Mitutoyo

Digimatic Calipers IP67 ABS Digimatic Coolant Proof Calipers ABS Digimatic Calipers

SMALL TOOL INSTRUMENTS AND DATA MANAGEMENT



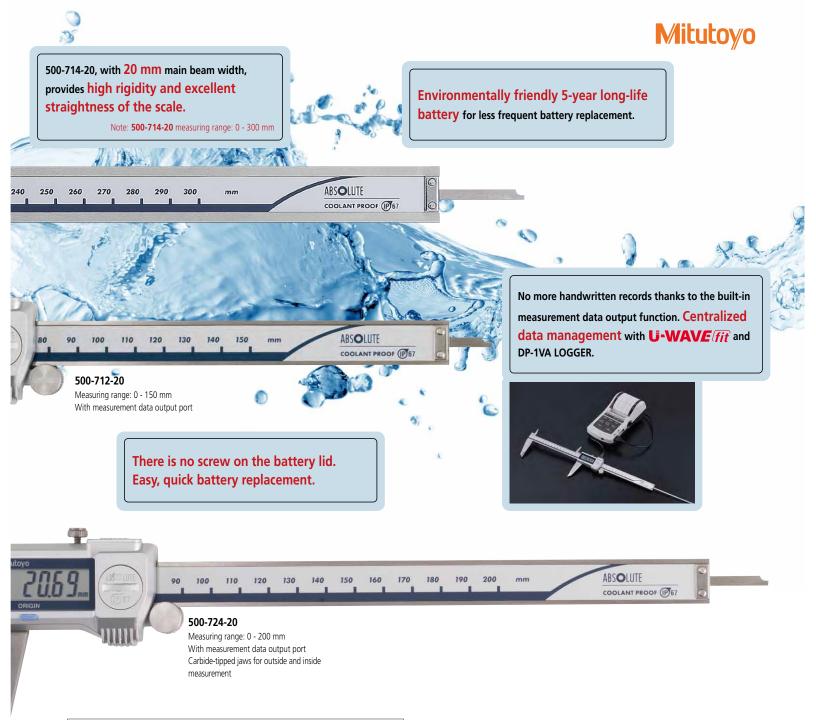
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COOLANT PROOF TO COOLANT PROOF



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

 First drarktristic number
 Protection from solid objects (people or things)
 Second drarktristic
 Protection from liquids (water, etc.)

 Brief description
 Description
 Interf description
 Description

 6
 Dust-proof
 No ingress of dust allowed.
 7
 Protected against water penetration.
 Ingress of two merses of pressure and time.

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

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The Standard for Digimatic Calipers

ABSOLUTE[™]

