Analog Outside Micrometers Metric

Series 103

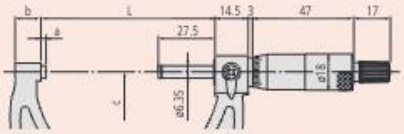
Lightweight workshop design with baked-enamel-finished frame.

- Equipped with Ratchet Stop for constant measuring force.

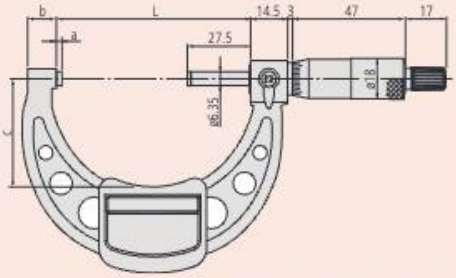
Only for 0-25, 25-50 mm

Specifications

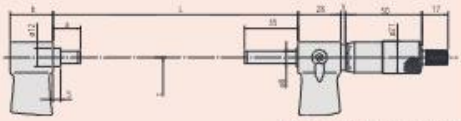
Measuring face	Carbide-tipped, micro-lap finish
Measuring spindle	With spindle lock, spindle pitch 0,5 mm
Scale	Thimble and sleeve satin chrome finish ø18 mm (21 mm models >300 mm)
Delivered	Including box, key, setting standard (from 25 mm upward), certificate of inspection (0-50 mm range)



Models up to 50 mm



Models 50 mm to 300 mm with insulating plate



Models over 300 mm



103-137



103-139-10

Metric

Graduation 0.001 mm is obtained with vernier on sleeve

No.	Range [mm]	Max. Permissible Error E MPE	Variation in length V MPE	Class EN ISO 3611	Measuring force [N]	L [mm]	a [mm]	b [mm]	c [mm]	Mass [g]
103-129	0–25	±2 µm	2 µm	Class 2	5-10	30,3	2,8	9	28	175
103-130	25–50	±2 µm	2 µm	Class 2	5-10	55,3	2,8	10	38	215

Metric

Graduation 0.01 mm

No.	Range [mm]	Max. Permissible Error E MPE	Variation in length V MPE	Class EN ISO 3611	Measuring force [N]	L [mm]	a [mm]	b [mm]	c [mm]	Mass [g]
103-137	0–25	±2 µm	2 µm	Class 2	5-10	30,3	2,8	9	28	175
103-138	25–50	±2 µm	2 µm	Class 2	5-10	55,3	2,8	10	38	215
103-139-10	50–75	±2 µm	2 µm	Class 1	5-10	80,3	2,8	12	46	315
103-140-10	75–100	±3 µm	3 µm	Class 2	5-10	105,3	2,8	14	57	375
103-141-10	100–125	±3 µm	3 µm	Class 2	5-10	132,8	5,3	17	76	515
103-142-10	125–150	±3 µm	3 µm	Class 2	5-10	158,2	5,7	19	90	665
103-143-10	150–175	±4 µm	3 µm	Class 2	5-10	183,6	6,1	20	102	720
103-144-10	175–200	±4 µm	4 µm	Class 2	5-10	208,8	6,3	19	115	920
103-145-10	200–225	±4 µm	4 µm	Class 2	5-10	234,2	6,7	18	127	1080
103-146-10	225–250	±5 µm	4 µm	Class 2	5-10	258	5,5	18	139	1255
103-147-10	250–275	±5 µm	4 µm	Class 2	5-10	284	6,5	18	152	1405
103-148-10	275–300	±5 µm	5 µm	Class 2	5-10	309	6,5	18	166	1565
103-149	300–325	±6 µm	5 µm	Class 2	10-15	353	18	28	187	1985
103-150	325–350	±6 µm	5 µm	Class 2	10-15	378	18	28	199	2155
103-151	350–375	±6 µm	5 µm	Class 2	10-15	403	18	28	212	2305
103-152	375–400	±7 µm	6 µm	Class 2	10-15	428	18	28	224	2455
103-153	400–425	±7 µm	6 µm	Class 2	10-15	453	18	28	236	2715
103-154	425–450	±7 µm	6 µm	Class 2	10-15	478	18	28	248	2965
103-155	450–475	±8 µm	6 µm	Class 2	10-15	503	18	28	261	3215
103-156	475–500	±8 µm	7 µm	Class 2	10-15	528	18	28	273	3450

All products to be sold to commercial customers.
Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon.

Mitutoyo

Analog Outside Micrometers in Set

Series 103

Lightweight workshop design with baked-enamel-finished frame.
- Equipped with Ratchet Stop for constant measuring force.

PROPRIETARY INSPECTION CERTIFICATE

Only for 0-25, 25-50 mm

Specifications

Measuring face	Carbide tipped, micro-lap finish
Measuring spindle	With spindle lock, ø6,35 mm , spindle pitch 0,5 mm
Delivered	Including box, key, setting standard (from 25 mm upward),



103-927-10



103-913-50



103-914-50



Setting standards
103-914-50

Metric

Micrometer set

No.	Range [mm]	Graduation	Content of Set	Mass [g]
103-927-10	0–75	0,01 mm	103-137, 103-138, 103-139-10, 2 setting standards	750
103-913-50	0–150	0,01 mm	103-137, 103-138, 103-139-10, 103-140-10, 103-141-10, 103-142-10, 5 setting standards	2260
103-915-10	150–300	0,01 mm	103-143-10, 103-144-10, 103-145-10, 103-146-10, 103-147-10, 103-148-10, 6 setting standards	7695
103-914-50	0–300	0,01 mm	103-137, 103-138, 103-139-10, 103-140-10, 103-141-10, 103-142-10, 103-143-10, 103-144-10, 103-145-10, 103-146-10, 103-147-10, 103-148-10, 11 setting standards	9300

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