

SERIES 500 — with Dust/Water Protection Conforming to IP66/67 Level



- Staubdicht und wassergeschützt IP66

500-622

ABSOLUTE®



- Staub- und wasser-
dicht IP67

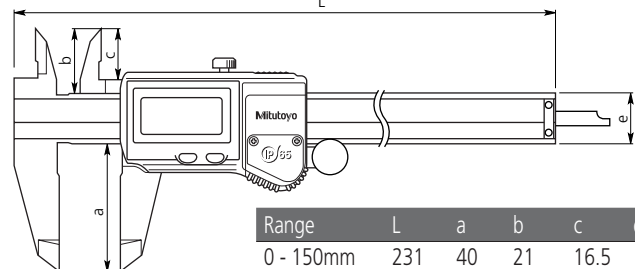
500-702

ABSOLUTE®

- 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.

Display: LCD
Functions: Origin-Set, Automatic power on/off, inch/mm conversion (inch/mm type only)/Data output
Battery: SR44 (2 pc.) **(938882)**
Battery life: Approx. 1.5 years under normal use
Maximum response speed: Unlimited
Dust/Water protection level: Conforming to IP66/IP67
Alarm: Low voltage, counting value composition error
Operating temperature: 0°C to 40°C

Unit: mm



Range	L	a	b	c	e
0 - 150mm	231	40	21	16.5	16
0 - 200mm	288	50	24.5	20	16
0 - 300mm	408	64	28	21.8	20

05CZA624: 1m
05CZA625: 2m



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SPECIFICATIONS

Metric	IP66 model				
Range	Order No.	Resolution	Accuracy	Mass	Remarks
0 - 150mm	500-622	0.01mm	±0.02mm	168g	With thumb roller
	500-626	0.01mm	±0.02mm	164g	—
	500-632	0.01mm	±0.02mm	168g	With data output and thumb roller
	500-637	0.01mm	±0.02mm	164g	With data output
0 - 200mm	500-623	0.01mm	±0.02mm	198g	With thumb roller
	500-627	0.01mm	±0.02mm	194g	—
	500-633	0.01mm	±0.02mm	198g	With data output and thumb roller
	500-638	0.01mm	±0.02mm	194g	With data output
0 - 300mm	500-624	0.01mm	±0.02mm	350g	With thumb roller
	500-628	0.01mm	(≤200mm)	345g	—
	500-634	0.01mm	±0.03mm	350g	With data output and thumb roller
	500-639	0.01mm	(>200mm)	345g	With data output

Excluding quantizing error

Inch/Metric	IP66 model				
Range	Order No.	Resolution	Accuracy	Mass	Remarks
0 - 6" (0 - 150mm)	500-672	.0005"/0.01mm	±.001"	.37 lbs.	With thumb roller
	500-682	.0005"/0.01mm	±.001"	.37 lbs.	With data output and thumb roller
0 - 8" (0 - 200mm)	500-673	.0005"/0.01mm	±.001"	.43 lbs.	With thumb roller
	500-683	.0005"/0.01mm	±.001"	.43 lbs.	With data output and thumb roller
0 - 10" (0 - 300mm)	500-674	.0005"/0.01mm	±.001" (≤8")	.77 lbs.	With thumb roller
	500-684	.0005"/0.01mm	±.0015" (>8")	.77 lbs.	With data output and thumb roller

Excluding quantizing error

Metric	IP67 model				
Range	Order No.	Resolution	Accuracy	Mass	Remarks
0 - 150mm	500-702	0.01mm	±0.02mm	168g	With thumb roller
	500-706	0.01mm	±0.02mm	164g	—
	500-712	0.01mm	±0.02mm	168g	With data output and thumb roller
	500-716	0.01mm	±0.02mm	164g	With data output
0 - 200mm	500-703	0.01mm	±0.02mm	198g	With thumb roller
	500-707	0.01mm	±0.02mm	194g	—
	500-713	0.01mm	±0.02mm	198g	With data output and thumb roller
	500-717	0.01mm	±0.02mm	194g	With data output

