

MICROMETER HEAD



64p



64p



65p



65p



65p



66p



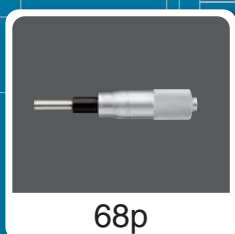
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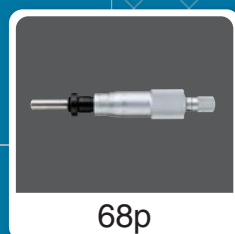
67p



67p



68p



68p



68p

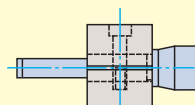
MICRO
METER
HEAD

Micrometer Head Basic Points

■ Stem

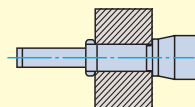
- The Stem is the cylindrical part where the micrometer head is fixed to the equipment where it is used. There are 3 options, selected according to application and method for holding the micrometer head.
- (1) Straight stem: can be mounted using a through hole with slot for clamping. Cost of attachment hardware can be higher. Allows or some adjustment of Head position in axial direction.
- (2) Stem with clamp nut: Mounts in through hole in plate. Installs easily using hole diameter slightly larger than stem and clamping by tightening the supplied nut.

Straight stem



Example of mounting a straight stem (tighten with slotted flexure)

Stem with Clamp Nut



Example of mounting a stem with clamp nut (in through hole)



Example of use

※ Stem Length in catalog is the length when graduation is set to 0mm

- (3) Stem with Spindle Clamp. The basic structure is similar to (1) and (2) above. Spindle clamp is recommended when micrometer head is used as a position stop as it prevents spindle motion or changing position during use. (Refer to pictures for items 1709-050, and 1719-350 on following pages for examples of Stem with Clamp Micrometer Heads)

■ Spindle Face

- Flat spindle: Primarily selected when micrometer head is used as a measuring device.
- Spherical spindle: Primarily selected when micrometer head is used as a "feeding device". Also has advantage of reducing error caused by head not being mounted exactly perpendicular to axis of travel.



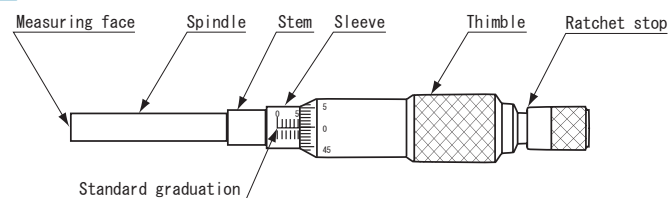
Flat Face



Spherical Face

- Thimble diameter: Outer diameter of portion behind spindle used for advancing and retracting spindle.

■ Part Name



DIGITAL MICROMETER HEAD



● Measuring Range : 0-25mm



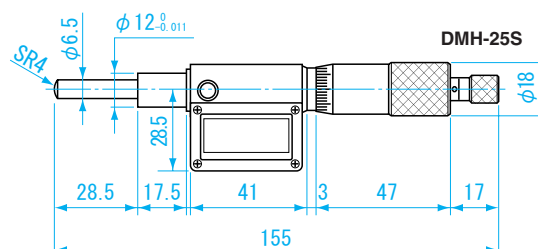
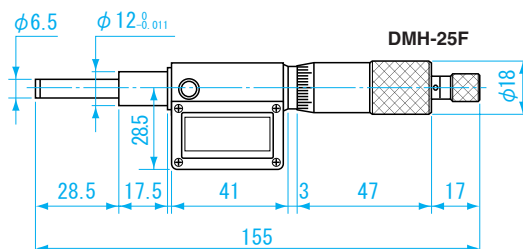
DMH-25F



DMH-25S

DIMENSIONS

Units : mm



■ USE

- Mount on precision equipment or machinery to measure position and feed

■ MATERIAL

- Thimble: Alloy tool steel
- Spindle: High carbon chromium steel

■ FEATURES

- Quick display of measured value
- Measuring range : 0 ~ 25mm
- Auto display off function (after 4 min)
- One SR44 battery included for testing

