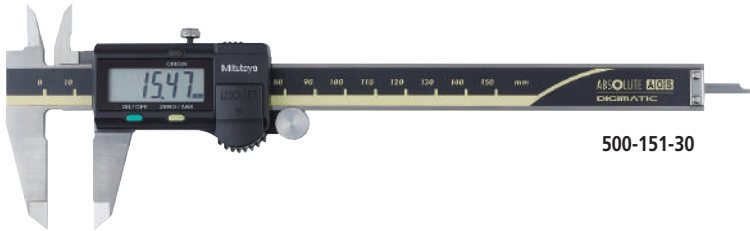


Calipers

ABSOLUTE Digimatic Caliper
SERIES 500 — with exclusive ABSOLUTE Encoder Technology

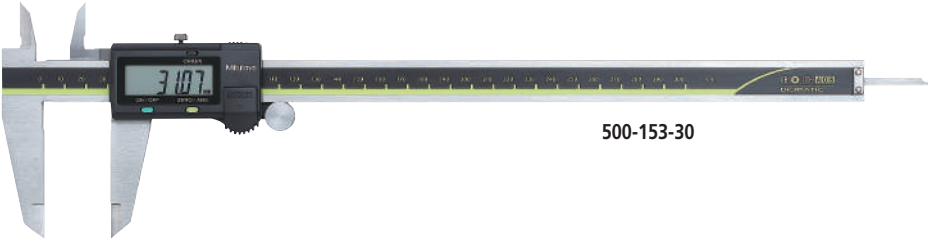
- The ZERO/ABS button allows the display to be Zero-Set at any slider position along the scale. In addition, no overspeed-errors will occur.
- Carbide-tipped jaw calipers are optimal for rough finished parts, castings, grinding stones, etc.
- Allows integration into statistical process control and measurement 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)*2		Mass (g)	Depth bar	Fine adjustment	Remarks			
			EMPE	SMPE							
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	0 - 150				168	Blade	with thumb roller	Carbide-tipped jaws for outside measurement			
500-155-30										Carbide-tipped jaws for outside and inside measurement	
500-158-30								ø1.9 mm rod	—		
500-181-30*1										—	
500-152-30	0 - 200				198	Blade	with thumb roller	Carbide-tipped jaws for outside measurement			
500-156-30										Carbide-tipped jaws for outside and inside measurement	
500-157-30											
500-182-30*1											
500-153-30								0 - 300	±0.03	±0.05	350

- 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.



Functions

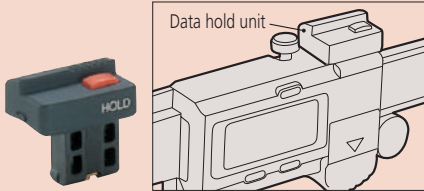
- Absolute measurement
- Incremental measurement
- Low-voltage alert
- Data output
- Note: See SPECIFICATIONS for excluded items.
- Data hold

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		Resolution	Maximum permissible error*2		Mass (g)	Depth bar	Fine adjustment	Remarks		
Order No.	Range		E _{TMPE}	S _{TMPE}						
500-170-30	0 - 4 in/	0.0005 in/ 0.01 mm	±0.001 in/ ±0.02 mm	±0.002 in/ ±0.04 mm	143	ø0.075 inch rod	with thumb roller	—		
500-195-30*1	0 - 100 mm				0 - 6 in/ 0 - 150 mm	168		ø0.075 inch rod	Blade	Carbide-tipped jaws for outside measurement
500-171-30										Carbide-tipped jaws for outside and inside measurement
500-174-30										—
500-175-30										Carbide-tipped jaws for outside measurement
500-178-30										Carbide-tipped jaws for outside and inside measurement
500-196-30*1										—
500-159-30*1										Carbide-tipped jaws for outside measurement
500-160-30*1										Carbide-tipped jaws for outside and inside measurement
500-172-30	0 - 8 in/ 0 - 200 mm				198	Blade		—		
500-176-30								Carbide-tipped jaws for outside measurement		
500-177-30								Carbide-tipped jaws for outside and inside measurement		
500-197-30*1								—		
500-163-30*1								Carbide-tipped jaws for outside measurement		
500-164-30*1								Carbide-tipped jaws for outside and inside measurement		
500-173-30	0 - 12 in/ 0 - 300 mm		±0.0015 in/ ±0.03 mm	±0.0025 in/ ±0.05 mm	350	—				
500-167-30						Carbide-tipped jaws for outside measurement				
500-168-30						Carbide-tipped jaws for outside and inside measurement				
500-193-30*1						—				
500-165-30*1						Carbide-tipped jaws for outside measurement				
500-166-30*1						Carbide-tipped jaws for outside and inside measurement				

- 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.

DIMENSIONS

