# **Micrometer**

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

## **Outside Micrometers SERIES 102**

• Heat-insulated frame.

В

- Cut-away frame (behind anvil) for measuring in hard-to-reach places.
- Equipped with Ratchet Stop for constant measuring force.
- Measuring faces: Carbide.
- In addition to standard specification, a non-rotating spindle type tooth thickness micrometer (refer to page B-33 for details) is also available.



# **SPECIFICATIONS**

IVI							
	Order No.	Range (mm)	Graduation (mm)	Maximum permissible error J <sub>MPE</sub> (µm)	Flatness (µm)	Parallelism (µm)	Constant-force device
	102-301	0 - 25	0.01	±2	0.6	2	Ratchet stop
	102-302	25 - 50					
	102-303	50 - 75					
	102-304	75 - 100		±3		3	

#### Metric

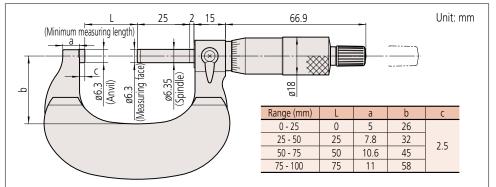
Order No.	Range (mm)	Graduation (mm)	Maximum permissible error J <sub>MPE</sub> (μm)	Flatness (µm)	Parallelism (µm)	Constant-force device
102-311	0 - 25 25 - 50	0.001	±1	0.3	1	Ratchet stop
102-313						Friction thimble
102-312						Ratchet stop

#### Inch

Order No.	Range (in)	Graduation (in)	Maximum permissible error JMPE (in)	Flatness (in)	Parallelism (in)	Constant-force device
102-327-10	0 - 1 1 - 2 2 - 3	0.0001	±0.0001	0.000024	0.00008	Ratchet stop
102-329-10						Friction thimble
102-328-10						Ratchet stop
102-330-10						Friction thimble
102-331-10						Ratchet stop
102-332-10	3 - 4		±0.00015		0.00012	Ratchet stop

Metric	Micrometer set	
Order No.	Range (mm)	Models included
102-911-40	0 - 100 (Four micrometers per set)	<ul> <li>102-301</li> <li>102-302</li> <li>102-303</li> <li>102-304</li> <li>3 micrometer standards</li> </ul>

### DIMENSIONS







An inspection certificate is supplied as standard. Refer to page U-9 for details.

#### **Common specifications**

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









