

Sheet Metal Micrometers

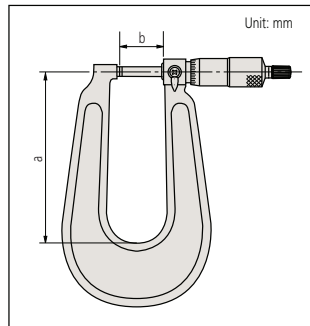
SERIES 389, 189, 119, 118

FEATURES

- Measures thickness of sheet metal, and rubber parts.
- With Ratchet Stop for constant force.
- With a standard except for 25mm model.
- IP65 water/dust protection (389 series*).
*Except for 389-513
- With digit counter (series 189).



DIMENSION



SPECIFICATIONS

Metric		Digital model	
Range	Order No.	Accuracy	a/b
0 - 25mm	389-251	±4µm	160/27.5mm
	389-261 ^{SF}	±4µm	160/27.5mm
	389-271 ^{S-S}	±4µm	160/27.5mm
	389-513	±5µm	330/35mm
25 - 50mm	389-252	±4µm	165/27.5mm
	389-262 ^{SF}	±4µm	165/27.5mm
	389-272 ^{S-S}	±4µm	165/27.5mm

S-F: Spherical anvil and flat spindle
S-S: Spherical anvil and spherical spindle

Inch/Metric		Digital model	
Range	Order No.	Accuracy	a/b
0 - 1"	389-351	±.0002"	160/27.5mm
	389-361 ^{SF}	±.0002"	160/27.5mm
	389-371 ^{S-S}	±.0002"	160/27.5mm
	389-713	±.00025"	330/35mm
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1" - 2"	389-352	±.0002"	165/27.5mm
	389-362 ^{SF}	±.0002"	165/27.5mm
	389-372 ^{S-S}	±.0002"	165/27.5mm

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Metric		Mechanical counter model	
Range	Order No.	Accuracy	a/b
0 - 25mm	189-102	±4µm	160/27.5mm

Inch		Mechanical counter model	
Range	Order No.	Accuracy	a/b
0 - 1"	189-129*	±.0002"	160/27.5mm

*.0001" reading is obtained with vernier.

Metric		Dial reading model	
Range	Order No.	Accuracy	a/b
0 - 25mm	118-101	±4µm	110/27.5mm
	118-102	±4µm	160/27.5mm
	118-114 ^{SF}	±4µm	160/27.5mm
	118-118 ^{S-S}	±4µm	160/27.5mm
	118-103	±5µm	330/35mm
25 - 50mm	118-110	±4µm	165/27.5mm

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Inch		Dial reading model	
Range	Order No.	Accuracy	a/b
0 - 1"	118-129*	±.0002"	160/27.5mm
	118-116 ^{SF} *	±.0002"	160/27.5mm
	118-120 ^{S-S} *	±.0002"	160/27.5mm
	118-107	±.00025"	330/35mm
1" - 2"	118-112	±.0002"	165/27.5mm

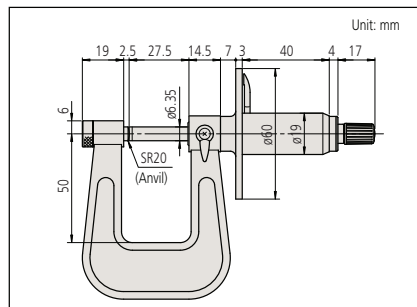
S-F: Spherical anvil and flat spindle
S-S: Spherical anvil and spherical spindle
*.0001" reading is obtained with vernier.

Metric		Dial reading model	
Range	Order No.	Accuracy	Throat
0 - 25mm	119-202 ^{SF}	±4µm	50mm

S-F: Spherical anvil and flat spindle



DIMENSION



(Refer to the page 9 for details.)

Anvil-Spindle Combinations



Standard, Flat-Flat



Spherical-Flat (S-F)



Spherical-Spherical (S-S)

Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error for digital models)
Resolution*: 0.001mm or .00005"/0.001mm
Graduation*: 0.01mm, .001" or .0001"
Flatness: 0.6µm for models with 150mm throat
1µm for models with 300mm throat
Parallelism: 3µm
Measuring faces: Carbide tipped
Display*: LCD
Battery*: SR44 [1 pc. (2 pcs.: 389-513 and 389-713)], 938882

Battery life*: Approx. 1.2 years under normal use
(1.8 years: 389-513 and 389-713)

Dust/Water protection level*: IP65
*Digital models **Analog models

Function of Digital Model

Origin-set (Preset*), Zero-setting, Data hold, Power ON/OFF*,
Data output, inch/mm conversion (inch/mm models)
Preset zero-setting Power ON/OFF Data hold Data output
inch/mm conversion (inch/mm models) *Only for 389-513,
389-713
Alarm: Low voltage, Counting value composition error

Optional Accessory for Digital Model

- 05CZA662: SPC cable with data switch (1m)
- 05CZA663: SPC cable with data switch (2m)
- 937387: SPC cable for 389-513/389-713 (1m)
- 965013: SPC cable for 389-513/389-713 (2m)

The 119 series is provided with a dial for making easy and quick reading.

