Micrometer

The origin of Mitutoyo's trustworthy brand of small tool instruments

Sheet Metal Micrometers SERIES 389, 118

MeasurLink* ENABLED Data Management Software by Mitutoyo

- Measures thickness of sheet metal.
- IP65 water/dust protection (series 389).
- Measuring faces: Carbide.



• Equipped with Ratchet Stop for constant





SPECIFICATIONS

Metric							
Order No.	(mm)	Resolution (mm)	Maximum permissible error JMPE (µm)	Throat depth (mm)	Measuring surfaces		
Digimatic (LCD)							
389-251-30					F-F		
389-261-30	0 - 25		±4	150	S-F		
389-271-30	0-23				S-S		
389-514		0.001	±5	300*	F-F		
389-252-30					r-r		
389-262-30	25 - 50		±4	150	S-F		
389-272-30					S-S		

Inch/Metric					
Order No.	Range (in)	Resolution	Maximum permissible error JMPE (in)	Throat depth (in)	Measuring surfaces
Digimatic (LCD)					
389-351-30]				F-F
389-361-30	0 - 1		±0.0002	6	S-F
389-371-30	0-1	0.00005 in/			S-S
389-714			±0.00025	12*	F-F
389-352-30		0.001 111111			r-r
389-362-30	1 - 2		±0.0002	6	S-F
389-372-30					S-S

I	Metric	ı						
	Order No.	Range (mm)	Graduation (mm)	Maximum permissible error JMPE (µm)	Throat depth (mm)	Measuring surfaces		
	Analog							
	118-101				100	F-F		
	118-102	0 - 25 25 - 50	0.01	±4	150	F-F		
	118-114					S-F		
	118-118					S-S		
	118-103			±5	300*	F-F		
	118-110			±4	150			
	118-126	23.30		14	130	S-S		

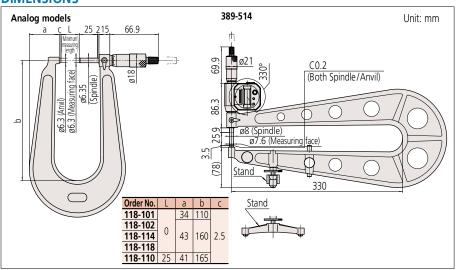
Order No.	Range (in)	Graduation (in)	Maximum permissible error JMPE (in)	Throat depth (in)	Measuring surfaces		
Analog							
118-129					F-F		
118-116	0-1	0.0001	±0.0002	6	S-F		
118-120	0-1				S-S		
118-107		0.001	±0.00025	12*	F-F		
118-112	1 - 2	0.001	±0.0002	6	F - F		

* Models with a 300 mm (12 in) throat are equipped with a stand for convenience of measurement in the horizontal orientation as standard. Note 1: For functional details of 389-251-30/389-252-30/389-351-30/389-352-30 refer to page B-8.

Note2: For functional details of 389-514/389-714 refer to page B-9.

Note3: In spherical-flat anvil type micrometers, the measuring face on the anvil side is spherical.

DIMENSIONS



MeasurLink' ENABLED

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).



These marks indicate that a product has successfully passed IP65-level testing, which is carried out by the independent German certification organization TUV Rheinland.

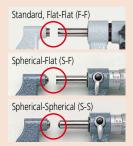


IP Codes (series 389)

Level 6: Dust-proof. No ingress of dust allowed. Level 5: Protected against water jets. Water projected in jets against the enclosure from any direction shall have no harmful effects.

Technical Data

- Flatness: 0.6 µm for models with 150 mm / 6 in throat 1 µm for models with 300 mm / 12 in throat
- Parallelism: 3 µm



Technical Data

- Battery for series 389 SR44 (1 pc.), 938882, 2 pcs.:389-514, 389-714 for initial operational checks (standard accessory)
- Battery life: Approx. 2.4 years under normal use (for series 389-2XX, 3XX) Approx. 1.8 years under normal use (for series 389-514, 714)
- Length standard: Electromagnetic rotary sensor (for series 389)
- Standard accessories: Reference bar, 1 pc. Standard accessories. Reference Day, 1 pc. (except for measuring range 0 to 25 mm (0 to 1 in) models)
 Spanner (200877), 1 pc. (for series 118-1XX)
 Spanner (301336), 1 pc. (for series 389-2XX, 3XX)
 Spanner (200154), 1 pc. (for series 118-103/107, 389-514/714)

Optional Accessories for Series 389

Connecting cables for series 389 (excluding 389-514 and 389-714)
 1 m: 05CZA662 2 m: 05CZA663

USB Input Tool Direct

USB-ITN-B (2 m): 06AFM380B

• U-WAVE-T dedicated connection cable for series 389 (excluding 389-514 and 389-714) 160 mm: 02AZD790B

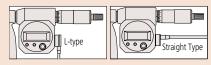
For foot switch: 02AZE140B

• SPC cables for series 389
(excluding 389-514 and 389-714)
• Connecting cables for 389-514, 389-714

• Recommended cables: L-Type (does not interfere with operating the thimble.)

1 m: **04AZB512** 2 m: **04AZB513**

• Straight type (may interfere with operating the thimble.) 1 m: **959149** 2 m: **959150**



Refer to page A-27 for detailed information about recommended cables.

Wireless Data Output* U-WAVEIII

- **U-WAVE-TM 264-622** (IP67 type) **264-623** (Buzzer type)
- U-WAVE-TMB Transmitter Mitutoyo Bluetooth® U-WAVE
- 264-626 (IP type) 264-627 (Buzzer type) Refer to page A-16 for details. Connecting unit for U-WAVE-TM/TMB **02AZF310** (IP67/buzzer type common specification) Refer to pages A-16 and A-18 for details.

* Only series 389 (except for 389-514 and 389-714) can be attached