Excluding quantizing error

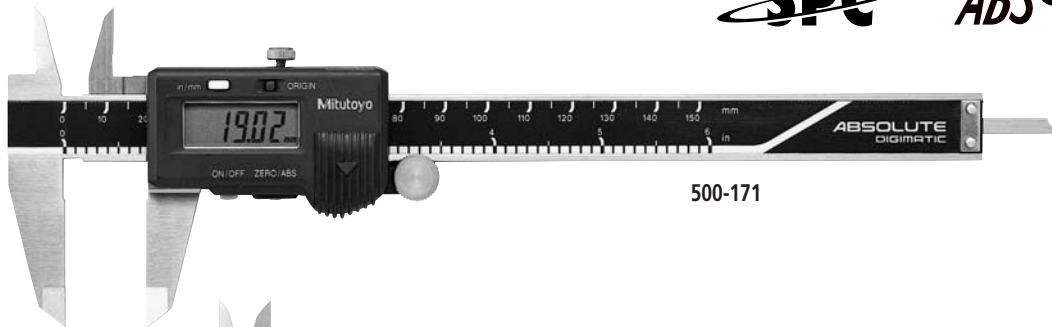
Inch/Metric	IP67 model				
Range	Order No.	Resolution	Accuracy	Mass	Remarks
0 - 6" (0 - 150mm)	500-752	.0005"/0.01mm	±.001"	.37 lbs.	With thumb roller
	500-762	.0005"/0.01mm	±.001"	.37 lbs.	With data output and thumb roller
0 - 8" (0 - 200mm)	500-753	.0005"/0.01mm	±.001"	.43 lbs.	With thumb roller
	500-763	.0005"/0.01mm	±.001"	.43 lbs.	With data output and thumb roller

Excluding quantizing error

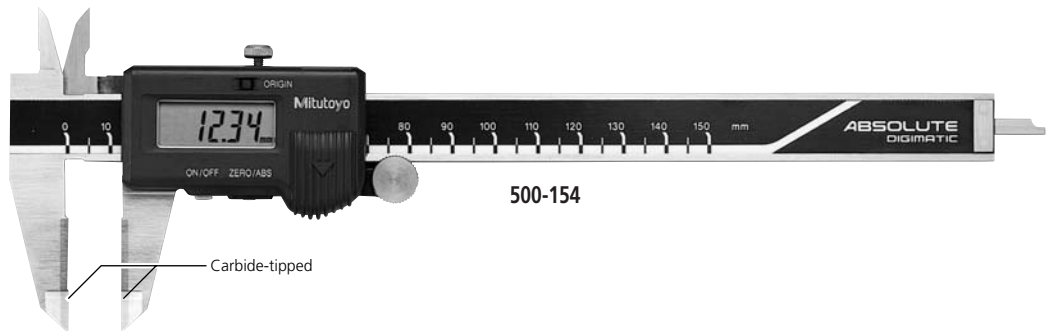


Absolute Digimatic Caliper

SERIES 500 — with Exclusive Absolute Encoder Technology

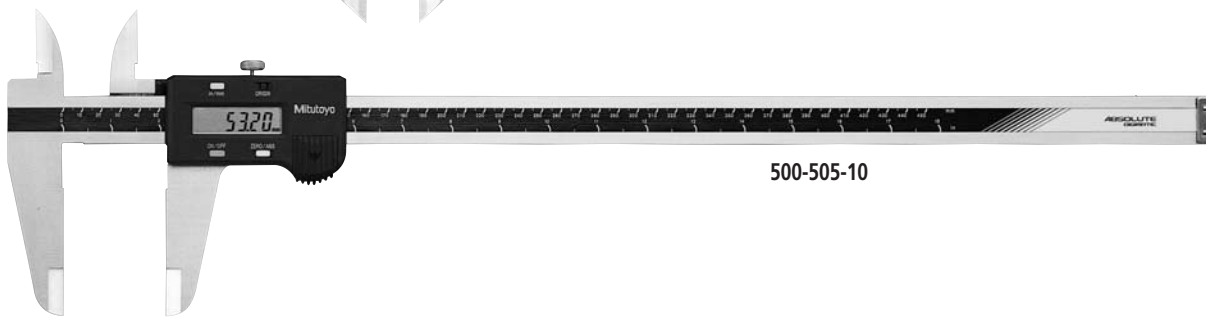


500-171



500-154

Carbide-tipped



500-505-10

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.

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.

