



Holtest SERIES 368 — Three-point/Two-point Internal Micrometers

- Titanium-coated measuring pins on the three-point type (over 6 mm range models) provide excellent durability and impact resistance.
- Three-point internal micrometer with measuring range 6 mm or longer allows stable measurement through self-centering.
- Measurement can be made close to the bottom of a blind hole.
- Deep holes can be measured by attaching an Extension Rod (optional) which is available on models over 6 mm (0.275 in) measuring range.

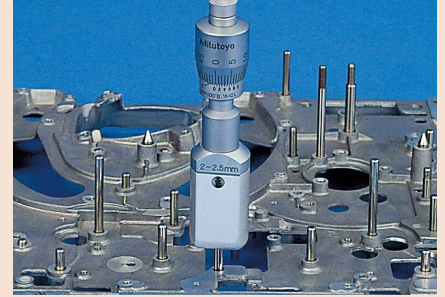


368-001
(Two-point contact type)



368-168
(Three-point contact type)

Measurement example



SPECIFICATIONS

Metric					Inch				
Order No.	Range*2 (mm)	Graduation (mm)	Maximum permissible error J_{MPE} (μm)*1	Extension Rod (optional)	Order No.	Range*2 (in)	Graduation (in)	Maximum permissible error J_{MPE} (in)*1	Extension Rod (optional)
(Two-point)		0.001	± 2 (maximum difference 2)	—	(Two-point)		0.0001	± 0.0001 (maximum difference 0.0001)	—
368-001	2 - 2.5				368-021	0.08 - 0.1			
368-002	2.5 - 3				368-022	0.1 - 0.12			
368-003	3 - 4				368-023	0.12 - 0.16			
368-004	4 - 5				368-024	0.16 - 0.2			
368-005	5 - 6	368-025	0.2 - 0.24						
(Three-point)		0.005	± 3 (maximum difference 3)	952322 (100 mm) 952621 (150 mm) 952622 (150 mm)	(Three-point)		0.0002	± 0.00015 (maximum difference 0.00015)	952322 (100 mm) 952621 (150 mm) 952622 (150 mm)
368-161	6 - 8				368-261	0.275 - 0.35			
368-162	8 - 10				368-262	0.35 - 0.425			
368-163	10 - 12				368-263	0.425 - 0.5			
368-164	12 - 16				368-264	0.5 - 0.65			
368-165	16 - 20				368-265	0.65 - 0.8			
368-166	20 - 25				368-266	0.8 - 1			
368-167	25 - 30				368-267	1 - 1.2			
368-168	30 - 40				368-268	1.2 - 1.6			
368-169	40 - 50				368-269	1.6 - 2			
368-170	50 - 63	368-270	2 - 2.5						
368-171	62 - 75	± 4 (maximum difference 4)	± 4 (maximum difference 4)	952623 (150 mm)	368-271	2.5 - 3	± 0.0002 (maximum difference 0.0002)	± 0.00025 (maximum difference 0.00025)	952623 (150 mm)
368-172	75 - 88				368-272	3 - 3.5			
368-173	87 - 100				368-273	3.5 - 4			
368-174	100 - 125				368-274	4 - 5			
368-175	125 - 150				368-275	5 - 6			
368-176	150 - 175				368-276	6 - 7			
368-177	175 - 200				368-277	7 - 8			
368-178	200 - 225				368-278	8 - 9			
368-179	225 - 250	368-279	9 - 10						
368-180	250 - 275	± 5 (maximum difference 5)	± 5 (maximum difference 5)	952623 (150 mm)	368-280	10 - 11	± 0.0003 (maximum difference 0.0003)		
368-181	275 - 300				368-281	11 - 12			

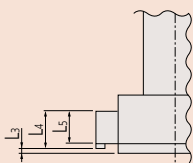
*1 Additionally, the difference in permissible error allowable is limited to a value within this range, as given in parentheses, and is measured with the entire measuring surface in contact with the object measured.

*2 The measurement range cannot be enlarged by measuring heads that are not standard-supplied (the accuracy is not guaranteed).

Note: Setting rings are optional.

You can measure the diameter of a blind hole to the bottom.

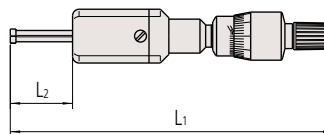
Range (mm)	L ₃ (mm)	L ₄ (mm)	L ₅ (mm)
2 - 6	—	—	2
6 - 12	2 or below	—	2.5
12 - 20	0.3 or below	5.6	3.5
20 - 30		8.3	5.2
30 - 50		13.0	10.0
50 - 100		17.0	14.0
100 - 300	12.4 or below	21.0	13.8



For details of Special-order Products, refer to page C-57.

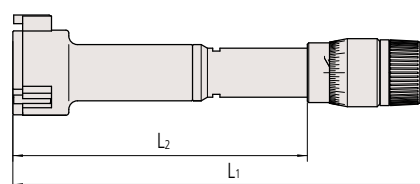
DIMENSIONS

Unit: mm



Range	L ₂	L ₁
2 - 2.5, 2.5 - 3 mm	12	103.5 - 104
3 - 4, 4 - 5, 5 - 6 mm	22	113 - 114

Note: External appearance differs depending on the measuring range.



Range	L ₂	L ₁
6 - 8, 8 - 10, 10 - 12 mm	59	102 - 104
12 - 16, 16 - 20 mm	82	126 - 130
20 - 25, 25 - 30 mm	94	137 - 142
30 - 40, 40 - 50 mm	102	145 - 155
50 - 63, 62 - 75, 75 - 88, 87 - 100 mm	105	150 - 163
100 - 125, 125 - 150, 150 - 175, 175 - 200, 200 - 225, 225 - 250, 250 - 275, 275 - 300 mm	161	227 - 252

Note: External appearance differs depending on the measuring range.