



Measurement example



103-913-40

- Range: 0 - 150 mm (6 pcs./set)
- Models included: **103-137, 103-138, 103-139, 103-140, 103-141, 103-142,** 5 micrometer standards



103-914-40

- Range: 0 - 300 mm (12 pcs./set)
- Models included: **103-137, 103-138, 103-139, 103-140, 103-141, 103-142, 103-143, 103-144, 103-145, 103-146, 103-147, 103-148** 11 micrometer standards



103-915

- Range: 150 - 300 mm (6 pcs./set)
- Models included: **103-143, 103-144, 103-145, 103-146, 103-147, 103-148,** 6 micrometer standards

103-927-10

- Range: 0 - 75 mm (3 pcs./set)
- Models included: **103-137, 103-138, 103-139-10**

103-913-50

- Range: 50 - 150 mm (6 pcs./set)
- Models included: **103-137, 103-138, 103-139-10, 103-140-10, 103-141-10, 103-142-10**

103-914-50

- Range: 50 - 300 mm (12 pcs./set)
- Models included: **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**

103-915-10

- Range: 150 - 300 mm (6 pcs./set)
- Models included: **103-143-10, 103-144-10, 103-145-10, 103-146-10, 103-147-10, 103-148-10**

Outside Micrometers SERIES 103

- This is a simple, classic analog micrometer that represents the roots of our company's foundation.
- Measuring faces: Carbide tipped
- Equipped with Ratchet Stop for constant measuring force.



Metric With ratchet stop						
Code No.	Range (mm)	Measuring force (N)	Graduation (mm)	MPE*1 (µm)	Flatness (µm)	Parallelism (µm)
103-129	0 - 25	5 - 10	0.001	±2	0.6	2
103-130	25 - 50					
103-139-10	50 - 75					
103-140-10	75 - 100			±3		
103-141-10	100 - 125					
103-142-10	125 - 150					
103-143-10	150 - 175			±4		
103-144-10	175 - 200					
103-145-10	200 - 225					
103-146-10	225 - 250			±5		
103-147-10	250 - 275					
103-148-10	275 - 300					
103-149	300 - 325	10 - 15	0.01	±6	1	5
103-150	325 - 350			±7		
103-151	350 - 375					
103-152	375 - 400					±8
103-153	400 - 425					
103-154	425 - 450					
103-155	450 - 475			±9		
103-156	475 - 500					
103-157	500 - 525					
103-158	525 - 550			±10		
103-159	550 - 575					
103-160	575 - 600					
103-161	600 - 625			±11		
103-162	625 - 650					
103-163	650 - 675					
103-164	675 - 700	±12				
103-165	700 - 725					
103-166	725 - 750					
103-167	750 - 775	±13				
103-168	775 - 800					
103-169	800 - 825					
103-170	825 - 850	±14				
103-171	850 - 875					
103-172	875 - 900					
103-173	900 - 925	±15				
103-174	925 - 950					
103-175	950 - 975					
103-176	975 - 1000					12

Metric With ratchet stop						
Code No.	Range (mm)	Measuring force (N)	Graduation (mm)	MPE*1 *2 (µm)	Flatness (µm)	Parallelism (µm)
103-137	0 - 25	5 - 10	0.01	±2	0.6	2
103-138	25 - 50					
103-255	50 - 75					
103-256	75 - 100		0.001	±3		
103-257	100 - 125					
103-258	125 - 150					

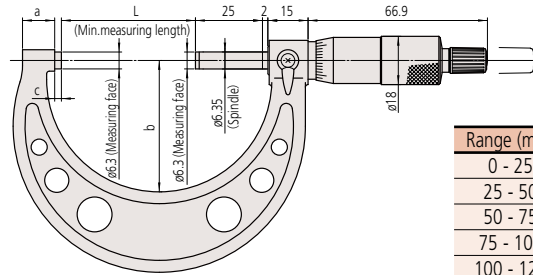
• Standard accessories: Setting standard, 1 pc. (except for measuring range 0 to 25 mm (0 to 1 in) models), Spanner (**301336**), 1 pc. (for maximum measuring range up to 300 mm (12 in)), Spanner (**200154**), 1 pc. (for maximum measuring range 325 mm (13 in) or over)
 *1 MPE: Maximum permissible error J_{MPE}
 *2 Maximum permissible error of the indication measured by contacting the full measuring face with the object to be measured. J_{MPE} is a term specified by JIS B 7502: 2016 which has been prepared based on ISO 3611: 2010 with some modifications of the technical contents. The measurement method has not been changed from JIS B 7502: 1994. For details refer to page 13-10.

Outside Micrometers SERIES 103

DIMENSIONS

103-137 and 103-138, Models 75 mm to 300 mm

Unit: mm

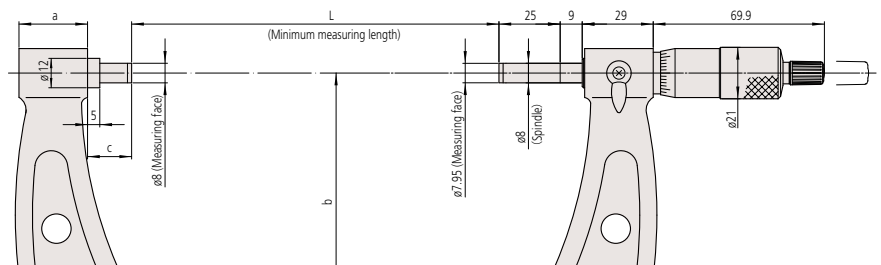


Range (mm)	L	a	b	c
0 - 25	0	9	28	2.5
25 - 50	25	10	38	
50 - 75	50	12	49	
75 - 100	75	14	60	
100 - 125	100	16.7	79	5.3
125 - 150	125	18.8	94	5.7
150 - 175	150	19.1	106	6.1
175 - 200	175	18.2	118	6.3
200 - 225	200	16.8	130	6.7
225 - 250	225	18	143	5.5
250 - 275	250		156	6.5
275 - 300	275		169	

DIMENSIONS

Models 325 mm to 1000 mm

Unit: mm



Range (mm)	L	a	b	c	
300 - 325	300	28	187	18	
325 - 350	325		199		
350 - 375	350		212		
375 - 400	375		224		
400 - 425	400		236		
425 - 450	425		248		
450 - 475	450		261		
475 - 500	475		273		
500 - 525	500		307		40
525 - 550	525				15
550 - 575	550		332		40
575 - 600	575				15
600 - 625	600		355		40
625 - 650	625				15

Range (mm)	L	a	b	c
650 - 675	650	28	382	40
675 - 700	675			15
700 - 725	700		405	40
725 - 750	725			15
750 - 775	750		430	40
775 - 800	775			15
800 - 825	800		455	40
825 - 850	825			15
850 - 875	850		480	40
875 - 900	875			15
900 - 925	900		505	40
925 - 950	925			15
950 - 975	950		530	40
975 - 1000	975			15



Tài liệu được tổng hợp bởi đội ngũ kỹ thuật của NPOWER
Bản quyền nội dung thuộc về Mitutoyo

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