Technical Data

Display: LCD
Functions: Origin-Set, Zero-Set, power on/off, inch/mm conversion (inch/mm type only), SPC data output, data hold (optional)
Battery: SR44 (1 pc.) (**938882**)
Battery life: Approx. 3.5 years under normal use
Maximum response speed: Unlimited
Alarm: Low battery voltage, scale contamination, counting value composition error
Operating temperature: 0°C to 40°C

Data Hold Unit
(**959143**)

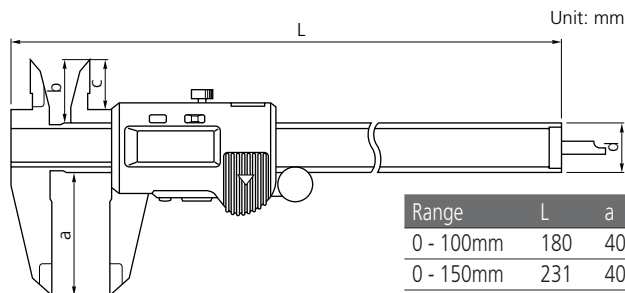


SPC cable with data switch (1m)
(**959149**)

OPTIONAL ACCESSORIES

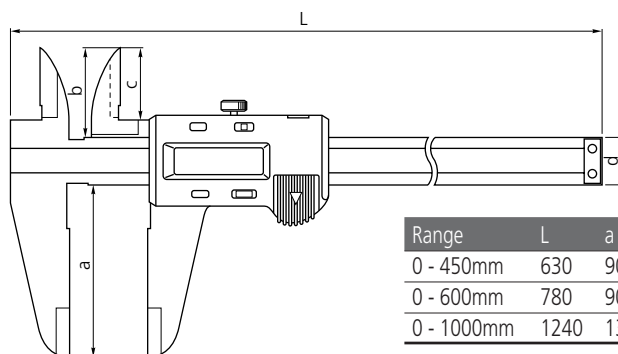
Order No.	Description
959143	Data Hold Unit
959149	SPC cable with data switch (1m)
959150	SPC cable with data switch (2m)

Dimensions



Unit: mm

Range	L	a	b	c	d
0 - 100mm	180	40	21	16.5	16
0 - 150mm	231	40	21	16.5	16
0 - 200mm	288	50	24.5	20	16
0 - 300mm	403	64	27.5	22	20



Range	L	a	b	c	d
0 - 450mm	630	90	47	38	25
0 - 600mm	780	90	47	38	25
0 - 1000mm	1240	130	61	50	32

SPECIFICATIONS

Metric

Range	Order No.	Resolution	Accuracy	Mass	Remarks
0 - 100mm	500-150	0.01mm	±0.02mm	137g	With depth measuring rod (ø1.9mm)
0 - 150mm	500-151	0.01mm	±0.02mm	162g	With depth measuring bar (blade)
	500-154*	0.01mm	±0.02mm	162g	With depth measuring bar (blade)
	500-155**	0.01mm	±0.02mm	162g	With depth measuring bar (blade)
	500-158	0.01mm	±0.02mm	162g	With depth measuring rod (ø1.9mm)
0 - 200mm	500-152	0.01mm	±0.02mm	192g	With depth measuring bar (blade)
	500-156*	0.01mm	±0.02mm	192g	With depth measuring bar (blade)
	500-157**	0.01mm	±0.02mm	192g	With depth measuring bar (blade)
0 - 300mm	500-153	0.01mm	±0.03mm	350g	With depth measuring bar (blade)
0 - 450mm	500-500-10	0.01mm	±0.05mm	1170g	—
0 - 600mm	500-501-10	0.01mm	±0.05mm	1350g	—
0 - 1000mm	500-502-10	0.01mm	±0.07mm	3300g	—

*Provided with carbide-tipped jaws for OD measurement.

**Provided with carbide-tipped jaws for OD & ID measurements.

Excluding quantizing error

Inch/Metric

Range	Order No.	Resolution	Accuracy	Mass	Remarks
0 - 4" (0 - 100mm)	500-170	.0005"/0.01mm	±.0010"	.30 lbs.	With depth measuring rod (ø3/40")
0 - 6" (0 - 150mm)	500-171	.0005"/0.01mm	±.0010"	.36 lbs.	With depth measuring bar (blade)
	500-174*	.0005"/0.01mm	±.0010"	.36 lbs.	With depth measuring bar (blade)
	500-155**	.0005"/0.01mm	±.0010"	.36 lbs.	With depth measuring bar (blade)
	500-178	.0005"/0.01mm	±.0010"	.36 lbs.	With depth measuring rod (ø3/40")
0 - 8" (0 - 200mm)	500-172	.0005"/0.01mm	±.0010"	.42 lbs.	With depth measuring bar (blade)
	500-176*	.0005"/0.01mm	±.0010"	.42 lbs.	With depth measuring bar (blade)
	500-177**	.0005"/0.01mm	±.0010"	.42 lbs.	With depth measuring bar (blade)
0 - 12" (0 - 300mm)	500-173	.0005"/0.01mm	±.0015"	.77 lbs.	With depth measuring bar (blade)
	500-167*	.0005"/0.01mm	±.0015"	.77 lbs.	With depth measuring bar (blade)
	500-168**	.0005"/0.01mm	±.0015"	.77 lbs.	With depth measuring bar (blade)
0 - 18" (0 - 450mm)	500-505-10	.0005"/0.01mm	±.0020"	2.57 lbs.	—
0 - 24" (0 - 600mm)	500-506-10	.0005"/0.01mm	±.0020"	2.97 lbs.	—
0 - 40" (0 - 1000mm)	500-507-10	.0005"/0.01mm	±.0030"	7.26 lbs.	—