ABS Digimatic Calipers

MeasurLink[®] **ENABLED** Data Management Software by Mitutoyo

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

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

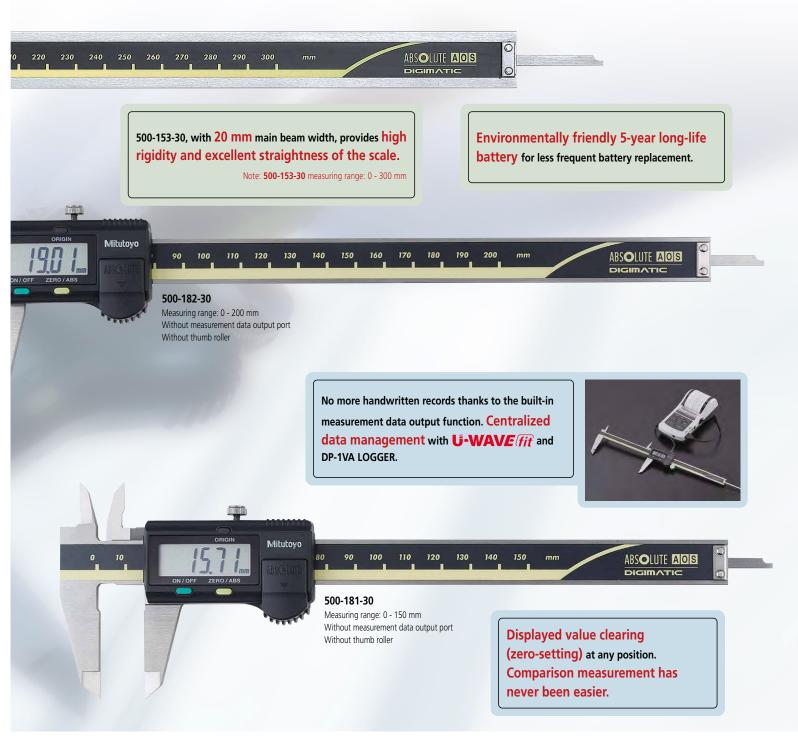


U-WAVE *fit*

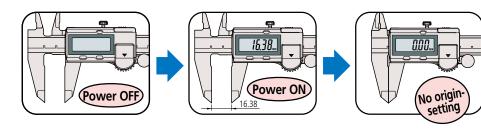
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ABS (Absolute) scale makes origin-setting at every power-on unnecessary, and the allowable slider speed is unlimited with this type of scale.



High quality guide surface finish for smooth slider movement



ABS Digimatic Caliper ex. 500-151-30

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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.

IP67 ABS Digimatic Coolant Proof Calipers Specifications

Metric

Common functions

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

Absolute measurement:

After power is turned ON, measurement can be started without zero-setting if origin-setting was previously performed. The Absolute origin position can be changed by the ORIGIN button.

ORIGIN button:

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

Low-voltage alert:

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	Thursda an Una	
		Емре	Smpe	output port	Thumb roller	Remarks
500-706-20		±0,02	±0,04		_	—
500-709-20				-	_	Depth bar: ø1,9 mm
500-702-20				-	✓	—
500-716-20				 ✓ 	_	—
500-712-20	0 - 150			✓	✓	-
500-719-20	-			✓	✓	Depth bar: ø1,9 mm
500-721-20				✓	✓	Carbide-tipped jaws for outside measurement
500-727-20]			✓	_	Carbide-tipped jaws for outside & inside measurement
500-723-20				✓	✓	Carbide-tipped jaws for outside & inside measurement
500-707-20		0 - 200		_	-	-
500-703-20	0 - 200			—	✓	—
500-717-20				✓	_	_
500-713-20				✓	✓	_
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	0 - 300	0 - 300 ±0,03	±0,05	_	_	_
500-704-20					✓	_
500-718-20			23,05	✓	-	—
500-714-20				✓	✓	

· Battery life: Approx. 5 years under

•Max. response speed: Unlimited

normal use

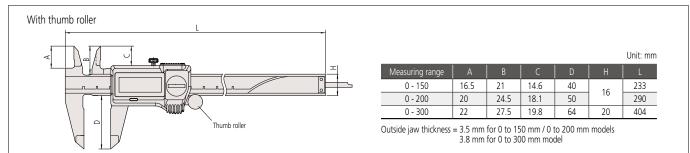
* Partial Surface Contact Error, EMPE and Shift Error, SMPE are terms (notations) used in ISO 13385-1:2019.

Inch/Metric

Order No.	Measuring range (in)	Maximum permissible error*		Measurement data	- 1 1 11	
		Емре	Smpe	output port	Thumb roller	Remarks
500-752-20			±0.002 in		✓	-
500-768-20				_	✓	Depth bar: Ø 1,9 mm
500-762-20				✓	✓	—
500-769-20	0.0			✓	✓	Depth bar: Ø 1,9 mm
500-731-20	0-6			_	\checkmark	Carbide-tipped jaws for outside measurement
500-733-20		±0.001 in		_	✓	Carbide-tipped jaws for outside/inside measurement
500-735-20				✓	✓	Carbide-tipped jaws for outside measurement
500-737-20				✓	✓	Carbide-tipped jaws for outside/inside measurement
500-753-20				_	✓	_
500-763-20				✓	✓	_
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				 ✓ 	✓	Carbide-tipped jaws for outside measurement
500-738-20				 ✓ 	✓	Carbide-tipped jaws for outside/inside measurement
500-754-20	- 0 - 12	0.12	±0.0025 in	-	✓	_
500-764-20		±0.0015 in		✓	✓	—

