

Micrometer

Sheet Metal Micrometers SERIES 389

- The U-shaped micrometer is ideal for measuring the thickness of sheet metal at a considerable distance from the edge.
- IP65 water/dust protection (except for **389-514** and **389-714**).
- Measuring faces: Carbide tipped
- Profile of measuring faces: Flat-Flat, Spherical-Flat and Spherical-Spherical.
- Equipped with Ratchet Stop for constant measuring force.



389-251-30



SPECIFICATIONS

Metric							
Code No.	Range (mm)	Resolution (mm)	Maximum permissible error J_{MPE} (μm)	Flatness (μm)	Parallelism (μm)	Throat depth (mm)	Measuring surfaces
Digimatic (LCD)							
389-251-30	0 - 25	0.001	±4	0.6	3	150	F-F
389-261-30							S-F
389-271-30							S-S
389-514	25 - 50	0.001	±5	1	3	300*	F-F
389-252-30							S-F
389-262-30							S-S
389-272-30							
Inch / Metric							
Code No.	Range (in)	Resolution	Maximum permissible error J_{MPE} (in)	Flatness (in)	Parallelism (in)	Throat depth (in)	Measuring surfaces
Digimatic (LCD)							
389-351-30	0 - 1	0.00005 in / 0.001 mm	±0.0002	0.000024	0.00012	6	F-F
389-361-30							S-F
389-371-30							S-S
389-714	1 - 2	0.00005 in / 0.001 mm	±0.00025	0.00004	0.00012	12*	F-F
389-352-30							S-F
389-362-30							S-S
389-372-30							

- Power source for **389-2XX, 3XX**: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
- Power source for **389-514, 714**: SR44 battery (2 pcs.), **938882** included as standard (for operational checks)
- Battery life: Approx. 2.4 years under normal use (for **389-2XX, 3XX**), Approx. 1.8 years under normal use (for **389-514, 714**)
- Position detection method: Electromagnetic rotary sensor
- Standard accessories: Setting standard, 1 pc. (except for measuring range 0 to 25 mm (0 to 1 in) models)
- Spanner (**301336**), 1 pc. (for **389-2XX, 3XX**)
- Spanner (**200154**), 1 pc. (for **389-514, 714**)

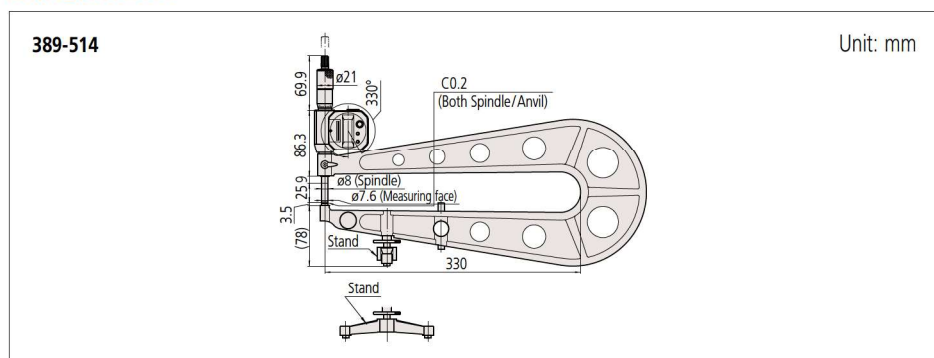
* Models with a 300 mm (12 in) throat are equipped with a stand for convenience of measurement in the horizontal orientation as standard.

Note 1: For functional details of **389-251-30/389-252-30/389-351-30/389-352-30** refer to page 02-7.

Note 2: For functional details of **389-514/389-714** refer to page 02-9.

Note 3: In spherical-flat anvil type micrometers, the measuring face on the anvil side is spherical.

DIMENSIONS



MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

U-WAVE^{fit}

IP65

TÜV Rheinland
CERTIFIED

Dust- and
Water-
Protected
www.mt.com
ID 000040191

Applicable models: **series 389**
(excluding **389-514** and **389-714**)

Optional Accessories

Code No.	Type	Description
264-020	—	USB Input Tool Series USB Keyboard Signal Conversion Type IT-020U
05CZA662	B	Connection cable (1 m) : for series 389
05CZA663	B	Connection cable (2 m) : for series 389
04AZB512	CR	Connection cable (1 m) : for 389-514
04AZB513	CR	Connection cable (2 m) : for 389-514
959149	C	Connection cable (1 m) : for 389-514
959150	C	Connection cable (2 m) : for 389-514
06AFM380B	B	USB Input Tool Direct (2 m)
02AZD730G	IP67	U-WAVE-T
02AZD880G	Buzzer	U-WAVE-T
02AZE200	—	U-WAVE-T mounting bracket
02AZD790B	B	Connection cable for U-WAVE-T (160 mm): for series 389
02AZE140B	B	Connection cable for U-WAVE-T : for series 389 For foot switch
264-622	IP67	U-WAVE-TM*
264-623	Buzzer	U-WAVE-TM*
264-626	IP67	U-WAVE-TMB
264-627	Buzzer	U-WAVE-TMB
02AZF310	IP67	Connecting unit for U-WAVE-TM/TMB*

* Cannot be used with **389-514**.