Order No.	Model No.	Stem	Spindle Dimension (mm)	Stem Dimension (mm)	Spindle Face
151151	DMH-25F	Straight	φ6.5×28.5	φ12×17.5	Flat
151152	DMH-25S	Straight	φ6.5×28.5	φ12×17.5	Spherical (SR4)
Resolution (mm)	Maximum Permissible Error (μm)	Length (mm)	Thimble Diameter (mm)	Weight	
0.001	3	155	18	195g	
0.001	3	155	18	195g	

MICROMETER HEAD



● Measuring Range : 0 ~ 5.0mm



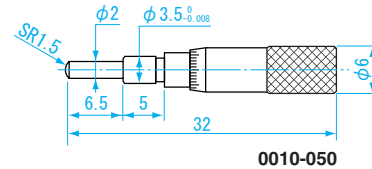
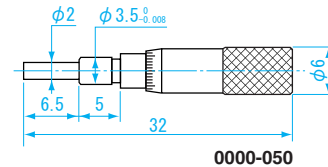
0000-050



0010-050

DIMENSIONS

Units : mm



- USE** • Mount on precision equipment or machinery to measure position and feed
- MATERIAL** • Thimble : Alloy tool steel
• Spindle : High carbon chromium steel
- FEATURES** • Measuring range : 0 ~ 5mm, small and lightweight

Order No.	Model No.	Stem	Spindle Dimension (mm)	Stem Dimension (mm)	Spindle Face	Graduation (mm)	Maximum Permissible Error (μm)	Length (mm)	Thimble Diameter (mm)	Weight
151145	0000-050	Straight	φ2×6.5	φ3.5×5	Flat	0.02	5	32	6	4g
151146	0010-050	Straight	φ2×6.5	φ3.5×5	Spherical (SR1.5)	0.02	5	32	6	4g

MICROMETER HEAD



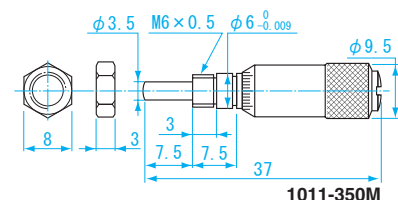
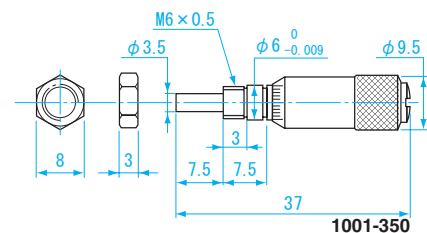
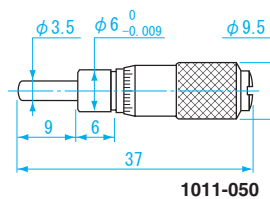
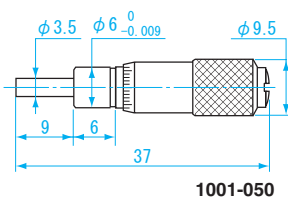
● Measuring Range : 0 ~ 6.5mm



1001-050

DIMENSIONS

Units : mm



- USE** • Mount on precision equipment or machinery to measure position and feed
- MATERIAL** • Thimble : Alloy tool steel
• Spindle : High carbon chromium steel
- FEATURES** • Measuring range : 0 ~ 6.5mm, small and lightweight
• Threaded versions supplied with matching nut

Order No.	Model No.	Stem	Spindle Dimension (mm)	Stem Dimension (mm)	Nut (mm)	Spindle Face	Graduation (mm)	Maximum Permissible Error (μm)	Length (mm)	Thimble Diameter (mm)	Weight
151134	1001-050	Straight	φ3.5×9	φ6×6	—	Flat	0.01	5	37	9.5	10g
151135	1011-050	Straight	φ3.5×9	φ6×6	—	Spherical (SR3)	0.01	5	37	9.5	10g
151136	1001-350	Threaded	φ3.5×7.5	φ6×7.5	8×3	Flat	0.01	5	37	9.5	10g
151150	1011-350M	Threaded	φ3.5×7.5	φ6×7.5	8×3	Spherical (SR3)	0.01	5	37	9.5	10g

