



Ratchet Thimble Micrometer

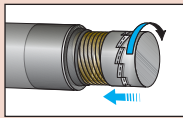
SERIES 101, 102 — New smoother action Ratchet Thimble

FEATURES

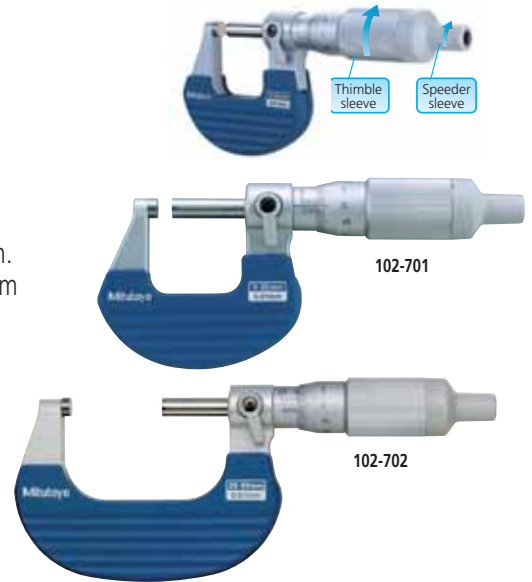
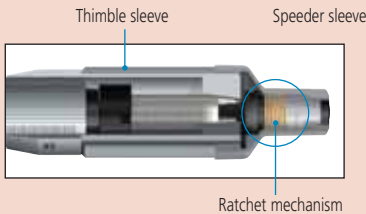
- Ratchet function works both from the thimble and the speeder, allowing easy one-handed operation.
- Clearly audible ratchet operation for reassurance that measurement is being performed at constant, preset force.
- Provided with a Certificate of Inspection.
- With a standard bar except for 0 - 25mm and 0 - 1" models.
- Supplied in fitted plastic case.

Technical Data

Graduation: 0.01mm, 0.001mm, .001" or .0001"
 Flatness: 0.6µm / .000024"
 Parallelism: 2µm / .00008"
 Measuring faces: Carbide tipped
 Measuring force: 5-10N



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



102-9085

Set includes a 102-717 and 102-718. Also included in the set are two each of the red, yellow and blue color speeder sleeves.

SPECIFICATIONS

Metric			
Range	Graduation	Order No.	Accuracy
0 - 25mm	0.01mm	102-701	±2µm
0 - 25mm	0.001mm	102-707*	±2µm
25 - 50mm	0.01mm	102-702	±2µm
25 - 50mm	0.001mm	102-708*	±2µm

*0.001mm reading is obtained with vernier.

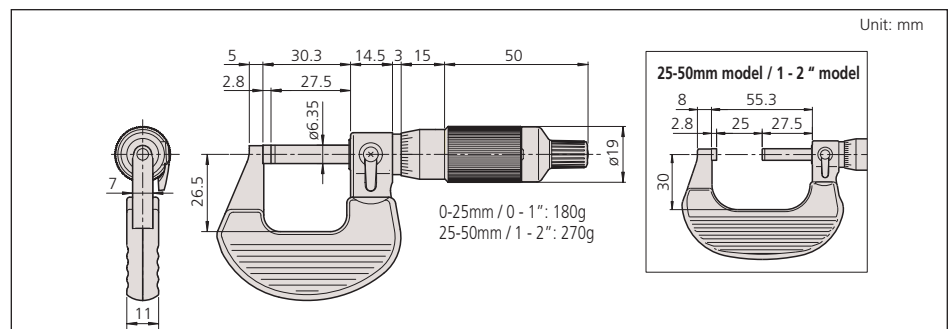
Inch			
Range	Graduation	Order No.	Accuracy
0 - 1"	.001"	101-711	±.0001"
	.0001"	101-717*	±.0001"
	.001"	102-711	±.0001"
	.0001"	102-717*	±.0001"
1 - 2"	.001"	102-712	±.0001"
	.0001"	102-718*	±.0001"

*.0001" reading is obtained with vernier.

Inch Micrometer set .0001" Graduation model

Range	Order No.	Included in set
0 - 2" 2 pcs. set	102-9085	102-717, 102-718 6 pcs. of speeder sleeves

DIMENSIONS AND MASS



Outside Micrometers

SERIES 102

FEATURES

- Heat-insulated frame, tapered (on the anvil side) for hard-to-reach places.
- With a standard bar except for 0 - 25mm / 0 - 1" model.
- A ratchet stop or ratchet thimble for a constant measuring force.
- Supplied in a fitted plastic case.



102-309



102-329



Technical Data

Graduation: 0.01mm, 0.001mm, .001" or .0001"
 Flatness: 0.3μm / .000012"
 Parallelism: 1μm / .00004" for 25mm / 1" model
 3μm / .00012" for models up to 100mm / 4"
 Measuring faces: Carbide tipped

Ratchet stop type



Ratchet thimble type



SPECIFICATIONS

Metric With ratchet stop

Range	Graduation	Order No.	Accuracy
0 - 25mm	0.01mm	102-301	±2μm
	0.001mm	102-307*	±2μm
25 - 50mm	0.01mm	102-302	±2μm
	0.001mm	102-308*	±2μm
50 - 75mm	0.01mm	102-303	±2μm
75 - 100mm	0.01mm	102-304	±3μm

*0.001mm reading is obtained with vernier.

Inch With ratchet stop

Range	Graduation	Order No.	Accuracy
0 - 1"	.001"	102-321	±.0001"
	.0001"	102-327*	±.0001"
1 - 2"	.001"	102-322	±.0001"
	.0001"	102-328*	±.0001"
2 - 3"	.001"	102-323	±.0001"
3 - 4"	.001"	102-324	±.00015"

*.0001" reading is obtained with vernier.

Metric With ratchet thimble

Range	Graduation	Order No.	Accuracy
0 - 25mm	0.01mm	102-305	±2μm
	0.001mm	102-309*	±2μm
25 - 50mm	0.01mm	102-306	±2μm

*0.001mm reading is obtained with vernier.

Inch With ratchet thimble

Range	Graduation	Order No.	Accuracy
0 - 1"	.001"	102-325	±.0001"
	.0001"	102-329*	±.0001"
1 - 2"	.001"	102-326	±.0001"
	.0001"	102-330*	±.0001"
2 - 3"	.0001"	103-331*	±.0001"
3 - 4"	.0001"	103-332*	±.00015"

*.0001" reading is obtained with vernier.

Metric Micrometer set 0.01mm Graduation model

Range	Order No.	Included in set
0 - 100mm (4 pcs/set)	102-911-01	<ul style="list-style-type: none"> • 102-701* • 102-302 • 102-303 • 102-304 • 3 micrometer standards

*Ratchet thimble micrometer.

DIMENSIONS AND MASS

Unit: mm

Range	L	a	b	c	d	Mass (g)
0 - 25mm / 0 - 1"	30.3	2.8	5	26	6.35	180
25 - 50mm / 1 - 2"	55.3	2.8	8	32	6.35	270
50 - 75mm / 2 - 3"	80.3	2.8	9	45	6.35	375
75 - 100mm / 3 - 4"	105.3	2.8	10	58	6.35	490

Note: The shape of the thimble changes on the model with ratchet thimble.