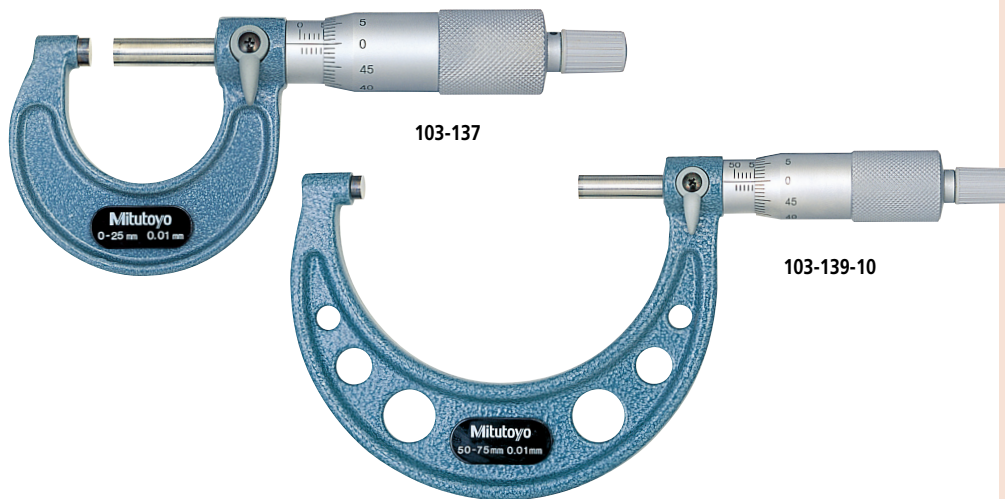


Micrometer

The origin of Mitutoyo's trustworthy brand of small tool instruments

Outside Micrometers SERIES 103

- Baked-enamel-finished frame.
- Measuring faces: Carbide
- Equipped with Ratchet Stop for constant measuring force.



Metric With ratchet stop			
Order No.	Range	Graduation	Accuracy
103-137	0 - 25mm	0.01mm	±2μm
103-129		0.001mm	
103-138		0.01mm	
103-130		0.001mm	
103-139-10	50 - 75mm	0.01mm	±3μm
103-140-10	75 - 100mm		
103-141-10	100 - 125mm		
103-142-10	125 - 150mm		
103-143-10	150 - 175mm		±4μm
103-144-10	175 - 200mm		
103-145-10	200 - 225mm		
103-146-10	225 - 250mm		
103-147-10	250 - 275mm		±5μm
103-148-10	275 - 300mm		
103-149	300 - 325mm	0.01mm	±6μm
103-150	325 - 350mm		
103-151	350 - 375mm		
103-152	375 - 400mm		
103-153	400 - 425mm		±7μm
103-154	425 - 450mm		
103-155	450 - 475mm		
103-156	475 - 500mm		
103-157	500 - 525mm		±8μm
103-158	525 - 550mm		
103-159	550 - 575mm	0.01mm	±9μm
103-160	575 - 600mm		
103-161	600 - 625mm		
103-162	625 - 650mm		
103-163	650 - 675mm		±10μm
103-164	675 - 700mm		
103-165	700 - 725mm		
103-166	725 - 750mm		
103-167	750 - 775mm		±11μm
103-168	775 - 800mm		
103-169	800 - 825mm		
103-170	825 - 850mm		
103-171	850 - 875mm	0.01mm	±12μm
103-172	875 - 900mm		
103-173	900 - 925mm		
103-174	925 - 950mm		
103-175	950 - 975mm		±13μm
103-176	975 - 1000mm		
			±14μm
			±15μm

Inch With ratchet stop			
Order No.	Range	Graduation	Accuracy
103-177	0 - 1"	.001"	±.0001"
103-131		.0001"	
103-178		.001"	
103-132		.0001"	
103-179	2" - 3"	.001"	±.00015"
103-180	3" - 4"		
103-181	4" - 5"		
103-182	5" - 6"		
103-183	6" - 7"		±.0002"
103-184	7" - 8"		
103-185	8" - 9"		
103-186	9" - 10"		
103-187	10" - 11"		±.00025"
103-188	11" - 12"		
103-189	12" - 13"	.001"	±.0003"
103-190	13" - 14"		
103-191	14" - 15"		
103-192	15" - 16"		
103-193	16" - 17"		±.00035"
103-194	17" - 18"		
103-195	18" - 19"		
103-196	19" - 20"		
103-197	20" - 21"		±.0004"
103-198	21" - 22"		
103-199	22" - 23"		
103-200	23" - 24"		
103-201	24" - 25"	.001"	±.00045"
103-202	25" - 26"		
103-203	26" - 27"		
103-204	27" - 28"		
103-205	28" - 29"		±.0005"
103-206	29" - 30"		
103-207	30" - 31"		
103-208	31" - 32"		
103-209	32" - 33"		±.00055"
103-210	33" - 34"		
103-211	34" - 35"		
103-212	35" - 36"		
103-213	36" - 37"	.0001"	±.0006"
103-214	37" - 38"		
103-215	38" - 39"		
103-216	39" - 40"		
			±.0007"
			±.00075"

Inch With friction thimble			
Order No.	Range	Graduation	Accuracy
103-135	0 - 1"	.0001"	±.0001"
103-136	1" - 2"		



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

Technical Data

Flatness: 0.6μm/.000024" for models up to 300mm/12"
1μm/.00004" for models over 300mm/12"

Parallelism:

(2 + R/100) μm, R = max, range (mm)

[.00008 + .00004 (R/4)]", R = max, range (inch)

*fraction rounded down

Standard accessories: Reference bar, 1 pc

(except for measuring range 0-25mm (0-1") models)

Spanner (301336), 1 pc

(for maximum measuring range up to 300mm (12"))

Spanner (200154), 1 pc

(for maximum measuring range 325mm (13") or over)



103-904-10



103-905-10



103-906