

Digimatic Calipers IP67 ABS Digimatic Coolant Proof Calipers ABS Digimatic Calipers





IP67 ABS Digimatic Coolant Proof Calipers













Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink®.

An inspection certificate is supplied as

Note: MeasurLink® is a registered trademark of Mitutoyo Corporation in Japan and Mitutoyo America Corporation in the United States.



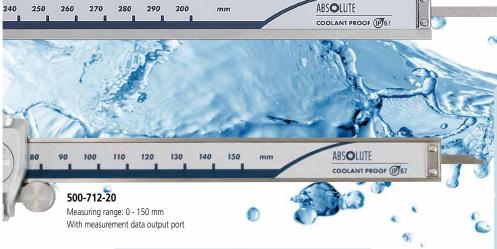
500-714-20, with 20 mm main beam width. provides high rigidity and excellent straightness of the scale.

250

260

Note: **500-714-20** measuring range: 0 - 300 mm

Environmentally friendly 5-year long-life battery for less frequent battery replacement.



No more handwritten records thanks to the built-in measurement data output function. Centralized data management with **U-WAV**Effit and DP-1VA LOGGER.



ABSOLUTE COOLANT PROOF (P) 67

There is no screw on the battery lid. Easy, quick battery replacement.



500-724-20

Measuring range: 0 - 200 mm With measurement data output port Carbide-tipped jaws for outside and inside measurement

COOLANT **PROOF**™ (IP)67





COOLANT PROOF* is the universal term for Mitutoyo Digimatic Small Tool Instruments that are not only resistant to dust and water ingress but also to deterioration of materials due to contact with the cutting oil or coolant fluids in normal use.

* Some types of aggressive cutting oil or coolant may degrade the sealing materials over time.

IP67 protection level

IP 6 7

	Ţ					
First characteristic		om solid objects or things)	Second characteristic	Protection from liquids (water, etc.)		
number		number	Brief description	Description		
6	Dust-proof	No ingress of dust allowed.	7	Protected against water penetration.	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time.	

Note: For details of the test conditions used in evaluating each degree of protection, please refer to the original standard.



ABS Digimatic Calipers



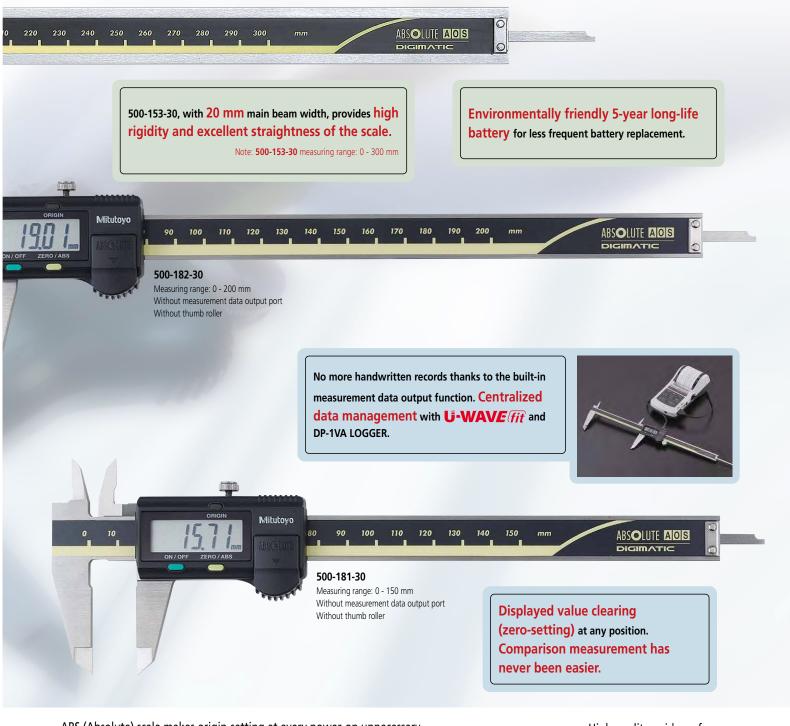






Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink®.

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ABS (Absolute) scale makes origin-setting at every power-on unnecessary, and the allowable slider speed is unlimited with this type of scale.



High quality guide surface finish for smooth slider movement



ABS Digimatic Caliper ex. **500-151-30**

Common specifications

(IP67 ABS Digimatic Coolant Proof Calipers, ABS Digimatic Calipers)

- Digital step: 0,01 mm
- Power supply: Silver oxide button cell battery SR44 (938882), 1 pc. supplied for testing purposes only. Replace with a fresh cell as soon as the caliper is put into use.
- Max. response speed: Unlimited

IP67 ABS Digimatic Coolant Proof Calipers Specifications

Metric

Battery life: Approx. 5 years under	
normal use	

ORIGIN button:

After power is turned ON, measurement can be started without zero-setting if

origin-setting was previously performed. The Absolute origin position can be

(IP67 ABS Digimatic Coolant Proof Calipers, ABS Digimatic Calipers)

Common functions

Sets the Absolute origin at the current slider position when pressed.

