New Outside Micrometer
RATCHET THIMBLE MICROMETER

Catalog No. E4273-101/102



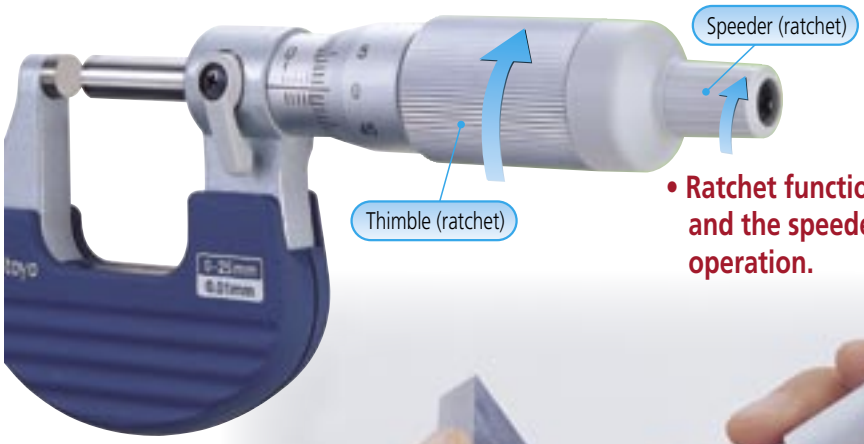
A new generation of micrometer.
The Ratchet Thimble outside micrometer employs a new constant measuring force device* that ensures consistent and reliable measurements – even for users inexperienced in operating a micrometer with only one hand.

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

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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.



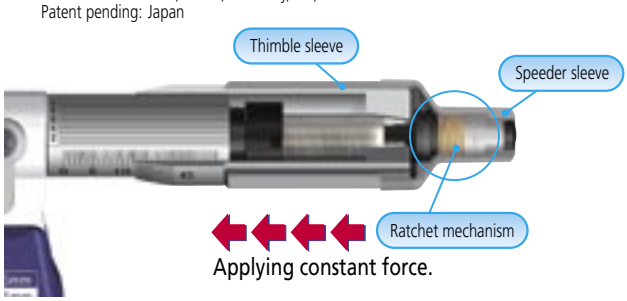
- Speeder is always available for quick rotation of spindle.
- Clearly audible ratchet operation for reassurance that measurement is being performed at constant, preset force.



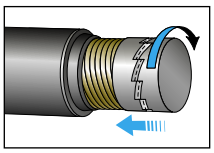


- New, smoother action Ratchet Mechanism.

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



Applying constant force.



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.

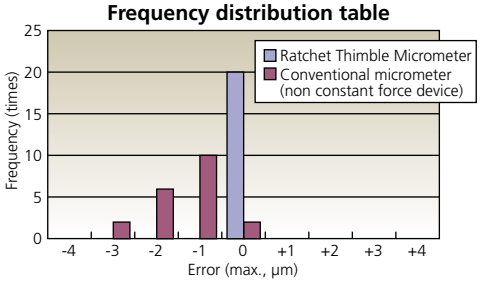
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Operation

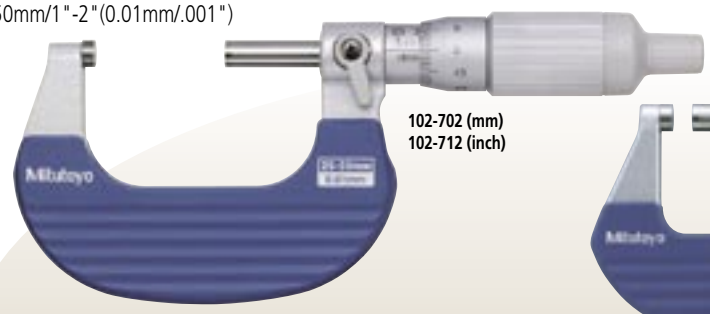


- **More accurate in one-handed operation: test results show inexperienced users measure significantly more accurately with the new micrometer.**

