without thumb rollers

Inch/Metric

Range	Order No.	Accuracy	Resolution	Remarks
0 - 4" / 0 - 100mm	500-170-20	±.001"	.0005" / 0.01mm	.075" rod depth bar
0 - 4" / 0 - 100mm	500-195-20*	±.001"	.0005" / 0.01mm	.075" rod depth bar
0 - 6" / 0 - 150mm	500-171-20	±.001"	.0005" / 0.01mm	—
0 - 6" / 0 - 150mm	500-174-20	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD measurement
0 - 6" / 0 - 150mm	500-175-20	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 6" / 0 - 150mm	500-178-20	±.001"	.0005" / 0.01mm	.075" rod depth bar
0 - 6" / 0 - 150mm	500-196-20*	±.001"	.0005" / 0.01mm	—
0 - 6" / 0 - 150mm	500-159-20*	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD measurement
0 - 6" / 0 - 150mm	500-160-20*	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 8" / 0 - 200mm	500-172-20	±.001"	.0005" / 0.01mm	—
0 - 8" / 0 - 200mm	500-176-20	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD measurement
0 - 8" / 0 - 200mm	500-177-20	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 8" / 0 - 200mm	500-197-20*	±.001"	.0005" / 0.01mm	—
0 - 8" / 0 - 200mm	500-163-20*	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD measurement
0 - 8" / 0 - 200mm	500-164-20*	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 12" / 0 - 300mm	500-173	±.0015"	.0005" / 0.01mm	—
0 - 12" / 0 - 300mm	500-167	±.0015"	.0005" / 0.01mm	Carbide-tipped jaws for OD measurement
0 - 12" / 0 - 300mm	500-168	±.0015"	.0005" / 0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 12" / 0 - 300mm	500-193*	±.0015"	.0005" / 0.01mm	—
0 - 12" / 0 - 300mm	500-165*	±.0015"	.0005" / 0.01mm	Carbide-tipped jaws for OD measurement
0 - 12" / 0 - 300mm	500-166*	±.0015"	.0005" / 0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 18" / 0 - 450mm	500-505-10	±.002"	.0005" / 0.01mm	Without Thumb Roller
0 - 24" / 0 - 600mm	500-506-10	±.002"	.0005" / 0.01mm	Without Thumb Roller
0 - 40" / 0 - 1000mm	500-507-10	±.003"	.0005" / 0.01mm	Without Thumb Roller

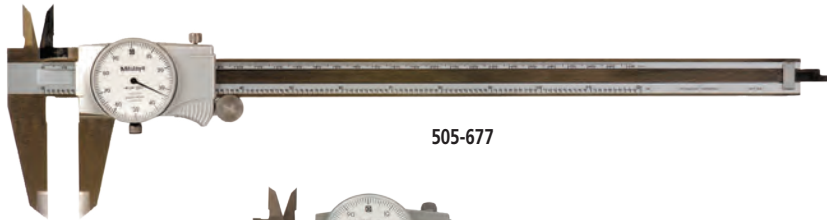
*without SPC data output

Dial Caliper

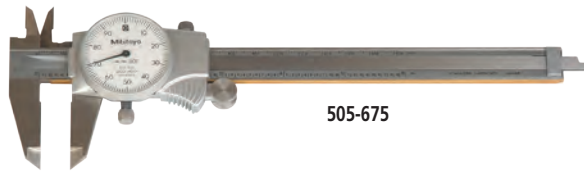
SERIES 505

FEATURES

- New designed dial movement for ultra smooth sliding and high shock protection.
- Titanium Nitride (TiN) coating is applied to the sliding surface to increase wear resistance (except for 0 - 12" and 0 - 300mm model).
- Lock screw for dial bezel and for holding the sliding jaw position.
- Can measure OD, ID, depth, and steps.
- Models available with carbide-tipped OD and ID jaws.
- Supplied in fitted plastic case.



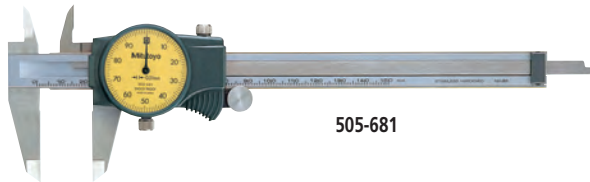
505-677



505-675



505-673



505-681

SPECIFICATIONS

Metric

1mm Per One Revolution

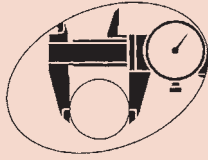
Range	Order No.	Accuracy	Graduation	Remarks
0-100mm	505-680	$\pm 0.015\text{mm}$	0.01mm	—
0-150mm	505-681	$\pm 0.03\text{mm}$	0.01mm	—
0-200mm	505-682	$\pm 0.03\text{mm}$	0.01mm	—

Metric

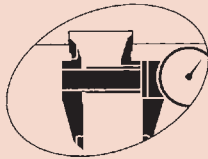
2mm Per One Revolution

Range	Order No.	Accuracy	Graduation	Remarks
0-150mm	505-671	$\pm 0.03\text{mm}$	0.02mm	—
0-150mm	505-707	$\pm 0.03\text{mm}$	0.02mm	Carbide-tipped jaws for OD measurement
0-150mm	505-711	$\pm 0.03\text{mm}$	0.02mm	Carbide-tipped jaws for OD & ID measurement
0-200mm	505-672	$\pm 0.03\text{mm}$	0.02mm	—
0-300mm	505-673	$\pm 0.04\text{mm}$	0.02mm	—

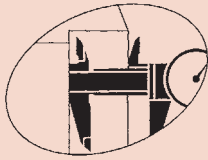
"Quadri" (4-way) Measurement



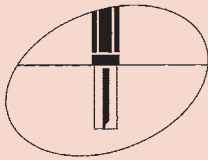
1. Outside measurement



2. Inside measurement



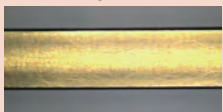
3. Step measurement



4. Depth measurement

Results of 1,000,000 cycle sliding wear test

TiN coating



Wear: 0µm

Conventional



Wear: 4µm

SPECIFICATIONS

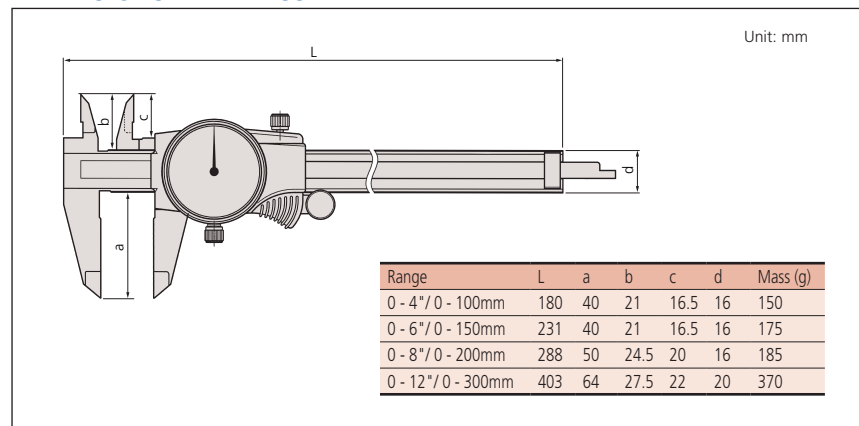
Inch .1" Per One Revolution

Range	Order No.	Accuracy	Graduation	Remarks
0-4"	505-674	+/- .001"	.001"	-
0-6"	505-675	+/- .001"	.001"	-
0-6"	505-675-51	+/- .001"	.001"	Blue Dial Face
0-6"	505-675-52	+/- .001"	.001"	Purple Dial Face
0-6"	505-675-53	+/- .001"	.001"	Green Dial Face
0-6"	505-675-54	+/- .001"	.001"	Red Dial Face
0-6"	505-675-55	+/- .001"	.001"	Orange Dial Face
0-6"	505-675-56	+/- .001"	.001"	Black Dial Face
0-6"	505-675-66	+/- .001"	.001"	Black Dial Face with Ratchet Stop
0-6"	505-689	+/- .001"	.001"	Extra smooth movement
0-6"	505-708	+/- .001"	.001"	Carbide-tipped jaws for OD measurement
0-6"	505-712	+/- .001"	.001"	Carbide-tipped jaws for OD & ID measurement
0-8"	505-676	+/- .002"	.001"	-
0-8"	505-690	+/- .002"	.001"	Extra smooth movement
0-8"	505-709	+/- .002"	.001"	Carbide-tipped jaws for OD measurement
0-8"	505-713	+/- .002"	.001"	Carbide-tipped jaws for OD & ID measurement
0-12"	505-677	+/- .002"	.001"	—
0-12"	505-710	+/- .002"	.001"	Carbide-tipped jaws for OD measurement
0-12"	505-714	+/- .002"	.001"	Carbide-tipped jaws for OD & ID

Inch .2" Per One Revolution

Range	Order No.	Accuracy	Graduation	Remarks
0-4"	505-716	+/- .001"	.001"	—
0-6"	505-717	+/- .001"	.001"	—
0-6"	505-718	+/- .001"	.001"	Carbide-tipped jaws for OD measurement
0-8"	505-719	+/- .002"	.001"	—
0-12"	505-720	+/- .002"	.001"	—
0-12"	505-721	+/- .002"	.001"	Carbide-tipped jaws for OD measurement

DIMENSIONS AND MASS

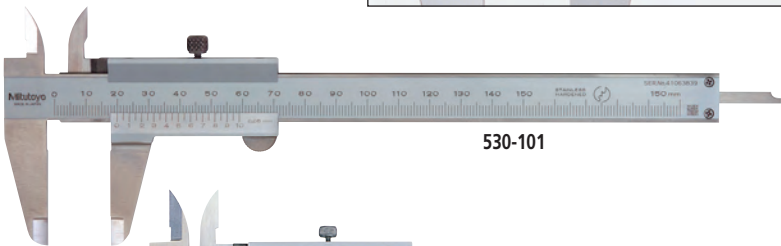
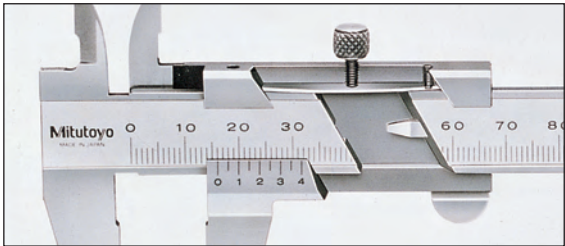
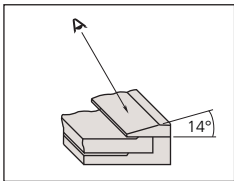


Vernier Caliper

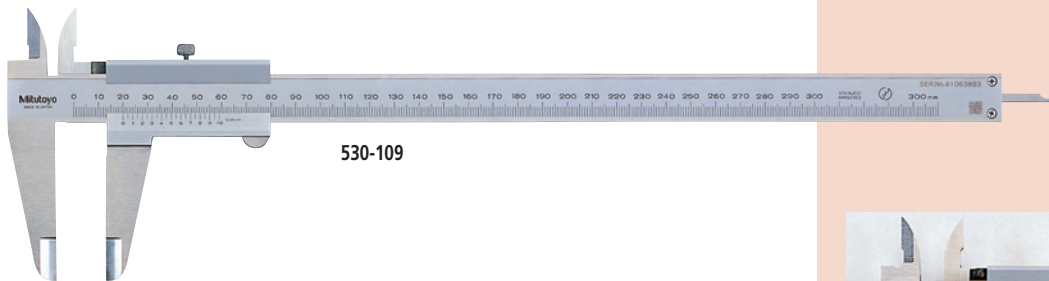
SERIES 530 — Standard Model

FEATURES

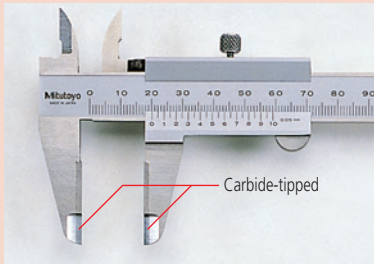
- Can measure OD (outside diameter), ID (inside diameter), depth, and steps.
- The small vernier face angle (14°) provides easy reading.
- Dual reading scales on vernier. (metric/inch and inch models only)
- Lock screw for holding the sliding jaw position.
- Carbide-tipped jaw type calipers are also available.
- Supplied with vinyl holster in fitted carton. Except 24" / 600mm models are carton only. 40" / 1000mm supplied in wooden case.



530-101

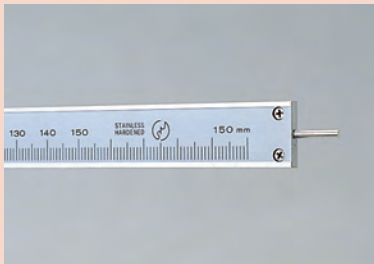
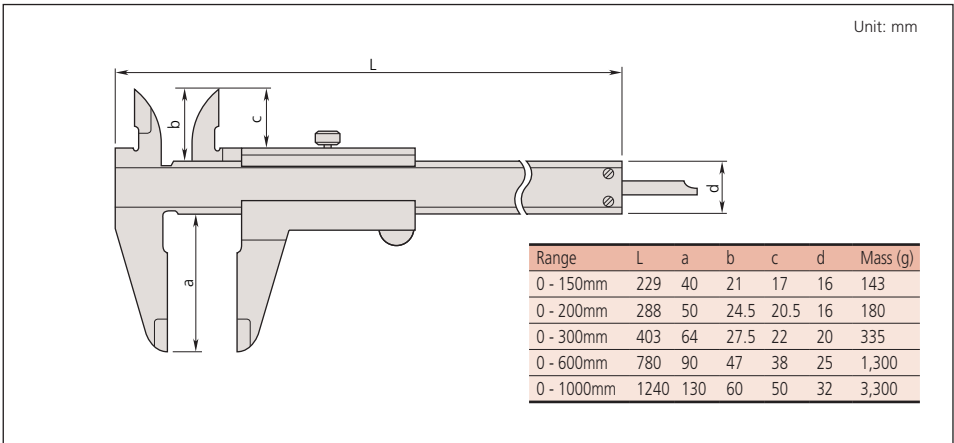


530-109



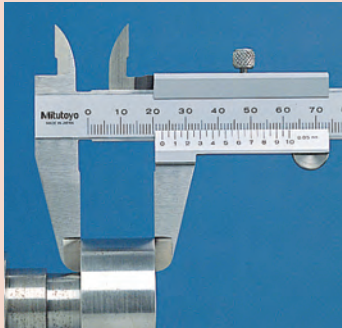
Carbide-tipped jaw type

DIMENSIONS AND MASS

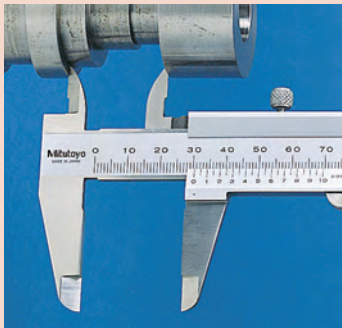


Round depth bar type

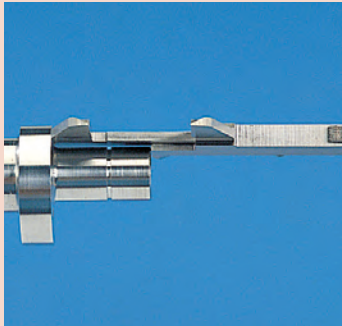
"Quadri" (4 way) Measurement Measurement Applications



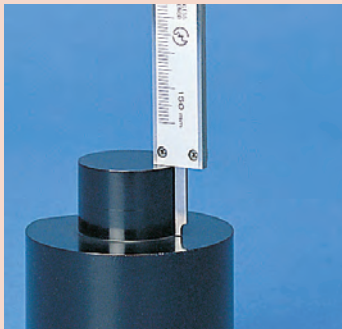
OD measurement



ID measurement



Step measurement



Depth measurement

SPECIFICATIONS

Metric

Range	Order No.	Accuracy	Graduation	Remarks
0 - 150mm	530-102	±0.05mm	0.05mm	ø 1.9mm Depth bar
0 - 150mm	530-101	±0.05mm	0.05mm	—
0 - 150mm	530-320	±0.05mm	0.05mm	Carbide-tipped jaws for OD measurement
0 - 150mm	530-335	±0.05mm	0.05mm	Carbide-tipped jaws for OD & ID measurement
0 - 150mm	530-122*	±0.03mm	0.02mm	High accuracy model
0 - 200mm	530-108	±0.05mm	0.05mm	—
0 - 200mm	530-321	±0.05mm	0.05mm	Carbide-tipped jaws for OD measurement
0 - 200mm	530-123*	±0.03mm	0.02mm	High accuracy model
0 - 300mm	530-109	±0.08mm	0.05mm	—
0 - 300mm	530-322	±0.08mm	0.05mm	Carbide-tipped jaws for OD measurement
0 - 300mm	530-124*	±0.04mm	0.02mm	High accuracy model: ±0.04mm
0 - 600mm	530-501**	±0.1mm	0.05mm	—
0 - 1000mm	530-502 **	±0.15mm	0.05mm	—

*Graduation: 0.02mm

**No depth measuring bar

Metric/Inch with metric/inch dual scale

Range	Order No.	Accuracy	Vernier Graduation		Remarks
			Lower Scale	Upper Scale	
0 - 150mm / 0 - 6"	530-104	±0.05mm	0.05mm	1/128"	—
0 - 150mm / 0 - 6"	530-316	±0.05mm	0.05mm	1/128"	—
0 - 150mm / 0 - 6"	530-312*	±0.03mm	0.02mm	.001"	High accuracy model
0 - 200mm / 0 - 8"	530-114	±0.05mm	0.05mm	1/128"	—
0 - 200mm / 0 - 8"	530-118*	±0.03mm	0.02mm	.001"	High accuracy model
0 - 300mm / 0 - 12"	530-115	±0.08mm	0.05mm	1/128"	—
0 - 300mm / 0 - 12"	530-119*	±0.04mm	0.02mm	.001"	High accuracy model

*Graduation: 0.02mm

Inch with inch/inch dual scale

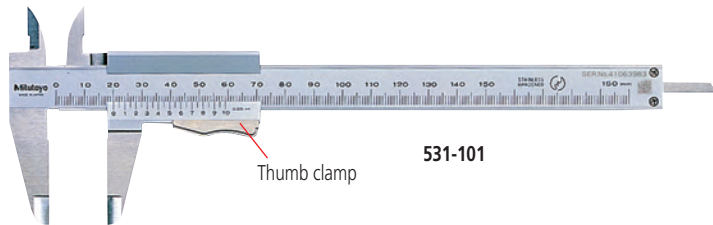
Range	Order No.	Accuracy	Vernier Graduation		Remarks
			Lower Scale	Upper Scale	
0 - 6"	530-105	±.0015"	.001"	1/128"	—
0 - 8"	530-116	±.0015"	.001"	1/128"	—

Vernier Caliper

SERIES 531 — with Thumb Clamp

FEATURES

- The slider moves only when the spring loaded thumb clamp is depressed.
- Can measure OD, ID, depth, and steps
- Supplied with vinyl holster in fitted carton.



531-101

Thumb clamp

SPECIFICATIONS

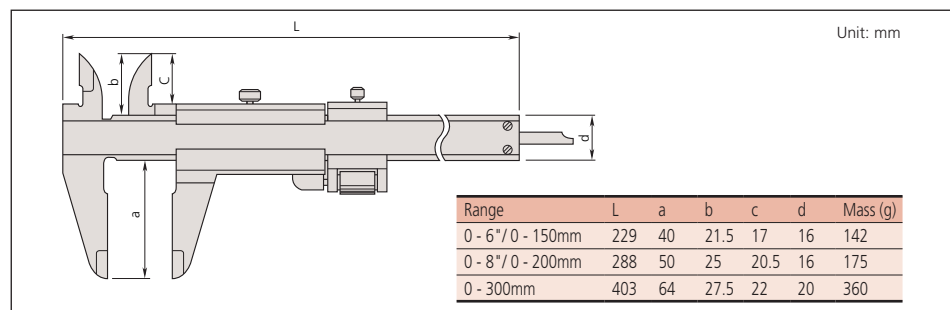
Metric

Range	Order No.	Accuracy	Graduation	Remarks
0 - 150mm	531-101	±0.05mm	0.05mm	—
0 - 200mm	531-102	±0.05mm	0.05mm	—
0 - 300mm	531-103	±0.08mm	0.05mm	—

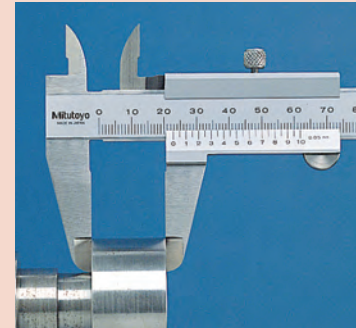
Metric/Inch with metric/inch dual scale

Range	Order No.	Accuracy	Graduation		Remarks
			Lower Scale	Upper Scale	
0 - 150mm / 0 - 6"	531-122	±0.05mm	0.05mm	1/128"	with inch/mm conversion label
0 - 150mm / 0 - 6"	531-128	±0.03mm	0.02mm	.001"	High accuracy model
0 - 200mm / 0 - 8"	531-108	±0.05mm	0.05mm	1/128"	—
0 - 200mm / 0 - 8"	531-129	±0.03mm	0.02mm	.001"	High accuracy model
0 - 300mm / 0 - 12"	531-109	±0.08mm	0.05mm	1/128"	—
0 - 300mm / 0 - 12"	531-112	±0.04mm	0.02mm	.001"	High accuracy model

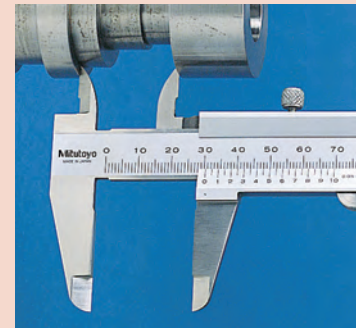
DIMENSIONS AND MASS



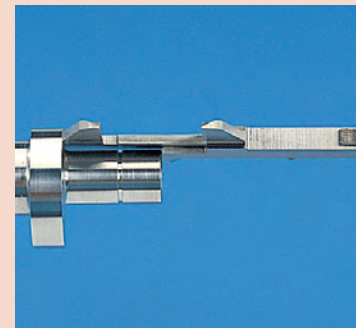
"Quadri" (4 way) Measurement Measurement Applications



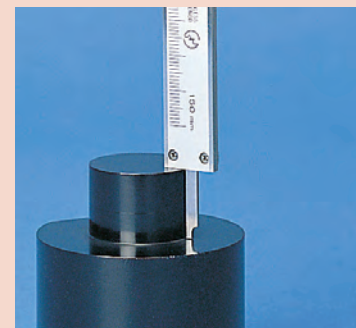
OD measurement



ID measurement



Step measurement

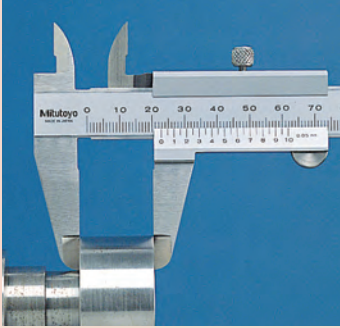


Depth measurement

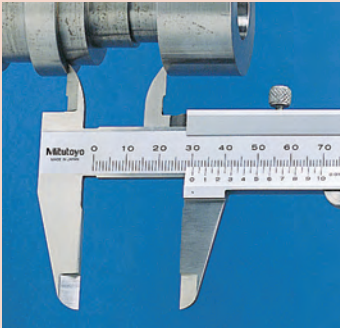
Vernier Caliper

SERIES 532 — with Fine Adjustment

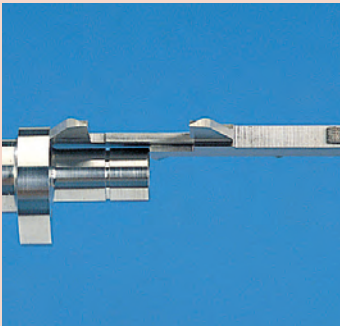
"Quadri" (4 way) Measurement Measurement Applications



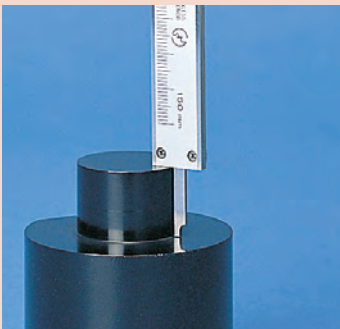
OD measurement



ID measurement



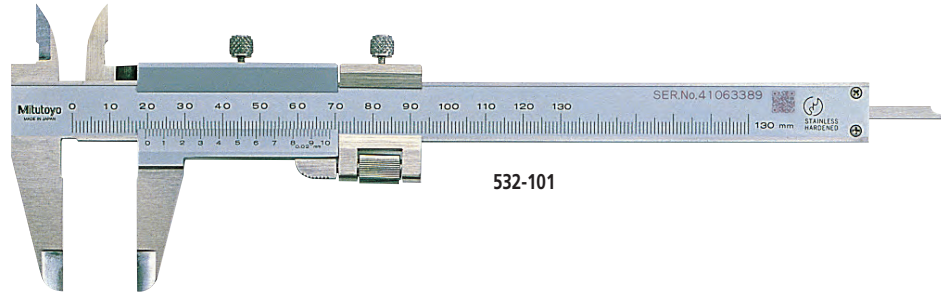
Step measurement



Depth measurement

FEATURES

- Provided with a fine-adjustment carriage to feed the slider finely.
- Can measure OD, ID, depth, and steps.
- Supplied with vinyl holster in fitted carton.



