

Mitutoyo



MEASURING INSTRUMENTS CATALOG



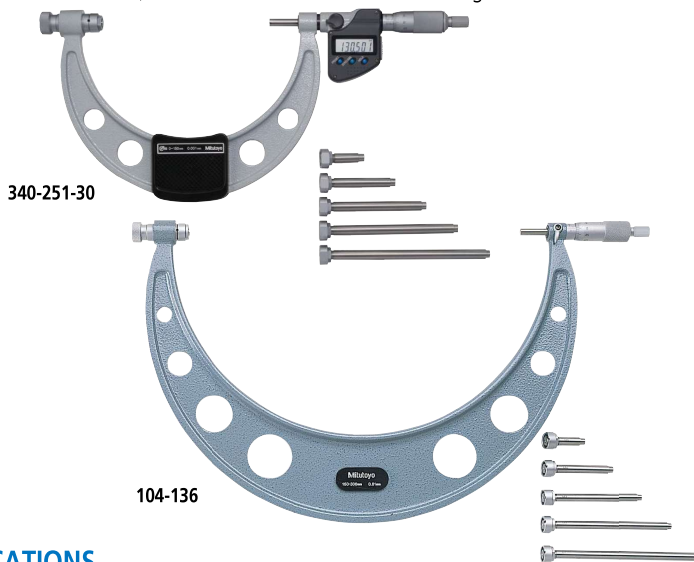
Micrometer

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 (340-251-30, 340-252-30, 340-351-30, 340-352-30).
- Equipped with Ratchet Stop for constant measuring force.



SPECIFICATIONS

Metric						
Order No.	Range (mm)	Resolution (mm)	Interchangeable anvils	Setting Standard Qty	Size (mm)	Micrometer head stroke (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	

Metric						
Order No.	Range (mm)	Graduation (mm)	Interchangeable anvils	Setting Standard Qty	Size (mm)	Micrometer head stroke (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		6 pcs.	6	150 - 275	
104-141A	200 - 300		4 pcs.	4	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	

* The frame is fitted with a heat shield.

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	0.00005 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	

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	36 - 41	

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Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink



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 (340-251-30, 340-252-30, 340-351-30, 340-352-30)

Level 6: Dust - proof.

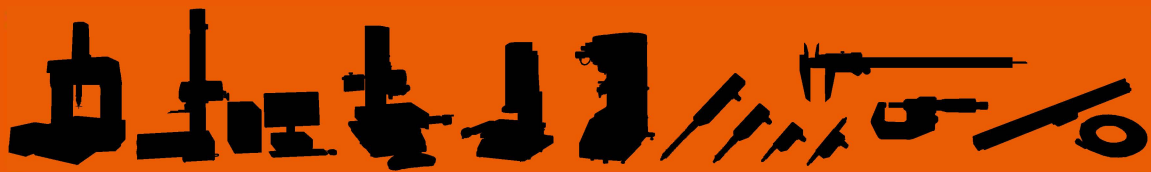
No ingress of dust allowed.

Level 5: Protected against water jets.

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

Technical Data

- Spindle feed error: 3 μ m/0.00015 in
- Flatness
 - Measuring range 0 to 300: 0.6 μ m
 - Measuring range 300 to 1000: 1.0 μ m
- Parallelism
 - Measuring range 0 to 75: 2 μ m
 - Measuring range 75 to 150: 3 μ m
 - Measuring range 150 to 1000 (2+R/100) μ m, R=max. range (mm) (fraction rounded up)



FOR MORE INFORMATION PLEASE CONTACT:



BHAGWATI

Hardware & Mill Store Since 1976

Address: 4769, 1ST Floor, Old Post Office Building,
Hauz Qazi, Delhi - 110006

Mobile: 9212012856, 9350076343

Website: www.bhagwathardware.com
www.bhagwathardwaredelhi.in

E-mail: sandeep@bhagwatimail.com

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