*Provided with carbide-tipped jaws for OD measurement.

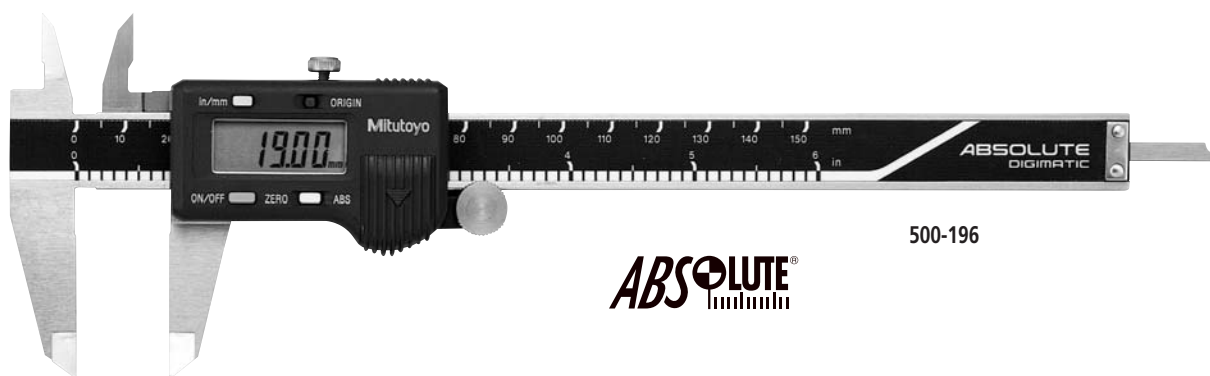
**Provided with carbide-tipped jaws for OD & ID measurements.

Excluding quantizing error



Absolute Digimatic Caliper

SERIES 500 — with Economical Design

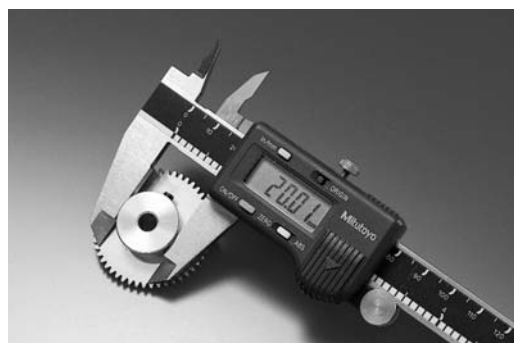


ABSOLUTE
DIGIMATIC

500-196

FEATURES

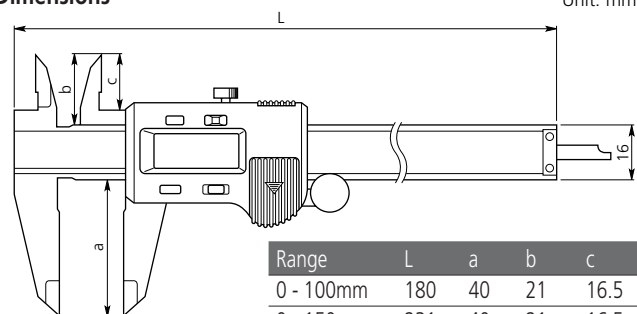
- Large and clear LCD readout.
- Low price due to the design featuring only essential functions.
- ZERO/ABS key: Allows the display to be Zero-Set at any slider position along the scale for incremental comparison measurements. This switch will also allow return to the absolute mode and display of the true position from the origin point.



