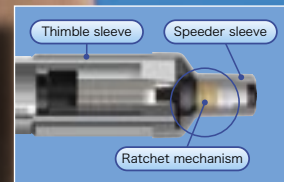
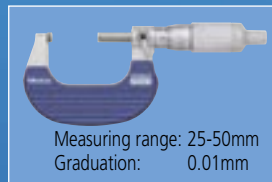


New Outside Micrometer RATCHET THIMBLE MICROMETER

Catalog No. E4273-101/102



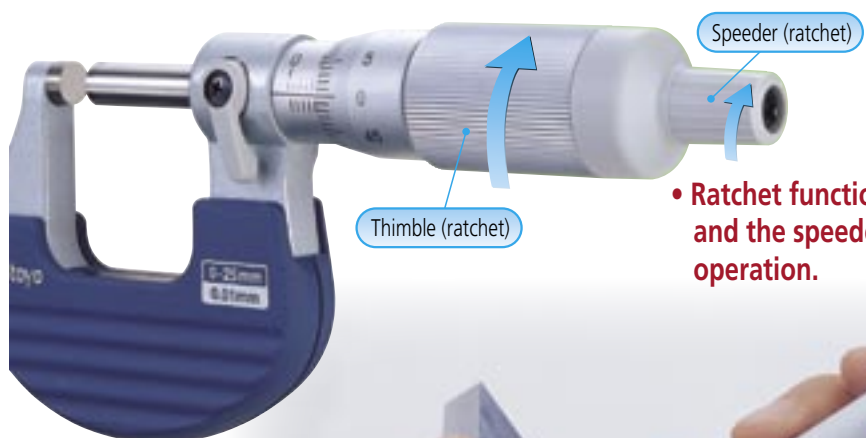
A new generation of micrometer.
The Ratchet Thimble outside micrometer employs a new constant measuring force device* that ensures consistent and reliable measurements – even for users inexperienced in operating a micrometer with only one hand.

* Patented: USA, China, Germany, UK, France
Patent pending: Japan

Mitutoyo

Ratchet Thimble Micrometer One-handed

New Style Ratchet Thimble with new mechanism



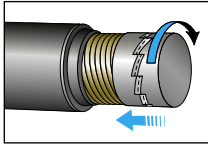
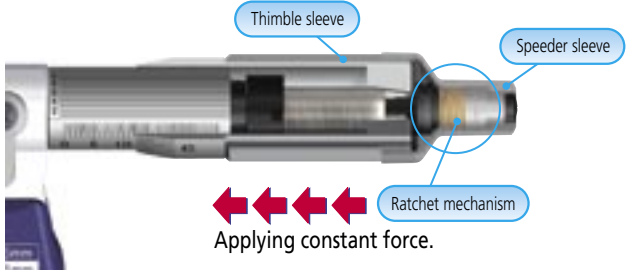
• Ratchet function works both from the thimble and the speeder, allowing easy one-handed operation.



- Speeder is always available for quick rotation of spindle.
- Clearly audible ratchet operation for reassurance that measurement is being performed at constant, preset force.

• New, smoother action Ratchet Mechanism.

* Patented: USA, China, Germany, UK, France
Patent pending: Japan

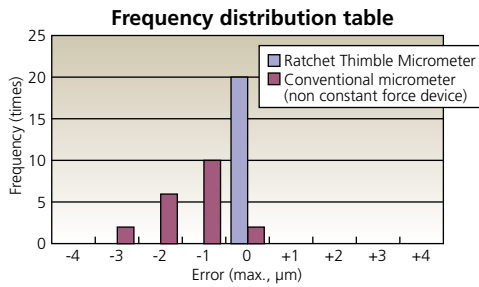


Rotating the thimble/speeder sleeve when the workpiece is between the anvil and spindle causes the ratchet mechanism to operate and apply a constant measuring force to the spindle.

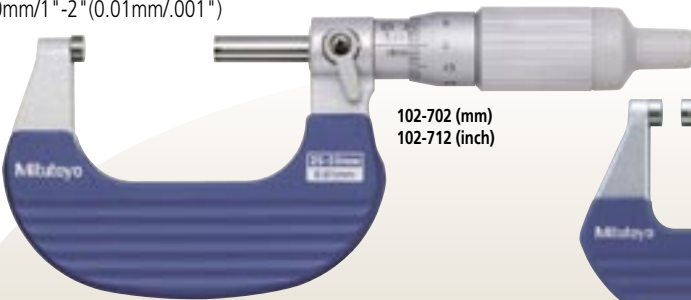


Operation

- More accurate in one-handed operation: test results show inexperienced users measure significantly more accurately with the new micrometer.