532-101

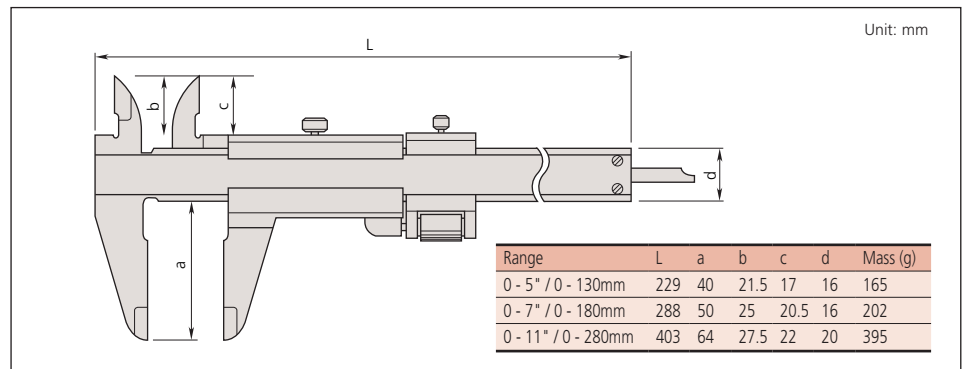
SPECIFICATIONS

Metric			
Range	Order No.	Accuracy	Graduation
0 - 130mm	532-101	±0.03mm	0.02mm
0 - 180mm	532-102	±0.03mm	0.02mm
0 - 280mm	532-103	±0.04mm	0.02mm

Metric/Inch with metric/inch dual scale

Range	Order No.	Accuracy	Graduation	
			Lower Scale	Upper Scale
0 - 130mm / 0 - 5"	532-119	±0.03mm	0.02mm	.001"
0 - 180mm / 0 - 7"	532-120	±0.03mm	0.02mm	.001"
0 - 280mm / 0 - 11"	532-121	±0.04mm	0.02mm	.001"

DIMENSIONS AND MASS

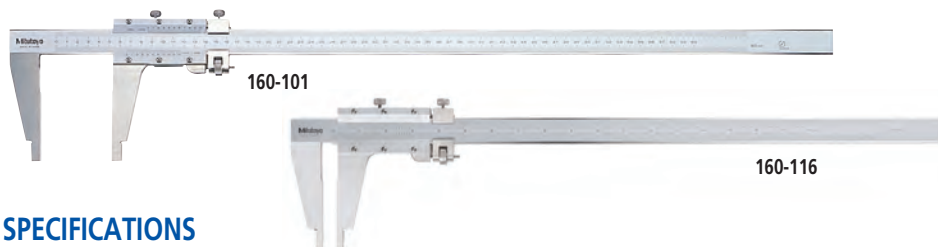


Vernier Caliper

SERIES 160 — with Nib Style Jaws and Fine Adjustment

FEATURES

- The jaws have round measuring faces for accurate ID measurement.
- With fine adjustment carriage to feed the slider finely.
- Inside and outside measurements can be directly read from the upper and lower slider graduations, respectively.
- Supplied with vinyl holster in fitted carton. Except 12" / 300mm, 18" / 450mm and 24" / 600mm are fitted carton only. Over 24" / 600mm supplied in wooden case.



SPECIFICATIONS

Metric with metric/metric dual scale

Range*	Order No.	Accuracy	Graduation		Mass (g)
			Lower Scale	Upper Scale	
0 (10) - 300mm	160-127	±0.04mm	0.02mm	0.02mm	450
0 (20) - 450mm	160-128	±0.05mm	0.02mm	0.02mm	1,200
0 (20) - 600mm	160-101	±0.05mm	0.02mm	0.02mm	2,600
0 (20) - 1000mm	160-104	±0.07mm	0.02mm	0.02mm	3,500
0 (20) - 1500mm	160-110	±0.09mm	0.02mm	0.02mm	4,850
0 (20) - 2000mm	160-113	±0.12mm	0.02mm	0.02mm	10,200

*(): Minimum dimension in ID measurement

Metric/Inch with metric/inch dual scale

Range*	Order No.	Accuracy	Graduation		Mass (g)
			Lower Scale	Upper Scale	
0 (10) - 300mm / 0 (.3") - 12"	160-150	±0.04mm	0.02mm	.001"	450
0 (20) - 450mm / 0 (.5") - 18"	160-151	±0.05mm	0.02mm	.001"	1,200
0 (20) - 600mm / 0 (.5") - 24"	160-153	±0.05mm	0.02mm	.001"	1,400
0 (20) - 1000mm / 0 (1") - 40"	160-155	±0.07mm	0.02mm	.001"	3,500
0 (20) - 1500mm / 0 (1") - 60"	160-157	±0.09mm	0.02mm	.001"	4,850
0 (20) - 2000mm / 0 (1") - 80"	160-159	±0.12mm	0.02mm	.001"	10,200

*(): Minimum dimension in ID measurement

Inch with inch/inch dual scale

Range*	Order No.	Accuracy	Graduation		Mass (g)
			Lower Scale	Upper Scale	
0 (.3") - 12"	160-124	±.0015"	.001"	.001"	450
0 (.5") - 18"	160-116	±.002"	.001"	.001"	1,200
0 (.5") - 24"	160-102	±.002"	.001"	.001"	1,400
0 (1") - 40"	160-105	±.003"	.001"	.001"	3,500
0 (1") - 60"	160-111	±.004"	.001"	.001"	4,850
0 (1") - 80"	160-114	±.005"	.001"	.001"	10,200

*(): Minimum dimension in ID measurement

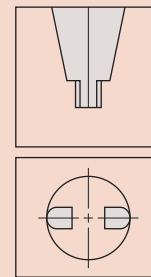
Inch/Metric with inch/metric dual scale

Range*	Order No.	Accuracy	Graduation		Mass (g)
			Lower Scale	Upper Scale	
0 (.3") - 12" / 0 (10) - 300mm	160-125	±.0015"	.001"	0.02mm	450
0 (.5") - 18" / 0 (20) - 450mm	160-119	±.002"	.001"	0.02mm	1,200
0 (.5") - 24" / 0 (20) - 600mm	160-103	±.002"	.001"	0.02mm	1,400
0 (1") - 40" / 0 (20) - 1000mm	160-106	±.003"	.001"	0.02mm	3,500
0 (1") - 60" / 0 (20) - 1500mm	160-112	±.004"	.001"	0.02mm	4,850
0 (1") - 80" / 0 (20) - 2000mm	160-115	±.005"	.001"	0.02mm	10,200

*(): Minimum dimension in ID measurement

Technical Data

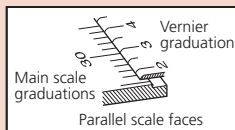
Accuracy: Refer to the list of specifications.
Graduation: Refer to the list of specifications.



Round surface of jaws for accurate ID measurement

DIMENSIONS

Range	L	a	b	c	d	e
0 - 12" / 0 - 300mm	445	95	25	12	20	10
0 - 18" / 0 - 450mm	630	125	100	18	25	14.8
0 - 24" / 0 - 600mm	780	125	100	18	25	14.8
0 - 40" / 0 - 1000mm	1240	172	140	24	32	17
0 - 60" / 0 - 1500mm	1800	212	180	30	32	19
0 - 80" / 0 - 2000mm	2300	220	180	30	40	23



Technical Data

Accuracy: Refer to the list of specifications.

Display*: LCD

Length standard*: ABSOLUTE electrostatic capacitance type linear encoder

Max. response speed*: Unlimited

Battery*: SR44 (1 pc.), 938882

Battery life*: Approx. 3.5 years under normal use

*Digital models **Analog models

Function of Digital Model

Origin-set, Zero-setting, Data output, inch/mm conversion (on inch/metric models only)

Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

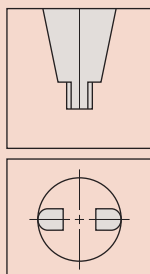
959143: Data hold unit

959149: SPC cable with data switch (40" / 1m)

959150: SPC cable with data switch (80" / 2m)

05CZA624: SPC cable with data switch (40" / 1m) for IP67 model

05CZA625: SPC cable with data switch (80" / 2m) for IP67 model



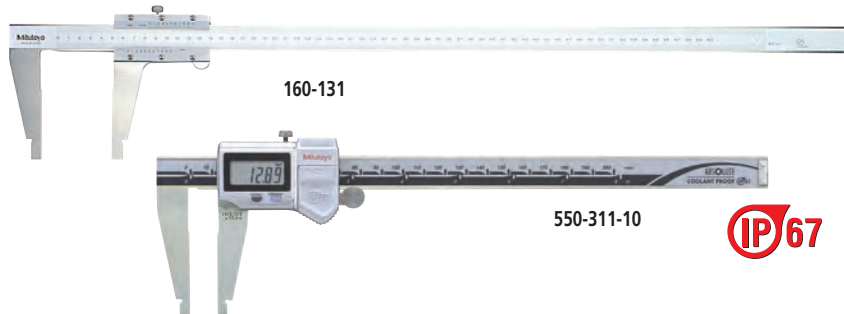
Round surface of jaws for accurate ID measurement

ABSOLUTE Digimatic & Vernier Caliper

SERIES 550, 160 — with Nib Style Jaws

FEATURES

- The rounded faces of the jaws are ideal for accurate ID (inside diameter) measurement.
- Inside and outside measurements can be directly read from the upper and lower slider graduations (Series 160).
- With fine-adjustment carriage type is available (Series 160).
- Parallax-free vernier scale type is available for easy and positive measurement (Series 160).
- With SPC output (Series 550).
- Supplied in fitted plastic case. Except 40" / 1000mm supplied in wooden case.



SPECIFICATIONS

Metric Digital model

Range*	Order No.	Accuracy	Resolution	Mass (g)	Remarks
0 (10) - 200mm	550-301-10	±0.03mm	0.01mm	180	IP67
0 (10) - 300mm	550-331-10	±0.03mm	0.01mm	380	w/ offset/preset function for easy ID measurement, IP67
0 (20) - 450mm	550-203-10	±0.05mm	0.01mm	1,110	
0 (20) - 600mm	550-205-10	±0.05mm	0.01mm	1,290	
0 (20) - 1000mm	550-207-10	±0.07mm	0.01mm	3,350	

*(): Minimum dimension in ID measurement

Inch/Metric Digital model

Range*	Order No.	Accuracy	Resolution	Mass (g)	Remarks
0 (.4") - 8" / 0 (10) - 200mm	550-311-10	±.001"	.0005" / 0.01mm	180	IP67
0 (.4") - 12" / 0 (10) - 300mm	550-341-10	±.0015"	.0005" / 0.01mm	380	w/ offset/preset function for easy ID measurement, IP67
0 (.5") - 18" / 0 (20) - 450mm	550-223-10	±.002"	.0005" / 0.01mm	1,110	—
0 (.5") - 24" / 0 (20) - 600mm	550-225-10	±.002"	.0005" / 0.01mm	1,290	—
0 (1") - 40" / 0 (20) - 1000mm	550-227-10	±.003"	.0005" / 0.01mm	3,350	—

*(): Minimum dimension in ID measurement

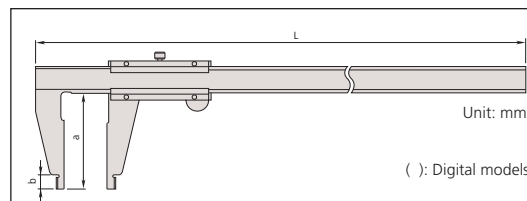
Metric with metric/metric dual scale

Range*	Order No.	Accuracy	Graduation	Mass (g)	Remarks
0 (20) - 450mm	160-130	±0.10mm	0.02mm	1,100	—
0 (20) - 600mm	160-131	±0.10mm	0.02mm	1,300	—
0 (20) - 1000mm	160-132	±0.15mm	0.02mm	3,350	—
0 (20) - 1500mm	160-133	±0.22mm	0.05mm	4,850	
0 (20) - 2000mm	160-134	±0.28mm	0.05mm	10,000	

*(): Minimum dimension in ID measurement

DIMENSIONS

Range	L	a	b	d
0 - 8" / 0 - 200mm	288 (290)	60	8	16
0 - 12" / 0 - 300mm	445	75	12	20
0 - 18" / 0 - 450mm	632	100	18	25
0 - 24" / 0 - 600mm	780	100	18	25
0 - 40" / 0 - 1000mm	1240	140	24	32



Unit: mm

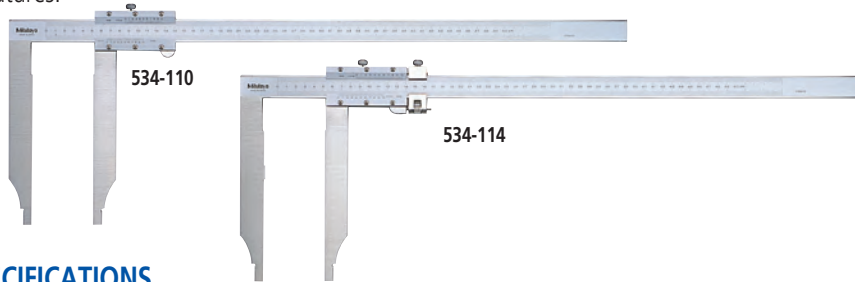
(): Digital models

Long Jaw Vernier Caliper

SERIES 534

FEATURES

- Long jaws for measuring hard-to-reach features.
- Supplied in fitted wooden case.



SPECIFICATIONS

Metric with metric/metric dual scale without fine adjustment

Range*	Order No.	Accuracy	Graduation		Mass (g)
			Lower Scale	Upper Scale	
0 (10) - 300mm	534-109	±0.07mm	0.05mm	0.05mm	400
0 (20) - 500mm	534-110	±0.13mm	0.05mm	0.05mm	1,400

*() : Minimum dimension in ID measurement

Metric with metric/metric dual scale

Range*	Order No.	Accuracy	Graduation		Mass (g)
			Lower Scale	Upper Scale	
0 (10) - 300mm	534-113	±0.04mm	0.02mm	0.02mm	460
0 (20) - 500mm	534-114	±0.06mm	0.02mm	0.02mm	1,500
0 (20) - 750mm	534-115	±0.08mm	0.02mm	0.02mm	2,900
0 (20) - 1000mm	534-116	±0.10mm	0.02mm	0.02mm	3,500

*() : Minimum dimension in ID measurement

Metric/Inch with metric/inch dual scale

Range*	Order No.	Accuracy	Graduation		Mass (g)
			Lower Scale	Upper Scale	
0 (10) - 300mm / 0 (.3") - 12"	534-101	±0.07mm	0.05mm	1/128"	460
0 (10) - 300mm / 0 (.3") - 12"	534-105	±0.04mm	0.02mm	.001"	460
0 (20) - 500mm / 0 (.8") - 20"	534-102	±0.13mm	0.05mm	1/128"	1,500
0 (20) - 500mm / 0 (.8") - 20"	534-106	±0.06mm	0.02mm	.001"	1,500
0 (20) - 700mm / 0 (.8") - 30"	534-103	±0.16mm	0.05mm	1/128"	2,900
0 (20) - 700mm / 0 (.8") - 30"	534-107	±0.08mm	0.02mm	.001"	2,900
0 (20) - 1000mm / 0 (.8") - 40"	534-104	±0.20mm	0.05mm	1/128"	3,500
0 (20) - 1000mm / 0 (.8") - 40"	534-108	±0.10mm	0.02mm	.001"	3,500

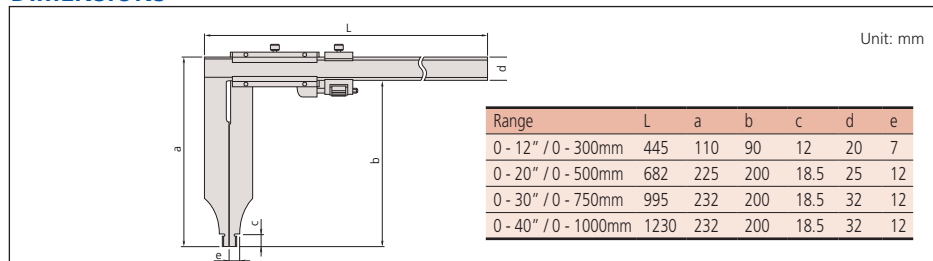
*() : Minimum dimension in ID measurement

Inch with inch/inch dual scale

Range*	Order No.	Accuracy	Graduation		Mass (g)
			Lower Scale	Upper Scale	
0 (.3") - 12"	534-117	±.002"	.001"	.001"	400
0 (.8") - 20"	534-118	±.003"	.001"	.001"	1500
0 (.8") - 30"	534-119	±.004"	.001"	.001"	2900
0 (.8") - 40"	534-120	±.004"	.001"	.001"	3500

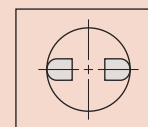
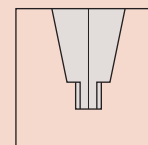
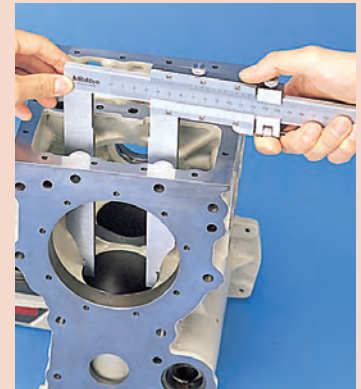
*() : Minimum dimension in ID measurement

DIMENSIONS



Technical Data

Accuracy: Refer to the list of specifications.
Graduation: Refer to the list of specifications.



Round surface of jaws for accurate CD measurement

Technical Data

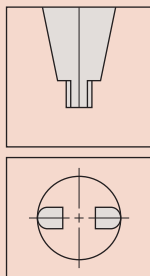
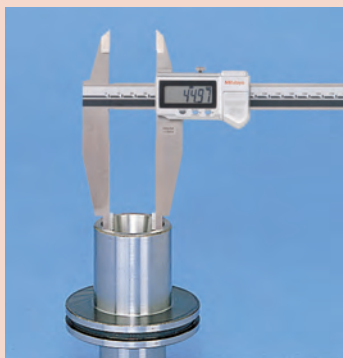
Accuracy: Refer to the list of specifications.
 Resolution: 0.01mm or .0005"/0.01mm
 Display: LCD
 Length standard: ABSOLUTE electrostatic capacitance type linear encoder
 Max. response speed: Unlimited
 Battery: SR44 (1 pc.), **938882**
 Battery life: Approx. 3.5 years under normal use

Function of Digital Model

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

Optional Accessories for Digital Model

05CZA624: SPC cable with data switch (1m / 40")
05CZA625: SPC cable with data switch (2m / 80")



Round surface of jaws for accurate ID measurement

ABSOLUTE Digimatic Caliper

SERIES 551 — with Nib Style and Standard Jaws

FEATURES

- The rounded faces of the jaws are ideal for accurate ID (inside diameter) measurement.
- With SPC output.
- Supplied in fitted plastic holster in carton. 18" / 450mm and larger supplied wooden case.



551-311-10

SPECIFICATIONS

Metric Digital model

Range*	Order No.	Accuracy	Resolution	Mass (g)	Remarks
0 (10) - 200mm	551-301-10	±0.03mm	0.01mm	180	IP67
0 (10) - 300mm	551-331-10	±0.04mm	0.01mm	380	with offset/preset function for easy ID measurement, IP67
0 (20) - 500mm	551-204-10	±0.06mm	0.01mm	1,060	—
0 (20) - 750mm	551-206-10	±0.06mm	0.01mm	1,410	—
0 (20) - 1000mm	551-207-10	±0.07mm	0.01mm	3,430	—

*(): Minimum dimension in ID measurement

Inch/Metric Digital model

Range*	Order No.	Accuracy	Resolution	Mass (g)	Remarks
0 (.4") - 8" / 0 (10) - 200mm	551-311-10	±.001"	.0005" / 0.01mm	180	IP67
0 (.4") - 12" / 0 (10) - 300mm	551-341-10	±.002"	.0005" / 0.01mm	380	w/ offset/preset function for easy ID measurement, IP67
0 (.5") - 20" / 0 (20) - 500mm	551-224-10	±.0025"	.0005" / 0.01mm	1,060	—
0 (.5") - 30" / 0 (20) - 750mm	551-226-10	±.0025"	.0005" / 0.01mm	1,410	—
0 (1") - 40" / 0 (20) - 1000mm	551-227-10	±.003"	.0005" / 0.01mm	3,430	—

*(): Minimum dimension in ID measurement

DIMENSIONS

Series 551		Unit: mm				
Range		a	b	c	d	R
0 - 8" / 0 - 200mm		60	43	8	30	5
0 - 12" / 0 - 300mm		90	68	10	40.1	5
0 - 20" / 0 - 500mm		150	115	15	56	10
0 - 30" / 0 - 750mm		150	115	15	56	10
0 - 40" / 0 - 1000mm		150	115	20	56	10

Digimatic Carbon Fiber Caliper

SERIES 552 — with optional jaw attachments

ABSOLUTE®
Absolute System Patented by MTI/TOYO

FEATURES

- Lightweight Digimatic Calipers that employ CFRP (Carbon Fiber Reinforced Plastics) in the beam and jaws.
- Highly durable and easy to handle.
- The range of applications can be expanded by using the optional attachments.
- Direct readout of ID measurements from the LCD. (Offset value can be set easily by pressing the Offset key.)
- Preset function for setting a desired starting point.
- With SPC data output.
- Special model available with ceramic jaws which are suitable for measuring abrasive and magnetic products.
- Supplied in fitted wooden case.

SPC

IP66

Technical Data

Accuracy: Refer to the list of specifications.
Resolution: .0005"/0.01mm or 0.01mm
Display: LCD
Length standard: Electrostatic capacitance type linear encoder
Max. response speed: 1600mm/s
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 3,000 hours in continuous use



SPECIFICATIONS

Metric

Range*	Order No.	Accuracy	Resolution	Remarks
0(20)-450mm	552-302-10	+/-0.04mm	0.01mm	
0(20)-450mm	552-150-10	+/-0.06mm	0.01mm	long jaws 200mm
0(20)-450mm	552-155-10	+/-0.04mm	0.01mm	ceramic jaws
0(20)-600mm	552-303-10	+/-0.04mm	0.01mm	
0(20)-600mm	552-151-10	+/-0.06mm	0.01mm	long jaws 200mm
0(20)-600mm	552-156-10	+/-0.04mm	0.01mm	ceramic jaws
0(20)-1000mm	552-304-10	+/-0.05mm	0.01mm	
0(20)-1000mm	552-152-10	+/-0.07mm	0.01mm	long jaws 200mm
0(20)-1500mm	552-305-10	+/-0.09mm	0.01mm	
0(20)-1500mm	552-153-10	+/-0.11mm	0.01mm	long jaws 200mm
0(20)-2000mm	552-306-10	+/-0.12mm	0.01mm	
0(20)-2000mm	552-154-10	+/-0.14mm	0.01mm	long jaws 200mm

*(): Minimum dimension in ID measurement

Inch/Metric

Range*	Order No.	Accuracy	Resolution	Remarks
0(.5")-18"	552-312-10	+/- .002"	.0005"/0.01mm	
0(.5")-18"	552-160-10	+/- .0025"	.0005"/0.01mm	long jaws 7.9"
0(.5")-18"	552-165-10	+/- .002"	.0005"/0.01mm	ceramic jaws
0(.5")-24"	552-313-10	+/- .002"	.0005"/0.01mm	
0(.5")-24"	552-161-10	+/- .0025"	.0005"/0.01mm	long jaws 7.9"
0(.5")-24"	552-166-10	+/- .002"	.0005"/0.01mm	ceramic jaws
0(1")-40"	552-314-10	+/- .002"	.0005"/0.01mm	
0(1")-40"	552-162-10	+/- .003"	.0005"/0.01mm	long jaws 7.9"
0(1")-60"	552-315-10	+/- .004"	.0005"/0.01mm	
0(1")-60"	552-163-10	+/- .0045"	.0005"/0.01mm	long jaws 7.9"
0(1")-80"	552-316-10	+/- .005"	.0005"/0.01mm	
0(1")-80"	552-164-10	+/- .0055"	.0005"/0.01mm	long jaws 7.9"

*(): Minimum dimension in ID measurement

Function

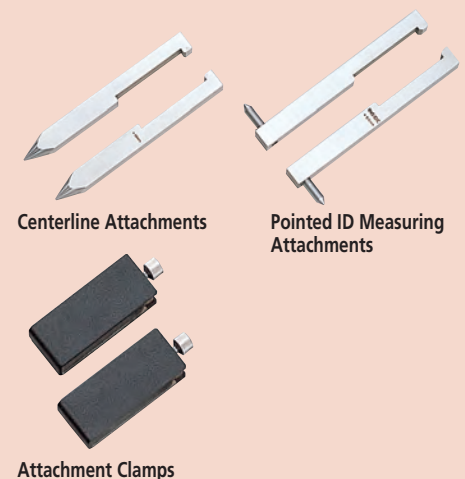
Origin-set, Zero-setting, Presetting, Offsetting, Data hold, Data output, inch/mm conversion (on inch/metric models only)
Alarm: Low voltage, Counting value composition error

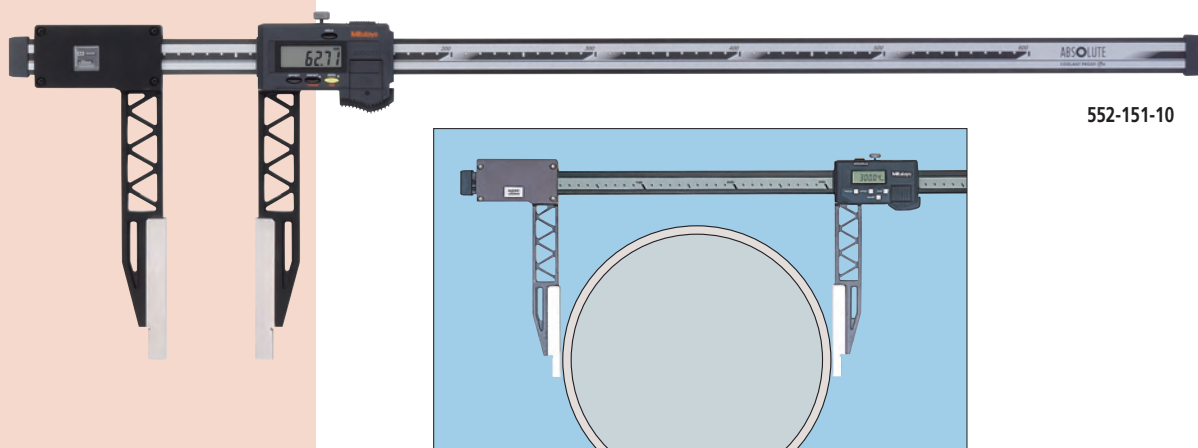
Optional Accessories

05CZA624: SPC cable with data switch (40"/1m)
05CZA625: SPC cable with data switch (80"/2m)

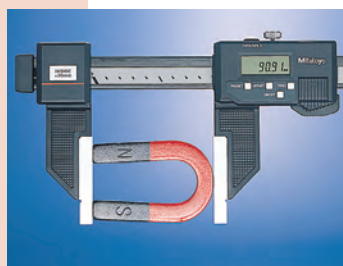
- 914055:** Centerline attachments (mm)*
914056: Centerline attachments (inch)*
914057: Pointed ID measuring attachments (mm)*
914058: Pointed ID measuring attachments (inch)*
914053: Attachment clamps (for models up to 24" / 600mm range)
914054: Attachment clamps (for models over 24" / 600mm range)

* Attachment clamps are required and not available for long jaw type.