Low-voltage alert:

Absolute measurement:

changed by the ORIGIN button.

If the battery voltage becomes low, a "B" appears in the display to alert the user before measurement is no longer possible. A battery change advisory alert precedes this alert.

Order No.	Measuring range (mm)	Maximum permissible error (mm)*		Measurement data	Thumb roller	Remarks						
Order No.		Емре	Ѕмре	output port	mumb roller	Relialis						
500-706-20	ĺ			_	_	_						
500-709-20				_	_	Depth bar: ø1,9 mm						
500-702-20				_	✓	_						
500-716-20				✓	_	_						
500-712-20	0 - 150			✓	✓	_						
500-719-20	1			✓	✓	Depth bar: ø1,9 mm						
500-721-20]			✓	✓	Carbide-tipped jaws for outside measurement						
500-727-20	1	±0,02	±0,04	✓	_	Carbide-tipped jaws for outside & inside measurement						
500-723-20				±0,04	±0,04	✓	✓	Carbide-tipped jaws for outside & inside measurement				
500-707-20				_	_	_						
500-703-20				_	✓	_						
500-717-20				✓	_	_						
500-713-20	0 - 200	0	ļ							✓	✓	_
500-722-20]			✓	✓	Carbide-tipped jaws for outside measurement						
500-728-20]			✓	_	Carbide-tipped jaws for outside & inside measurement						
500-724-20				✓	✓	Carbide-tipped jaws for outside & inside measurement						
500-708-20				_		_						
500-704-20	0 - 300	±0,03	±0,05	_	✓	_						
500-718-20		±0,03	±0,03	✓		_						
500-714-20				✓	✓	_						

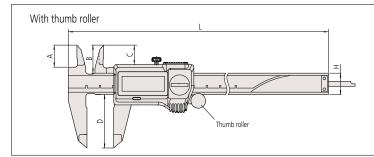
^{*} Partial Surface Contact Error, EMPE and Shift Error, SMPE are terms (notations) used in ISO 13385-1:2019

Inch/Metric

Order No.	Measuring range	Maximum permissible error*		Measurement data	Thomas as II as	
Order No.	(in)	Емре	Smpe	output port	Thumb roller	Remarks
500-752-20			ĺ	_	✓	_
500-768-20				_	✓	Depth bar: Ø 1,9 mm
500-762-20				✓	✓	_
500-769-20				✓	✓	Depth bar: Ø 1,9 mm
500-731-20	±0.001 in			_	✓	Carbide-tipped jaws for outside measurement
500-733-20				_	✓	Carbide-tipped jaws for outside/inside measurement
500-735-20		0.004	0.003	✓	✓ ✓	Carbide-tipped jaws for outside measurement
500-737-20		±0.001 in	±0.002 in	✓	✓	Carbide-tipped jaws for outside/inside measurement
500-753-20			_ ✓	_		
500-763-20	1			✓	✓	_
500-732-20	0-8			_	✓	Carbide-tipped jaws for outside measurement
500-734-20	0-8			_	✓	Carbide-tipped jaws for outside/inside measurement
500-736-20	1			✓	✓	Carbide-tipped jaws for outside measurement
500-738-20				✓	✓	Carbide-tipped jaws for outside/inside measurement
500-754-20	0 - 12	±0.0015 in	±0.0025 in	_	✓	_
500-764-20	U - 1Z	±0.0015 If1	±0.0025 IN	✓	✓	_

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DIMENSIONS



							Unit: mm
	Measuring range	А	В	С	D		L
	0 - 150	16.5	21	14.6	40	16	233
Ī	0 - 200	20	24.5	18.1	50	16	290
	0 - 300	22	27.5	19.8	64	20	404

Outside jaw thickness = 3.5 mm for 0 to 150 mm / 0 to 200 mm models 3.8 mm for 0 to 300 mm model



ABS Digimatic Calipers Specifications

Metric

Order No.	Measuring range	Maximum permissible error (mm)*		Measurement data	Thumb roller							
Order No.	(mm)	Емре	Smpe		Thumb roller	Remarks						
500-180-30				_	_	Depth bar ø1,9 mm						
500-201-30	0 - 100			✓	_	Depth bar ø1,9 mm						
500-150-30				✓	✓	Depth bar ø1,9 mm						
500-181-30				_	_	_						
500-184-30						Depth bar ø1,9 mm						
500-161-30				✓	_	П						
500-203-30				✓		Depth bar ø1,9 mm						
500-151-30	0 150	0 - 150		✓	✓	_						
500-158-30	0 - 150			✓ ✓	Depth bar ø1,9 mm							
500-233-30		0.03	0.04	✓	_	Carbide-tipped jaws for outside measurement						
500-234-30	1	±0,02	±0,04	✓	_	Carbide-tipped jaws for outside/inside measurement						
500-154-30				✓	✓	Carbide-tipped jaws for outside measurement						
500-155-30				✓	✓	Carbide-tipped jaws for outside/inside measurement						
500-182-30						_	_	_				
500-162-30	1			✓	_	_						
500-152-30	1			✓	✓	_						
500-235-30	0 - 200			✓	_	Carbide-tipped jaws for outside measurement						
500-236-30	1							✓		✓	_	Carbide-tipped jaws for outside/inside measurement
500-156-30	1							✓	✓	Carbide-tipped jaws for outside measurement		
500-157-30				✓	✓	Carbide-tipped jaws for outside/inside measurement						
500-205-30	0 - 300	.0.03	.0.05	✓	_	_						
500-153-30	0 - 300	±0,03	±0,05	✓	✓	_						