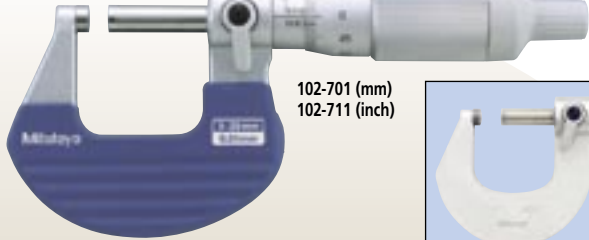


25-50mm/1"-2" (0.01mm/.001")

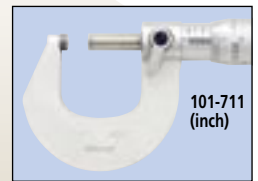


102-702 (mm)
102-712 (inch)

0-25mm/0"-1" (0.01mm/.001")

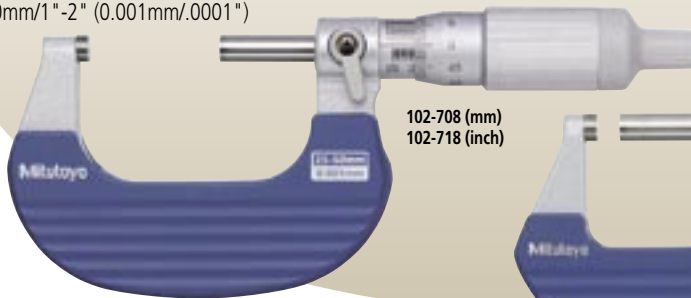


102-701 (mm)
102-711 (inch)



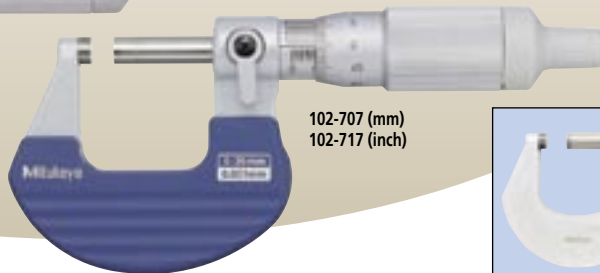
101-711 (inch)

25-50mm/1"-2" (0.001mm/.0001")

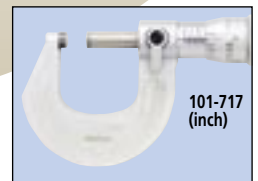


102-708 (mm)
102-718 (inch)

0-25mm/0"-1" (0.001mm/.0001")



102-707 (mm)
102-717 (inch)



101-717 (inch)

Specifications

Order No.	102-701	102-707	102-711	102-717	101-711	101-717	102-702	102-708	102-712	102-718
Measuring range	0-25mm		0-1"				25-50mm		1-2"	
Graduation	0.01mm	0.001mm	.001"	.0001"	.001"	.0001"	0.01mm	0.001mm	.001"	.0001"
Instrument error (20°C)	$\pm 2\mu\text{m}$		$\pm .0001"$				$\pm 2\mu\text{m}$		$\pm .0001"$	
Flatness of measuring faces	0.6 μm									
Parallelism of measuring faces	2 μm									
Mass	180g						270g			
Measuring force	5N-10N									

Color speeder sleeve (optional)



Black	04GAA899	Green	04GAA902
Red	04GAA900	Blue	04GAA903
Yellow	04GAA901	Gray	04AAB208

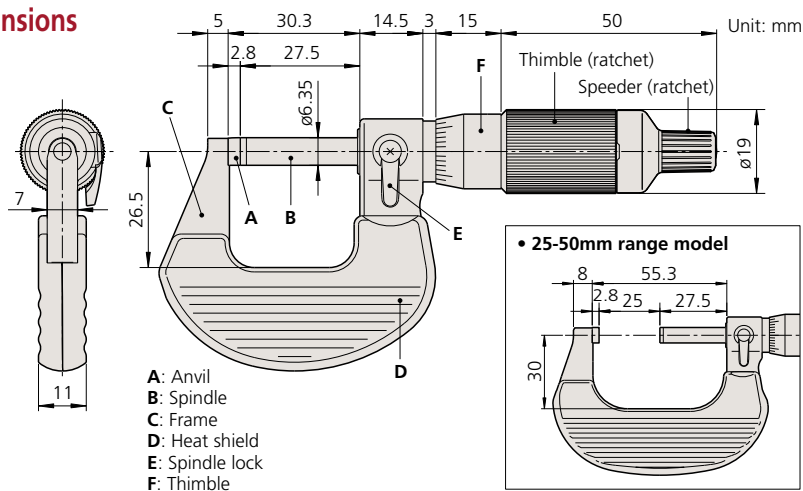


Inspection certificate

- Every ratchet thimble micrometer is provided with a Certificate of Inspection* that shows the result of the quality control inspection conducted at time of shipping.

*This is not a calibration certificate.

Dimensions



- Coordinate Measuring Machines
- Vision Measuring Systems
- Form Measurement
- Optical Measuring
- Sensor Systems
- Test Equipment and Seismometer
- Digital Scale and DRO Systems
- Small Tool Instruments and Data Management

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