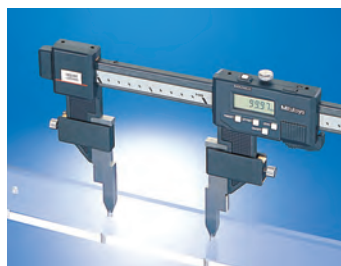




552-151-10



Ceramic jaws

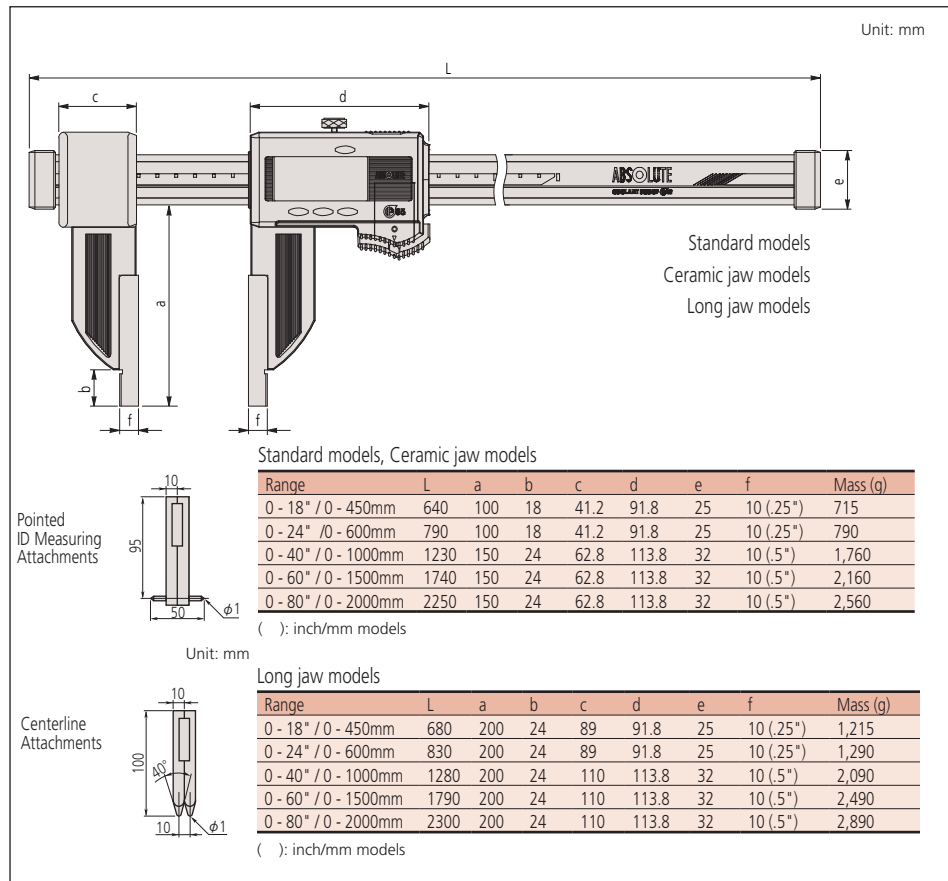


Centerline attachments



ID point attachments

DIMENSIONS AND MASS

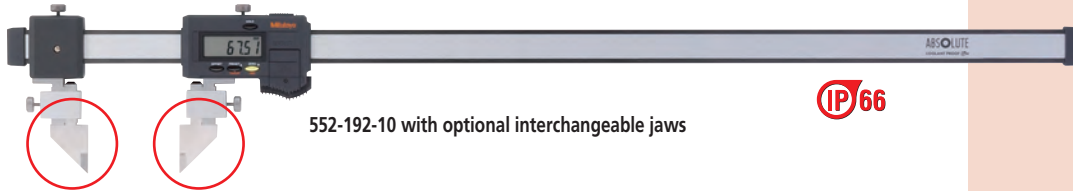


ABSOLUTE Coolant Proof Carbon Fiber Caliper

SERIES 552 — with Interchangeable Jaws

FEATURES

- The range of applications can be expanded by using interchangeable jaws (optional).
- Quick and easy exchanging of jaws due to the unique clamping mechanism. (A pair of clamping wheels is a standard accessory.)
- Provided with preset function for setting a desired starting point, which allows direct readout of offset measurements.
- SPC data output.



552-192-10 with optional interchangeable jaws

IP66

SPECIFICATIONS

Inch/Metric

Range	Order No.	Accuracy	Mass(g)
0 - 18" / 0 - 450mm	552-191-10	±.002"	650
0 - 24" / 0 - 600mm	552-192-10	±.002"	725
0 - 40" / 0 - 1000mm	552-193-10	±.002"	1480
0 - 60" / 0 - 1500mm	552-194-10	±.004"	1880
0 - 80" / 0 - 2000mm	552-195-10	±.005"	2280

Interchangeable Jaws (Optional)

Standard type

Inside point type

Surface Plate Type

Scriber Type

Centerline Type

Unit: mm

Standard Type

Order No.	Components	a	b
07CZA056	Right (07CAA044), Left (07CAA045)	28mm (1.1")	30mm (1.2")

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)	0.31"	1.2"

Surface Plate Type

Order No.	a	b
07CZA044	3.5" / 90mm	1.1" / 28mm

Centerline Type

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

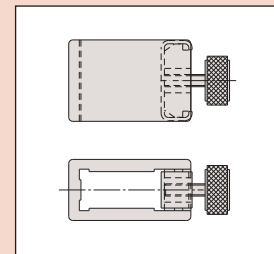
SPC

ABSOLUTE®
Absolute System Patented by MITUTOYO

IP66

Technical Data

Accuracy: Refer to the list of specifications.
Resolution: .0005"/0.01mm
Display: LCD
Scale type: ABSOLUTE electromagnetic linear encoder
Max. response speed: Unlimited
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 5,000 hours in continuous use
Dust/Water protection level: IP66
Standard accessory: Jaw clamps (2 pcs.), **05GZA033**



Functions

Origin-set, Zero-setting, Presetting, Offsetting, Data hold,
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 (40" / 1m)
05CZA625: SPC cable with data switch (80" / 2m)
02AZD790A: SPC cable for U-WAVE w/ data switch (160mm)



**ABSOLUTE®**

Absolute System Patented by MITUTOYO

Technical Data

Accuracy: Refer to the list of specifications.

Resolution: 0.01mm

Display: LCD

Length standard*: ABSOLUTE electrostatic capacitance type linear encoder

Max. response speed: Unlimited

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

Battery life: Approx. 3.5 years under normal use

Function

Origin-set, Zero-setting, Power On/Off, Data output, inch/mm conversion (on inch/metric models only)

Alarm: Low voltage, Counting value composition error

Optional Accessories

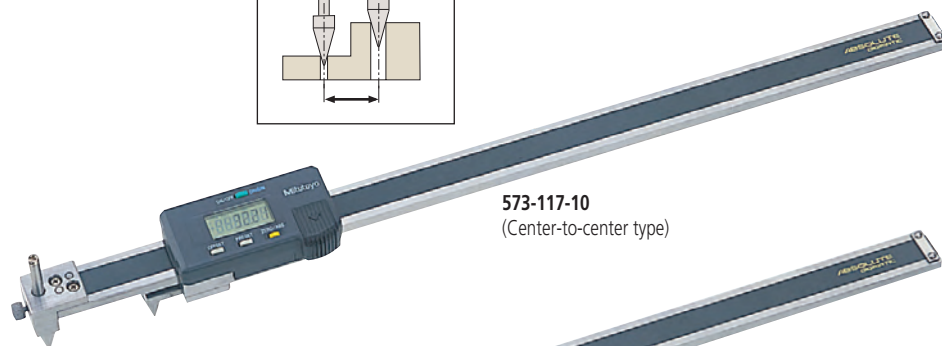
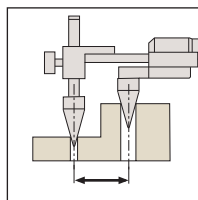
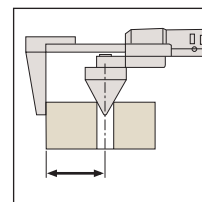
959143: Data hold unit**959149:** SPC cable with data switch (1m)**959150:** SPC cable with data switch (2m)

ABSOLUTE Back-Jaw Centerline Caliper

SERIES 573 — Center-to-Center & Edge-to-Center Types

FEATURES

- Specially designed to measure the distance between two centers or the distance from an edge to center.
- Provided with jaws on the back of the slider, measurements can be read easily by looking down.
- Direct reading of pitch measurements is available due to the offset value setting function.
- With SPC data output.
- Supplied fitted in wooden case.

**573-117-10**
(Center-to-center type)**573-119-10**
(Edge-to-center type)

SPECIFICATIONS

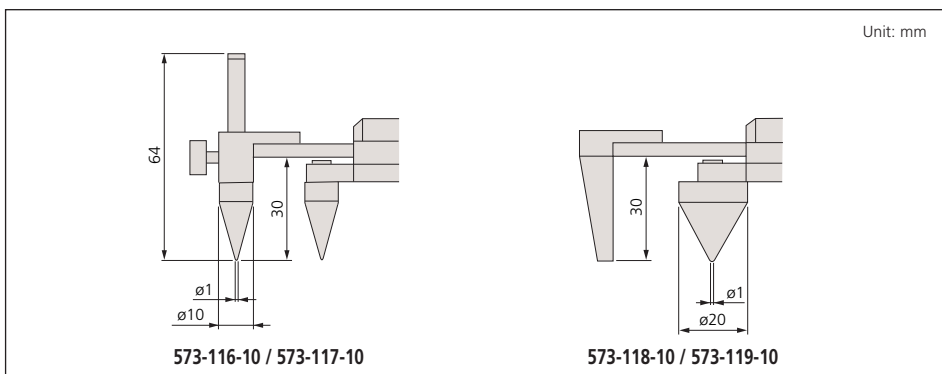
Metric — Center-to-center distance type

Range	Order No.	Accuracy	Resolution	Mass (g)
10 - 200mm	573-116-10	±0.10mm	0.01mm	482
10 - 300mm	573-117-10	±0.15mm	0.01mm	578

Metric — Edge-to-center distance type

Range	Order No.	Accuracy	Resolution	Mass (g)
10 - 200mm	573-118-10	±0.10mm	0.01mm	485
10 - 300mm	573-119-10	±0.15mm	0.01mm	581

DIMENSIONS

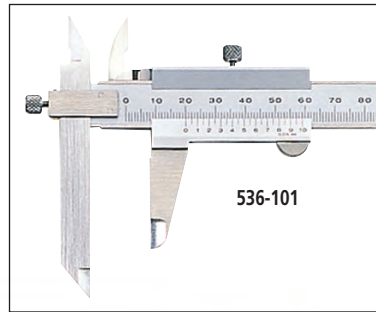


Offset Caliper

SERIES 573, 536 — ABSOLUTE Digimatic and Vernier Type

FEATURES

- Main scale jaw can slide up and down to facilitate measurement of stepped sections. (Hard-to-get-at dimensions such as A, B, C can be accurately measured.)
- With depth bar.
- With SPC data output. (Series 573)
- Supplied in fitted plastic case.



536-101



573-701



SPECIFICATIONS

Metric Digital model

Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 150mm	573-601	±0.02mm	0.01mm	168
0 - 200mm	573-602	±0.02mm	0.01mm	198
0 - 300mm	573-604	±0.03mm	0.01mm	350

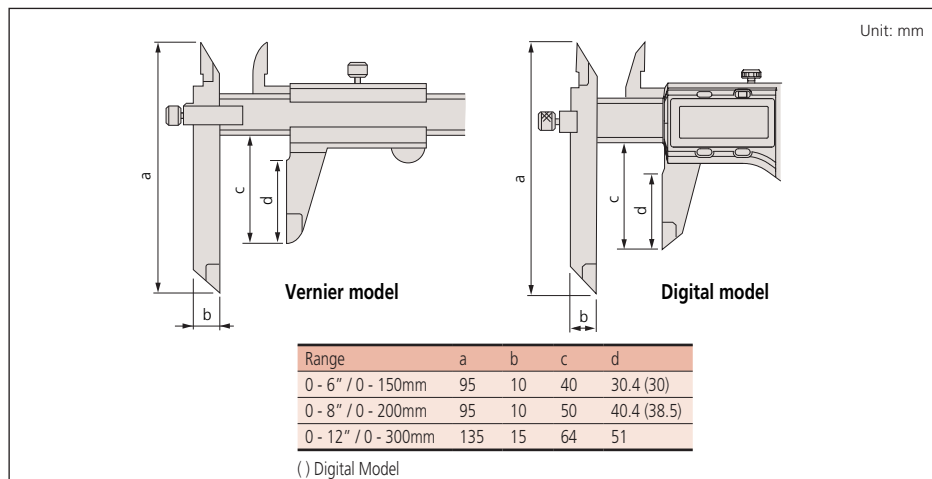
Metric

Range	Order No.	Accuracy	Graduation	Mass (g)
0 - 150mm	536-101	±0.05mm	0.05mm	150
0 - 200mm	536-102	±0.05mm	0.05mm	200
0 - 300mm	536-103	±0.08mm	0.05mm	400

Inch/Metric Digital model

Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 6" / 0 - 150mm	573-701	±.001"	.0005" / 0.01mm	168
0 - 8" / 0 - 200mm	573-702	±.001"	.0005" / 0.01mm	198
0 - 12" / 0 - 300mm	573-704	±.0015"	.0005" / 0.01mm	350

DIMENSIONS



Technical Data

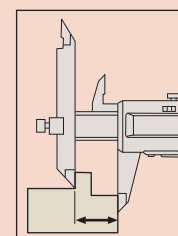
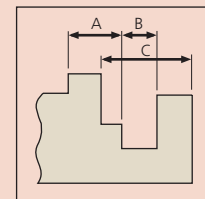
Accuracy: Refer to the list of specifications.
 Resolution*: .0005"/0.01mm or 0.01mm
 Graduation**: 0.05mm
 Display*: LCD
 Length standard*: ABSOLUTE electrostatic capacitance type linear encoder
 Max. response speed*: Unlimited
 Battery*: SR44 (1 pc.), 938882
 Battery life*: Approx. 3.5 years under normal use
 *Digital models **Analog models

Function of Digital Model

Origin-set, Zero-setting, Power On/Off, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

05CZA624: SPC cable with data switch (40" / 1m)
 05CZA625: SPC cable with data switch (80" / 2m)

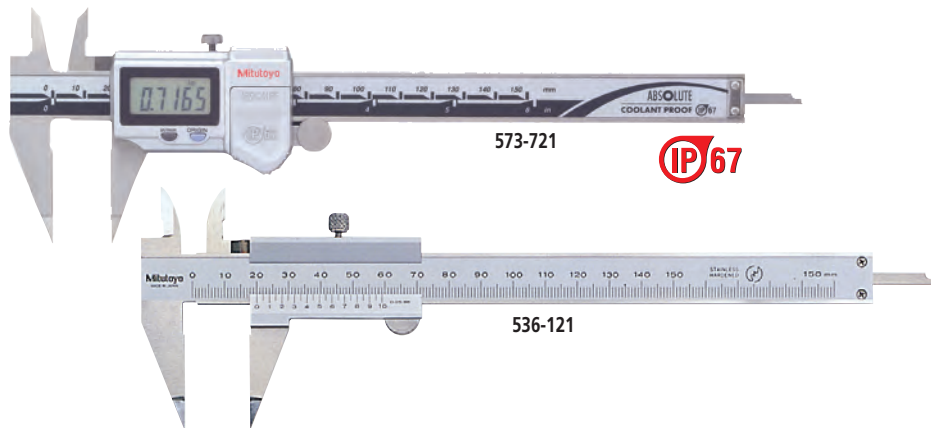


Point Caliper

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.
- With SPC data output. (Series 573)
- Supplied in fitted plastic case.



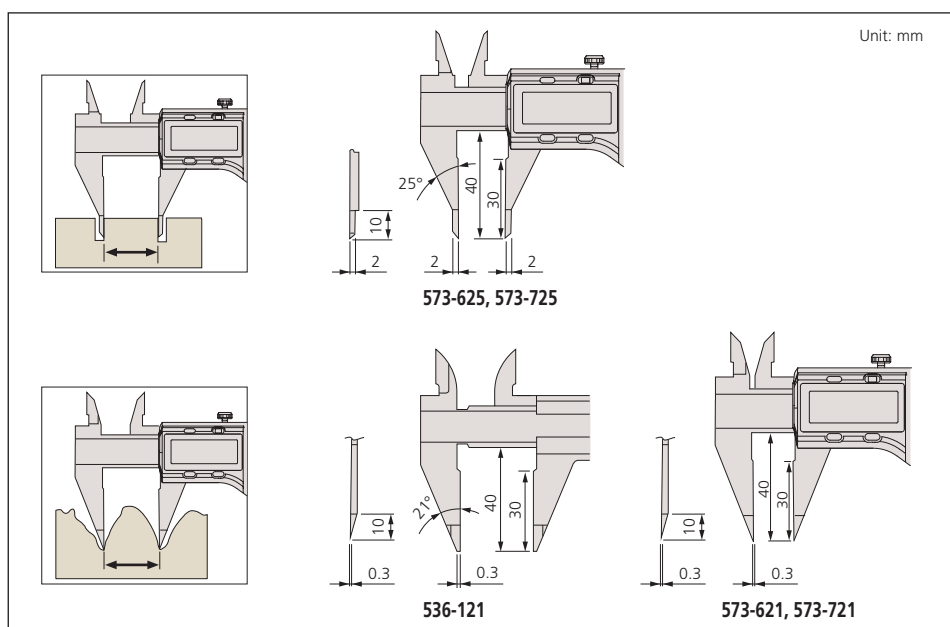
SPECIFICATIONS

Metric Digital model				
Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 150mm	573-621	±0.02mm	0.01mm	163
0 - 150mm	573-625	±0.02mm	0.01mm	163

Inch/Metric Digital model				
Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 6" / 0 - 150mm	573-721	±.001"	.0005" / 0.01mm	163
0 - 6" / 0 - 150mm	573-725	±.001"	.0005" / 0.01mm	163

Metric				
Range	Order No.	Accuracy	Graduation	Mass (g)
0 - 150mm	536-121	±0.05mm	0.05mm	150

DIMENSIONS



SPC

IP67

ABSOLUTE
Absolute System Patented by MITUTOYO

www.tuv.com
TÜV
TÜV Rheinland
ID:2011207400

Technical Data

Accuracy: Refer to the list of specifications.
Resolution*: .0005"/0.01mm or 0.01mm
Graduation**: 0.05mm
Display*: LCD
Length standard*: ABSOLUTE electrostatic capacitance type linear encoder
Max. response speed*: Unlimited
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 3.5 years under normal use
*Digital models **Analog models

Function of Digital Model

Origin-set, Zero-setting, Power On/Off, Data output, inch/mm conversion (on inch/metric models only)
Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

05CZA624: SPC cable with data switch (40" / 1m)
05CZA625: SPC cable with data switch (80" / 2m)





Technical Data

Accuracy: Refer to the list of specifications.
 Resolution*: .0005" / 0.01 mm or 0.01 mm
 Graduation*: 0.05 mm
 Display*: LCD
 Length standard*: ABSOLUTE electrostatic capacitance type linear encoder
 Max. response speed*: Unlimited
 Battery*: SR44 (1 pc.), **938882**
 Battery life*: Approx. 3.5 years under normal use
 *Digital models **Analog models

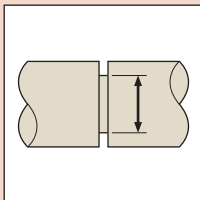
Function of Digital Model

Origin-set, Zero-setting, Power On/Off, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

05CZA624: SPC cable with data switch (40" / 1m)

05CZA625: SPC cable with data switch (80" / 2m)

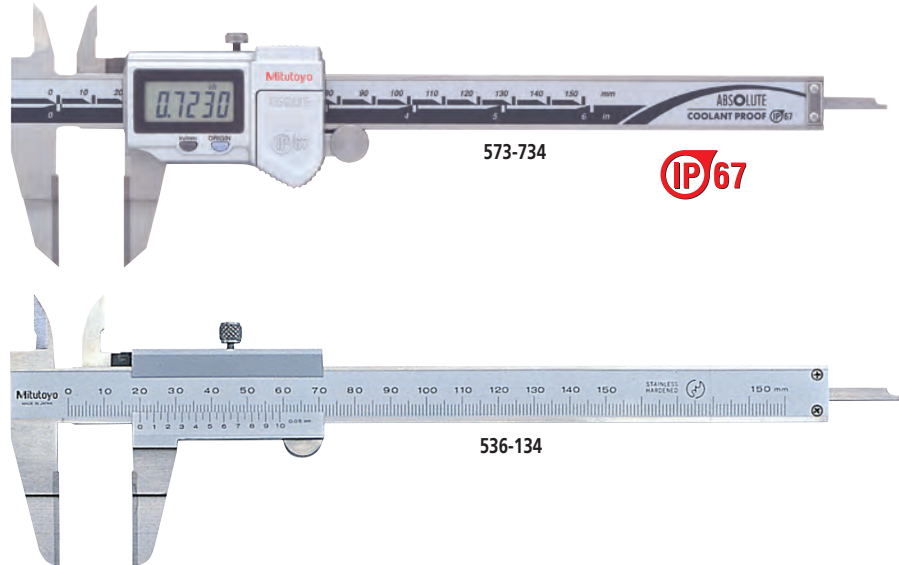


Blade Type Caliper

SERIES 573, 536 — ABSOLUTE Digimatic and Vernier Type

FEATURES

- The thin blade type jaws fit into very small grooves and making previously difficult outside measurements far easier to obtain.
- The OD measuring faces are carbide-tipped.
- With depth bar.
- With SPC data output. (Series 573)
- Supplied in fitted plastic case.



SPECIFICATIONS

Metric Digital model

Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 150mm	573-634	±0.02mm	0.01mm	168

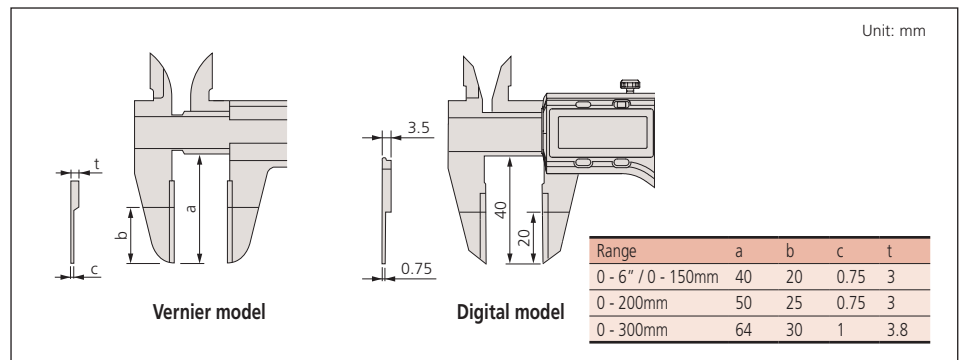
Inch/Metric Digital model

Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 6" / 0 - 150mm	573-734	±.001"	.0005" / 0.01mm	168

Metric

Range	Order No.	Accuracy	Graduation	Mass (g)
0 - 150mm	536-134	±0.05mm	0.05mm	130
0 - 200mm	536-135	±0.05mm	0.05mm	160
0 - 300mm	536-136	±0.08mm	0.05mm	340

DIMENSIONS



Neck Caliper

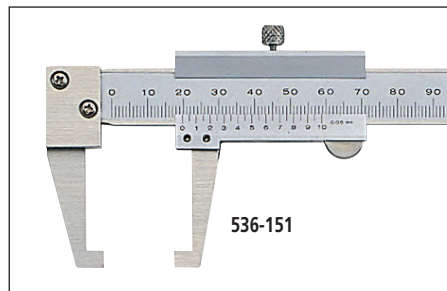
SERIES 573, 536 — ABSOLUTE Digimatic and Vernier Type

FEATURES

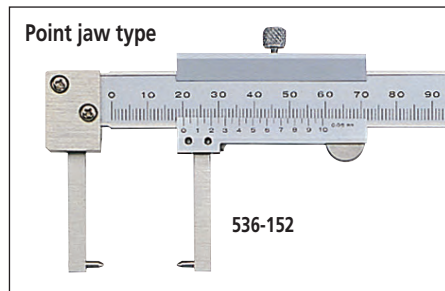
- Point jaw type can measure wall thickness inside bores and recesses.
- Flat jaw type can measure grooves and recesses.
- With SPC data output. (Series 573)
- Supplied in fitted plastic case.



