Outside Micrometers

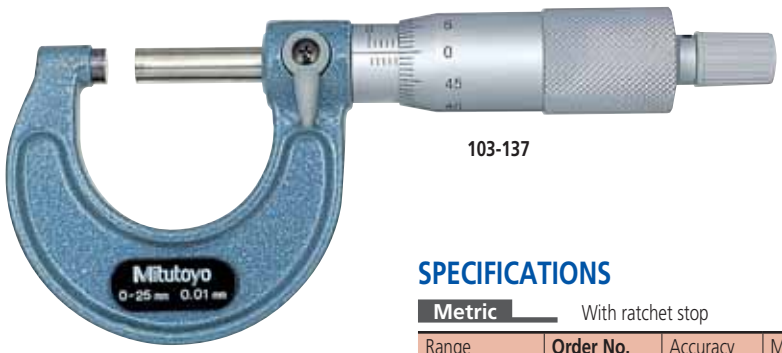
SERIES 103

FEATURES

- Hammertone, baked-enamel-finished frame.
- Ratchet Stop or Friction Thimble for exact repetitive readings.
- With a standard bar except for 0-25mm model.

Technical Data

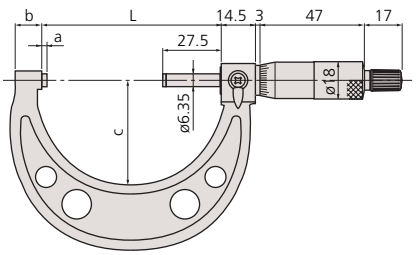
Graduation: 0.01mm, 0.001mm
Flatness: 0.6 µm for models up to 300mm"
1µ for models over 300mm
Parallelism: (2+R/100)µm, R=max, range (mm)
Measuring faces: Carbide tipped



103-137

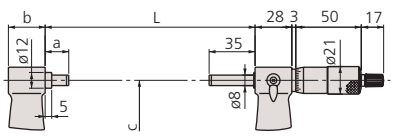
DIMENSIONS AND MASS

Up to 300mm / 12"



Range	L	a	b	c
0 - 25mm / 0 - 1"	30.3	2.8	9	28
25 - 50mm / 1 - 2"	55.3	2.8	10	38
50 - 75mm / 2 - 3"	80.3	2.8	12	49
75 - 100mm / 3 - 4"	105.3	2.8	14	60
100 - 125mm / 4 - 5"	132.8	5.3	17	79
125 - 150mm / 5 - 6"	158.2	5.7	19	94
150 - 175mm / 6 - 7"	183.6	6.1	20	106
175 - 200mm / 7 - 8"	208.8	6.3	19	118
200 - 225mm / 8 - 9"	234.2	6.7	18	130
225 - 250mm / 9 - 10"	258	5.5	18	143
250 - 275mm / 10 - 11"	284	6.5	18	156
275 - 300mm / 11 - 12"	309	6.5	18	169

Over 300mm / 12"



Range	L	a	b	c
300 - 325mm / 12-13"	353	18	28	187
325 - 350mm / 13-14"	378	18	28	199
350 - 375mm / 14-15"	403	18	28	212
375 - 400mm / 15-16"	428	18	28	224
400 - 425mm / 16-17"	453	18	28	236
425 - 450mm / 17-18"	478	18	28	248
450 - 475mm / 18-19"	503	18	28	261
475 - 500mm / 19-20"	528	18	28	273

SPECIFICATIONS

Metric With ratchet stop

Range	Order No.	Accuracy	Mass (g)
0 - 25mm	**103-137**	±2µm	175
	103-129*	±2µm	175
25 - 50mm	**103-138**	±2µm	215
	103-130*	±2µm	215
50 - 75mm	**103-139-10**	±2µm	315
75 - 100mm	**103-140-10**	±3µm	375
100 - 125mm	**103-141-10**	±3µm	515
125 - 150mm	**103-142-10**	±3µm	665
150 - 175mm	**103-143-10**	±4µm	720
175 - 200mm	**103-144-10**	±4µm	920
200 - 225mm	**103-145-10**	±4µm	1080
225 - 250mm	**103-146-10**	±5µm	1255
250 - 275mm	**103-147-10**	±5µm	1405
275 - 300mm	**103-148-10**	±5µm	1565
300 - 325mm	**103-149**	±6µm	1985
325 - 350mm	**103-150**	±6µm	2155
350 - 375mm	**103-151**	±6µm	2305
375 - 400mm	**103-152**	±7µm	2455
400 - 425mm	**103-153**	±7µm	2715
425 - 450mm	**103-154**	±7µm	2965
450 - 475mm	**103-155**	±8µm	3215
475 - 500mm	**103-156**	±8µm	3450
(Models with a range up to 1000mm are available.)			

*0.001mm reading is obtained with vernier.

Metric With friction thimble

Range	Order No.	Accuracy	Mass (g)
0 - 25mm	**103-125**	±2µm	175
	103-133*	±2µm	175
25 - 50mm	**103-126**	±2µm	215

*0.001mm reading is obtained with vernier.

Metric Micrometer set

Range	Order No.	Included in set	Mass (g)
0 - 75mm (3 mikes/set)	**103-927-10**	**103-137, 103-138, 103-139-10,** 2 micrometer standards	750
0 - 150mm (6 mikes/set)	**103-913-31**	**102-701*, 103-138, 103-139-10, 103-140-10, 103-141-10, 103-142-10,** 5 micrometer standards	2260
150 - 300mm (6 mikes/set)	**103-915-10**	**103-143-10, 103-144-10, 103-145-10, 103-146-10, 103-147-10, 103-148-10,** 6 micrometer standards	7695
0 - 300mm (12 mikes/set)	**103-914-31**	All micrometers of **103-913-31** and **103-915-10** in one set, 11 micrometer standards	9300

*Ratchet thimble micrometer