Technical Data

Display: LCD
Functions: Origin-Set, Zero-Set, power on/off, inch/mm conversion (inch/mm type only)
Battery: SR44 (1 pc.) (938882)
Battery life: Approx. 3.5 years under normal use
Maximum response speed: Unlimited
Alarm: Low voltage, scale contamination, counting value composition error
Operating temperature: 0°C to 40°C

Dimensions



Range	L	a	b	c
0 - 100mm	180	40	21	16.5
0 - 150mm	231	40	21	16.5
0 - 200mm	288	50	24.5	20

SPECIFICATIONS

Metric

Range	Order No.	Resolution	Accuracy	Mass	Remarks
0 - 100mm	500-180	0.01mm	±0.02mm	137g	With depth measuring rod (ø1.9mm)
0 - 150mm	500-181	0.01mm	±0.02mm	162g	With depth measuring bar (blade)
0 - 200mm	500-182	0.01mm	±0.02mm	192g	With depth measuring bar (blade)

Excluding quantizing error

Inch/Metric

Range	Order No.	Resolution	Accuracy	Mass	Remarks
0 - 4" (0 - 100mm)	500-195	.0005"/0.01mm	±.0010"	.30 lbs.	With depth measuring rod (ø3/40")
0 - 6" (0 - 150mm)	500-196	.0005"/0.01mm	±.0010"	.36 lbs.	With depth measuring bar (blade)
	500-159*	.0005"/0.01mm	±.0010"	.36 lbs.	With depth measuring bar (blade)
	500-160**	.0005"/0.01mm	±.0010"	.36 lbs.	With depth measuring bar (blade)
0 - 8" (0 - 200mm)	500-197	.0005"/0.01mm	±.0010"	.42 lbs.	With depth measuring bar (blade)
	500-163*	.0005"/0.01mm	±.0010"	.42 lbs.	With depth measuring bar (blade)
	500-164**	.0005"/0.01mm	±.0010"	.42 lbs.	With depth measuring bar (blade)
0 - 12" (0 - 300mm)	500-193	.0005"/0.01mm	±.0015"	.77 lbs.	With depth measuring bar (blade)
	500-165*	.0005"/0.01mm	±.0015"	.77 lbs.	With depth measuring bar (blade)
	500-166**	.0005"/0.01mm	±.0015"	.77 lbs.	With depth measuring bar (blade)

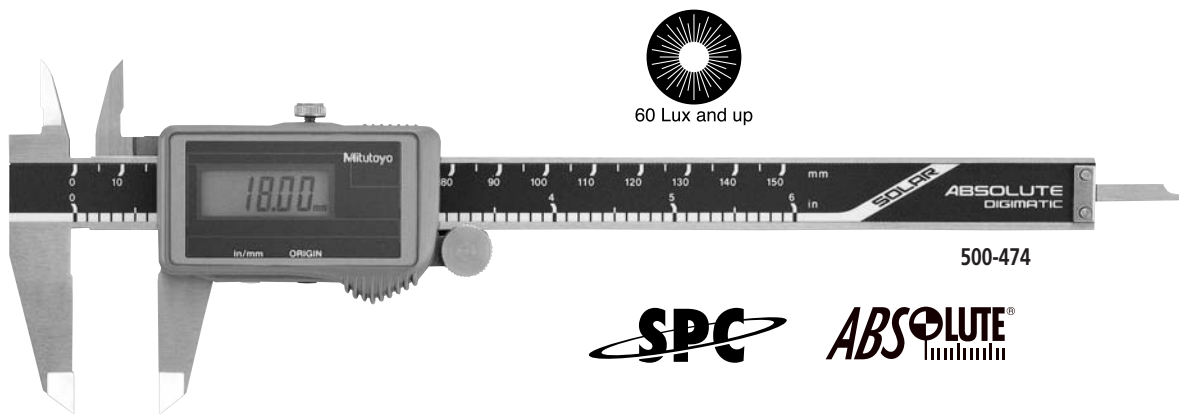
*Provided with carbide-tipped jaws for OD measurement.

**Provided with carbide-tipped jaws for OD & ID measurements.

Excluding quantizing error

Absolute Solar Caliper

SERIES 500 — Allowing No Need for Battery Replacement



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 "MyCAL SOLAR-ABSOLUTE" is turned on ready to start measurement.