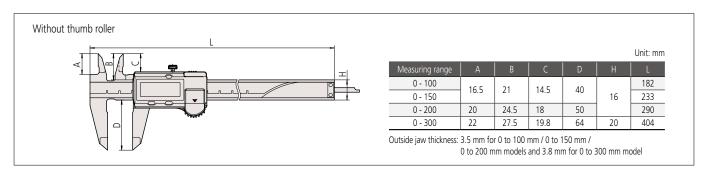
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Inch/Metric

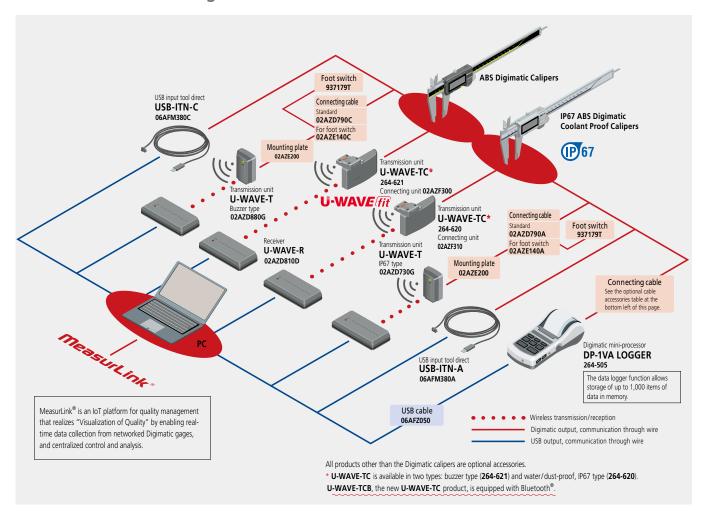
Order No.	Measuring range	Maximum permissible error*		Measurement data	Thumb roller	Remarks			
Order No.	(in)	Емре	Smpe	output port	THUITID TOILET	Relialks			
500-195-30	0 - 4			_	✓	Depth bar: Ø 1,9 mm			
500-170-30	0-4			✓	✓	Depth bar: Ø 1,9 mm			
500-191-30				_	_	_			
500-196-30	1			_	✓	_			
500-202-30				✓	_	_			
500-171-30]			✓	✓	_			
500-178-30	0 - 6			✓	✓	Depth bar: Ø 1,9 mm			
500-159-30				_	✓	Carbide-tipped jaws for outside measurement			
500-160-30		±0,001 in	±0,002 in	_	✓	Carbide-tipped jaws for outside/inside measurement			
500-174-30		20,001 111		✓	✓	Carbide-tipped jaws for outside measurement			
500-175-30							√	✓	Carbide-tipped jaws for outside/inside measurement
500-197-30				- ✓	_				
500-204-30]							✓	_
500-172-30				✓	✓	_			
500-163-30	0 - 8	0 - 8		- 🗸	Carbide-tipped jaws for outside measurement				
500-164-30]			_	✓	Carbide-tipped jaws for outside/inside measurement			
500-176-30				✓	✓	Carbide-tipped jaws for outside measurement			
500-177-30				√	✓	Carbide-tipped jaws for outside/inside measurement			
500-193-30				_	√				
500-173-30]	0 - 12 ±0.0015 in		✓	√				
500-165-30	7		.0.002F in	_	_	Carbide-tipped jaws for outside measurement			
500-166-30	0 - 12	±0,0015 in	±0,0025 in	_	_	Carbide-tipped jaws for outside/inside measurement			
500-167-30				√	✓	Carbide-tipped jaws for outside measurement			
500-168-30]			✓	√	Carbide-tipped jaws for outside/inside measurement			

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DIMENSIONS



Centralized data management



Optional cable accessories

	Product	Order No.	
	Connecting coble	959149 (1 m)	
ABS Digimatic Calipers	Connecting cable	959150 (2 m)	
	Hold unit	959143	
IP67 ABS Digimatic	Connecting cable	05CZA624 (1 m)	
Coolant Proof Calipers	Connecting cable	05CZA625 (2 m)	

Combining optional accessories enables not only wireless measurement data recording but also advanced statistical processing management.

Note: All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this printed matter as well as other technical data are to be regarded as approximate average values. We therefore reserve the right to make changes to the corresponding designs, dimensions and weights. The stated standards, similar technical regulations, descriptions and illustrations of the products were valid at the time of printing. In addition, the latest applicable version of our General Trading Conditions will apply. Only quotations submitted by ourselves may be regarded as definitive.