Standard, Flat-Flat (F-F)



Spherical-Flat (S-F)



Spherical-Spherical (S-S)



Sheet Metal Micrometers SERIES 118

- The U-shaped micrometer is ideal for measuring the thickness of sheet metal at a considerable distance from the edge.
- Measuring faces: Carbide tipped
- Profile of measuring faces: Flat-Flat, Spherical-Flat and Spherical-Spherical.
- Equipped with Ratchet Stop for constant measuring force.



118-102

SPECIFICATIONS

Metric								
Code No.	Range (mm)	Graduation (mm)	Maximum permissible error J_{MPE} (μm)	Flatness (μm)	Parallelism (μm)	Throat depth (mm)	Measuring surfaces	
Analog								
118-101	0 - 25	0.01	±4	0.6	3	100	F-F	
118-102						150	S-F	
118-114			300*	S-S				
118-103				F-F				
118-110	25 - 50		±4	0.6	150	S-S		
118-126								
Inch								
Code No.	Range (in)	Graduation (in)	Maximum permissible error J_{MPE} (in)	Flatness (in)	Parallelism (in)	Throat depth (in)	Measuring surfaces	
Analog								
118-129	0 - 1	0.0001	±0.0002	0.000024	0.00012	6	F-F	
118-116						S-F		
118-120		0.001	±0.00025	0.00004		12*	S-S	
118-107						F-F		
118-112	1 - 2		±0.0002	0.000024		6		

- Standard accessories: Setting standard, 1 pc. (except for measuring range 0 to 25 mm (0 to 1 in) models)
 - Spanner (200877), 1 pc. (for 118-1XX)
 - Spanner (200154), 1 pc. (for 118-103/107)
 - * Models with a 300 mm (12 in) throat are equipped with a stand for convenience of measurement in the horizontal orientation as standard.
- Note: In spherical-flat anvil type micrometers, the measuring face on the anvil side is spherical.

DIMENSIONS

Analog models				Unit: mm			
Code No.	L	a	b	c			
118-101	0	34	110	2.5			
118-102		43	160				
118-114							
118-118							
118-110	25	41	165				

Micrometer

Sheet Metal Micrometer
SERIES 119

- Large diameter dial model enables easy and quick measurement of sheet metal thickness.
- Adjustable anvil.
- Measuring faces: Carbide tipped
- Equipped with Ratchet Stop for constant measuring force.



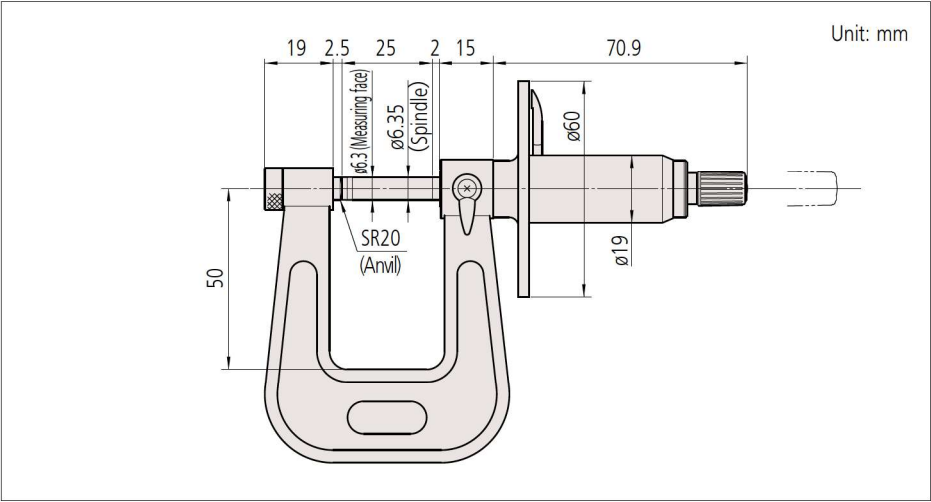
119-202

SPECIFICATIONS

Metric				
Code No.	Range (mm)	Graduation (mm)	Maximum permissible error J _{MPE} (μm)	Throat depth (mm)
119-202	0 - 25	0.01	±4	50

• Standard Accessories: Spanner (200168), 1 pc.

DIMENSIONS



Measurement example

