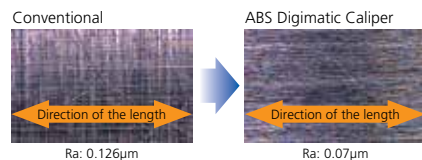


ABSOLUTE Digimatic Caliper

SERIES 500 — with Exclusive ABSOLUTE Encoder Technology

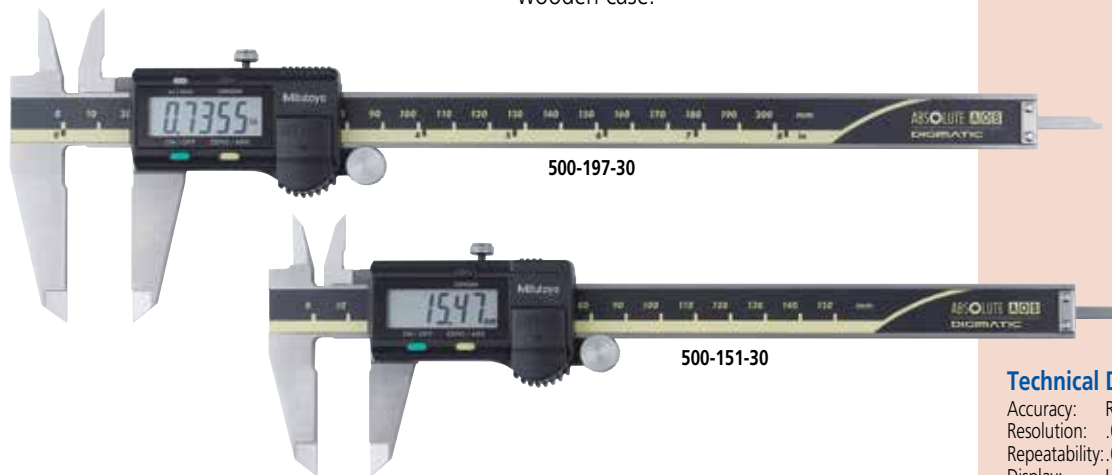
Mitutoyo's absolute Digimatic Caliper is the next generation of electronic calipers. It keeps track of its origin point once set. Whenever turned on, the large LCD displays the actual slider position ready to start measurement. No more repeated zero setting is necessary with the absolute encoder technology,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

High-quality guide surface finish for smooth slider movement.

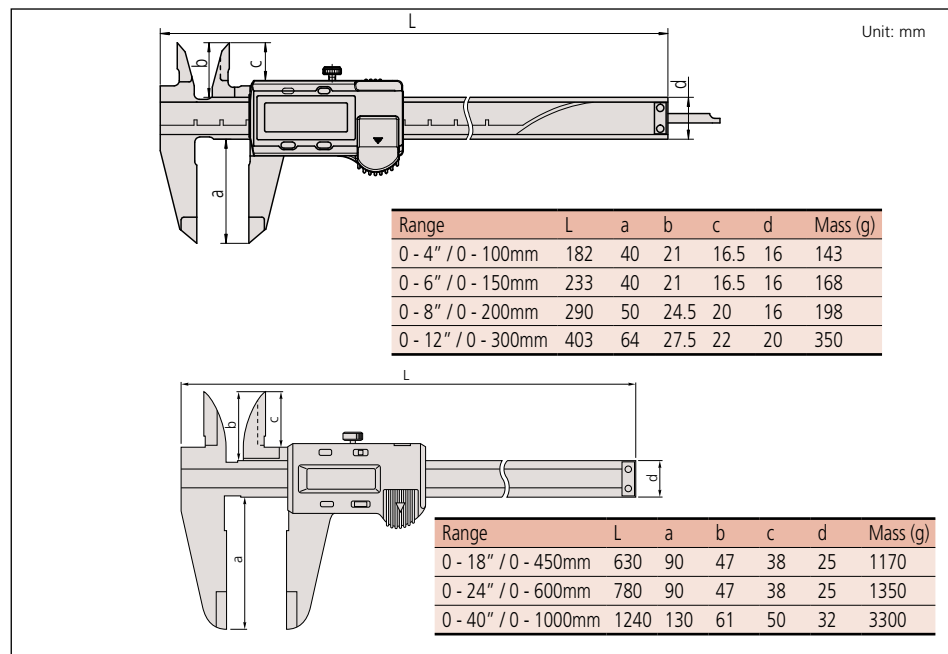


FEATURES

- 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 also will 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.



DIMENSIONS AND MASS



SPC



The new Mitutoyo ABS Digimatic Caliper line with exclusive AOS sensor technology. The patented Advanced Onsite Sensor (AOS) offers improved measurement dependability by increasing resistance to harsh workshop conditions.

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 type linear encoder (200mm and smaller models)
 ABSOLUTE electrostatic capacitance type linear encoder (300mm and larger models)
 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)

959143



959149



SPECIFICATIONS

Metric				
Range	Order No.	Accuracy	Resolution	Remarks
0 - 100mm	500-150-30	±0.02mm	0.01mm	ø1.9mm rod depth bar
0 - 150mm	500-151-30	±0.02mm	0.01mm	—
0 - 150mm	500-154-30	±0.02mm	0.01mm	Carbide-tipped jaws for OD measurement
0 - 150mm	500-155-30	±0.02mm	0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 150mm	500-158-30	±0.02mm	0.01mm	ø1.9mm rod depth bar
0 - 200mm	500-152-30	±0.02mm	0.01mm	—
0 - 200mm	500-156-30	±0.02mm	0.01mm	Carbide-tipped jaws for OD measurement
0 - 200mm	500-157-30	±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

Inch/Metric				
Range	Order No.	Accuracy	Resolution	Remarks
0 - 4" / 0 - 100mm	500-170-30	±.001"	.0005" / 0.01mm	.075" rod depth bar
0 - 4" / 0 - 100mm	500-195-30*	±.001"	.0005" / 0.01mm	.075" rod depth bar
0 - 6" / 0 - 150mm	500-171-30	±.001"	.0005" / 0.01mm	—
0 - 6" / 0 - 150mm	500-174-30	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD measurement
0 - 6" / 0 - 150mm	500-175-30	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 6" / 0 - 150mm	500-178-30	±.001"	.0005" / 0.01mm	.075" rod depth bar
0 - 6" / 0 - 150mm	500-196-30*	±.001"	.0005" / 0.01mm	—
0 - 6" / 0 - 150mm	500-159-30*	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD measurement
0 - 6" / 0 - 150mm	500-160-30*	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 8" / 0 - 200mm	500-172-30	±.001"	.0005" / 0.01mm	—
0 - 8" / 0 - 200mm	500-176-30	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD measurement
0 - 8" / 0 - 200mm	500-177-30	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD & ID measurement
0 - 8" / 0 - 200mm	500-197-30*	±.001"	.0005" / 0.01mm	—
0 - 8" / 0 - 200mm	500-163-30*	±.001"	.0005" / 0.01mm	Carbide-tipped jaws for OD measurement
0 - 8" / 0 - 200mm	500-164-30*	±.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