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ABS Digimatic Calipers Specifications

Metric

Order No.	Measuring range (mm)	Maximum permissible error (mm)*		Measurement data	Thumb roller	Remarks
		Емре	Smpe	output port	i numb roller	Remarks
500-180-30			±0,04		_	Depth bar ø1,9 mm
500-201-30	0 - 100			✓	—	Depth bar ø1,9 mm
500-150-30				✓ /	\checkmark	Depth bar ø1,9 mm
500-181-30		±0,02		_	-	_
500-184-30]			_	_	Depth bar ø1,9 mm
500-161-30				✓	—	-
500-203-30	1			✓	_	Depth bar ø1,9 mm
500-151-30	0.450			✓	✓	_
500-158-30	- 0 - 150 - -			✓	✓	Depth bar ø1,9 mm
500-233-30				✓	-	Carbide-tipped jaws for outside measurement
500-234-30				✓	-	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				 ✓ 	✓	_
500-235-30	0 - 200			✓	_	Carbide-tipped jaws for outside measurement
500-236-30				✓	_	Carbide-tipped jaws for outside/inside measurement
500-156-30				 ✓ 	✓	Carbide-tipped jaws for outside measurement
500-157-30				✓	✓	Carbide-tipped jaws for outside/inside measurement
500-205-30	0 - 300	.0.02	±0,05	\checkmark	—	—
500-153-30		0 - 300 ±0,03		 ✓ 	✓	_

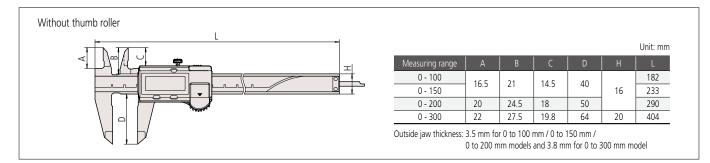
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Inch/Metric

Order No.	Measuring range (in)	Maximum permissible error*		Measurement data	Thumb roller	Remarks
		Емре	Smpe	output port		nettidi KS
500-195-30	0 - 4				✓	Depth bar: Ø 1,9 mm
500-170-30	1 0-4			 ✓ 	✓	Depth bar: Ø 1,9 mm
500-191-30			±0,002 in	-	-	_
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		-	✓	Carbide-tipped jaws for outside/inside measurement
500-174-30]			✓	✓	Carbide-tipped jaws for outside measurement
500-175-30				✓	✓	Carbide-tipped jaws for outside/inside measurement
500-197-30					\checkmark	_
500-204-30	0-8			✓	_	_
500-172-30				✓	✓	_
500-163-30				_	✓	Carbide-tipped jaws for outside measurement
500-164-30	1			_	✓	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			±0,0025 in	-	~	_
500-173-30	0 - 12	0 - 12 ±0,0015 in		✓	✓	-
500-165-30				_	_	Carbide-tipped jaws for outside measurement
500-166-30				_	_	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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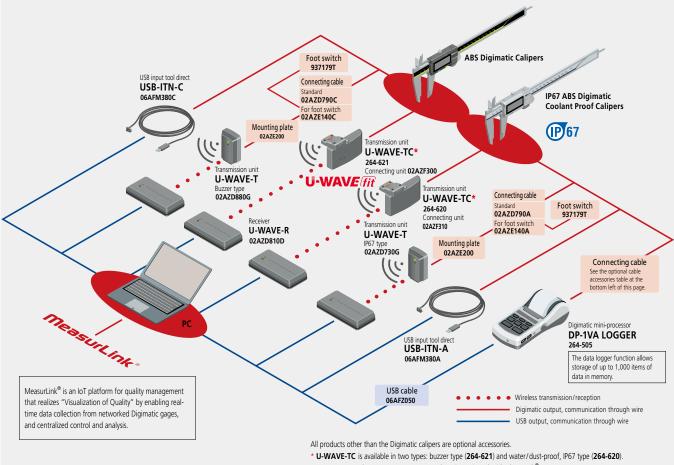
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Centralized data management



U-WAVE-TCB, the new U-WAVE-TC product, is equipped with <code>Bluetooth®</code>

Optional cable accessories

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

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

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