

Mitutoyo



MEASURING INSTRUMENTS CATALOG



Micrometer

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

Point Micrometers SERIES 342, 112, 142

MeasurLink ENABLED
Data Management Software by Mitutoyo

- Measures trough diameters, such as drill web diameters.
- The measuring points (carbide tipped) have approximately 0.3 mm radius.
- Series 342:** IP65 Digimatic micrometers.
- Equipped with Ratchet Stop for constant measuring force.



SPECIFICATIONS

Metric				
Order No.	Range (mm)	Resolution (mm)	Maximum permissible error J_{1978} (μm)	Point
Digimatic (LCD) (With carbide tip)				
342-251-30	0 - 25	0.001	±2	15°
342-252-30	25 - 50			
342-253-30	50 - 75			
342-254-30*	75 - 100		±3	
342-261-30	0 - 25		±2	30°
342-262-30	25 - 50			
342-263-30	50 - 75			
342-264-30*	75 - 100		±3	

* Made to order.

Metric				
Order No.	Range (mm)	Graduation (mm)	Maximum permissible error J_{1978} (μm)	Point
Analog				
112-153	0 - 25	0.01	±3	15°
112-154	25 - 50			
112-155	50 - 75		±4	30°
112-156	75 - 100			
112-201	0 - 25		±3	30°
112-202	25 - 50			
112-203	50 - 75		±4	30°
112-204	75 - 100			
Analog (With carbide tip)				
112-165	0 - 25	0.01	±3	15°
112-166	25 - 50			
112-167	50 - 75		±4	30°
112-168	75 - 100			
112-213	0 - 25		±3	30°
112-214	25 - 50			
112-215	50 - 75		±4	30°
112-216	75 - 100			
Mechanical counter model				
142-153	0 - 25		±3	15°
142-201				30°

Note: For functional details of **series 342** refer to page B-8.

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

Inch / Metric					
Order No.	Range (in)	Resolution	Maximum permissible error J_{1978} (in)	Point	
Digimatic (LCD) (With carbide tip)					
342-351-30	0 - 1	0.00005 in/ 0.001 mm	±0.0001	15°	
342-352-30	1 - 2				
342-353-30	2 - 3				
342-354-30	3 - 4		±0.00015	30°	
342-361-30	0 - 1		±0.0001		
342-362-30	1 - 2				
342-363-30	2 - 3		±0.00015		
342-364-30	3 - 4				

Inch				
Order No.	Range (in)	Graduation (in)	Maximum permissible error J_{1978} (in)	Point
Analog				
112-177	0 - 1	0.001	± 0.00015	15°
112-178	1 - 2			
112-225	0 - 1			30°
112-226	1 - 2			
Analog (With carbide tip)				
112-189	0 - 1	0.001	± 0.00015	15°
112-190	1 - 2			
112-191	2 - 3			30°
112-237	0 - 1			
112-238	1 - 2			
Mechanical counter model				
142-177	0 - 1		± 0.00015	15°
142-225				

Mechanical counter model

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.



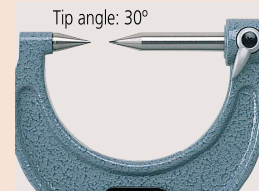
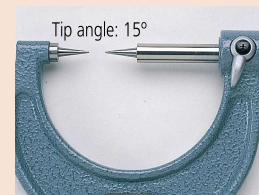
IP Codes (series 342)

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

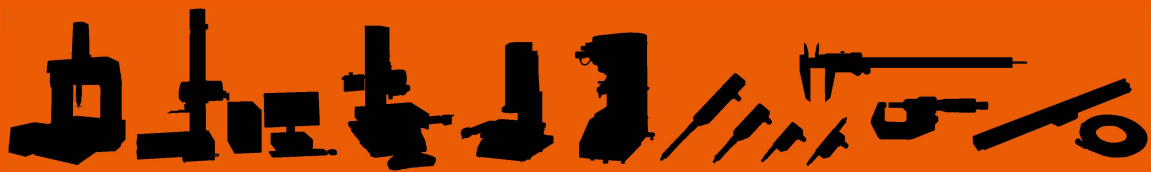
- Battery for **series 342**
SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)
- Battery life: Approx. 2.4 years under normal use (for **series 342**)
- Length standard: Electromagnetic rotary sensor (for **series 342**)
- Standard accessories: Reference bar, 1 pc. (except for measuring range 0 to 25 mm (0 to 1 in) models)
Spanner (**301336**), 1 pc.

Optional Accessories

- Connecting cables for **series 342**
1 m: **05CZA662**
2 m: **05CZA663**
- USB Input Tool Direct
USB-ITN-B (2 m): **06AFM380B**
- U-WAVE-T** dedicated connection cable
160 mm: **02AZD790B**
For foot switch: **02AZE140B**

Wireless Data Output **U-WAVE fit**

- U-WAVE-TM** **264-622** (IP67 type)
264-623 (Buzzer type)
- U-WAVE-TMB** Transmitter
Mitutoyo Bluetooth® U-WAVE
264-626 (IP type)
264-627 (Buzzer type)
Refer to page A-16 for details.
- Connecting unit for **U-WAVE-TM/TMB**
02AZF310 (IP67/buzzer type common specification)
Refer to pages A-16 and A-18 for details.



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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