



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 IX for details.)

IP Codes (342 series)

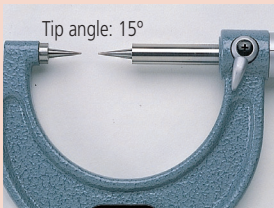
Level 6: Dust-proof.

No ingress of dust allowed.

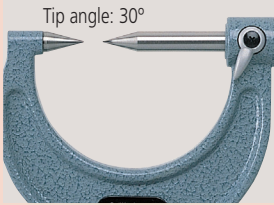
Level 5: Protected against water jets.

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 342 series

SR44 (1 pc), 938882, for initial operational checks (standard accessory)

Optional accessories

Connecting cables for 342 series

1m: 05CZA662

2m: 05CZA663

USB Input Tool Direct

USB-ITN-B (2m): 06ADV380B

SPC cables for U-WAVE w/ data switch (160mm):

02AZD790B

For foot switch: 02AZE140B

(Refer to page A-21 for details.)

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 0.3mm radius.
- 342 series: IP65 Digimatic micrometers
- Equipped with Ratchet Stop for constant measuring force.



342-251

112-201

SPECIFICATIONS

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

* Excluding quantizing error

Inch/Metric				
Order No.	Range	Resolution	Accuracy*	Point
Digimatic (LCD) (With carbide tip)				
342-351	0 - 1"	.00005"/ 0.001mm	±.0001"	15°
342-352	1 - 2"			
342-353	2 - 3"		±.00015"	
342-354	3 - 4"			
342-361	0 - 1"	.00005"/ 0.001mm	±.0001"	30°
342-362	1 - 2"			
342-363	2 - 3"		±.00015"	
342-364	3 - 4"			

* Excluding quantizing error

Metric				
Order No.	Range	Graduation	Accuracy	Point
Analog				
112-153	0 - 25mm	.01mm	±3µm	15°
112-154	25 - 50mm			
112-155	50 - 75mm		±4µm	
112-156	75 - 100mm			
112-201	0 - 25mm	.01mm	±3µm	30°
112-202	25 - 50mm			
112-203	50 - 75mm		±4µm	
112-204	75 - 100mm			
Analog (With carbide tip)				
112-165	0 - 25mm	.01mm	±3µm	15°
112-166	25 - 50mm			
112-167	50 - 75mm		±4µm	
112-168	75 - 100mm			
112-213	0 - 25mm	.01mm	±3µm	30°
112-214	25 - 50mm			
112-215	50 - 75mm		±4µm	
112-216	75 - 100mm			
Mechanical counter model				
142-153	0 - 25mm	.01mm	±3µm	15°
142-201				30°

Inch				
Order No.	Range	Graduation	Accuracy	Point
Analog				
112-177	0 - 1"	.001"	±.00015"	15°
112-178	1" - 2"			
112-225	0 - 1"		±.00015"	
112-226	1" - 2"			
Analog (With carbide tip)				
112-189	0" - 1"	.001"	±.00015"	15°
112-190	1" - 2"			
112-191	2" - 3"		±.00015"	
112-237	0 - 1"			
112-238	1" - 2"	.001"	±.00015"	30°
112-238	1" - 2"			
Mechanical counter model				
142-177	0 - 1"	.001"	±.00015"	15°
142-225				30°

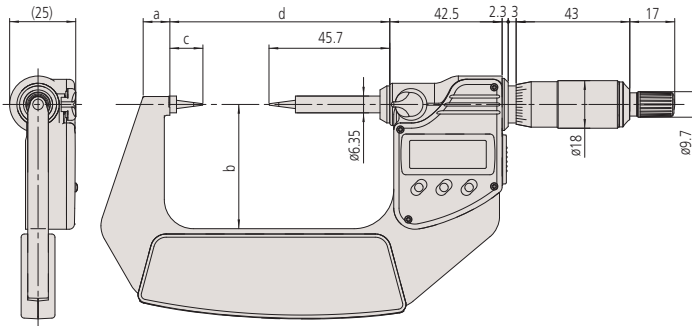
Micrometer

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

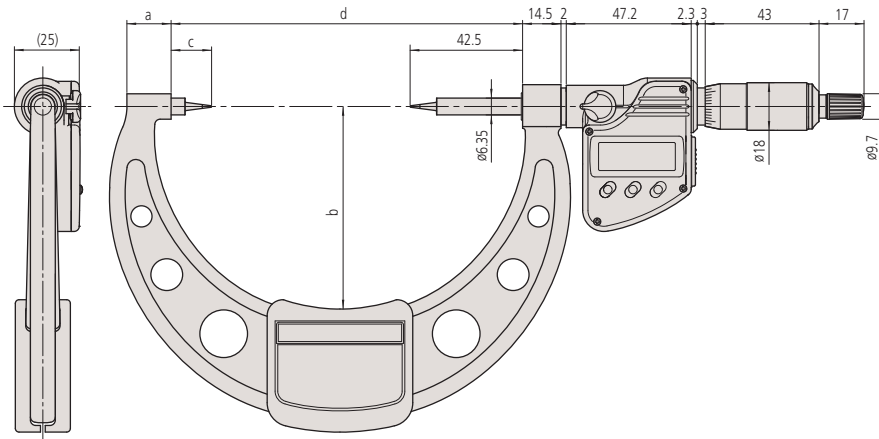
DIMENSIONS

Digital models up to 75mm measuring range

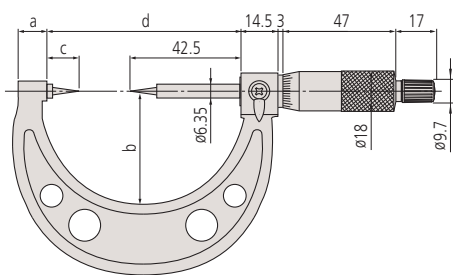
Unit: mm



Digital models over 75mm measuring range



Analog models measuring range



Order No.	a	b	c	d	Frame thickness*1
342-251	7.3	32		58.2	(11.2)
342-261				83.2	
342-252	10.1	47	12.5	108.2	(12.8)
342-262				132.8	
342-253	11.5	60		55	(9)
342-263				80	
342-254	16.7	76	15.3	105	(11)
342-264				132.8	
112-153	10	38		55	(9)
112-154	12	49	12.5	80	(10)
112-155	14	60		105	(11)
112-156	17	79	15.3	132.8	(13)

*1 Digimatic type: thickness over heat shield