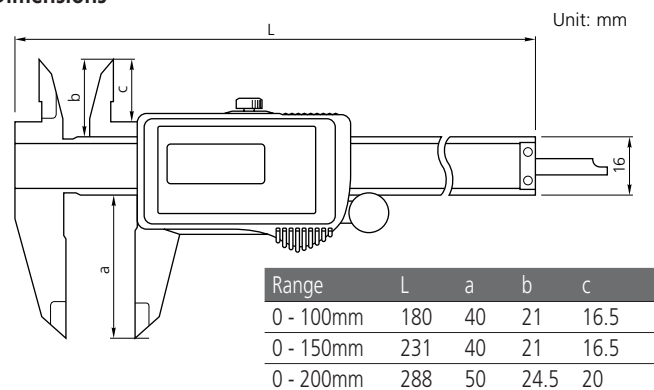
FEATURES

- No more repeated zero setting caused by the shortage of light intensity.
- Hard-coated solar panel for safe operation.
- No fear for overspeed errors.

Technical Data

Display: LCD
Functions: Origin-Set, inch/mm conversion (inch/mm type only)
Light intensity: 60Lux and up for operation (300Lux and up for origin setting)
Maximum response speed: Unlimited
Alarm: Scale contamination, counting value composition error
Operating temperature: 0°C to 40°C

Dimensions



OPTIONAL ACCESSORIES

Order No.	Description
959143	Data Hold Unit
959149	SPC cable with data switch (1m)
959150	SPC cable with data switch (2m)

Available for SPC data output model only.

SPECIFICATIONS

Metric

Range	Order No.	Resolution	Accuracy	Mass	Remarks
0 - 100mm	500-443	0.01mm	±0.02mm	145g	With depth measuring rod (ø1.9mm)
	500-453*	0.01mm	±0.02mm	125g	With depth measuring rod (ø1.9mm)
0 - 150mm	500-444	0.01mm	±0.02mm	170g	With depth measuring bar (blade)
	500-454*	0.01mm	±0.02mm	150g	With depth measuring bar (blade)
0 - 200mm	500-445	0.01mm	±0.02mm	200g	With depth measuring bar (blade)
	500-455*	0.01mm	±0.02mm	180g	With depth measuring bar (blade)

Excluding quantizing error

Inch/Metric

Range	Order No.	Resolution	Accuracy	Mass	Remarks
0 - 4" (0 - 100mm)	500-463	0.005"/0.01mm	±.001"	.32 lbs.	With depth measuring rod (ø3/40")
	500-473*	0.005"/0.01mm	±.001"	.28 lbs.	With depth measuring rod (ø3/40")
0 - 6" (0 - 150mm)	500-464	0.005"/0.01mm	±.001"	.37 lbs.	With depth measuring bar (blade)
	500-474*	0.005"/0.01mm	±.001"	.33 lbs.	With depth measuring bar (blade)
0 - 8" (0 - 200mm)	500-465	0.005"/0.01mm	±.001"	.44 lbs.	With depth measuring bar (blade)
	500-475*	0.005"/0.01mm	±.001"	.40 lbs.	With depth measuring bar (blade)