573-752



536-151



536-152

SPECIFICATIONS

Metric Digital model

Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 150mm	573-651	±0.03mm	0.01mm	157
0 - 150mm	573-652*	±0.03mm	0.01mm	157

*Point jaw type

Inch/Metric Digital model

Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 6" / 0 - 150mm	573-751	±.0015"	.0005" / 0.01mm	157
0 - 6" / 0 - 150mm	573-752*	±.0015"	.0005" / 0.01mm	157

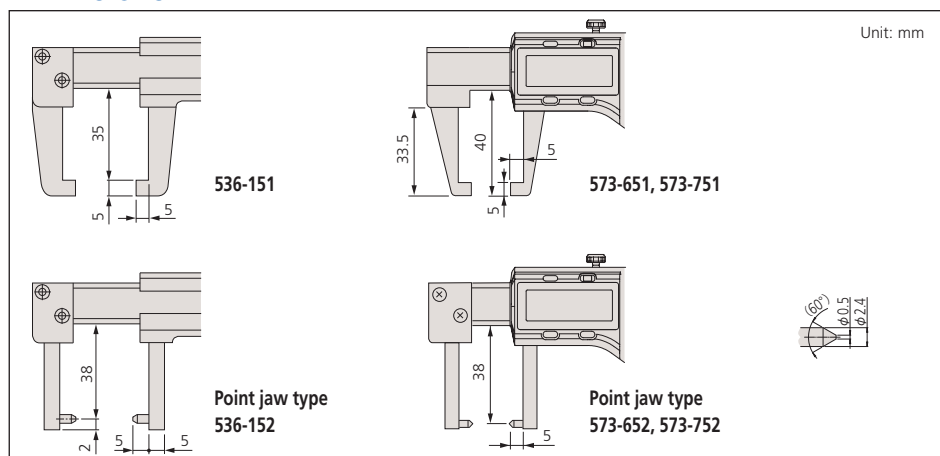
*Point jaw type

Metric

Range	Order No.	Accuracy	Graduation	Mass (g)
0 - 150mm	536-151	±0.05mm	0.05mm	140
0 - 150mm	536-152*	±0.05mm	0.05mm	140

*Point jaw type

DIMENSIONS



Unit: mm



Technical Data

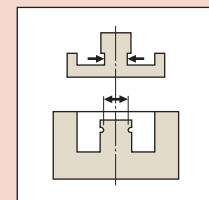
Accuracy: Refer to the list of specifications.
 Resolution*: 0.01mm or .0005"/0.01mm
 Graduation**: 0.05mm
 Display*: LCD
 Length standard*: ABSOLUTE electrostatic capacitance type linear encoder
 Max. response speed*: Unlimited
 Battery*: SR44 (1 pc.), **938882**
 Battery life*: Approx. 3.5 years under normal use
 *Digital models **Analog models

Function of Digital Model

Origin-set, Zero-setting, Power On/Off, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

05CZA624: SPC cable with data switch (1m / 40")
05CZA625: SPC cable with data switch (2m / 80")





Technical Data

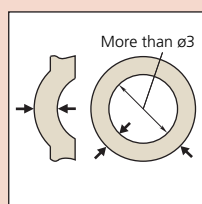
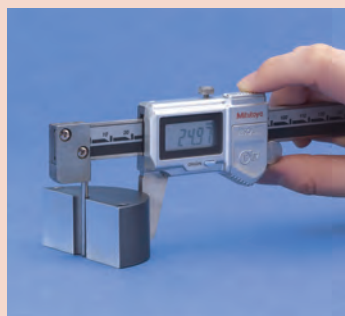
Accuracy: Refer to the list of specifications.
 Display*: LCD
 Length standard: ABSOLUTE electrostatic capacitance type linear encoder
 Max. response speed*: Unlimited
 Battery*: SR44 (1 pc.), **938882**
 Battery life*: Approx. 3.5 years under normal use
 *Digital models **Analog models

Function of Digital Model

Origin-set, Zero-setting, Power On/Off, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

05CZA624: SPC cable with data switch (40" / 1m)
05CZA625: SPC cable with data switch (80" / 2m)

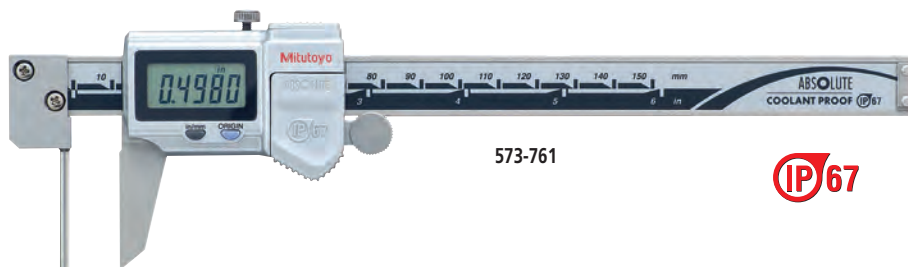


Tube Thickness Caliper

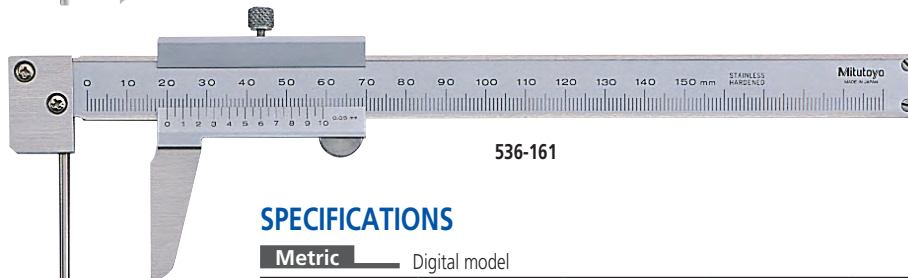
SERIES 573, 536 — ABSOLUTE Digimatic and Vernier Type

FEATURES

- The main scale jaw is a round bar that facilitates measurements of tube wall thickness.
- With SPC data output. (Series 573)
- Supplied in fitted plastic case.



573-761



536-161

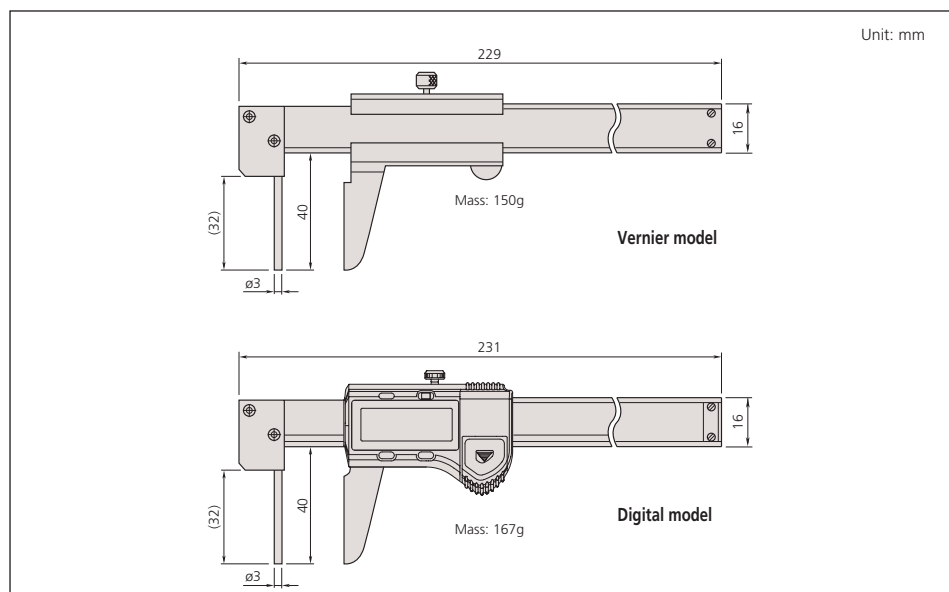
SPECIFICATIONS

Metric		Digital model		
Range	Order No.	Accuracy	Resolution	Mass(g)
0 - 150mm	573-661	±0.05mm	0.01mm	167

Inch/Metric		Digital model		
Range	Order No.	Accuracy	Resolution	Mass(g)
0 - 6" / 0 - 150mm	573-761	±.002"	.0005" / 0.01mm	167

Metric				
Range	Order No.	Accuracy	Graduation	Mass(g)
0 - 150mm	536-161	±0.05mm	0.05mm	150

DIMENSIONS AND MASS



ABSOLUTE Low Force Caliper

SERIES 573

FEATURES

- Due to the low measuring force these calipers are ideal for elastic or resilient workpieces such as plastic parts and rubber parts that standard calipers cannot measure.
- With SPC data output.
- Supplied in fitted plastic case.



573-191-20

SPECIFICATIONS

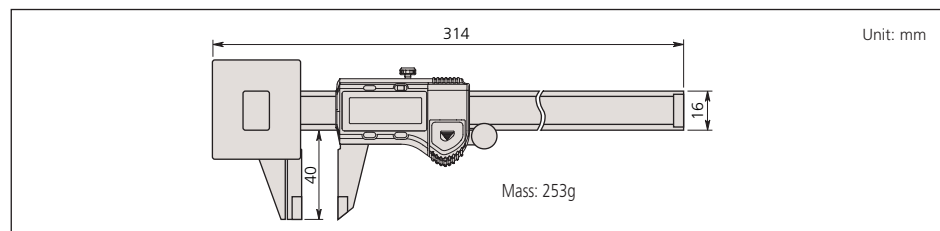
Metric

Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 180mm	573-191-20	±0.05mm	0.01mm	253

Inch/Metric

Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 7" / 0 - 180mm	573-291-20	±.002"	.0005" / 0.01mm	253

DIMENSIONS AND MASS



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.
- With SPC data output.
- Supplied in fitted plastic case.



573-281-20

SPECIFICATIONS

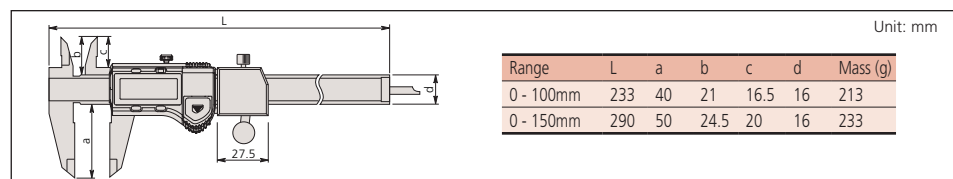
Metric

Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 100mm	573-181-20	±0.02mm	0.01mm	213
0 - 150mm	573-182-20	±0.02mm	0.01mm	233

Inch/Metric

Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 4" / 0 - 100mm	573-281-20	±.001"	.0005" / 0.01mm	213
0 - 6" / 0 - 150mm	573-282-20	±.001"	.0005" / 0.01mm	233

DIMENSIONS AND MASS



Range	L	a	b	c	d	Mass (g)
0 - 100mm	233	40	21	16.5	16	213
0 - 150mm	290	50	24.5	20	16	233

SPC

ABSOLUTE
Absolute System Patented by MITUTOYO

Technical Data

Accuracy: Refer to the list of specifications.
Resolution: .0005"/0.01mm or 0.01mm
Display: LCD
Length standard: ABSOLUTE electrostatic capacitance type 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

Function

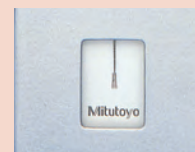
Origin-set, Zero-setting, Power On/Off, Data output, inch/mm conversion (on inch/metric models only)
Alarm: Low voltage, Counting value composition error

Optional Accessories

959143: Data hold unit
959149: SPC cable with data switch (40" / 1m)
959150: SPC cable with data switch (80" / 2m)



Measurement procedures



To measure resilient workpieces take the measurement when the pointer is between the two index lines.

SPC

ABSOLUTE
Absolute System Patented by MITUTOYO

Technical Data

Accuracy: Refer to the list of specifications.
Resolution: .0005"/0.01mm or 0.01mm
Repeatability: .0005" / 0.01mm
Display: LCD
Length standard: ABSOLUTE electrostatic capacitance type 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

Function

Origin-set, Zero-setting, Power On/Off, Data output, inch/mm conversion (on inch/metric models only)
Alarm: Low voltage, Counting value composition error

Optional Accessories

959143: Data hold unit
959149: SPC cable with data switch (40" / 1m)
959150: SPC cable with data switch (80" / 2m)



Technical Data

Accuracy: Refer to the list of specifications.
 Display: LCD
 Length standard: ABSOLUTE electrostatic capacitance type linear encoder
 Max. response speed: Unlimited
 Battery: SR44 (1 pc.), **938882**
 Battery life: Approx. 3.5 years under normal use

Function

Origin-set, Zero-setting, Power On/Off, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

Optional Accessories

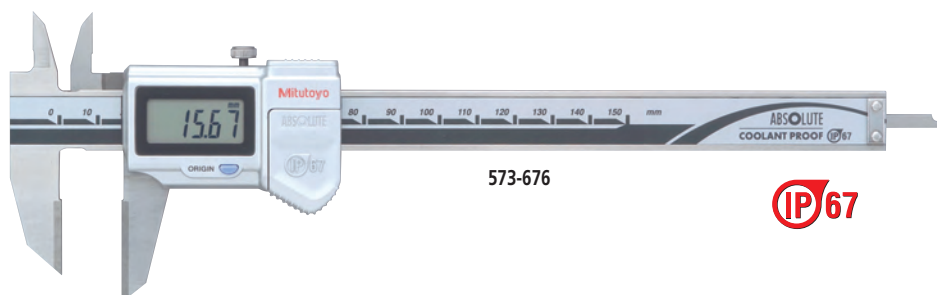
05CZA624: SPC cable with data switch (40" / 1m)
05CZA625: SPC cable with data switch (80" / 2m)

Scribing Caliper

SERIES 573, 536 — ABSOLUTE Digimatic and Vernier Type

FEATURES

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



SPECIFICATIONS

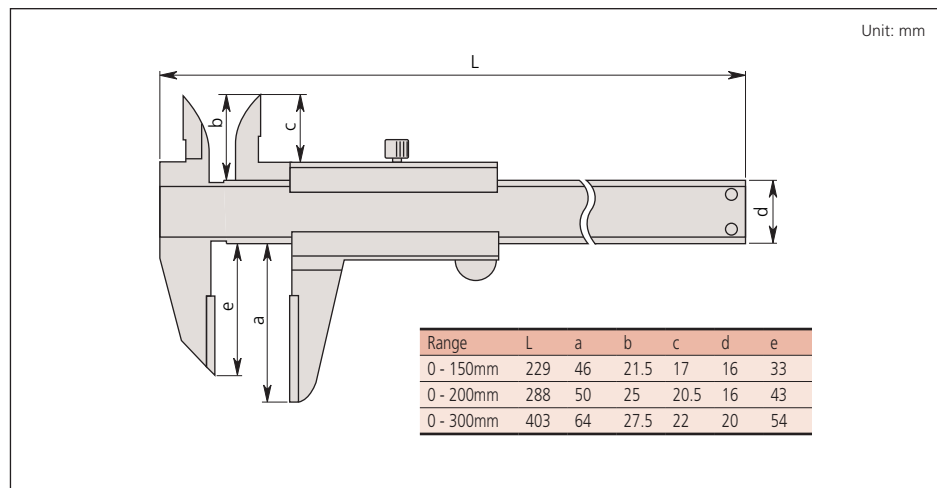
Metric Digital model

Range	Order No.	Accuracy	Resolution	Mass (g)
0 - 150mm	573-676	±0.02mm	0.01mm	166
0 - 200mm	573-677	±0.02mm	0.01mm	196
0 - 300mm	573-679	±0.03mm	0.01mm	345

Metric Vernier type

Range	Order No.	Accuracy	Graduation	Mass (g)
0 - 150mm	536-221	±0.05mm	0.05mm	150
0 - 200mm	536-222	±0.05mm	0.05mm	180
0 - 300mm	536-223	±0.08mm	0.05mm	355

DIMENSIONS



ABSOLUTE Inside Caliper

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

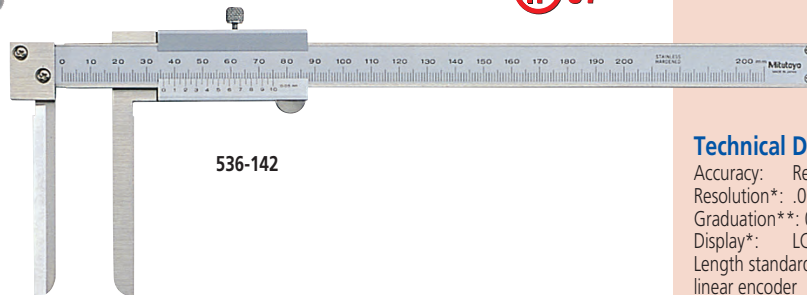
FEATURES

- Specially designed for inside measurements in hard-to-reach places.
 - With SPC data output. (Series 573)
 - Supplied in fitted plastic case.
- 18" / 450mm and 24" / 600mm supplied in wooden case.

Knife-edge type



573-742

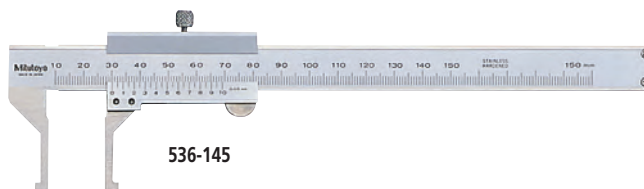


536-142

Inside groove type



573-745

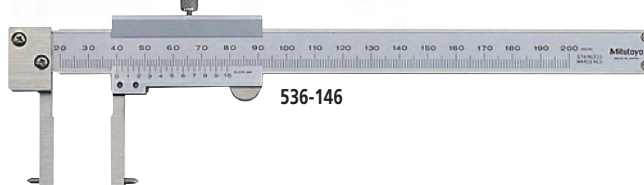


536-145

Point jaw type



573-746



536-146

SPECIFICATIONS

Metric Digital model

Range	Order No.	Accuracy	Remarks	Mass (g)
10 - 200mm	573-642	±0.05mm	Knife-edge type, Measurable min. hole diameter: ø10mm	227
10 - 160mm	573-645	±0.05mm	Inside groove type, Measurable min. hole diameter: ø10mm	147
20 - 170mm	573-646	±0.03mm	Point jaw type, Measurable min. hole diameter: ø20mm	157

Inch/Metric Digital model

Range	Order No.	Accuracy	Remarks	Mass (g)
.4" - 8" / 10-200mm	573-742	±.002"	Knife-edge type, Measurable min. hole diameter: ø.4"	227
.4" - 6" / 10-150mm	573-745	±.002"	Inside groove type, Measurable min. hole diameter: ø.4"	147
.8" - 6" / 20-150mm	573-746	±.0015"	Point jaw type, Measurable min. hole diameter: ø.8"	157

Metric

Range	Order No.	Accuracy	Remarks	Mass (g)
10 - 200mm	536-142	±0.12mm	Knife-edge type, Measurable min. hole diameter: ø10mm	210
10 - 150mm	536-145	±0.05mm	Inside groove type, Measurable min. hole diameter: ø10mm	130
20 - 150mm	536-146	±0.05mm	Point jaw type, Measurable min. hole diameter: ø20mm	140
30 - 300mm	536-147	±0.08mm	Point jaw type, Measurable min. hole diameter: ø30mm	370
70 - 450mm	536-148	±0.10mm	Point jaw type, Measurable min. hole diameter: ø70mm	1,250
70 - 600mm	536-149	±0.12mm	Point jaw type, Measurable min. hole diameter: ø70mm	1,430



Technical Data

Accuracy: Refer to the list of specifications.
 Resolution*: .0005" / 0.01mm / 0.01mm
 Graduation*: 0.05mm
 Display*: LCD
 Length standard*: ABSOLUTE electrostatic capacitance type linear encoder
 Max. response speed*: Unlimited
 Battery*: SR44 (1 pc.), 938882
 Battery life*: Approx. 3.5 years under normal use
 *Digital models **Analog models

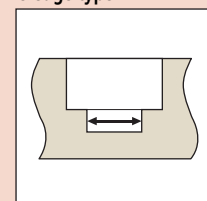
Function of Digital Model

Origin-set, Zero-setting, Power On/Off, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

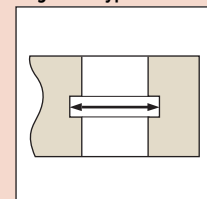
Optional Accessories for Digital Model

05CZA624: SPC cable with data switch (40" / 1m)
 05CZA625: SPC cable with data switch (80" / 2m)

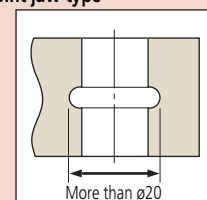
Knife-edge type



Inside groove type



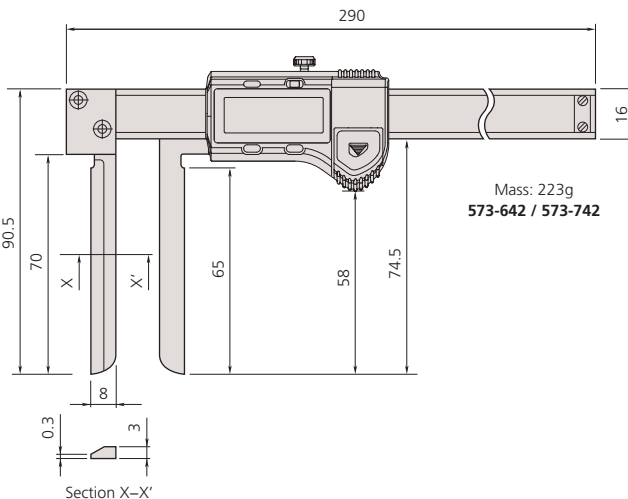
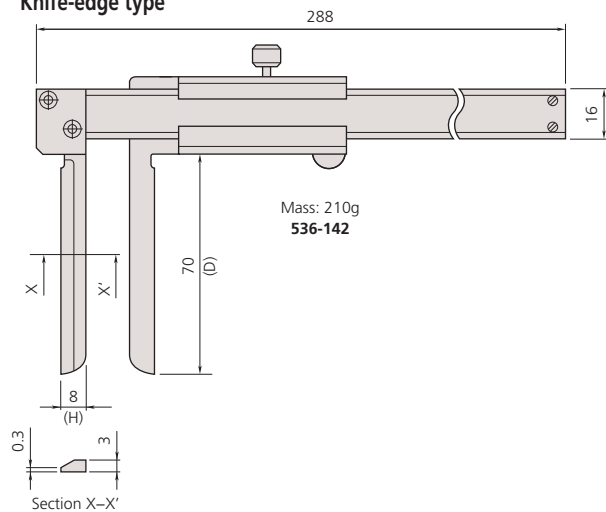
Point jaw type



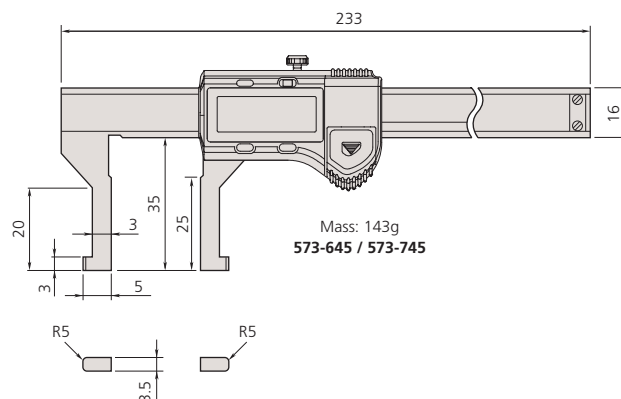
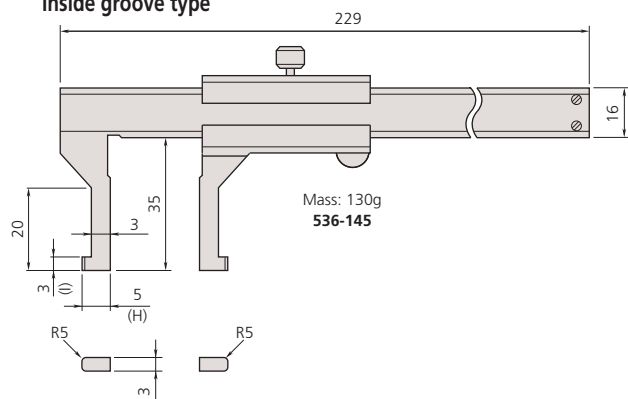
DIMENSIONS AND MASS

Unit: mm

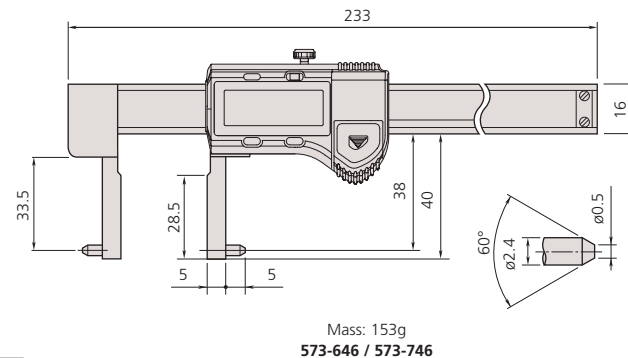
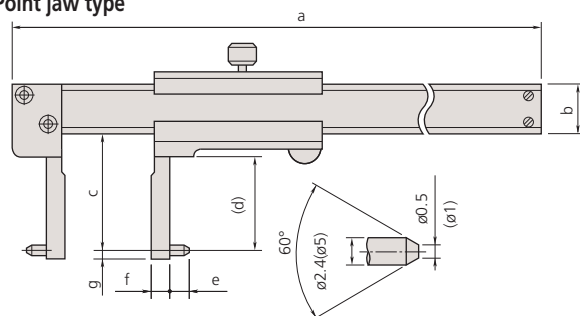
Knife-edge type



Inside groove type



Point jaw type



Order No.	Range	a	b	c	d	e	f	g	Mass (g)
536-146	150mm	229	16	38	31	5	5	2	140
536-147	300mm	403	20	98	89	5	10	2	370
536-148	450mm	610	25	145	136	10	25	5	1,250
536-149	600mm	750	25	145	136	10	25	5	1,430

MyCAL-Lite

SERIES 700 — Digital Caliper for DIY

FEATURES

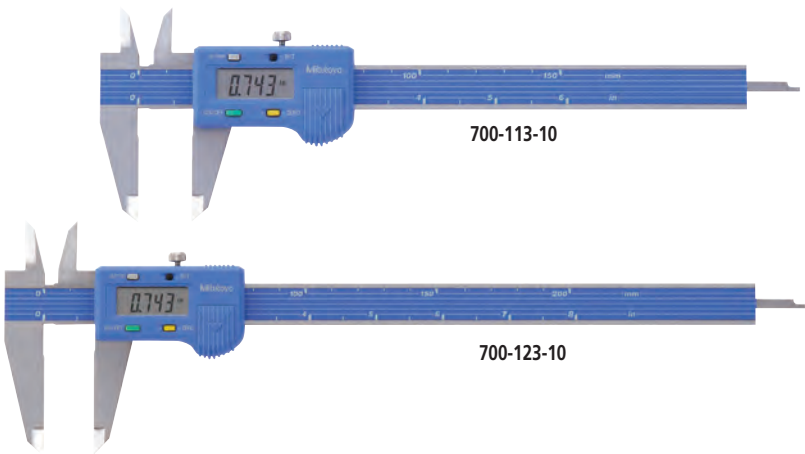
- The “MyCAL-Lite” is an ideal measuring tool for DIY.
- The LCD screen allows error-free readout of measurements.
- With depth measuring bar.

