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







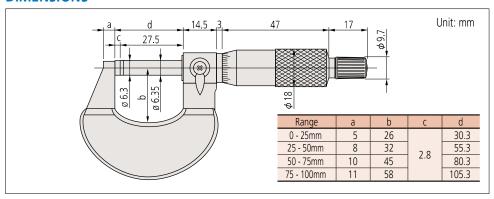


SPECIFICATIONS

Metric	ı						
Order No.	Range	Graduation	Accuracy	Flatness	Parallelism	Constant-force device	
102-301	0 - 25mm	0.01mm	±2µm	0.6µm	2µm	Ratchet stop	
102-311		0.001mm	±1µm	0.3µm	1µm	Natchet Stop	
102-313						friction thimble	
102-302	25 - 50mm	0.01mm	±2µm	0.6µm	2µm	Ratchet stop	
102-312		0.001mm	±1µm	0.3µm	1µm		
102-303	50 - 75mm	0.01mm	±2µm	— 0.6µm	2µm	natchet stop	
102-304	75 - 100mm		±3µm		3µm		

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

DIMENSIONS





An inspection certificate is supplied as standard. Refer to page X for details.

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



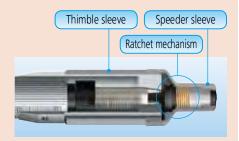




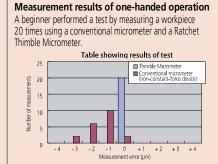
Technical Data

0.6µm/.000024" Flatness: Parallelism: 2µm/.00008' Measuring force: 5-10N Standard accessories: Reference bar, 1 pc (except for measuring range 0-25mm (0-1") models) Spanner (301336), 1 pc

Internal structure



Greatly improved accuracy and repeatability









Ratchet Thimble Micrometer SERIES 102 — Outside Micrometers

- More accurate in one-handed operation: inexperienced operators measure significantly more accurately with the new micrometer.
- Ratchet function works both from the thimble and the speeder.



• Rotating the thimble/ speeder when the workpiece is between the anvil and spindle causes the ratchet mechanism to operate and apply a constant



- measuring force to the workpiece. • Clearly audible ratchet operation for
- reassurance that measurement is being performed at constant, preset force.
- The speeder is always available for quick rotation of spindle.
- A simple mechanism, which requires neither parts maintenance nor special technique, is employed in the constant-force device.
- Heat-insulated frame.
- Measuring faces: Carbide



Metric				
Order No.	Range	Graduation	Accuracy	Mass
102-701	0 - 25mm	0.01mm	±2μm	180g
102-707		0.001mm		
102-702	25 - 50mm	0.01mm		270g
102-708	25 - 50111111	0.001mm		

Inch	ı			
Order No.	Range	Graduation	Accuracy	Mass
102-717	0 -1"	.0001"	±.0001"	180g
102-718	1" - 2"	.0001	±.0001	270g

DIMENSIONS

