

Micrometer

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

Point Micrometers SERIES 342, 142, 112

- Pointed spindle and anvil for measuring the web thickness of drills, small grooves, keyways and other hard-to-reach features.
- The measuring points (carbide tipped) have approximately 0.3 mm radius.
- Series 342: IP65 Digimatic micrometers.
- Equipped with Ratchet Stop for constant measuring force.

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo



342-251-30



112-201

SPECIFICATIONS

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

* Excluding quantizing error of ±1 count

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

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

* Excluding quantizing error of ±1 count

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

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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.



(Refer to page X for details.)

IP Codes (series 342)

Level 6: Dust-proof.

No ingress of dust allowed.

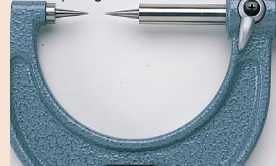
Level 5: Protected against water jets.

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

Technical Data



Tip angle: 15°



Tip angle: 30°

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 0-25 mm (0-1 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**

Wireless data output **U-WAVE**

264-622 (IP67 type)

264-623 (Buzzer type)

Connecting unit for U-WAVE-TM

02AZF310 (IP67 type)

Refer to page A-15 for details