Technical Data

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

Function

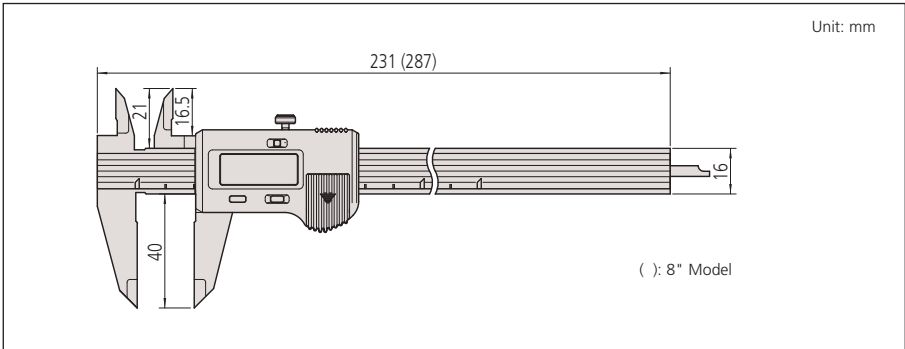
Zero-setting, Power on/off
inch/mm conversion
Alarm: Low voltage, Counting value composition error



SPECIFICATIONS

Inch/Metric			
Range	Order No.	Accuracy	Mass (g)
0 - 6" / 0 - 150mm	700-113-10	±.005" / ±0.2mm	150
0 - 8" / 0 - 200mm	700-123-10	±.005" / ±0.2mm	170

DIMENSIONS

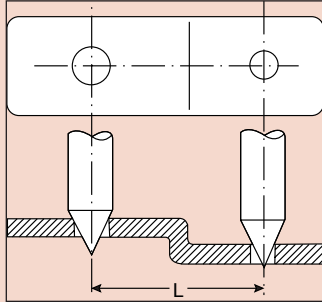


Center Line Gage

Optional Accessories for Caliper

FEATURES

Pairs of conical probes are specially designed for Digimatic, Dial and Vernier calipers to quickly measure centerline distances.



050001

Application for 4", 6" and 8" Vernier, Dial and Digimatic Calipers, requiring dimensions over .375".



050018

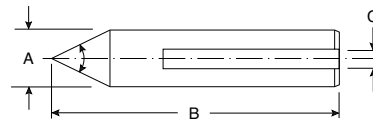
Application for 12" Vernier, Dial and Digimatic Calipers requiring dimensions over .5".

SPECIFICATIONS

Center Line Gage

Order No.	Description
050001	For 4, 6 and 8" Calipers
050018	For 12" Calipers

DIMENSIONS



	A	B	C
050001	.375"	2.187"	.141"
050018	.500"	2.75"	.154"

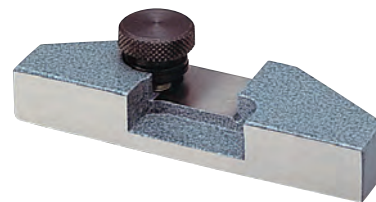
Depth Base Attachment

Optional Accessories for Caliper

FEATURES

- For 4", 6", 8", 12" / 100mm, 150mm, 200mm, 300mm, vernier, dial and digital calipers which have a depth measuring bar.

- Finely ground base surface and secure locking clamp.



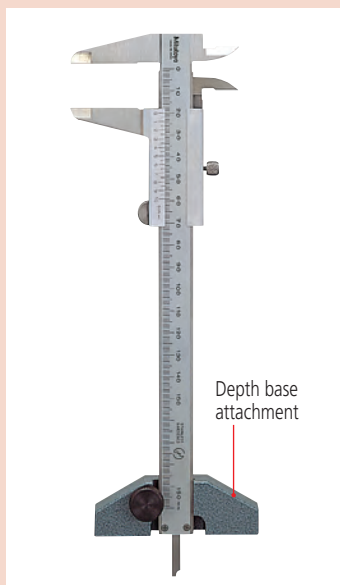
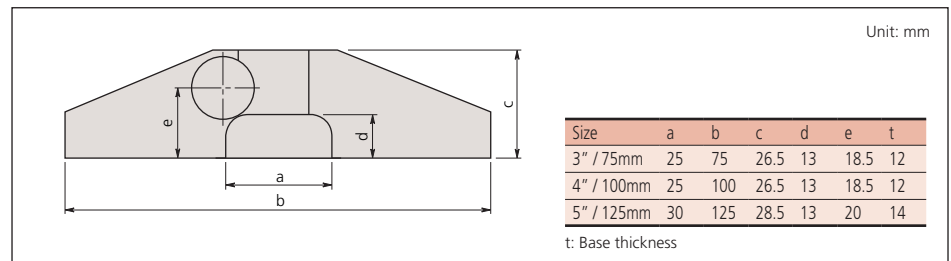
050084-10

SPECIFICATIONS

Inch/Metric

Size	Order No.	Remarks (applicable measuring range of caliper)
3" / 75mm	050083-10	4", 6", 8" / 100mm, 150mm, 200mm
4" / 100mm	050084-10	4", 6", 8" / 100mm, 150mm, 200mm
5" / 125mm	050085-10	12" / 300mm

DIMENSIONS



Digimatic Height Gage

SERIES 192 — Multi-Function Type with SPC Data Output

FEATURES

- Highly versatile multi-function type.
- Carbide-tipped long scriber is provided.
- Rigid construction ensures repeatable measurement.
- Switchable resolution.
- Coarse/fine feed switching.
- Bi-directional touch-signal probe is an optional accessory. It can quickly and accurately measure steps, inside width, and outside width.
- With SPC data output.
- Two preset reference height.



192-670-10

SPECIFICATIONS

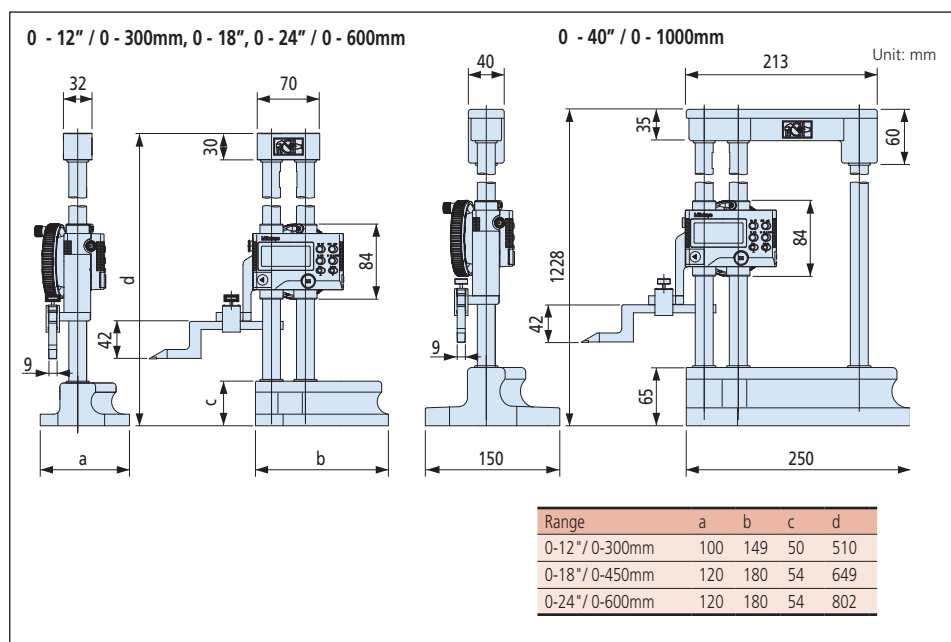
Inch/Metric

Range	Order No.	Accuracy	Resolution	Mass (kg)
0-12"/0-300mm	192-670-10	±001"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	5.7
0-18"/0-450mm	192-671-10	±0015"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	7.5
0-24"/0-600mm	192-672-10	±0015"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	8.3
0-40"/0-1000mm	192-673-10	±0025"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	15.7

Metric

Range	Order No.	Accuracy	Resolution	Mass (kg)
0-300mm	192-663-10	±0.02mm	Switchable between 0.01mm and 0.005mm	5.7
0-600mm	192-664-10	±0.04mm	Switchable between 0.01mm and 0.005mm	8.3
0-1000mm	192-665-10	±0.06mm	Switchable between 0.01mm and 0.005mm	15.7

DIMENSIONS



Technical Data

Accuracy: Refer to the list of specifications.
 Resolution: 0.01+0.005mm or 0.0005" (0.01mm)
 [0.0002" (0.005mm) switchable]
 Display: LCD, 7-digits, character height 11mm
 Max. response speed: 500mm/s
 Battery: SR44 (1 pc.), **938882**
 Battery life: Approx. 2000 hours under normal use

Function

Zero-setting, ABS/INC switching, Two presets, Probe tip diameter compensation, +/- switching, Power ON/OFF, Data hold, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

Standard Scriber Provided

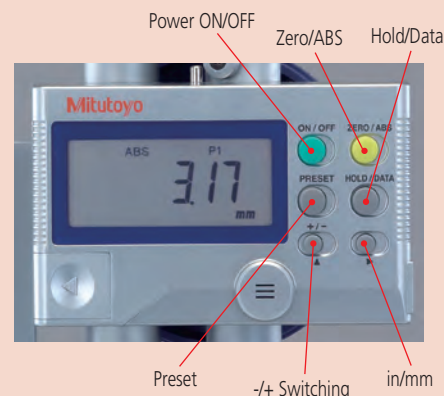
Metric models: Carbide-tipped scriber (**905200**) and scriber clamp (**05GZA033**)
 Inch/Metric models: Carbide-tipped scriber (**905201**) and scriber clamp (**901385**)

Optional Accessories

905338: SPC cable (40" / 1m)
905409: SPC cable (80" / 2m)
905691: SPC cable (L-shape, 40" / 1m)
905692: SPC cable (L-shape, 80" / 2m)
192-007: Bi-directional touch-signal probe (metric)
192-008: Bi-directional touch-signal probe (inch)
953638: Holding bar for test indicator (length: 50mm)
900209: Holding bar for test indicator (length: 100mm)
953639: Holding bar for test indicator (length: 2")
900306: Holding bar for test indicator (length: 4")
900321: Swivel clamp used with holding bar (metric)
900322: Swivel clamp used with holding bar (inch)



Shown with optional touch-signal probe



Digimatic Height Gage

SERIES 192 — Standard Type with SPC Data Output

Technical Data

Accuracy: Refer to the list of specifications.
 Resolution: .0005" (0.01mm) [.0002" (0.005mm)]
 or 0.01mm and 0.005mm
 Display: LCD, 7-digit, character height 11mm
 Max. response speed: 500mm/s
 Battery: SR44 (1 pc.), **938882**
 Battery life: Approx. 2000 hours under normal use

Function

Zero-setting, ABS/INC switching, Two presets, Probe tip diameter compensation, +/- switching, Power ON/OFF, Data hold, With Output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

Standard Scriber Provided

Metric models: Carbide-tipped scriber (**07GZA000**) and scriber clamp (**05GZA033**)
 Inch/Metric models: Carbide-tipped scriber (**900258**) and scriber clamp (**901385**)

Optional Accessories

953638: Holding bar for test indicator (length: 50mm)
900209: Holding bar for test indicator (length: 100mm)
953639: Holding bar for test indicator (length: 2")
900306: Holding bar for test indicator (length: 4")
900321: Swivel clamp used with holding bar (metric)
900322: Swivel clamp used with holding bar (inch)
905338: SBC cable (CD type) 1M
905409: SBC cable (CD type) 2M
905691: CD/Connecting Cable L-Type 1M RIG
905692: CD/Connecting Cable L-Type 2M RIG

FEATURES

- Easy-to-use standard type.
- Carbide-tipped scriber is provided.
- Double-column structure ensures high measuring accuracy.
- Coarse/fine feed switching.
- Switchable resolution
- Two preset reference height

SPECIFICATIONS

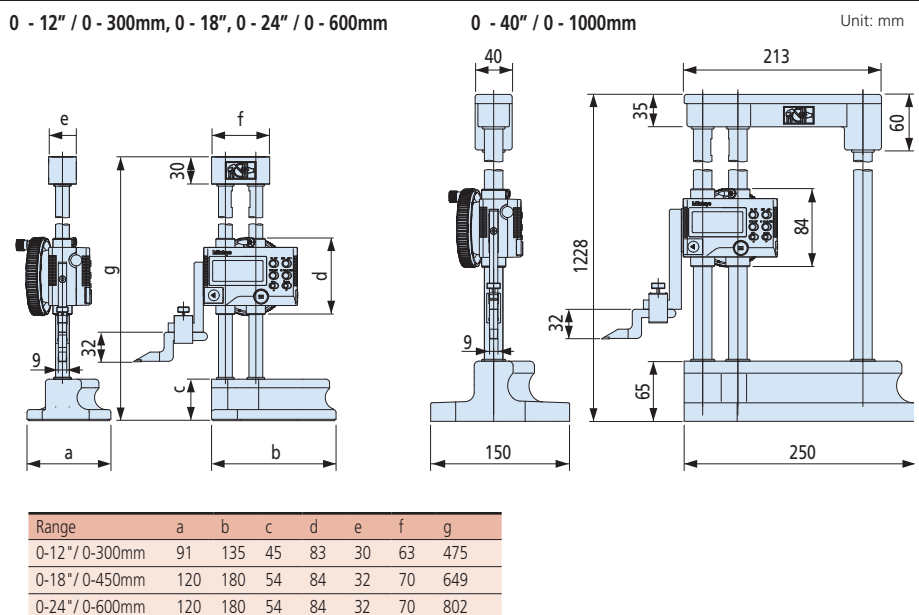
Inch/Metric				
Range	Order No.	Accuracy	Resolution	Mass (kg)
0-12"/0-300mm	192-630-10	±001"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	4.7
0-18"/0-450mm	192-631-10	±002"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	7.5
0-24"/0-600mm	192-632-10	±002"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	8.3
0-40"/0-1000mm	192-633-10	±003"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	15.7

Metric				
Range	Order No.	Accuracy	Resolution	Mass (kg)
0-300mm	192-613-10	±0.02mm	Switchable between 0.01mm and 0.005mm	4.7
0-600mm	192-614-10	±0.05mm	Switchable between 0.01mm and 0.005mm	8.3
0-1000mm	192-615-10	±0.07mm	Switchable between 0.01mm and 0.005mm	15.7



192-630-10

DIMENSIONS



Dial Height Gage

SERIES 192 — with Digital Counter

FEATURES

- Easy and error-free reading with both up and down digital counters as well as a dial.
- Provided with a feed wheel for easy coarse feeding.
- Carbide-tipped scriber is provided.
- The counters and dial can be re-zeroed at any scriber position.

SPECIFICATIONS

Metric

Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 300mm	192-130	±0.03mm	0.01mm	4.2
0 - 450mm	192-131	±0.05mm	0.01mm	9.2
0 - 600mm	192-132	±0.05mm	0.01mm	9.8
0 - 1000mm	192-133	±0.07mm	0.01mm	17.0

Inch

Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 12"	192-150	±.0015"	.001"	4.2
0 - 18"	192-151	±.002"	.001"	9.2
0 - 24"	192-152	±.002"	.001"	9.8
0 - 40"	192-153	±.003"	.001"	17.0



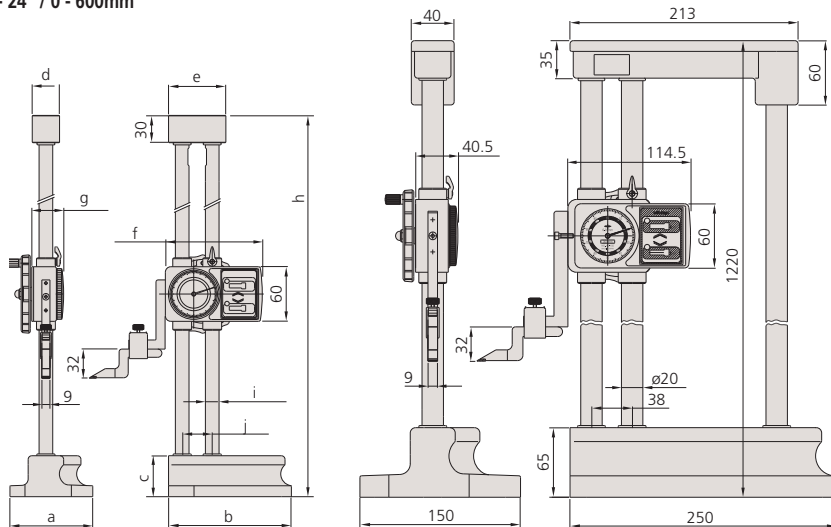
192-150

DIMENSIONS

0 - 12" / 0 - 300mm, 0 - 18" / 0 - 450mm
0 - 24" / 0 - 600mm

0 - 40" / 0 - 1000mm

Unit: mm



Range	a	b	c	d	e	f	g	h	i	j
0-12" / 0-300mm	91	135	45	30	63	106.5	35.5	470	ø15	33
0-18" / 0-450mm	120	180	54	32	70	114.5	40.5	645	ø20	38
0-24" / 0-600mm	120	180	54	32	70	114.5	40.5	798	ø20	38

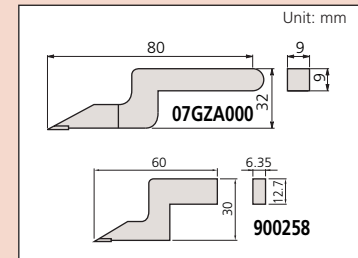
Technical Data

Dial reading: 0.01mm or .001"

Standard Scriber Provided

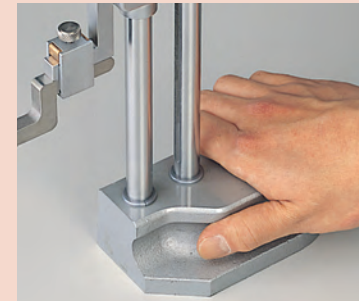
Metric models: Carbide-tipped scriber (**07GZA000**) and scriber clamp (**05GZA033**)
Inch/Metric models: Carbide-tipped scriber (**900258**) and scriber clamp (**901385**)

Dimension of scriber



Optional Accessories

953638: Holding bar for test indicator (length: 50mm)
900209: Holding bar for test indicator (length: 100mm)
953639: Holding bar for test indicator (length: 2")
900306: Holding bar for test indicator (length: 4")
900321: Swivel clamp used with holding bar (metric)
900322: Swivel clamp used with holding bar (inch)



Comfortable grip base



Easy and secure clamping



Easy and error free reading

ABSOLUTE Digimatic Height Gage

SERIES 570 — with ABSOLUTE Linear Encoder

FEATURES

- Built in ABSOLUTE linear encoder
This encoder eliminates the necessity of setting the reference point at every power-on. It has improved reliability because no over-speed error will occur.
- Fine-adjustment carriage to feed the slider finely.
- Carbide-tipped scriber is provided.
- With SPC data output.

Technical Data

Accuracy: Refer to the list of specifications.
Resolution: .0005"/0.01mm or 0.01mm
Display: LCD, 6-digit
Length standard: ABSOLUTE electrostatic capacitance type linear encoder
Max. response speed: Un limited
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 5000 hours under normal use

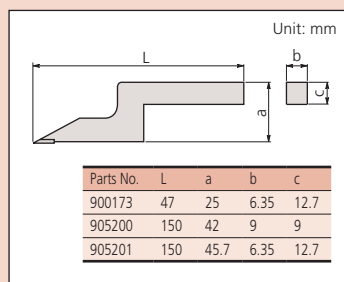
Function

Origin setting, ABS/INC switching, Presetting, +/- switching, Data hold, Data output, inch/mm conversion (on inch/metric models only)
Alarm: Low voltage, Counting value composition error

Standard Scriber Provided

Metric models: Carbide-tipped scriber (900173/905200*) and scriber clamp (901338/05GZA033*)
*0 - 1000mm model
Inch/Metric models: Carbide-tipped scriber (900173/905201*) and scriber clamp (901338/901385*)
*0 - 40" model

Dimension of scriber



Optional Accessories

905338: SPC cable (40" / 1m)
905409: SPC cable (80" / 2m)
953638: Holding bar for test indicator (length: 50mm)
953639: Holding bar for test indicator (length: 2")
902053: Swivel clamp used with holding bar (metric)
900322: Swivel clamp used with holding bar (inch)

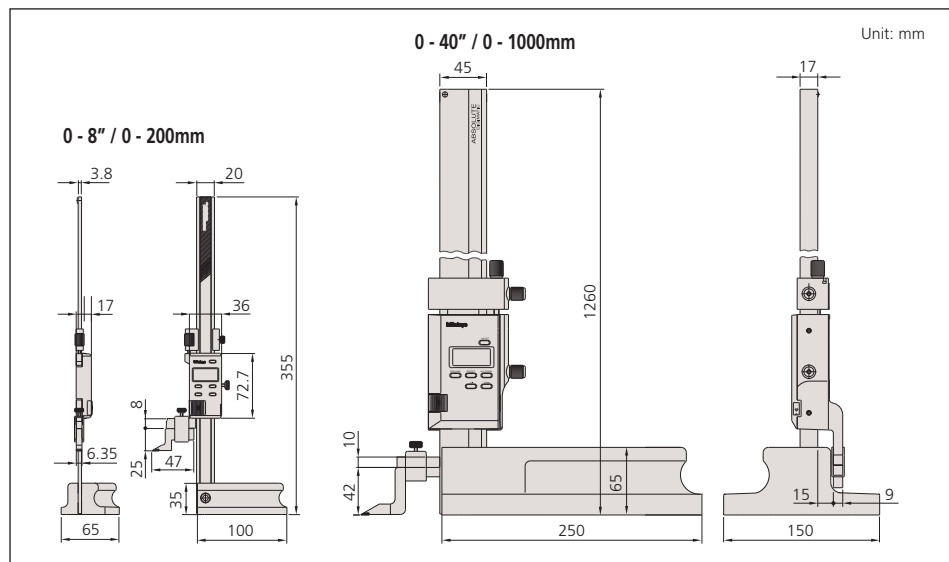


SPECIFICATIONS

Metric				
Range	Order No.	Accuracy	Resolution	Mass (kg)
0 - 200mm	570-227	±0.03mm	0.01mm	1.4
0 - 1000mm	570-230	±0.07mm	0.01mm	16.8

Inch/Metric				
Range	Order No.	Accuracy	Resolution	Mass(kg)
0 - 8" / 0 - 200mm	570-244	±.001"	.0005" / 0.01mm	1.4
0 - 40" / 0 - 1000mm	570-248	±.003"	.0005" / 0.01mm	16.8

DIMENSIONS



ABSOLUTE Digimatic Height Gage

SERIES 570 — with ABSOLUTE Linear Encoder

FEATURES

- Built in ABSOLUTE linear encoder
This encoder eliminates the necessity of setting the reference point at every power-on. It has improved reliability because no over-speed error will occur.
- Rigid column structure ensures high measuring accuracy.
- With large smooth slider feed wheel.
- Carbide-tipped scriber is provided.
- With SPC data output.

