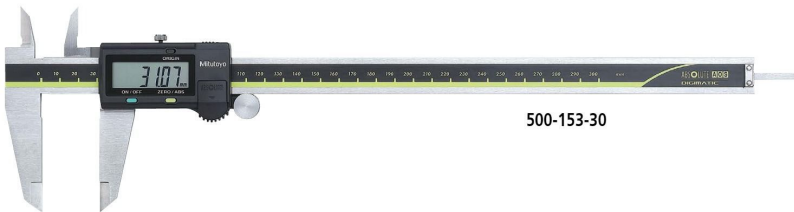


Calipers

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.)



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	0 - 150					Blade	with thumb roller		Carbide-tipped jaws for outside measurement			
500-151-30						Blade	with thumb roller		Carbide-tipped jaws for outside and inside measurement			
500-154-30	0 - 200				168	ø1.9 mm rod	with thumb roller	—	—			
500-155-30										Blade	with thumb roller	Carbide-tipped jaws for outside measurement
500-158-30												
500-181-30*1	0 - 300				198	Blade	with thumb roller	—	—			
500-152-30										Carbide-tipped jaws for outside measurement		
500-156-30	0 - 200				198	Blade	with thumb roller	—	—			
500-157-30										Carbide-tipped jaws for outside and inside measurement		
500-182-30*1	0 - 300	350	Blade	with thumb roller	—	—						
500-153-30							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.



Functions

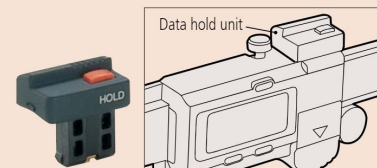
- Absolute measurement
- Incremental measurement
- Low-voltage alert
- Data output
- Note: See SPECIFICATIONS for excluded items.
- Data hold

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		EMPE	SMPE				
500-170-30	0 - 4 in/				143	∅0.075 inch rod		—
500-195-30*1	0 - 100 mm							
500-171-30								
500-174-30								
500-175-30	0 - 6 in/	0.0005 in/ 0.01 mm			168	∅0.075 inch rod	with thumb roller	Carbide-tipped jaws for outside measurement
500-178-30	0 - 150 mm							
500-196-30*1								
500-159-30*1								
500-160-30*1								
500-172-30								
500-176-30								
500-177-30	0 - 8 in/							
500-197-30*1	0 - 200 mm							
500-163-30*1								
500-164-30*1								
500-173-30								
500-167-30								
500-168-30	0 - 12 in/							
500-193-30*1	0 - 300 mm							
500-165-30*1					350			Carbide-tipped jaws for outside 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, EMPE and Shift Error, SMPE are terms (notations) used in ISO 13385-1:2019.

DIMENSIONS

Unit: mm

Range (mm)	A	B	C	D	H	L
0 - 100	16.5	21	14.5	40	16	182
0 - 150	16.5	21	14.5	40	16	233
0 - 200	20	24.5	18	50	16	290
0 - 300	22	27.5	19.8	64	20	404

Jaw thickness: 3.5 mm for 0 to 100 mm/0 to 150 mm/0 to 200 mm models and 3.8 mm for 0 to 300 mm model