*Without SPC data output

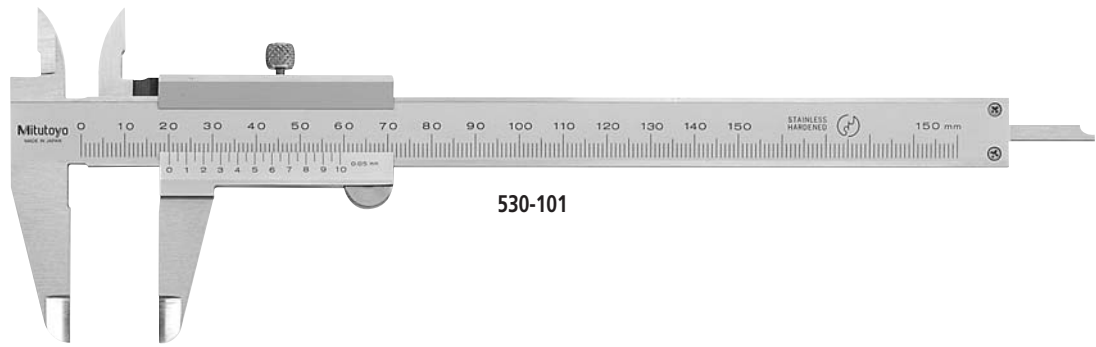
Excluding quantizing error



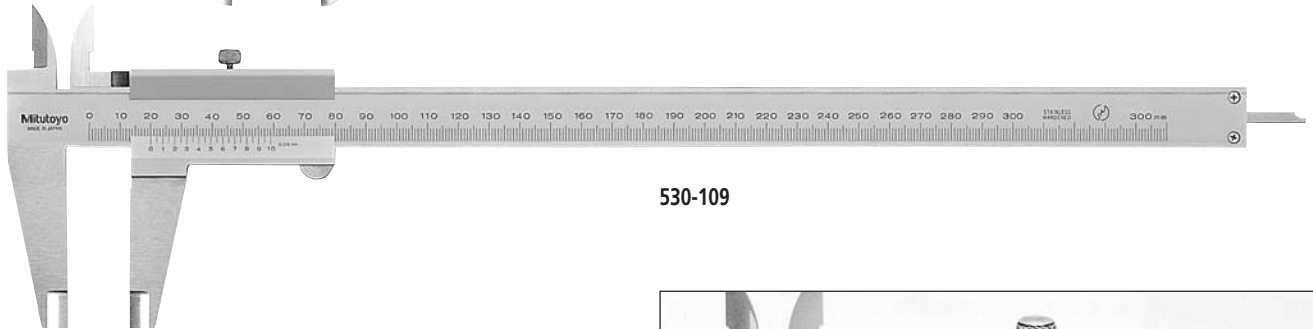
Vernier Caliper

SERIES 530

CALIPERS



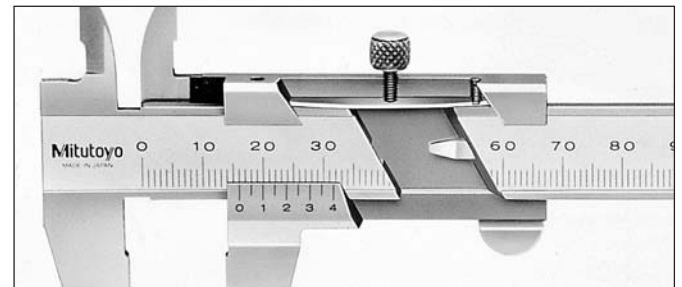
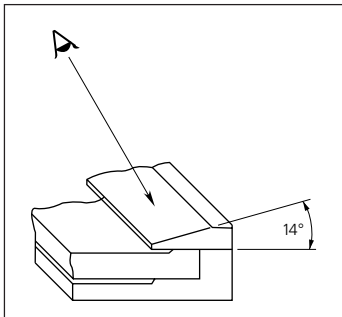
530-101



530-109

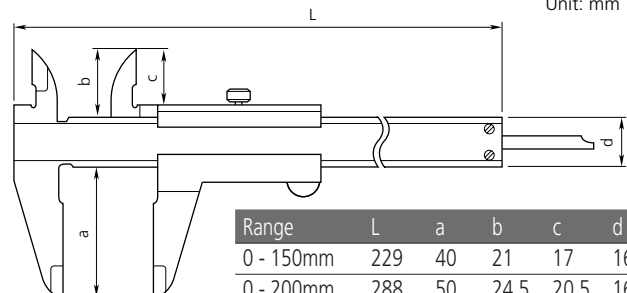
FEATURES

- Plain and basic design.
- Can measure OD (outside diameter), ID (inside diameter), depth, and steps.
- The small vernier face angle (14°) provides easy reading.



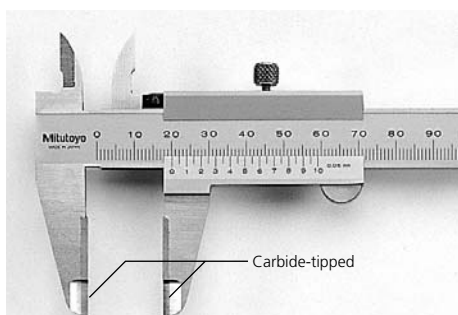
Dimensions

Unit: mm

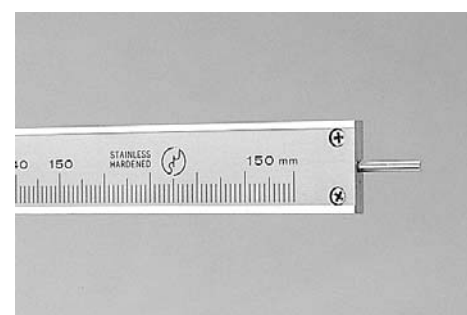


Range	L	a	b	c	d
0 - 150mm	229	40	21	17	16
0 - 200mm	288	50	24.5	20.5	16
0 - 300mm	403	64	27.5	22	20
0 - 600mm	780	90	47	38	25
0 - 1000mm	1240	130	60	50	32

- Clamping screw atop the slider.
- Carbide-tipped jaw type calipers are also available.

