

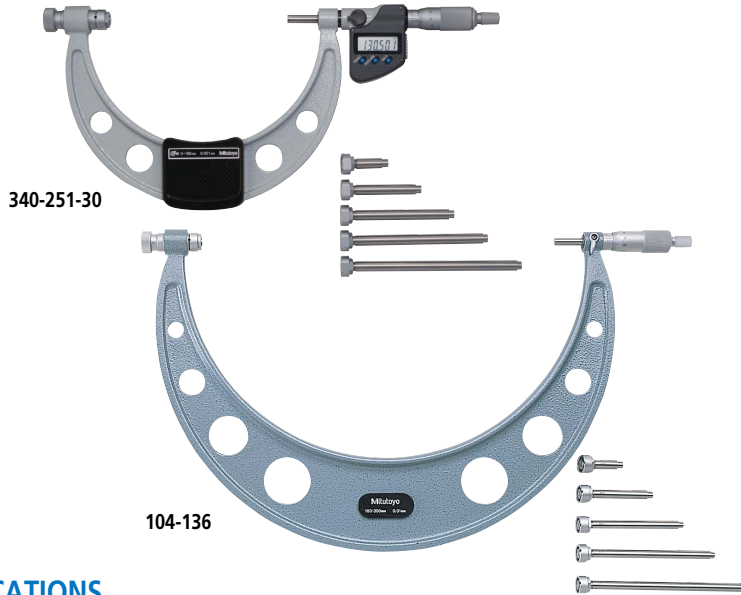
Micrometer

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

Outside Micrometers SERIES 340, 104 — with Interchangeable Anvils

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

- Wide measuring range with interchangeable anvils.
- Measuring face of the spindle is carbide tipped (standard model).
- IP 65 water/dust protection (**series 340**)*.
- * Models with a measuring range up to 300 mm.
- Equipped with Ratchet Stop for constant measuring force.



MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).



These marks indicate that a product has successfully passed IP65-level testing, which is carried out by the independent German certification organization TÜV Rheinland.



IP Codes (series 340)

Level 6: Dust -proof.

No ingress of dust allowed.

Level 5: Protected against water jets.

Water projected in jets against the enclosure from any direction shall have no harmful effects.

Technical Data

- Flatness:
0.6 μm /0.00024 in for models up to 300 mm/12 in
1.0 μm /0.0004 in for models over 300 mm/12 in
- Parallelism:
2 μm /0.0008 in for models up to 75 mm/3 in
3 μm /0.0012 in for models up to 150 mm/6 in
(2 + R/100) μm for models over 150 mm,
R= max. range (mm)
Fraction rounded up
 $\pm[0.00008 + 0.00004 (R/4)]$ in for models over 6 in,
R= max. range (inch)
Fraction rounded up
- Accuracy:
 $\pm(4 + R/75) \mu\text{m}$, R = max. range (mm)
 $\pm[0.00016 + 0.00004 (R/3)]$ in, R = max. range (inch)
(excluding quantizing error for digital models)
Fraction rounded up
- Excluding quantizing error

SPECIFICATIONS

Metric							
Order No.	Range (mm)	Resolution (mm)	Interchangeable anvils	Setting Standard		Micrometer head stroke (mm)	
				Qty	Size (mm)		
Digimatic (LCD)							
340-251-30	0 - 150	0.001	6 pcs.	5	25 - 125	25	
340-252-30	150 - 300			6	150 - 275		
340-520	300 - 400		4 pcs.	4			300 - 375
340-521	400 - 500						400 - 475
340-522	500 - 600						500 - 575
340-523	600 - 700						600 - 675
340-524	700 - 800						700 - 775
340-525	800 - 900						800 - 875
340-526	900 - 1000						900 - 975

Inch/Metric							
Order No.	Range (in)	Resolution	Interchangeable anvils	Setting Standard		Micrometer head stroke (in)	
				Qty	Size (in)		
Digimatic (LCD)							
340-351-30	0 - 6	0.0005 in/ 0.001 mm	6 pcs.	5	1 - 5	1	
340-352-30	6 - 12	0.0001 in/ 0.001 mm		6			6 - 11
340-720	12 - 18						12 - 17
340-721	18 - 24						18 - 23
340-722	24 - 30						24 - 29
340-723	30 - 36						30 - 35

Metric							
Order No.	Range (mm)	Graduation (mm)	Interchangeable anvils	Setting Standard		Micrometer head stroke (mm)	
				Qty	Size (mm)		
Analog							
104-171*	0 - 50	0.01	1 pc.	1	25	25	
104-139A	0 - 100		4 pcs.	3	25 - 75		
104-135A	0 - 150		6 pcs.	5	25 - 125		
104-161A	50 - 150		4 pcs.	4			50 - 125
104-140A	100 - 200						100 - 175
104-136A	150 - 300		4 pcs.	4			150 - 275
104-141A	200 - 300						200 - 275
104-142A	300 - 400						300 - 375
104-143A	400 - 500						400 - 475
104-144A	500 - 600						500 - 575
104-145A	600 - 700						600 - 675
104-146A	700 - 800						700 - 775
104-147A	800 - 900						800 - 875
104-148A	900 - 1000						900 - 975

Inch							
Order No.	Range (in)	Interchangeable anvils	Graduation (in)	Setting Standard		Micrometer head stroke (in)	
				Qty	Size (in)		
Analog							
104-165	0 - 2	1 pc.	0.0001	1	1	1	
104-149	0 - 4	4 pcs.	0.001	3	1 - 3		
104-137	0 - 6	6 pcs.		5	1 - 5		
104-162	2 - 6	4 pcs.		4			2 - 5
104-150	4 - 8						4 - 7
104-138	6 - 12	6 pcs.		6	6 - 11		
104-151	8 - 12	4 pcs.		4			8 - 11
104-152	12 - 16						12 - 15
104-201	12 - 18	6 pcs.		6	12 - 17		
104-153	16 - 20	4 pcs.		4	16 - 19		
104-202	18 - 24	6 pcs.		6	18 - 23		
104-154	20 - 24	4 pcs.		4			20 - 23
104-155	24 - 28						24 - 27
104-203	24 - 30	6 pcs.		6	24 - 29		
104-156	28 - 32	4 pcs.		4	28 - 31		
104-204	30 - 36	6 pcs.		6	30 - 35		
104-157	32 - 36	4 pcs.		4			32 - 35
104-158	36 - 40						36 - 39
104-205	36 - 42				6 pcs.		6

* The frame is fitted with a heat shield.

Note 1: For functional details of 340-251-30, 340-252-30, 340-351-30, 340-352-30, refer to page B-8.

Please note that origin setting of these models is by presetting.

Optional connecting cable is available only for water-proof type (Digimatic model).

Note 2: For functional details of 340-520 to 340-723, refer to page B-9.