

Micrometer

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

Outside Micrometers SERIES 102

- Heat-insulated frame.
- Cut-away frame (behind anvil) for measuring in hard-to-reach places.
- A ratchet stop or a friction thimble for a constant measuring force.
- Measuring faces: Carbide.



Ratchet stop
102-301



An inspection certificate is supplied as standard.
Refer to page U-11 for details.

Common specifications:
Measuring force: 5-10 N
Standard accessories: Reference bar, 1 pc.
(except for measuring range 0-25 mm models)
Spanner (**301336**), 1 pc.
(for measuring range 0-25 mm/25-50 mm models)
Spanner (**200877**), 1 pc.
(for measuring range 50-75 mm/75-100 mm models)

Ratchet stop type



Friction thimble type



SPECIFICATIONS

Metric

Order No.	Range (mm)	Graduation (mm)	Maximum permissible error JMPE* (μm)	Flatness (μm)	Parallelism (μm)	Constant-force device
102-301	0 - 25	0.01	±2	0.6	2	Ratchet stop
102-302	25 - 50					

* Maximum permissible error of the indication measured by contacting the full measuring face with the object to be measured.
JMPE is a term specified by JIS B 7502: 2016 which has been prepared based on ISO 3611: 2010 with some modifications of the technical contents.

The measurement method has not been changed from JIS B 7502: 1994. For details refer to B-74.

Metric

Order No.	Range (mm)	Graduation (mm)	Accuracy (μm)	Flatness (μm)	Parallelism (μm)	Constant-force device
102-311	0 - 25	0.001	±1	0.3	1	Ratchet stop
102-313						friction thimble
102-312	25 - 50	0.01	±2	0.6	2	Ratchet stop
102-303	50 - 75					
102-304	75 - 100		±3		3	

Metric

Micrometer set

Order No.	Range (mm)	Models included
102-911-40	0 - 100 (Four micrometers per set)	<ul style="list-style-type: none"> • 102-301 • 102-302 • 102-303 • 102-304 • 3 micrometer standards

DIMENSIONS