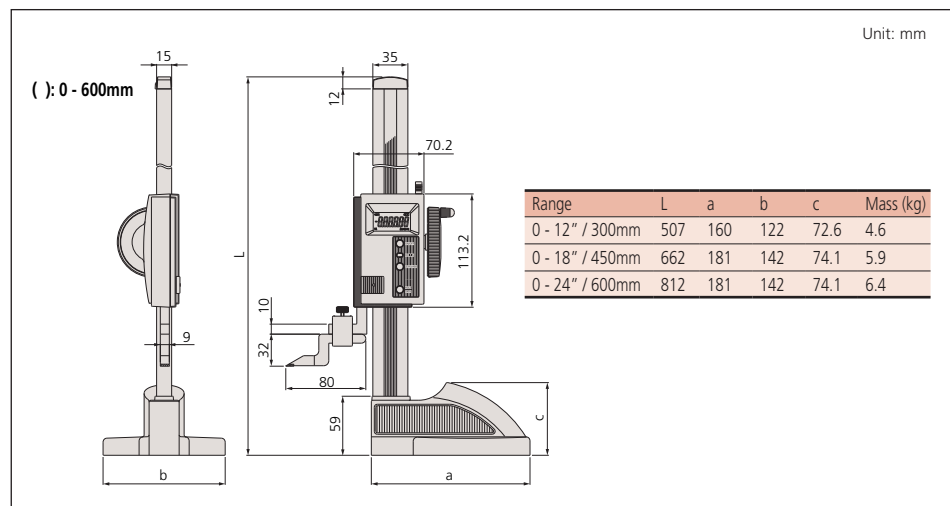


SPECIFICATIONS

Metric			
Range	Order No.	Accuracy	Resolution
0 - 300mm	570-302	±0.03mm	0.01mm
0 - 600mm	570-304	±0.05mm	0.01mm

Inch/Metric			
Range	Order No.	Accuracy	Resolution
0 - 12" / 0 - 300mm	570-312	±.0015"	.0005" / 0.01mm
0 - 18" / 0 - 450mm	570-313	±.002"	.0005" / 0.01mm
0 - 24" / 0 - 600mm	570-314	±.002"	.0005" / 0.01mm

DIMENSIONS AND MASS



Technical Data

Accuracy: Refer to the list of specifications.
 Resolution: .0005"/0.01mm or 0.01mm
 Display: LCD, 6-digit
 Length standard: ABSOLUTE electrostatic capacitance type linear encoder
 Max. response speed: Un limited
 Battery: SR44 (1 pc.), **938882**
 Battery life: Approx. 20000 hours under normal use

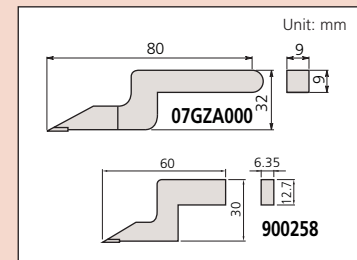
Function

Origin setting, ABS/INC switching, Power ON/OFF, Data hold, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

Standard Scriber Provided

Metric models: Carbide-tipped scriber (**07GZA000**), scriber clamp (**05GZA033**)
 Inch/Metric models: Carbide-tipped scriber (**900258**), scriber clamp (**901385**)

Dimension of scriber



Optional Accessories

905338: SPC cable (40" / 1m)
905409: SPC cable (80" / 2m)
953638: Holding bar for test indicator (length: 50mm)
953639: Holding bar for test indicator (length: 2")
902053: Swivel clamp used with holding bar (metric)
900322: Swivel clamp used with holding bar (inch)



Large smooth slider feed wheel



Large clamp lever



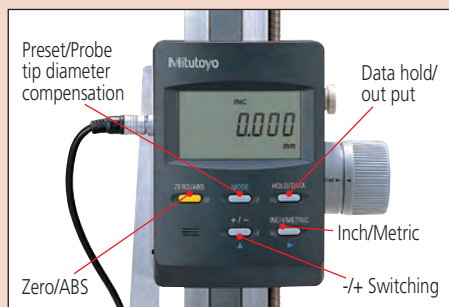
Comfortable grip base

Technical Data

Accuracy: Refer to the list of specifications.
 Repeatability: .0001" / 0.001mm
 Resolution: .0001" / 0.001mm or 0.001mm
 Display: LCD, 6-digit
 Power supply: Via AC adapter

Function

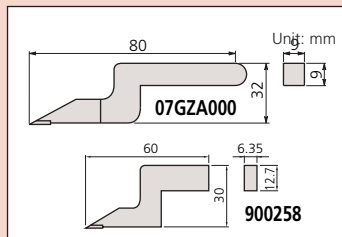
Zero-setting, Presetting, Probe tip diameter compensation, +/- switching, Data hold, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Counting value composition error



Standard Accessories

574-007: Touch-Signal Probe
 901385: Scriber Clamp
 06AEG180JA: AC Adapter

Dimensions of Optional Scribers



Optional Accessories

905691: SPC cable (40" / 1m)
 905692: SPC cable (80" / 2m)
 900322: Swivel clamp for dial test indicator (inch)
 953639: Holding bar for swivel clamp (inch)
 900258: Carbide-tipped scriber (inch)
 145250: ø1mm contact point for touch-signal probe
 145251: ø2mm contact point for touch-signal probe

Touch-Signal Probe (Standard accessory)



Order No.: 574-007

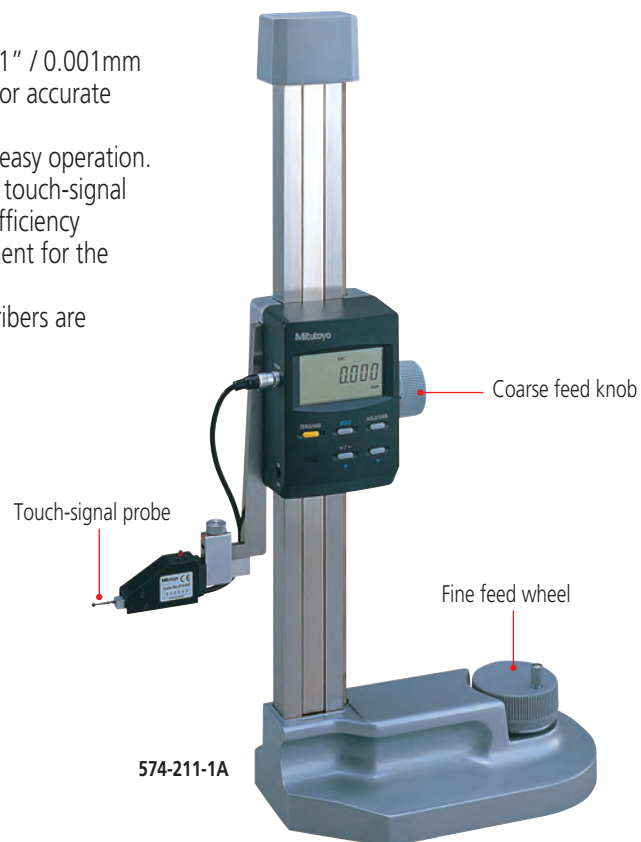
- Bi-directional type
- Over travel: Less than 3mm
- Contact point: ø3mm ball
- Repeatability: 0.0015mm
- Measuring force: 0.4N

Heightmatic™

SERIES 574 — High Precision Height Gage

FEATURES

- Provides resolution of .0001" / 0.001mm on the large LCD readout for accurate measurements.
- Excellent functionality and easy operation.
- The standard bi-directional touch-signal probe provides improved efficiency and reliability of measurement for the Heightmatic.
- Optional carbide-tipped scribers are available.
- With SPC data output.

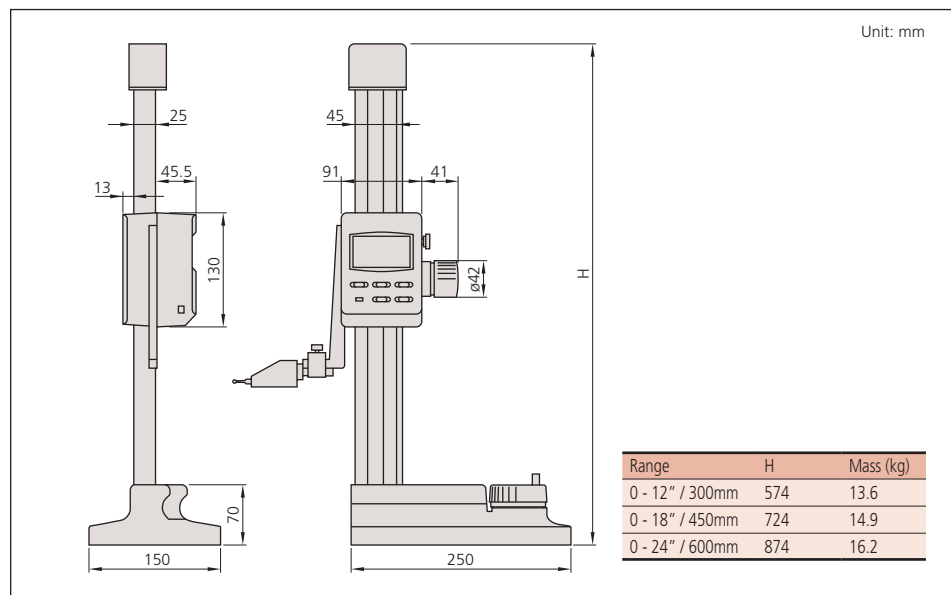


SPECIFICATIONS

Inch/Metric

Range	Order No.	Accuracy	Resolution
0 - 12" / 300mm	574-212-1A	±.0002"	.0001" / 0.001mm
0 - 18" / 450mm	574-211-1A	±.0002"	.0001" / 0.001mm
0 - 24" / 600mm	574-210-1A	±.0002"	.0001" / 0.001mm

DIMENSIONS AND MASS



Vernier Height Gage

SERIES 514 — Standard Height Gage with Adjustable Main Scale

FEATURES

- Zero reference point can be adjusted.
- Stain chrome finished scales for glare-free reading.
- Extra-large base for rigidity.
- Optional magnifier for easier reading
- Carbide-tipped scriber is provided.



SPECIFICATIONS

Metric

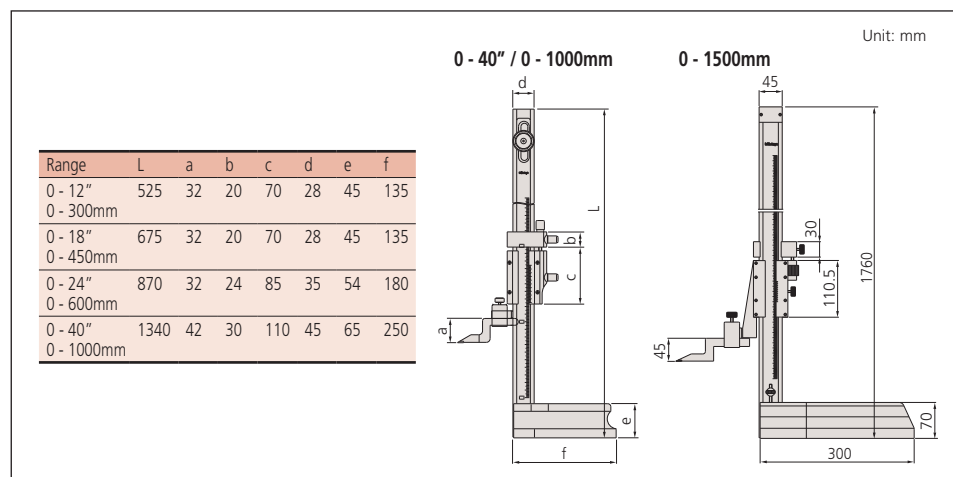
Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 300mm	514-102	±0.04mm	0.02mm	3.1
0 - 450mm	514-104	±0.05mm	0.02mm	3.4
0 - 600mm	514-106	±0.05mm	0.02mm	7.4
0 - 1000mm	514-108	±0.07mm	0.02mm	20.0
0 - 1500mm	514-170	±0.18mm	0.02mm	26.0

Inch/Metric

Inch model with inch/metric dual scale

Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 12" / 0 - 300mm	514-103	±.002"	.001" / 0.02mm	3.1
0 - 18" / 0 - 450mm	514-105	±.002"	.001" / 0.02mm	3.4
0 - 24" / 0 - 600mm	514-107	±.002"	.001" / 0.02mm	7.4
0 - 40" / 0 - 1000mm	514-109	±.003"	.001" / 0.02mm	20.0

DIMENSIONS



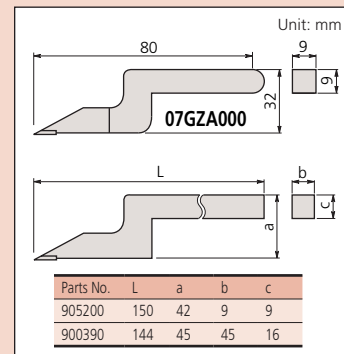
Technical Data

Main scale adjustment: 15mm or 25mm
Slider fine feed: 4mm, 6mm, 7mm or 20mm

Standard Scriber Provided

Up to 600mm: Carbide-tipped scriber (**07GZA000**) and scriber clamp (**05GZA033**)
0 - 1000mm: Carbide-tipped scriber (**905200**) and scriber clamp (**05GZA033**)
0 - 1500mm: Carbide-tipped scriber (**900390**) and scriber clamp (**905008**)

Dimension of scriber



Optional Accessories

07GZA003: Magnifier for 300, 450mm, 600mm models
07GZA015: Magnifier for 1000mm and 1500mm models
953638: Holding bar for test indicator (length: 50mm)
902053: Swivel clamp used with holding bar

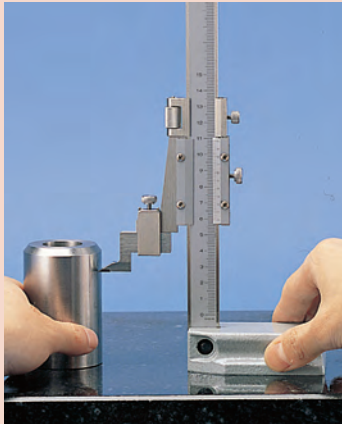


SERIES 506 — Light Weight Height Gage

Carbide-tipped scriber (**900173**) and scriber clamp (**901338**)

Unit: mm

953639: Holding bar for test indicator (length: 2" / 50mm)
900322: Swivel clamp used with holding bar



- The Light Weight Height Gage is designed for scribing from a vertical base or for small parts.
- Stain chrome finished scales for glare-free reading.

- Beam and slider are made of stainless steel.
- Carbide-tipped scribe is provided.



Metric

Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 200mm	506-207	±0.03mm	0.02mm	1.4

Inch/Metric

Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 8" / 0 - 200mm	506-208	±.001"	.001" / 0.02mm	1.4

0 - 8" / 0 - 200mm

Unit: mm

Technical drawing of the 800 Series Vertical Stand showing dimensions in inches and millimeters. The drawing includes a side view and a front view. Key dimensions are labeled: 6, 20, 10.35, 6.35, 39, 25, 14, 35, 100, 341, 57, 20, 65.

Carbide-Tipped Scriber

Optional Accessory for Height Gage

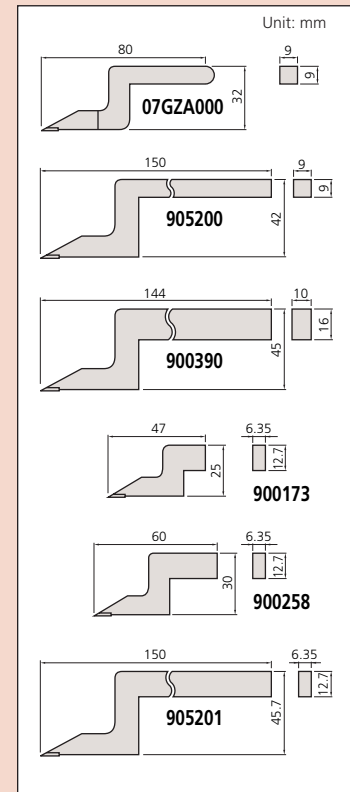
FEATURES

- Use the appropriate scriber and clamp for each height gage.

SPECIFICATIONS

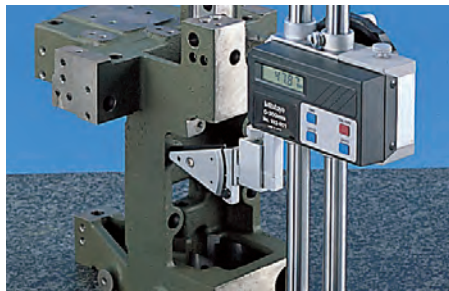
Metric	
Order No.	Remarks (applicable height gage)
07GZA000	192 Series Digimatic height gages (192-613-10, 192-614-10, 192-615-10)
	570 Series Digimatic Height Gages (570-302, 570-304)
	192 Series Dial Height Gages (192-130, 192-131, 192-132, 192-133)
	514 Series Vernier Height Gages (514-102, 514-104, 514-106, 514-103, 514-105, 514-107)
	574 Series Heightmatic (574-112-1, 574-111-1, 574-110-1)
905200	192 Series Digimatic Height Gages (192-663-10, 192-664-10, 192-665-10)
	570 Series Digimatic Height Gages (570-230)
	514 Series Vernier Height Gages (514-108, 514-109)
900390	514 Series Vernier Height Gage (514-170)
Inch	
Order No.	Remarks (applicable height gage)
900173	570 Series Digimatic height gages (570-227, 570-244)
	506 Series Vernier Height Gages (506-201, 506-202, 506-204, 506-205, 506-207, 506-208)
	509 Series Vernier Height Gages (509-301, 509-302, 509-313, 509-314)
	192 Series Digimatic Height Gages (192-630-10, 192-631-10, 192-632-10, 192-633-10)
900258	570 Series Digimatic Height Gages (570-312, 570-313, 570-314)
	574 Series Heightmatic (574-212-1, 574-211-1, 574-210-1)
	192 Series Digimatic Height Gages (192-670-10, 192-671-10, 192-672-10, 192-673-10)
905201	570 Series Digimatic Height Gages (570-248)

Dimension of scriber



Optional Accessories

Optional Accessories for Height Gage



Center Master

FEATURES

- Allows quick measurement of center-to-center distance between holes.
- Measurable hole diameters: .040" to 1.50" / $\varnothing 1 - \varnothing 38\text{mm}$.

SPECIFICATIONS

Order No.: 951144 (with metric type holding bar)
900581 (with inch type holding bar)



Depth Gauge Attachment

FEATURES

- Attached to a height gage to measure groove and hole depth.
- Minimum hole diameter: 5.5mm
- Maximum distance from the bottom of the holding bar to the contact point: 2.95" (inch type), 80mm (metric type)
- Uses standard dial indicator points

SPECIFICATIONS

Order No.: 900878 (with inch type holding bar)
900764 (with metric type holding bar)



Contact Sensor

FEATURES

- The contact sensor eliminates errors caused by jacking-up the height gage while taking measurements. When the scriber of a height gage touches a conductive workpiece, an indicator will light up to indicate that measurement can be taken, which will result in consistent height measurement.
- Battery (2 pcs. SR44 required) is not included.

SPECIFICATIONS

Order No.: 900872



CERA Caliper Checker

SERIES 515

FEATURES

- The CERA Caliper Checker is designed to inspect vernier, dial and Digimatic calipers. It is comprised of permanently wrung, high-grade CERA gage blocks in a protective casting.
- The CERA Caliper Checker also stands perpendicular to a surface for height gage inspection.
- The zirconia based ceramic CERA measuring blocks are corrosion resistant and dimensionally stable.



515-555

Technical Data

Block pitch accuracy: $\pm 0.005\text{mm}$ for range up to 300mm
 $\pm 0.002"$ for range up to 12"
 $\pm 0.007\text{mm}$ for range up to 600mm
 Parallelism of blocks:
 0.002mm for range up to 300mm
 0.004mm for range up to 600mm

Optional Accessories

602162: Wooden case for 300mm model
 602164: Wooden case for 600mm model

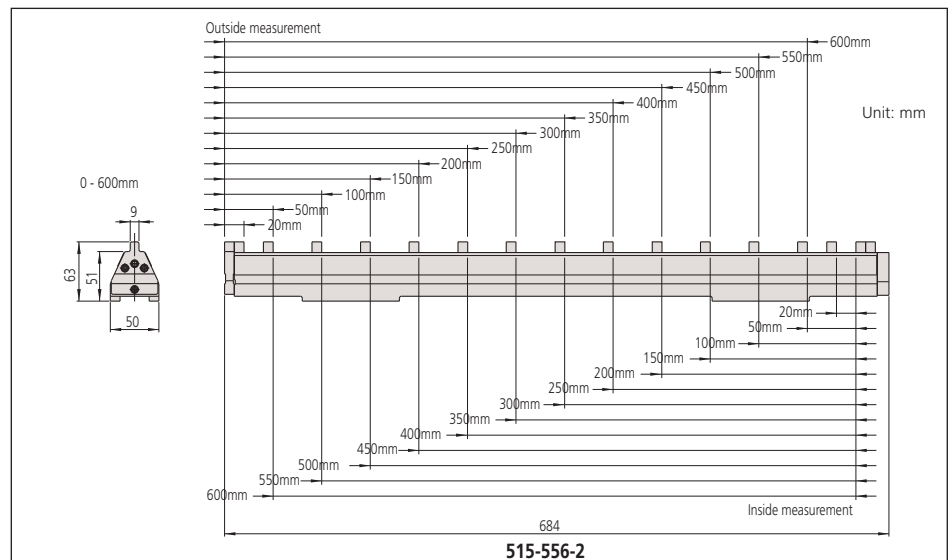
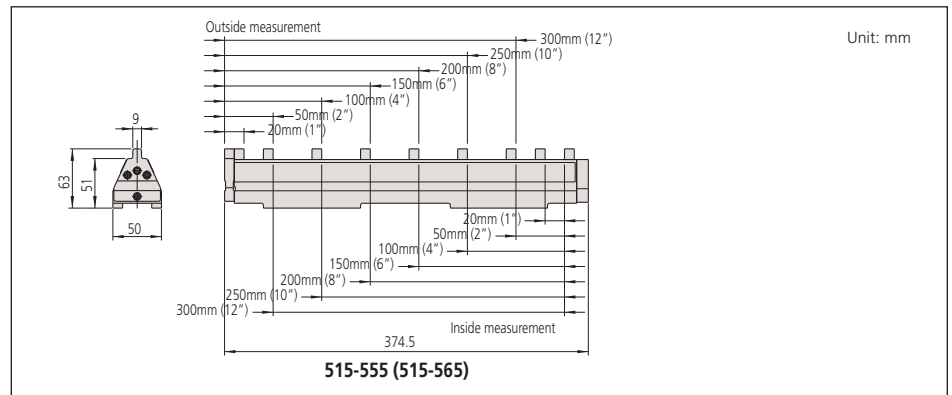
SPECIFICATIONS

Metric			
Range	Order No.	Remarks (length to check)	Mass (kg)
0 - 300mm	515-555	Outside measurement: 20, 50, 100, 150, 200, 250, 300mm Inside measurement: 20, 50, 100, 150, 200, 250, 300mm	4.0
0 - 600mm	515-556-2	Outside, Inside measurement: 20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600mm	8.5

Inch

Range	Order No.	Remarks (length to check)	Mass (kg)
0 - 12"	515-565	Outside measurement: 1", 2", 4", 6", 8", 10", 12" Inside measurement: 1", 2", 4", 6", 8", 10", 12"	4.0

DIMENSIONS



Used for caliper



Used for height gage

Linear Height LH-600E

SERIES 518 — High Performance 2D Measurement System

FEATURES

- Excellent accuracy of (1.1+0.6L/600)μm with 0.1μm/0.5μm resolution/repeatability.
- Perpendicularity (frontal) of 5μm and straightness of 4μm are guaranteed.
- Pneumatic full/semi-floating system allows adjustment of air-cushion height.
- Basic statistical functions are provided and, additionally, RS-232C / USB data output provides the option of evaluating measurement data externally with SPC software on a PC.
- One-key operation for running a semi-automatic measurement.
- Data entry from a Digimatic tool.

with power grip



518-351A-21

SPECIFICATIONS

Inch/Metric	
Order No.	518-351A-21 (120V with English manual)
Measuring Range (stroke)	0-38" (24") / 0-972mm(600mm)
Resolution (selectable)	.000001"/.00001"/.0001"/.001"/ 0.0001mm/0.001mm/0.01mm/0.1mm
Accuracy at 20°C	Measuring accuracy .000043 + (.000024 x L*/24)" / (1.1 + 0.6L**/600)μm Repeatability (2s) Plane: .000015"/0.4μm Bore: .000035"/0.9μm Perpendicularity .0002"/5μm Straightness .0002"/4μm
Drive Method	Motor Drive (5, 10, 15, 20, 25, 30, 40mm/s=7 steps) / manual
Measuring Force	1N
Balancing Method	Counter balance
Main Unit Floating Method	Full/semi-floating with air
Air Source	Built-in air compressor
LCD	TFT LCD (color)
Language for Display	English/German/French/Spanish/Italian/Japanese
Number of Programs	50 (max.)
Number of Datas	60,000 (max.) 1 program 30,000 (Max.)
Power Supply	AC Adapter/Battery (Ni-MH)
Power Consumption	43VA
Operation Time	Approx. 5 hours
Standard Accessories	ø5 Eccentric probe (12AAF634) Probe diameter calibration block (12AAA715) Battery (12AAA712) AC adapter (357651), Power Cable (02ZAA010) Clear Cover (223587) Conveying handle (510434)
Mass	24kg

L*=Measuring length (inch) L**=Measuring length (mm)



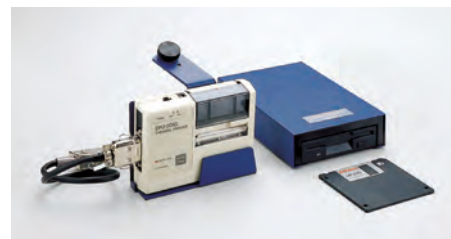
Technical Data

Measuring range: 0 - 38" / 0 - 972mm
 Slider stroke: 24" / 600mm
 Resolution: .000001" / .00001" / .0001" / .001" or
 (switchable) 0.0001 / 0.001 / 0.01 / 0.1mm /
 0.0001 / 0.001 / 0.01 / 0.1mm
 Accuracy at 20°C: Refer to the list of specifications.
 Floating method: Full / semi-floating with built-in air
 compressor
 Display: TFT LCD (color)

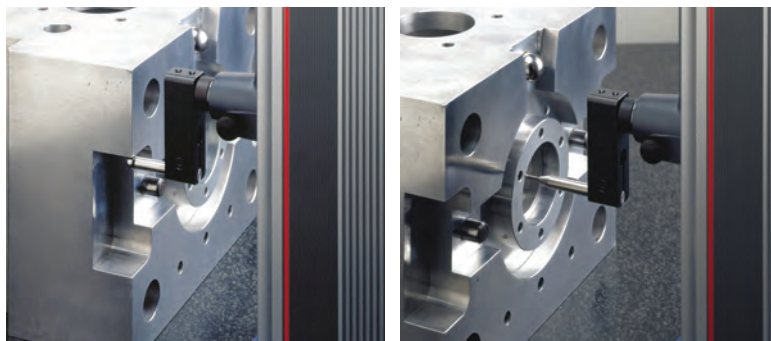
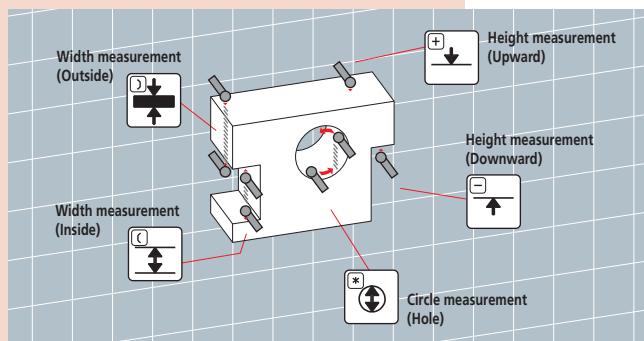
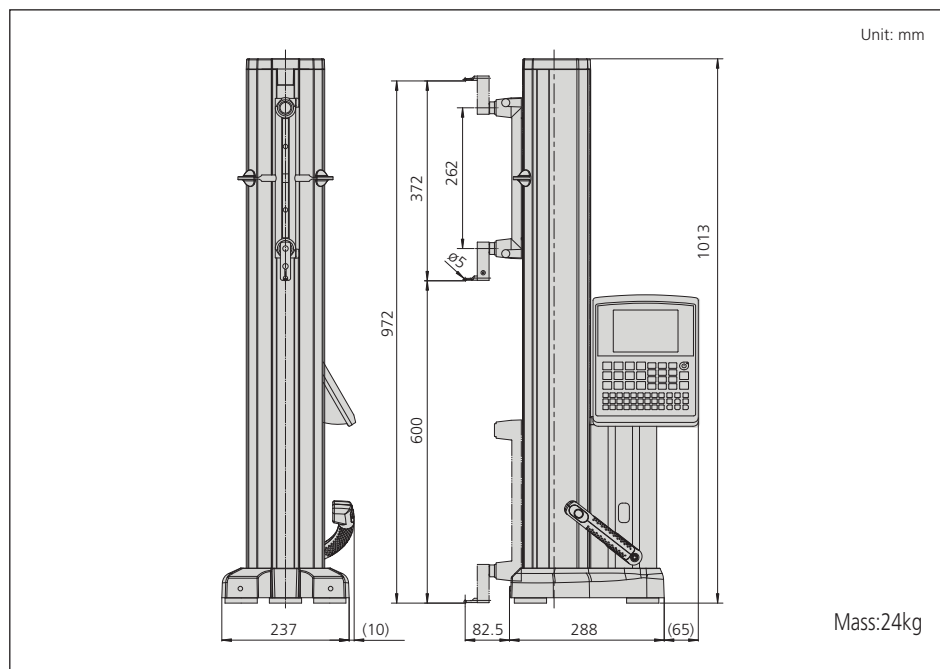


Optional Accessories

- 12AAC072:** ① Depth probe
12AAC073: ② $\varnothing 20\text{mm}$ taper probe
12AAA787: Block for calibrating probe diameter (applicable to taper probe)
12AAA792: ③ Dial indicator ($\varnothing 8\text{mm}$ stem) holder
12AAA837: Dial indicator ($\varnothing 3/8"$ stem) holder
12AAA793: ④ Probe extension holder (3.3" / 85mm)
12AAB136: $\varnothing 10\text{mm}$ cylindrical probe
932361: ⑥ Mu-checker lever head holder
12AAF666: $\varnothing 1\text{mm}$ ball probe
12AAF667: $\varnothing 2\text{mm}$ ruby ball probe
957261: ⑧ $\varnothing 2\text{mm}$ ball probe
957262: ⑨ $\varnothing 3\text{mm}$ ball probe
957263: ⑩ $\varnothing 4\text{mm}$ ball probe
12AAB552: ⑪ $\varnothing 10\text{mm}$ ball probe, L=55mm
12AAF668: $\varnothing 10\text{mm}$ ball probe, L=82mm
12AAF669: $\varnothing 10\text{mm}$ ball probe, L=120mm
12AAF670: $\varnothing 5\text{mm}$ disk probe
12AAF671: $\varnothing 10\text{mm}$ disk probe
957264: ⑫ $\varnothing 14\text{mm}$ disk probe
957265: ⑬ $\varnothing 20\text{mm}$ disk probe
12AAF672: $\varnothing 1\text{mm}$ ball offset probe
12AAA788: ⑭ $\varnothing 4\text{mm}$ ball offset probe
12AAA789: ⑮ $\varnothing 6\text{mm}$ ball offset probe
226116: ⑯ Test indicator ($\varnothing 6\text{mm}$ stem) adapter
226117: ⑰ M2 CMM stylus adapter
226118: ⑱ M3 CMM stylus adapter
 _____: CMM ball and disk hard probes are available.
12AAF712: Battery pack
12AAF675: Large capacity battery pack
12AAA797: Thermal printer (120V)
12AAA802: Thermal printing paper (10pcs.)
12AAA804: Cable for page printer** (2m)
12AAA807: RS-232C cable 80" / 2m)
12AAA808: RS-232C cable (160" / 4m)
12AAH034: USB-Memory
12AAH035: USB-FDD



DIMENSIONS AND MASS



QM-Height

SERIES 518 — High Precision ABSOLUTE Digital Height Gage

FEATURES

- Newly developed high accuracy and high resolution ABSOLUTE linear encoder for position detection.
- Easy reference icon keys.
- Possible to measure inside/outside diameter via unique process (detect the circle apex and process by tracing measurement).
- Various types of optional probes are available.
- Large size LCD with back light.
- GO/±NG judgment is performed by setting the upper and lower tolerances. If a judgment result is out of tolerance, the display backlighting changes from green to red, so tolerance judgment can be made at a glance.
- Slider elevation knob (for travel) / wheel (for measurement).
- With SPC and RS-232C output.



