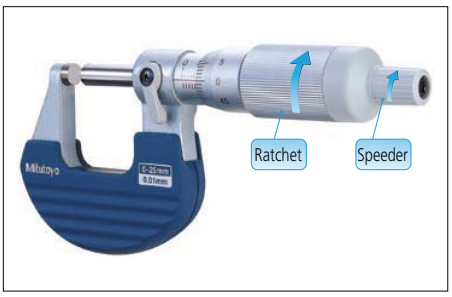
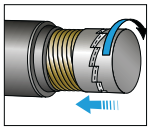
Micrometers

SERIES 102 – Ratchet Thimble Micrometer

- More accurate in one-handed operation: inexperienced operators measure significantly more accurately with this micrometer.
- Heat-insulated frame.
- 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.
- Measuring faces: carbide.

102-701

Specifications

Metric

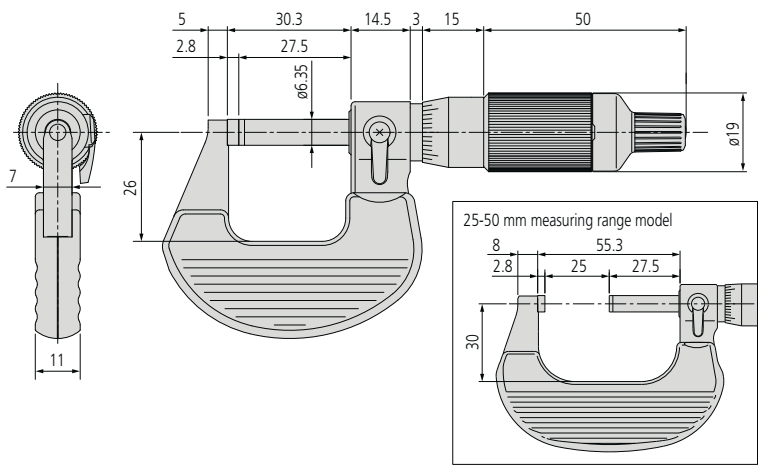
Code No.	Range	Graduation	Accuracy	Mass	
102-701	0 - 25 mm	0.01 mm	±2 µm	180 g	
102-707		0.001 mm			
102-702	25 - 50 mm	0.01 mm		270 g	
102-708		0.001 mm			

Inch

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

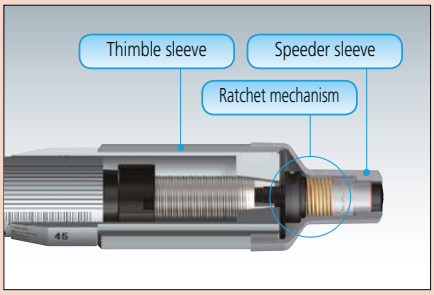
Dimensions

Unit: mm

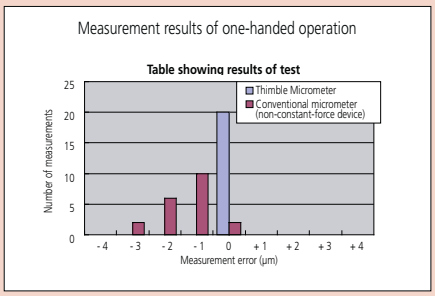


Technical Data

Flatness:	0.6 µm/.000024"
Parallelism:	2 µm/.00008"
Measuring force:	5-10 N



Internal structure.



Greatly improved accuracy and repeatability

A beginner performed a test by measuring a workpiece 20 times using a conventional micrometer and a Ratchet Thimble Micrometer.