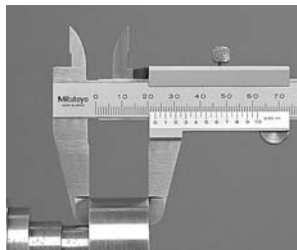


Carbide-tipped jaw type

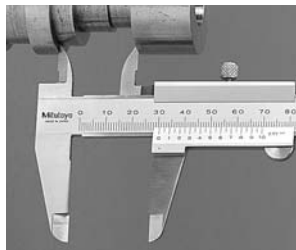


Round depth bar type

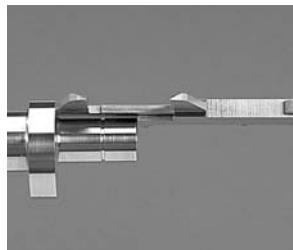
• Measurement applications



OD measurement



ID measurement



Step measurement



Depth measurement



SPECIFICATIONS

Metric

Range Lower scale	Range Upper scale	Order No.	Vernier reading Lower scale	Vernier reading Upper scale	Accuracy	Mass	Remarks
0 - 150mm	—	530-102	0.05mm	—	±0.05mm	145g	With depth measuring rod (ø1.9mm)
		530-101	0.05mm	—	±0.05mm	145g	With depth measuring bar (blade)
		530-320*	0.05mm	—	±0.05mm	145g	With depth measuring bar (blade)
		530-335**	0.05mm	—	±0.05mm	145g	With depth measuring bar (blade)
		530-319†	0.05mm	—	±0.05mm	145g	With depth measuring bar (blade)
		530-122	0.02mm	—	±0.03mm	145g	With depth measuring bar (blade)
0 - 200mm	—	530-108	0.05mm	—	±0.05mm	180g	With depth measuring bar (blade)
		530-321*	0.05mm	—	±0.05mm	180g	With depth measuring bar (blade)
		530-123	0.02mm	—	±0.03mm	180g	With depth measuring bar (blade)
0 - 300mm	—	530-109	0.05mm	—	±0.08mm	355g	With depth measuring bar (blade)
		530-322*	0.05mm	—	±0.08mm	355g	With depth measuring bar (blade)
		530-124	0.02mm	—	±0.04mm	355g	With depth measuring bar (blade)
0 - 600mm	—	530-501	0.05mm	—	±0.10mm	1300g	—
0 - 1000mm	—	530-502	0.05mm	—	±0.15mm	3300g	—

*Provided with carbide-tipped jaws for OD measurement. **Provided with carbide-tipped jaws for OD & ID measurements.

†Clamping screw below the slider.

Metric/Inch

Range Lower scale	Range Upper scale	Order No.	Vernier reading Lower scale	Vernier reading Upper scale	Accuracy	Mass	Remarks
0 - 150mm	0 - 6"	530-104	0.05mm	1/128"	±0.05mm	145g	With depth measuring bar (blade)
		530-316†	0.05mm	1/128"	±0.05mm	145g	With depth measuring bar (blade)
		530-125††	0.05mm	1/128"	±0.05mm	145g	With depth measuring bar (blade)
		530-312	0.02mm	.001"	±0.03mm	145g	With depth measuring bar (blade)
0 - 200mm	0 - 8"	530-114	0.05mm	1/128"	±0.05mm	180g	With depth measuring bar (blade)
		530-118	0.02mm	.001"	±0.03mm	180g	With depth measuring bar (blade)
0 - 300mm	0 - 12"	530-115	0.05mm	1/128"	±0.08mm	355g	With depth measuring bar (blade)
		530-119	0.02mm	.001"	±0.04mm	355g	With depth measuring bar (blade)

†Clamping screw below the slider. ††Inch/mm conversion table is labeled on the back of the slider.

Inch

Range Lower scale	Range Upper scale	Order No.	Vernier reading Lower scale	Vernier reading Upper scale	Accuracy	Mass	Remarks
0 - 6"	—	530-105	.001"	1/128"	±.0015"	.32 lbs.	With depth measuring bar (blade)
		530-314*	.001"	1/128"	±.0015"	.32 lbs.	With depth measuring bar (blade)
0 - 8"	—	530-116	.001"	1/128"	±.0015"	.40 lbs.	With depth measuring bar (blade)

*Provided with carbide-tipped jaws for OD measurement.