518-223

SPECIFICATIONS

Inch/Metric		
Order No.	518-221	518-223
Range	0 - 14" (0 - 350mm)	0 - 24" (0 - 600mm)
Resolution	.00005", .0001", .0002" / 0.001mm, 0.005mm	
Accuracy	± (.00011 + .0002xL / 40)"	
Repeatability	.00007" (2s)	
Display	LCD	
Functions	Zero setting, +/- switching, Presetting, Data hold, Probe tip diameter compensation, inch/mm conversion (Inch/Metric model only), Data output	
Perpendicularity	.0003"	.0005"
Measuring force	1.6 ± 0.5N	
Data output	SPC, RS-232C	
Power supply	AC adapter (optional accessory) / Battery (LR6x4)	
Battery Life	Approx. 800 Hrs. (when backlight is not used)	
	Approx. 260 Hrs. (When backlight is used in the power saving mode)	
	Approx. 6 Hrs. (When backlight is used in the Full-Time Turn-On mode)	
Standard Accessories	ø5mm stepped probe (05HZA148) 4 pcs. AA Alkaline Batteries (LR6)	
Users Manual	99MAF017B	
Mass	22kg	27kg

SPC

ABSOLUTE®
Absolute System Patented by MITUTOYO

Technical Data

Measuring range: 0 - 18.3" or 0 - 28.1"
0 - 465mm or 0 - 715mm
Slider stroke: 14" / 350mm or 24" / 600mm
Resolution: .00005" / .0001" / .0002" / 0.001 / 0.005mm or 0.001 / 0.005mm
Accuracy at 20°C: Refer to the list of specifications
Guiding method: Roller bearing
Drive method: Manual
Length standard: ABSOLUTE electrostatic capacitance type linear encoder
Measuring force: 1.6±0.5N
Display: LCD
Power supply: AC adapter (optional) / battery (LR6x4)
Battery operation time: Approx. 260 hours (approx. 6 hours when using back light)



GO



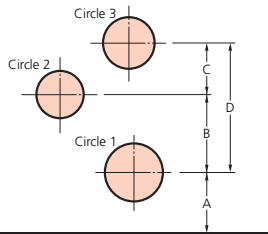
±NG

Optional Accessories

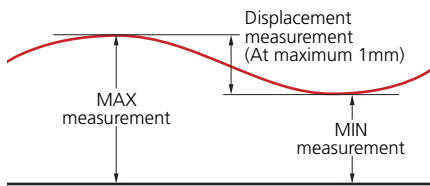
12AAC072:	Depth probe
12AAA792:	Dial indicator (ø8mm stem) holder
12AAA837:	Dial indicator (ø3/8" stem) holder
12AAA793:	Probe extension holder (3.3" / 85mm)
12AAF667:	ø2mm ruby ball probe
957261:	ø2mm ball probe
957262:	ø3mm ball probe
957263:	ø4mm ball probe
05HAA394:	ø5mm ball probe (for 05HZA148)
12AAB552:	ø10 mm ball probe, L=55mm
12AAF670:	ø5mm disk probe
12AAF671:	ø10mm disk probe
957264:	ø14mm disk probe
957265:	ø20mm disk probe
12AAA788:	ø4mm ball offset probe
05HAA394:	ø5mm ball offset probe
12AAA789:	ø6mm ball offset probe
226116:	Test indicator (ø6mm stem) adapter
05HZA173:	Scriber
264-504-5A:	DP-1VR
936937:	SPC cable (40" / 1m)
965014:	SPC cable (80" / 2m)
06AEG180JA:	AC adapter (120V)

Circle pitch measurement

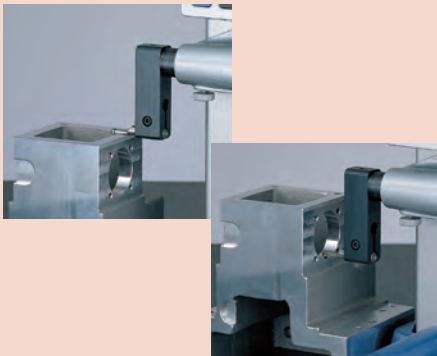
The length A, B, C and D can be determined by measuring circles 1 to 3 once each, using the memory of measuring data together with the calculation function. (A maximum of nine circle measurement data can be saved.)



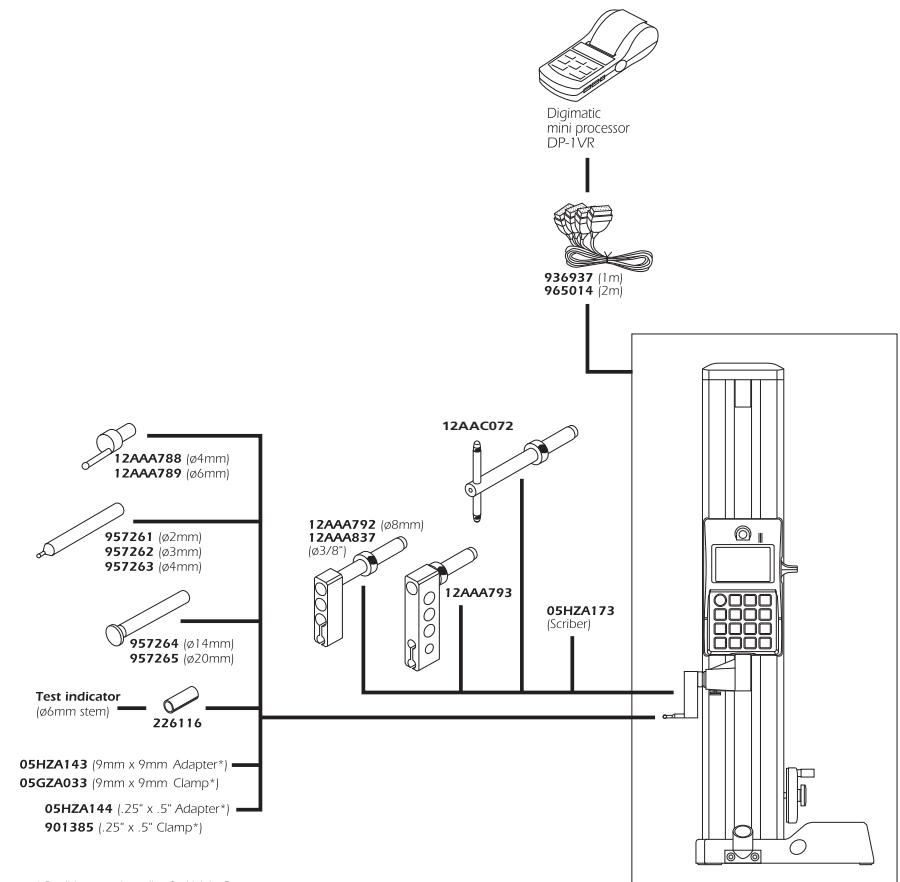
Maximum/minimum and displacement measurement



Height measurement

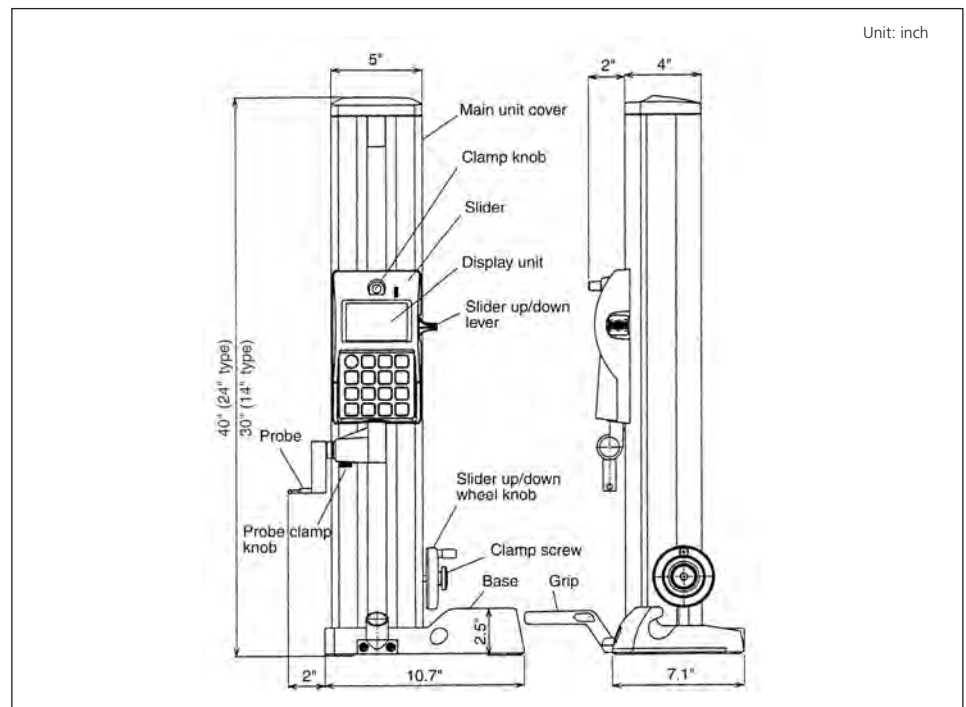


Inside diameter measurement



* Possible to use the scriber for Height Gauge.

DIMENSIONS



Mitutoyo

Depth Micrometer

SERIES 329, 129 — Interchangeable Rod Type

FEATURES

- $\varnothing 4$ mm interchangeable rods, with lapped measuring end, provide a wide measuring range.
- The rod length can be adjusted in 1" or 25mm increments.
- With ratchet stop for constant force.
- With measuring rod clamp.
- With SPC output (Series 329).
- Supplied in fitted plastic case.



SPECIFICATIONS

Metric Digimatic model

Range	Order No.	Base Size	Rod Qty.
0 - 150mm	329-250-10	101.6x16mm	6 rods
0 - 300mm	329-251-10	101.6x16mm	12 rods

Metric

Range	Order No.	Base Size	Rod Qty.
0 - 50mm	129-109	63.5x16mm	2 rods
0 - 100mm	129-111	63.5x16mm	4 rods
0 - 100mm	129-115	101.6x16mm	4 rods
0 - 150mm	129-112	63.5x16mm	6 rods
0 - 150mm	129-116	101.6x16mm	6 rods

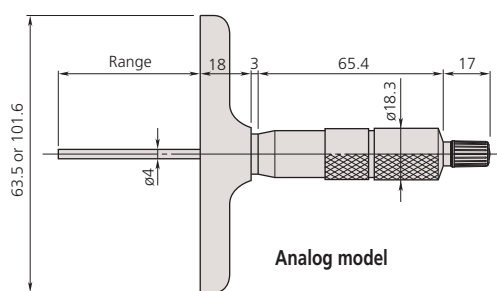
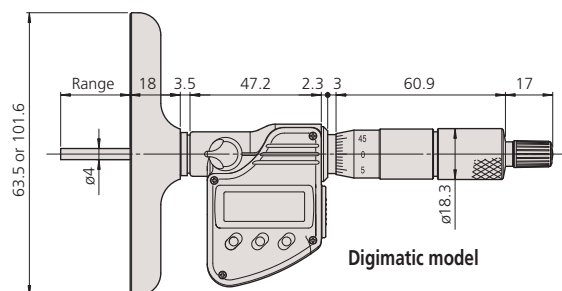
Inch/Metric Digimatic model

Range	Order No.	Base Size	Rod Qty.
0 - 6" / 0 - 152.4mm	329-350-10	4"x.63"	6 rods
0 - 12" / 0 - 304.8mm	329-351-10	4"x.63"	12 rods

Inch

Range	Order No.	Base Size	Rod Qty.
0 - 4"	129-127	2.5"x.63"	4 rods
0 - 4"	129-131	4"x.63"	4 rods
0 - 6"	129-128	2.5"x.63"	6 rods
0 - 6"	129-132	4"x.63"	6 rods
0 - 12"	129-149	2.5"x.63"	12 rods
0 - 12"	129-150	4"x.63"	12 rods

DIMENSIONS



Unit: mm



Technical Data

Accuracy: $\pm 0.0012'' / \pm 3\mu\text{m}$ for micrometer head feed

$\pm [0.0008 + (0.0004 \times R/3)]''$

R = max. measuring length (inch)

$\pm (2 + L/75)\mu\text{m}$ for interchangeable rod,

L = Max. measuring length (mm)

Resolution*: $.00005'' / 0.001\text{mm}$ or 0.001mm

Graduation**: $.001''$ or 0.01mm

Flatness of reference face: $.00005''$ for $2.5'' / 1.3\mu\text{m}$ for

63.5mm width base, $.00008''$ for $4'' / 2\mu\text{m}$ for 101.6mm

width base

Flatness of measuring rod face: $0.3\mu\text{m}$

Parallelism between reference face and measuring rod face:

$[.00016 + (0.0004 \times R/2)]''$

R = max. measuring range (inch)

$(4 + L/50)\mu\text{m}$, L = Max. measuring length (mm)

Measuring rod diameter: $.157'' / 4\text{mm}$

Display*: LCD

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

Battery life*: Approx. 3.5 years under normal use

*Digital models **Analog models

Function of Digimatic Model

Origin-set, Zero-setting, Data hold, Data output,

inch/mm conversion (on inch/metric models only)

Alarm: Low voltage, Counting value composition error

Function Lock

2 Presets

Optional Accessories for Digimatic Model

05CZA662: SPC cable with data switch (40" / 1m)

05CZA663: SPC cable with data switch (80" / 2m)



Technical Data

Accuracy: $\pm 3\mu\text{m}$ for micrometer head feed
 Graduation: .001" or 0.01mm
 Flatness of reference face: $1.3\mu\text{m}$ for 63.5mm width base,
 $2\mu\text{m}$ for 101.6mm width base
 Flatness of measuring rod face: $0.3\mu\text{m}$
 Parallelism between reference face and measuring rod face:
 $(4+L/50)\mu\text{m}$, L=Max. measuring length (mm)
 Measuring rod diameter: 4mm

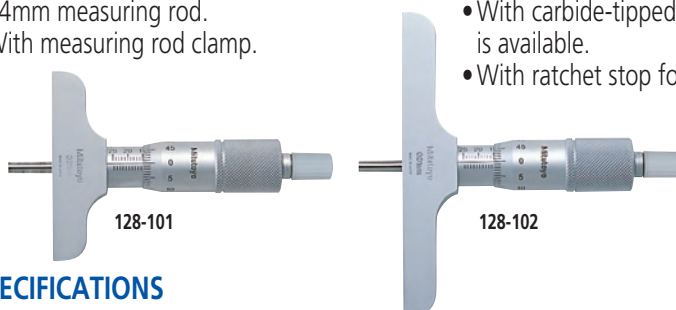


Depth Micrometer

SERIES 128

FEATURES

- $\varnothing 4\text{mm}$ measuring rod.
- With measuring rod clamp.



- With carbide-tipped measuring rod model is available.
- With ratchet stop for constant force.

SPECIFICATIONS

Metric		
Range	Order No.	Remarks (base)
0 - 25mm	128-101	63.5x16mm
0 - 25mm	128-103*	63.5x16mm
0 - 25mm	128-102	101.6x16mm
0 - 25mm	128-104*	101.6x16mm

Inch		
Range	Order No.	Remarks (base)
0 - 1"	128-105	2.5"x.63"
0 - 1"	128-106	4"x.63"

*with carbide-tipped measuring rod

Depth Micro Checker

SERIES 515

FEATURES

- The Depth Micro Checker is designed to efficiently check the zero point of a depth micrometer.

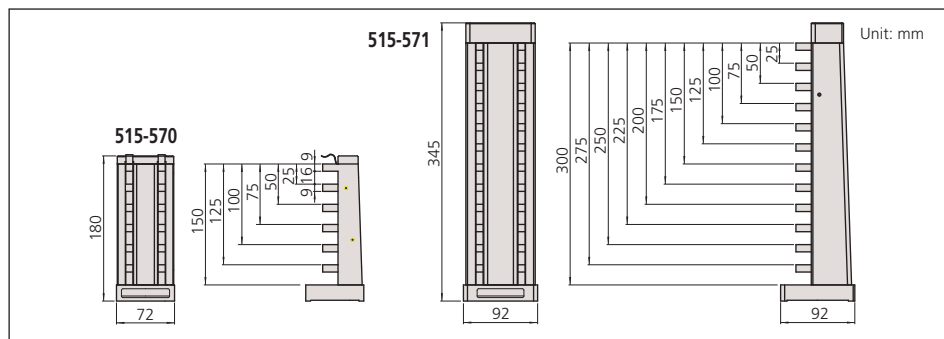


SPECIFICATIONS

Metric		
Range	Order No.	Remarks (length to check)
0 - 150mm	515-570	25, 50, 75, 100, 125, 150mm
0 - 300mm	515-571	25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300mm

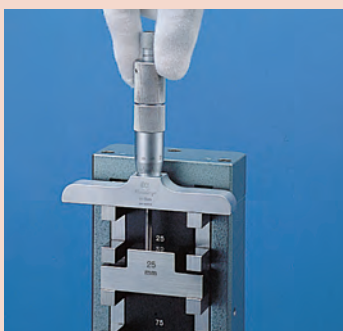
Inch		
Range	Order No.	Remarks (length to check)
0 - 6"	515-575	1", 2", 3", 4", 5", 6"

DIMENSIONS



Technical Data

Block pitch accuracy: $\pm(1+L/150)\mu\text{m}$,
 L=Length to check (mm)
 Anvil block accuracy: $\pm 0.5\mu\text{m}$

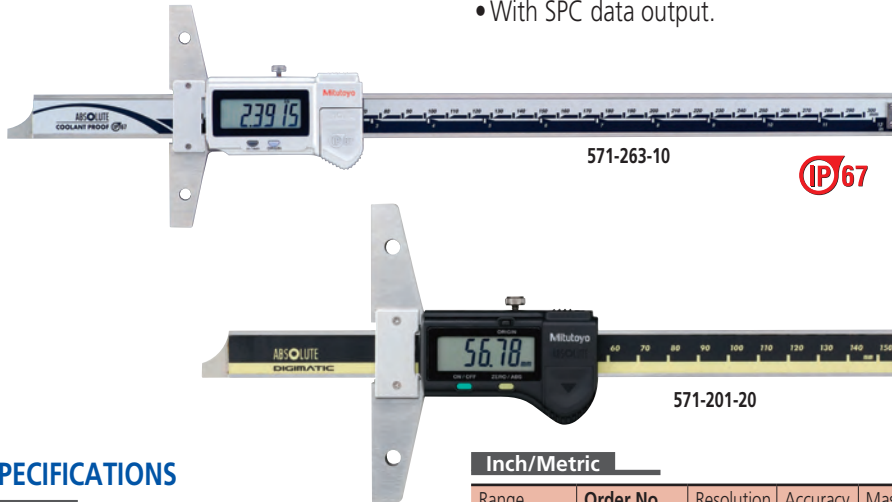


ABSOLUTE Digimatic Depth Gage

SERIES 571

FEATURES

- ABSOLUTE Digimatic Depth Gage can keep track of the origin point once set for the entire life of the battery.
- Base and measuring faces are hardened and micro-lapped.
- Optional wider extension base are available. (up to 450mm range models)
- With SPC data output.



SPECIFICATIONS

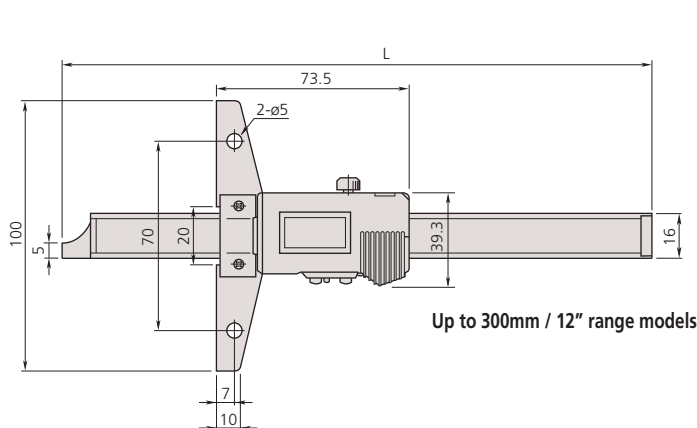
Metric				
Range	Order No.	Resolution	Accuracy	Mass(g)
0 - 150mm	571-201-20	0.01mm	±0.02mm	192
0 - 150mm	571-251-10*	0.01mm	±0.02mm	199
0 - 200mm	571-202-20	0.01mm	±0.02mm	212
0 - 200mm	571-252-10*	0.01mm	±0.02mm	219
0 - 300mm	571-203-20	0.01mm	±0.03mm	310
0 - 300mm	571-253-10*	0.01mm	±0.03mm	320
0 - 450mm	571-204-10	0.01mm	±0.05mm	1270
0 - 600mm	571-205-10	0.01mm	±0.05mm	1400
0 - 750mm	571-206-10	0.01mm	±0.06mm	1530
0 - 1000mm	571-207-10	0.01mm	±0.07mm	1760

*IP67 Coolant Proof model

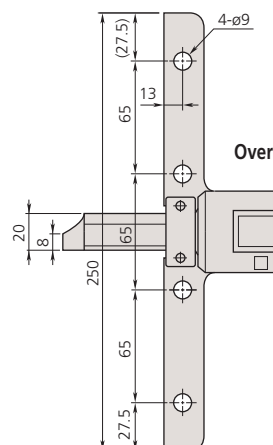
Inch/Metric				
Range	Order No.	Resolution	Accuracy	Mass(g)
0 - 6" / 0 - 150mm	571-211-20	.0005" / 0.01mm	±.001"	192
0 - 6" / 0 - 150mm	571-261-10*	.0005" / 0.01mm	±.001"	199
0 - 8" / 0 - 200mm	571-212-20	.0005" / 0.01mm	±.001"	212
0 - 8" / 0 - 200mm	571-262-10*	.0005" / 0.01mm	±.001"	219
0 - 12" / 0 - 300mm	571-213-10	.0005" / 0.01mm	±.0015"	310
0 - 12" / 0 - 300mm	571-263-10*	.0005" / 0.01mm	±.0015"	320
0 - 18" / 0 - 450mm	571-214-10	.0005" / 0.01mm	±.002"	1270
0 - 24" / 0 - 600mm	571-215-10	.0005" / 0.01mm	±.002"	1400
0 - 30" / 0 - 750mm	571-216-10	.0005" / 0.01mm	±.0025	1530
0 - 40" / 0 - 1000mm	571-217-10	.0005" / 0.01mm	±.0025	1760

*IP67 Coolant Proof model

DIMENSIONS



Up to 300mm / 12" range models



Over 300mm / 12" range models

Range	L	Base thickness
0 - 6" / 0 - 150mm	237	6
0 - 8" / 0 - 200mm	287	6
0 - 12" / 0 - 300mm	403	6
0 - 18" / 0 - 450mm	635	10
0 - 24" / 0 - 600mm	785	10
0 - 30" / 0 - 750mm	935	10
0 - 40" / 0 - 1000mm	1200	10

SPC

www.tuv.com
TÜV
TÜV Rheinland
ID: 2011207400

IP67

ABSOLUTE®

Absolute System Patented by MTUTOTOY

Technical Data

Resolution: .0005" / 0.01mm or 0.01mm
Repeatability: 0.01mm
Display: LCD
Length standard: ABSOLUTE electrostatic capacitance (electromagnetic induction)* type linear encoder
Max. response speed: Unlimited
Battery: SR44 (1 pc.), 938882
Battery life: Approx. 20,000 hours (3 years)* under normal use
Dust/Water protection level: IP67*
*Coolant Proof models

Function

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

Optional Accessories

959143: Data hold unit
959149: SPC cable with data switch (40" / 1m)
959150: SPC cable with data switch (80" / 2m)
05CZA624: SPC cable with data switch (40" / 1m)*
05CZA625: SPC cable with data switch (80" / 2m)*
Extension base (see page D-53.)

