

Sheet Metal Micrometers

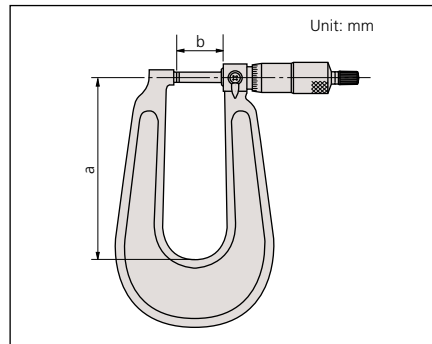
SERIES 389, 119, 118

FEATURES

- Measures thickness of sheet metal, paper, plastic and rubber parts.
- With ratchet stop for constant force.
- With a standard bar except for 0 - 1" / 0 - 25mm model.
- IP65 water/dust protection (Series 389*).
- *Except for **389-514** / **389-714**.
- Supplied in fitted plastic case.
- Non-slip grip finish (digital models).



DIMENSIONS



SPECIFICATIONS

Metric		Digital model		
Range	Resolution	Order No.	Accuracy	a/b
0 - 25mm	0.001mm	389-251-30	±4μm	160/27.5mm
0 - 25mm	0.001mm	389-261-30^{S-F}	±4μm	160/27.5mm
0 - 25mm	0.001mm	389-271-30^{S-S}	±4μm	160/27.5mm
0 - 25mm	0.001mm	389-514	±5μm	330/35mm
25 - 50mm	0.001mm	389-252-30	±4μm	165/27.5mm
25 - 50mm	0.001mm	389-262-30^{S-F}	±4μm	165/27.5mm
25 - 50mm	0.001mm	389-272-30^{S-S}	±4μm	165/27.5mm

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

Metric		Dial reading model		
Range	Graduation	Order No.	Accuracy	Throat
0 - 25mm	0.01mm	118-101	±4μm	110/27.5mm
0 - 25mm	0.01mm	118-102	±4μm	160/27.5mm
0 - 25mm	0.01mm	118-114^{S-F}	±4μm	160/27.5mm
0 - 25mm	0.01mm	118-118^{S-S}	±4μm	160/27.5mm
0 - 25mm	0.01mm	118-103	±5μm	330/35mm
25 - 50mm	0.01mm	118-110	±4μm	165/27.5mm

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

Metric		Dial reading model		
Range	Graduation	Order No.	Accuracy	Throat
0 - 25mm	0.01mm	119-202^{S-F}	±4μm	50mm

S-F: Spherical anvil and flat spindle



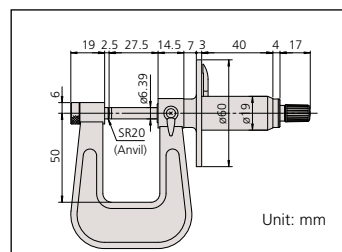
Inch/Metric		Digital model		
Range	Resolution	Order No.	Accuracy	a/b
0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	389-351-30	±.0002"	6.3"/1.08"
		389-361-30^{S-F}	±.0002"	6.3"/1.08"
		389-371-30^{S-S}	±.0002"	6.3"/1.08"
		389-714	±.00025"	13"/1.38"
1 - 2" / 25.4 - 50.8mm	.00005" / 0.001mm	389-352-30	±.0002"	6.5"/1.08"
		389-362-30^{S-F}	±.0002"	6.5"/1.08"
		389-372-30^{S-S}	±.0002"	6.5"/1.08"

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

Inch		Dial reading model		
Range	Graduation	Order No.	Accuracy	a/b
0 - 1"	.0001"	118-129	±.0002"	6.3"/1.08"
		118-116^{S-F}	±.0002"	6.3"/1.08"
		118-120^{S-S}	±.0002"	6.3"/1.08"
	.001"	118-107	±.00025"	13"/1.38"
1" - 2"	.001"	118-112	±.0002"	6.5"/1.08"

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

DIMENSIONS AND MASS



Technical Data

Accuracy: Refer to the list of specifications
Resolution*: .00005"/0.001mm or 0.001mm
Graduation**: 0.01mm, .001" or .0001"
Flatness: .000024" / 0.6μm for models with 6" / 150mm throat
.00004" / 1μm for models with 12" / 300mm throat
Parallelism: .00012" / 3μm
Measuring faces: Carbide tipped
Display*: LCD
Battery*: SR44 [1 pc. (2 pcs.: **389-514** and **389-714**)], **938882**
Battery life*: Approx. 2.4 years under normal use (1.8 years: **389-514** and **389-714**)
Dust/Water protection level*: IP65
*Digital models **Analog models

Function of Digital Model

Origin-set, Zero-setting, Data hold, Data output, inch/mm conversion (on inch/metric models only)
Function lock
Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

05CZA662: SPC cable with data switch (40" / 1m)
05CZA663: SPC cable with data switch (80" / 2m)
04AZB512: SPC cable for **389-514/389-714** (40" / 1m)
04AZB513: SPC cable for **389-514/389-714** (80" / 2m)

Anvil-Spindle Combinations



Standard, Flat-Flat



Spherical-Flat (S-F)



Spherical-Spherical (S-S)

The Series 119 is provided with a dial for making easy and quick readings.

