

PRODUCT INFORMATION

Features, Technical Data, Optional
Accessories and Specifications

ABSOLUTE Digimatic Caliper Series 500-with Exclusive ABSOLUTE Encode Technology

Series 500

FEATURES

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 over speed errors.

- 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.
- With thumb roller. Except 500-500-10, 500-501-10, 500-502-10.
- Supplied in fitted plastic case. Except 1000mm / 40" supplied in wooden case.



Technical Data

Accuracy: Refer to the list of specifications

Resolution: 0.01mm or .0005"/0.01mm

Repeatability: 0.01mm / .0005"

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

(inch/mm models **ONLY**)

Alarm: Low voltage, Counting value composition error

Optional Accessories

959143: Data hold unit

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

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

***without SPC data output**

Parts Break Down

Inch/Metric	Metric					
Order No	Model	Image	Range	Accuracy	LCD Res	Remarks
500-170-30	AOS Digimatic Caliper		0-4in 0-100mm	±.001in	.0005in 0.01mm	.075" Round depth bar
500-195-30*	AOS Digimatic Caliper	-	0-4in 0-100mm	±.001in	.0005in 0.01mm	.075" Round depth bar
500-171-30	AOS Digimatic	-	0-6in	±.001in	.0005in	-

Caliper		0-150mm		0.01mm	
500-174-30	AOS Digimatic Caliper	-	0-6in 0-150mm	±.001in	.0005in 0.01mm
500-175-30	AOS Digimatic Caliper	-	0-6in 0-150mm	±.001in	.0005in 0.01mm
500-178-30	AOS Digimatic Caliper	-	0-6in 0-150mm	±.001in	.0005in 0.01mm
500-196-30*	AOS Digimatic Caliper		0-6in 0-150mm	±.001in	.0005in 0.01mm
500-159-30*	AOS Digimatic Caliper	-	0-6in 0-150mm	±.001in	.0005in 0.01mm
500-160-30*	AOS Digimatic Caliper	-	0-6in 0-150mm	±.001in	.0005in 0.01mm
500-172-30	AOS Digimatic Caliper	-	0-8in 0-200mm	±.001in	.0005in 0.01mm
500-176-30	AOS Digimatic Caliper	-	0-8in 0-200mm	±.001in	.0005in 0.01mm
500-177-30	AOS Digimatic Caliper	-	0-8in 0-200mm	±.001in	.0005in 0.01mm
500-197-30*	AOS Digimatic Caliper		0-8in 0-200mm	±.001in	.0005in 0.01mm
500-163-30*	AOS Digimatic Caliper		0-8in 0-200mm	±.001in	.0005in 0.01mm
500-164-30*	AOS Digimatic Caliper	-	0-8in 0-200mm	±.001in	.0005in 0.01mm
500-173	Digimatic Caliper		0-12in 0-300mm	±.0015in	.0005in 0.01mm
500-167	Digimatic Caliper		0-12in 0-300mm	±.0015in	.0005in 0.01mm
500-168	Digimatic Caliper		0-12in 0-300mm	±.0015in	.0005in 0.01mm
500-193*	Digimatic Caliper		0-12in 0-300mm	±.0015in	.0005in 0.01mm
500-165*	Digimatic Caliper		0-12in 0-300mm	±.0015in	.0005in 0.01mm
500-166*	Digimatic Caliper		0-12in 0-300mm	±.0015in	.0005in 0.01mm
500-505-10	Digimatic Caliper		0-18in 0-450mm	±.002in	.0005in 0.01mm
500-506-10	Digimatic Caliper		0-24in 0-600mm	±.002in	.0005in 0.01mm
500-507-10	Digimatic Caliper		0-40in 0-1000mm	±.003in	.0005in 0.01mm

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