*For IP67 models



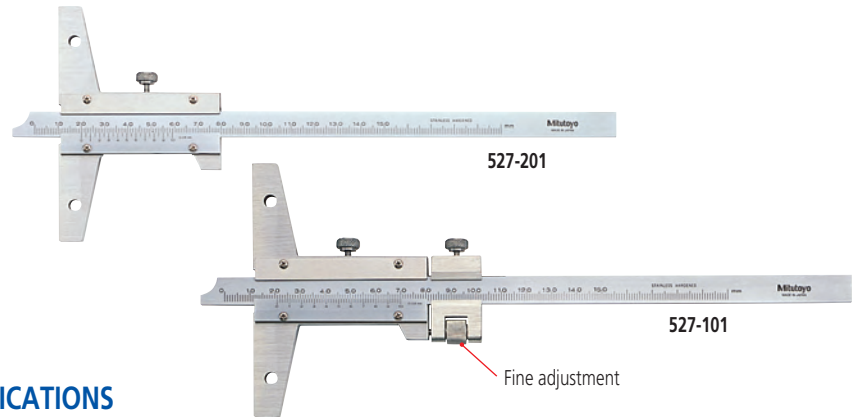
Measurement data output function is available with a water-resistant SPC cable.

SERIES 527

- Made of hardened stainless steel.
- Base and measuring faces are hardened and micro-lapped.

- Optional wider extension base are available. (up to 450mm range models)

——: Extension base (see page D-53.)



Metric

Range	Order No.	Vernier reading	Accuracy	Mass (g)	Remarks
0 - 150mm	527-201	0.05mm	±0.05mm	240	_____
0 - 150mm	527-121	0.02mm	±0.03mm	215	_____
0 - 150mm	527-101	0.02mm	±0.03mm	280	with fine adjustment
0 - 200mm	527-202	0.05mm	±0.05mm	260	_____
0 - 200mm	527-122	0.02mm	±0.03mm	230	_____
0 - 200mm	527-102	0.02mm	±0.03mm	300	with fine adjustment
0 - 300mm	527-203	0.05mm	±0.08mm	300	_____
0 - 300mm	527-123	0.02mm	±0.04mm	265	_____
0 - 300mm	527-103	0.02mm	±0.04mm	350	with fine adjustment
0 - 600mm	527-204	0.05mm	±0.10mm	1511	_____
0 - 600mm	527-104	0.02mm	±0.05mm	1511	with fine adjustment
0 - 1000mm	527-205	0.05mm	±0.15mm	1880	_____
0 - 1000mm	527-105	0.02mm	±0.07mm	1880	with fine adjustment

Inch

Range	Order No.	Vernier reading	Accuracy	Mass (g)	Remarks
0 - 6"	527-111	.001"	±.001"	280	with fine adjustment
0 - 8"	527-112	.001"	±.001"	300	with fine adjustment
0 - 12"	527-113	.001"	±.0015"	350	with fine adjustment
0 - 24"	527-114	.001"	±.002"	1511	with fine adjustment
0 - 40"	527-115	.001"	±.003"	1880	with fine adjustment

Unit: mm

Up to 300mm / 12" range models

Over 300mm / 12" range models

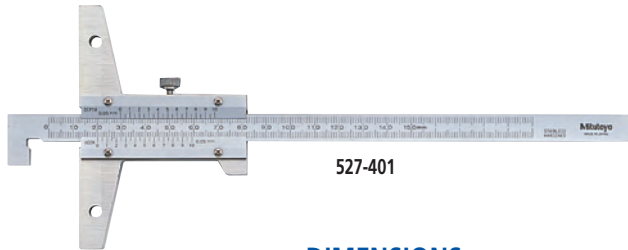
Range	L
0 - 6" / 0 - 150mm	260
0 - 8" / 0 - 200mm	310
0 - 12" / 0 - 300mm	410
0 - 24" / 0 - 600mm	800
0 - 40" / 0 - 1000mm	1200

Vernier Depth Gage

SERIES 527 — Hook End Type

FEATURES

- The end of the main scale is hook-shaped to allow depth and thickness measurements of a projected portion or lip in a hole, in addition to standard depth measurement.
- With fine adjustment models are available.
- Optional wider extension base are available.



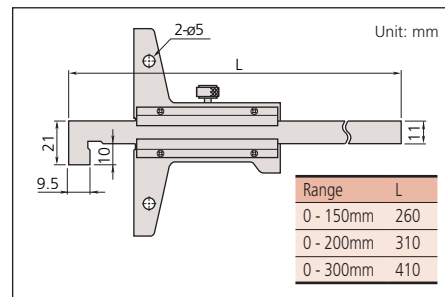
527-401

SPECIFICATIONS

Metric				
Range	Order No.	Vernier reading	Accuracy	Mass (g)
0 - 150mm	527-401	0.05mm	±0.05mm	240
0 - 200mm	527-402	0.05mm	±0.05mm	240
0 - 300mm	527-403	0.05mm	±0.08mm	270

Metric with fine adjustment				
Range	Order No.	Vernier reading	Accuracy	Mass (g)
0 - 150mm	527-411	0.02mm	±0.03mm	280
0 - 200mm	527-412	0.02mm	±0.03mm	300
0 - 300mm	527-413	0.02mm	±0.04mm	350

DIMENSIONS

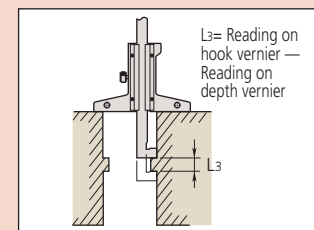
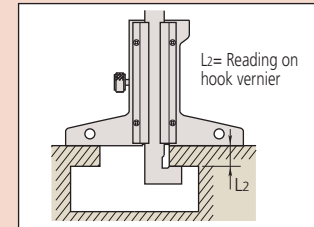
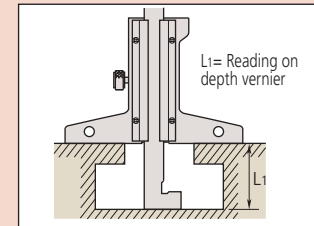


Technical Data

Graduation: 0.05mm or 0.02mm
Base size: 100x6.5mm (WxT)

Optional Accessory

—: Extension base (see page D-53.)



ABSOLUTE Digimatic Depth Gage

SERIES 571 — Hook End Type

FEATURES

- ABSOLUTE Digimatic Depth Gage can keep track of the origin point once set for the entire life of the battery.
- Base and measuring faces are hardened and micro-lapped.
- Optional wider extension base are available.
- With SPC data output.



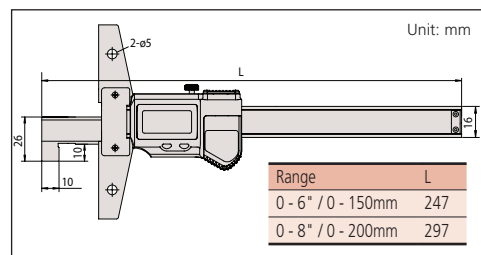
571-264-10



SPECIFICATIONS

Inch/Metric				
Range	Order No.	Resolution	Accuracy	Mass (g)
0 - 6" / 0 - 150mm	571-264-10	.0005" / 0.01mm	±.0015"	578
0 - 8" / 0 - 200mm	571-265-10	.0005" / 0.01mm	±.0015"	598

DIMENSIONS



Technical Data

Resolution: .0005"/0.01mm
Repeatability: .0005"/0.01mm
Display: LCD
Length standard: ABSOLUTE electrostatic capacitance (electromagnetic induction)* type linear encoder
Max. response speed: Unlimited
Battery: SR44 (1 pc.), 938882
Battery life: Approx. 20,000 hours (3 years)* under normal use
Dust/Water protection level: IP67

Function

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

Optional Accessories

05CZA624: SPC cable with data switch (40" / 1m)*

05CZA625: SPC cable with data switch (80" / 2m)*

—: Extension base (see page D-53.)

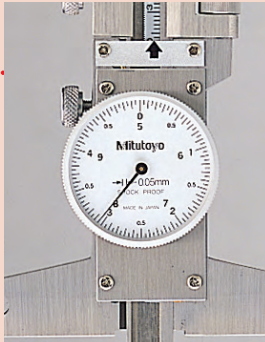
*For IP67 models

Dial Depth Gage

SERIES 527 — with Fine Adjustment

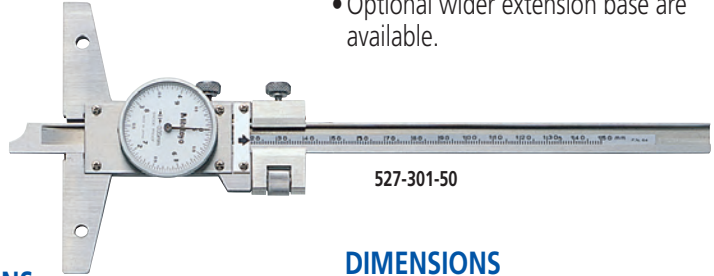
Technical Data

Dial reading: .001" or 0.05mm
Base size: 100x6.5mm (WxT)



FEATURES

- Easier and faster reading of dial.
- Made of hardened stainless steel.
- Base and measuring faces are hardened and micro-lapped.
- Optional wider extension base are available.



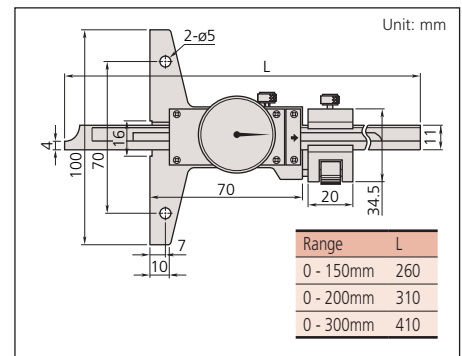
527-301-50

SPECIFICATIONS

Metric					
Range	Order No.	Dial reading	Accuracy	Mass (g)	
0 - 150mm	527-301-50	0.05mm	±0.05mm	280	
0 - 200mm	527-302-50	0.05mm	±0.05mm	300	
0 - 300mm	527-303-50	0.05mm	±0.08mm	340	

Inch					
Range	Order No.	Dial reading	Accuracy	Mass (g)	
0 - 6"	527-311-50	.001"	±.001"	280	
0 - 8"	527-312-50	.001"	±.001"	300	
0 - 12"	527-313-50	.001"	±.0015"	340	

DIMENSIONS



Extension Bases

Optional Accessory for Depth Gage

FEATURES

- Attached to the base (reference face) plate of a depth gage to extend its span.
- These extension base cannot be attached to 0-24" and 0-40", 0-600mm, 0-1000mm, range models.



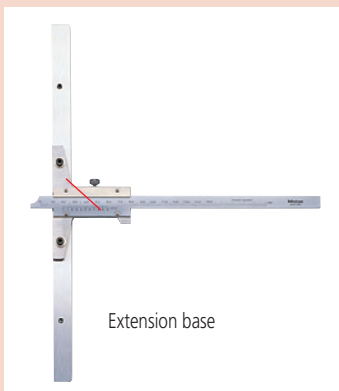
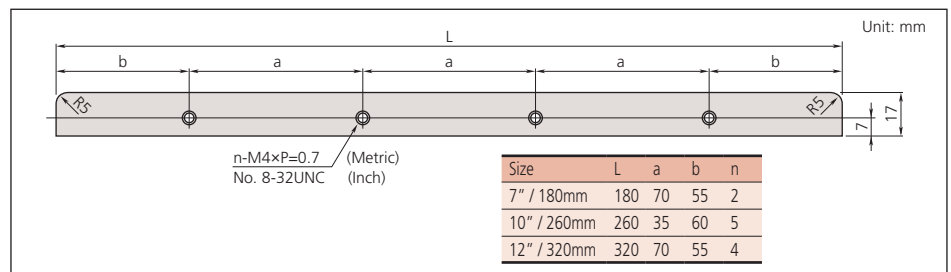
900372

SPECIFICATIONS

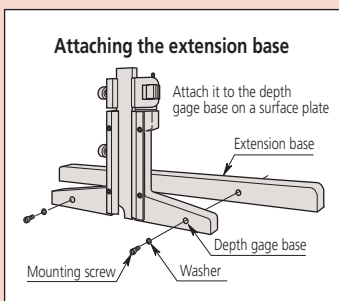
Metric			
Size	Order No.	Remarks (dimension a, b / n)	
180mm	900370	70mm, 55mm	2
260mm	900371	35mm, 60mm	5
320mm	900372	70mm, 55mm	4

Inch			
Size	Order No.	Remarks (dimension a, b / n)	
7"	900367	2.76", 2.17"	2
10"	900368	1.38", 2.36"	5
12"	900369	2.76", 2.17"	4

DIMENSIONS



Extension base



ABSOLUTE Digimatic/Dial Depth Gage

SERIES 547, 7

FEATURES

- ABSOLUTE Digimatic Depth Gage can keep track of the origin point once set for the entire life of the battery. (Series 547)
- Wide probing range is available with the supplied extension rod.
- Bottom surface of the base is hardened, ground and lapped for highest degree of flatness.
- Designed with a back plunger type dial indicator for upward facing readings. (**7231, 7237, 7238**)
- With SPC data output. (Series 547)



SPECIFICATIONS

Metric Digimatic model

Range	Order No.	Resolution	Stroke	Accuracy	Extension rod	Base (WxT)	Flatness
0 - 200mm	547-211	0.01mm	12mm	±0.02mm	5 pcs. (10, 20, 30, 30, 100mm)	63.5x16mm	5μm
0 - 200mm	547-212	0.01mm	12mm	±0.02mm	5 pcs. (10, 20, 30, 30, 100mm)	101.6x16mm	5μm
0 - 200mm	547-251	0.001mm	12mm	±0.005mm	5 pcs. (10, 20, 30, 30, 100mm)	63.5x16mm	2μm
0 - 200mm	547-252	0.001mm	12mm	±0.005mm	5 pcs. (10, 20, 30, 30, 100mm)	101.6x16mm	2μm

0.01mm graduation 0.001mm graduation

Inch/Metric Digimatic model

Range	Order No.	Resolution	Stroke	Accuracy	Extension rod	Base (WxT)	Flatness
0 - 8" / 0-200mm	547-217S	.0005" / 0.01mm	.5"	±.001"	4 pcs. (.5", 1", 2", 4")	2.5"x.63"	.0002"
0 - 8" / 0-200mm	547-218S	.0005" / 0.01mm	.5"	±.001"	4 pcs. (.5", 1", 2", 4")	4"x.63"	.0002"
0 - 8" / 0-200mm	547-257S	.00005" / 0.001mm	.5"	±.0003"	4 pcs. (.5", 1", 2", 4")	2.5"x.63"	.00008"
0 - 8" / 0-200mm	547-258S	.00005" / 0.001mm	.5"	±.0003"	4 pcs. (.5", 1", 2", 4")	4"x.63"	.00008"

.005"/0.01mm graduation .00005"/0.001mm graduation

Metric Dial Type

Range	Order No.	Graduation	Stroke	Accuracy	Extension rod	Base (WxT)	Flatness
0 - 10mm	7210*	0.01mm	10mm	±0.015mm	—	40x16mm	5μm
0 - 200mm	7211	0.01mm	10mm	±0.015mm	5 pcs. (10, 20, 30, 30, 100mm)	63.5x16mm	5μm
0 - 200mm	7212	0.01mm	10mm	±0.015mm	5 pcs. (10, 20, 30, 30, 100mm)	101.6x16mm	5μm
0 - 210mm	7213	0.01mm	30mm	±0.03mm	3 pcs. (30, 60, 90mm)	63.5x16mm	5μm
0 - 210mm	7214	0.01mm	30mm	±0.03mm	3 pcs. (30, 60, 90mm)	101.6x16mm	5μm
0 - 200mm	7220	0.01mm	10mm	±0.015mm	5 pcs. (10, 20, 30, 30, 100mm)	100x18mm	5μm
0 - 200mm	7221	0.01mm	10mm	±0.015mm	5 pcs. (10, 20, 30, 30, 100mm)	150x18mm	5μm
0 - 10mm	7222*	0.01mm	10mm	±0.015mm	5 pcs. (10, 20, 30, 30, 100mm)	ø16mm	5μm
0 - 10mm	7223	0.01mm	10mm	±0.015mm	5 pcs. (10, 20, 30, 30, 100mm)	ø25mm	5μm
0 - 10mm	7224	0.01mm	10mm	±0.015mm	5 pcs. (10, 20, 30, 30, 100mm)	ø40mm	5μm
0 - 200mm	7231	0.01mm	5mm	±0.015mm	5 pcs. (10, 20, 30, 30, 100mm)	63.5x16mm	5μm

*with needle probe

Inch Dial Type

Range	Order No.	Graduation	Stroke	Accuracy	Extension rod	Base (WxT)	Flatness
0 - 8"	7217S	.001"	1"	±.002"	4 pcs. (.5", 1", 2", 4")	2.5"x.63"	.0002"
0 - 8"	7218S	.001"	1"	±.002"	4 pcs. (.5", 1", 2", 4")	4"x.63"	.0002"
0 - 8"	7237	.001"	.2"	±.002"	4 pcs. (.5", 1", 2", 4")	2.5"x.63"	.0002"
0 - 8"	7238	.001"	.2"	±.002"	4 pcs. (.5", 1", 2", 4")	4"x.63"	.0002"



Technical Data

Accuracy: Refer to the list of specifications.
 Resolution*: .0005"/0.01mm or 0.001mm, 0.01mm, .00005"/0.001mm
 Dial reading**: .001" or 0.01mm
 Flatness of base face: 5μm
 Contact point: Carbide-tipped ball point or needle point (**7210, 7222**)
 Measuring force: 1.4N, 1.5N (digital model), 2.5N (**7213, 7214, 7217S, 7218S**)
 Display*: LCD
 Battery*: SR44 (1 pc.), **938882**
 Battery life*: Approx. 3.5 years under normal use
 *Digital models **Dial models

Technical Data of Dial Mode

Accuracy: Refer to the list of specifications.
 Dial reading: .001" or 0.01mm
 Flatness of base face: 5μm or 2μm
 Contact point: Carbide-tipped ball point (needle point: **7210, 7222**)
 Measuring force: 1.4N (2.5N: **7213, 7214, 7217, 7218**)

Function of Digimatic Model

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

Optional Accessories for Digimatic Model

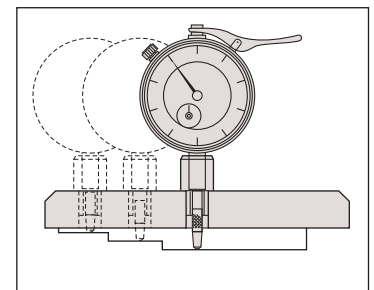
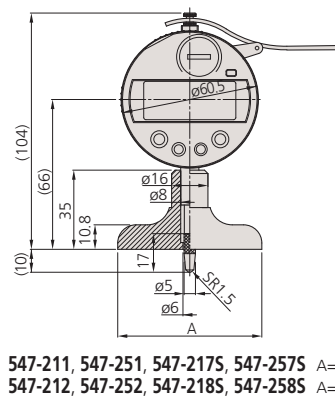
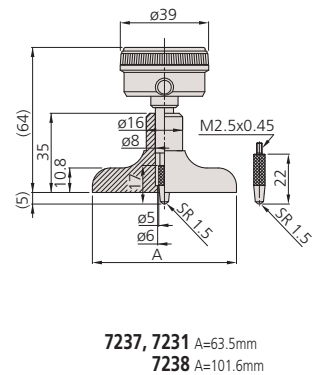
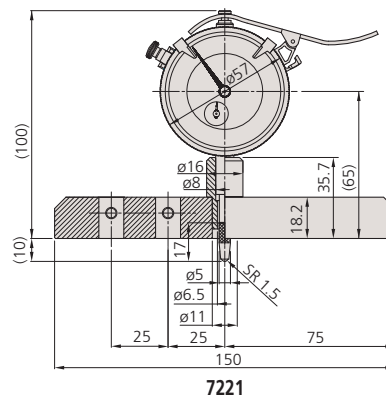
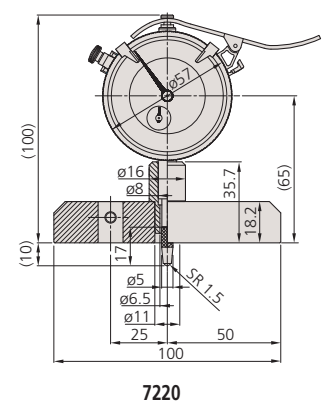
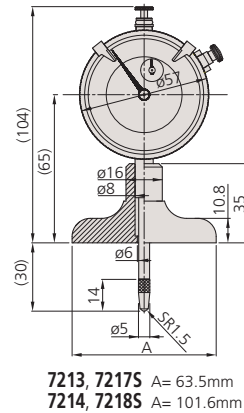
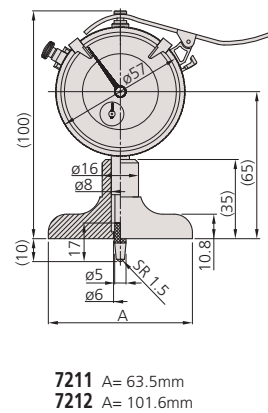
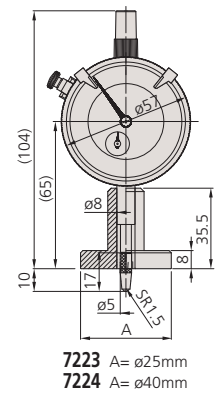
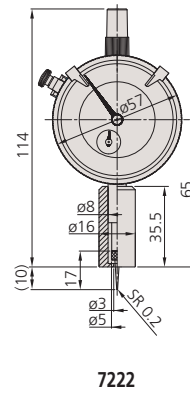
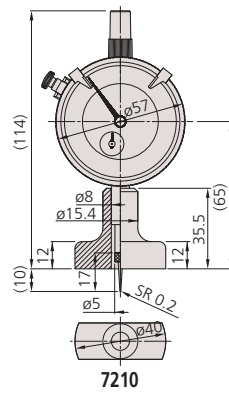
905338: SPC cable (40" / 1m)
905409: SPC cable (80" / 2m)
139167: .5" Extension Rod
301655: 1" Extension Rod
301657: 2" Extension Rod
301659: 4" Extension Rod
303611: 10mm Extension Rod
303612: 20mm Extension Rod
303613: 30mm Extension Rod
303614: 100mm Extension Rod

Base Only (3/8" dia. hole)

Part No.	length	remark
902164 :	2.5"	7217S, 7237, 547-217S, 547-257S
902165 :	4"	7218S, 7238, 547-218S, 547-258S

DIMENSIONS

Unit: mm



Mitutoyo

Tire Tread Depth Gage

SERIES 571, 700

FEATURES

- ABSOLUTE Digimatic Tread Depth Gage can keep track of the origin point once set for the entire life of the battery. (Series 571)
- Specially designed to measure tire tread depth.
- Plastic construction for light-weight use. (Series 700)
- With SPC data output. (Series 571)



571-100MOT-10



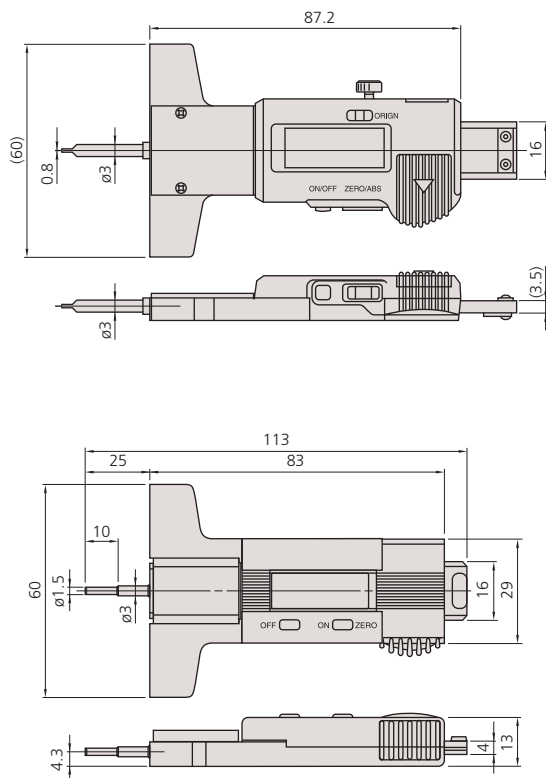
700-105

SPECIFICATIONS

Metric			
Range	Order No.	Resolution	Accuracy
0 - 25mm	571-100MOT-10	0.01mm	±0.02mm
0 - 25mm	700-104	0.1mm	±0.2mm

Inch/Metric			
Range	Order No.	Resolution	Accuracy
0 - 1" / 0 - 25.4mm	571-200MOT-10	.0005" / 0.01mm	±.0005"
0 - 1" / 0 - 25.4mm	700-105	.001" / 0.1mm	±.008"

DIMENSIONS AND MASS



Unit: mm

571-100MOT-10
571-200MOT-10
Mass:160g

700-104 / 700-105
Mass:50g

SPC

ABSOLUTE®
Absolute System Patented by MITUTOYO

Technical Data

Accuracy: Refer to the list of specifications.
Resolution: .0005"/0.01mm or 0.01mm (571 Series)
.001"/0.1mm or 0.1mm (700 Series)
Display: LCD
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 2 years under normal use
(approx. 2000 hours: Series 571)

Function

Origin-set*, Zero-setting, Power ON/OFF,
inch/mm conversion (on inch/metric models only)
Alarm: Low voltage, Counting value composition error
*Series 571

Optional Accessories for Series 571

959143: Data hold unit
959149: SPC cable with data switch (40" / 1m)
959150: SPC cable with data switch (80" / 2m)