Frequency distribution table

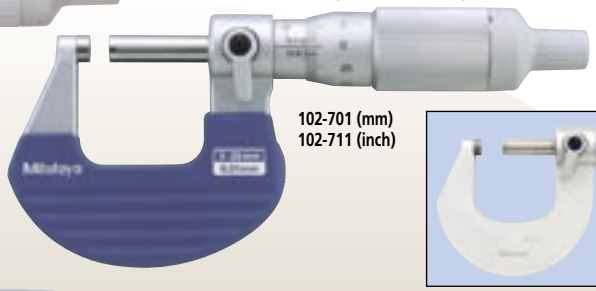


25-50mm/1"-2"(0.01mm/.001")



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

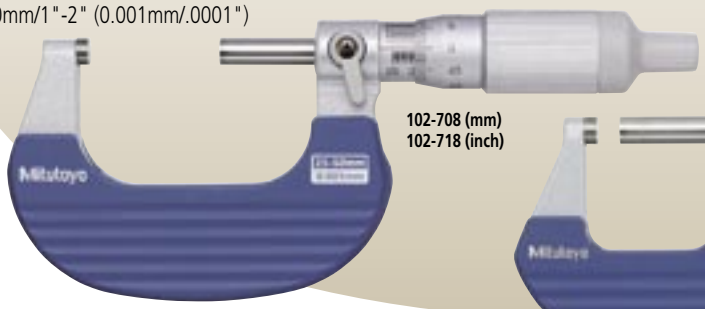
0-25mm/0"-1"(0.01mm/.001")



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

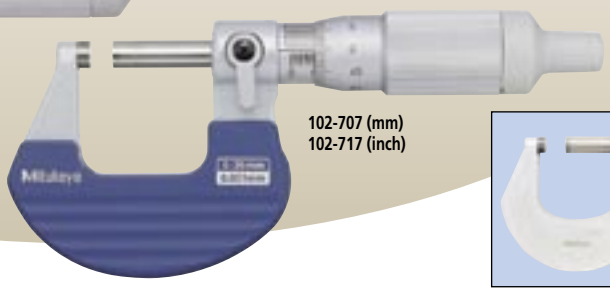
101-711 (inch)

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

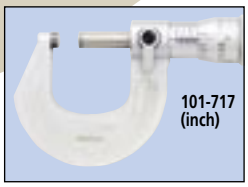


102-708 (mm)
102-718 (inch)

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)	±2µm		±.0001"				±2µm		±.0001"	
Flatness of measuring faces	0.6µm									
Parallelism of measuring faces	2µm									
Mass	180g						270g			
Measuring force	5N-10N									

Color speeder sleeve (optional)



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



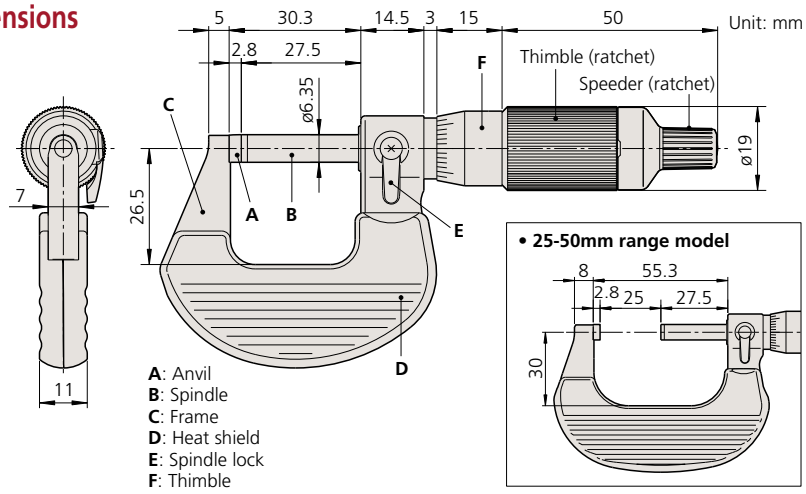


Inspection ertificate

- 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

Mitutoyo Corporation
20-1, Sakado 1-Chome,
Takatsu-ku, Kawasaki-shi,
Kanagawa 213-8533, Japan
T +81 (0) 44 813-8230
F +81 (0) 44 813-8231
http://www.mitutoyo.co.jp

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