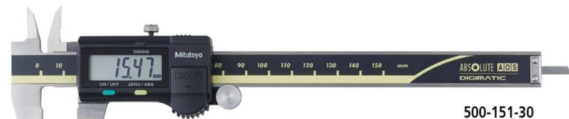


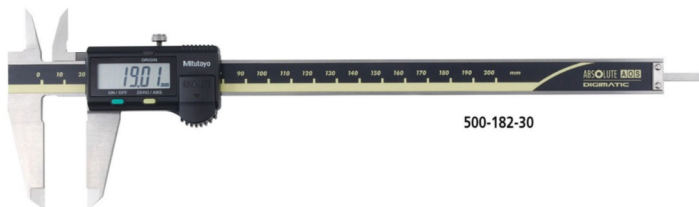
Calipers

ABSOLUTE Digimatic Caliper SERIES 500 — with exclusive ABSOLUTE Encoder Technology

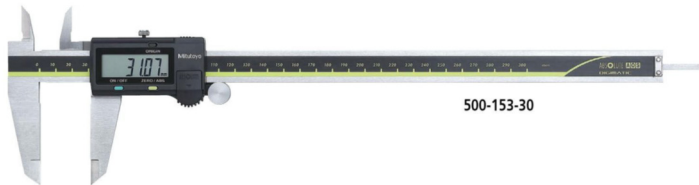
- The ZERO/ABS button allows the display to be Zero-Set at any slider position along the scale. In addition, no overspeed-errors will occur.
- Carbide-tipped jaw calipers are optimal for rough finished parts, castings, grinding stones, etc.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. (Refer to page A-3.)



500-151-30



500-182-30



500-153-30

SPECIFICATIONS

Metric							
Order No.	Range (mm)	Resolution (mm)	Maximum permissible error (mm)*		Mass (g)	Depth bar	Fine adjustment
500-150-30	0 - 100	0.01	±0.02	±0.04	143	ø1.9 mm rod	with thumb roller
500-180-30*1							—
500-151-30							—
500-154-30							—
500-155-30	0 - 150	0.01	±0.02	±0.04	168	Blade	with thumb roller
500-158-30							—
500-181-30*1							—
500-152-30							—
500-156-30	0 - 200	0.01	±0.02	±0.04	198	Blade	with thumb roller
500-157-30							—
500-182-30*1							—
500-153-30							—
500-153-30	0 - 300		±0.03	±0.05	350		with thumb roller

• Battery: SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)

• Scale type: ABSOLUTE electromagnetic induction linear encoder

• Battery life: Approx. 5 years under normal use

• Max. response speed: Unlimited

*1 Without SPC data output

*2 Partial Surface Contact Error, $EMPE$ and Shift Error, $SMPE$ are terms (notations) used in ISO 13385-1:2019.

Mitutoyo

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Mitutoyo reserves the right to change any or all aspects of any product specification, including prices, designs and service content, without notice.

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

U-WAVE[®] fit

ABSOLUTE[™]



Functions

Absolute measurement

Incremental measurement

Low-voltage alert

Data output

Note: See SPECIFICATIONS for excluded items.

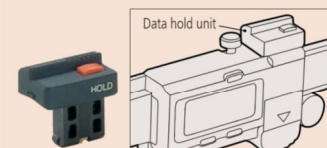
Data hold

Optional Accessories

(Note: Usable only for models with SPC data output. Refer to page A-21 for details.)

Order No.	Type	Description
959149	C	Connecting cables for IT/DP/MUX (1 m)
959150	C	Connecting cables for IT/DP/MUX (2 m)
06AFM380C	C	USB Input Tool Direct (2 m)
02AZD790C	C	Connecting cables for U-WAVE-T (160 mm)
02AZE140C	C	Connecting cables for U-WAVE-T For foot switch
264-621	Buzzer	U-WAVE-TC
264-625	Buzzer	U-WAVE-TCB
02AZF300	Buzzer	Connecting unit for U-WAVE-TC/TCB

Data hold unit



959143

Inch / Metric															
Order No.	Range	Resolution	Maximum permissible error*2		Mass (g)	Depth bar	Fine adjustment	Remarks							
			EMPE	SMPE											
500-170-30	0 - 4 in/ 0 - 100 mm	0.0005 in/ 0.01 mm	±0.001 in/ ±0.02 mm	±0.002 in/ ±0.04 mm	143	∅0.075 inch rod	with thumb roller	—							
500-195-30*1					Blade	Carbide-tipped jaws for outside measurement									
500-171-30								∅0.075 inch rod	Carbide-tipped jaws for outside and inside measurement						
500-174-30										168	—				
500-175-30	Carbide-tipped jaws for outside measurement														
500-178-30												0.075 inch rod	—		
500-196-30*1														Carbide-tipped jaws for outside measurement	
500-159-30*1															Carbide-tipped jaws for outside and inside measurement
500-160-30*1															
500-172-30					198	Blade									
500-176-30								Carbide-tipped jaws for outside and inside measurement							
500-177-30									—						
500-197-30*1	Carbide-tipped jaws for outside measurement														
500-163-30*1										Carbide-tipped jaws for outside and inside measurement					
500-164-30*1											—				
500-173-30												350		Carbide-tipped jaws for outside measurement	
500-167-30															Carbide-tipped jaws for outside and inside measurement
500-168-30					—										
500-193-30*1						Carbide-tipped jaws for outside measurement									
500-165-30*1								Carbide-tipped jaws for outside and inside measurement							
500-166-30*1															

• Battery: SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)

• Scale type: ABSOLUTE electromagnetic induction linear encoder

• Battery life: Approx. 5 years under normal use

• Max. response speed: Unlimited

*1 Without SPC data output

*2 Partial Surface Contact Error, E_{MPE} and Shift Error, S_{MPE} are terms (notations) used in ISO 13385-1:2019.

DIMENSIONS