MICROMETER HEAD



● Measuring Range : 0 ~ 13mm



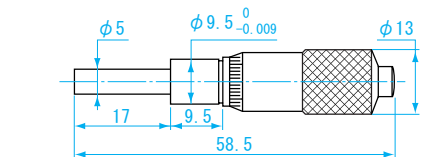
1002-050



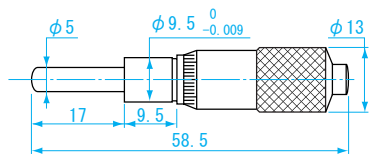
1702-350

DIMENSIONS

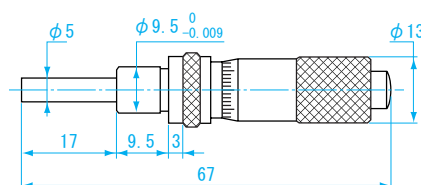
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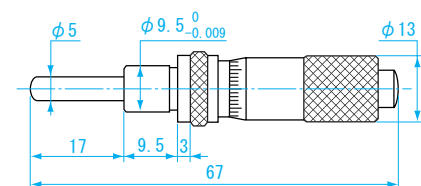
1002-050



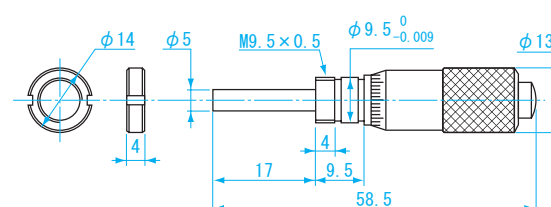
1012-050



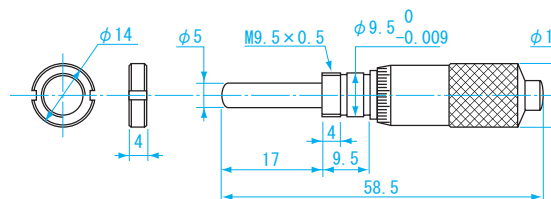
1702-050



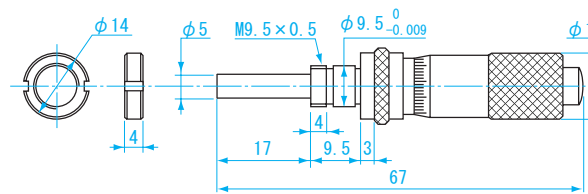
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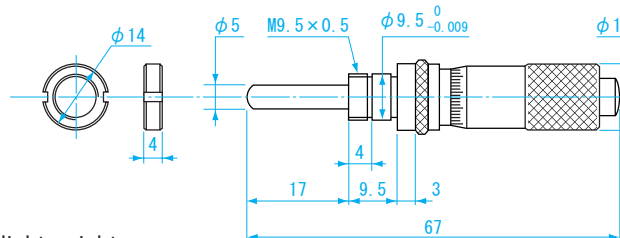
1002-350



1012-350



1702-350



1712-350

USE

- Mount on precision equipment or machinery to measure position and feed

MATERIAL

- Thimble : Alloy tool steel
- Spindle : High Carbon chromium steel

FEATURES

- Measuring range : 0 ~ 13mm, small and lightweight
- Threaded versions supplied with matching nut

Order No.	Model No.	Stem/ Spindle Clamp	Spindle Dimension (mm)	Stem Dimension (mm)	Nut (mm)	Spindle Face	Graduation (mm)	Maximum Permissible Error (μ m)	Length (mm)	Thimble Diameter (mm)	Weight
151110	1002-050	Straight	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	—	Flat	0.01	4	58.5	13	40g
151111	1012-050	Straight	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	—	Spherical (SR4)	0.01	4	58.5	13	40g
151112	1002-350	Threaded	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	14 $\times$ 4	Flat	0.01	4	58.5	13	40g
151113	1012-350	Threaded	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	14 $\times$ 4	Spherical (SR4)	0.01	4	58.5	13	40g
151114	1702-050	Straight with Clamp	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	—	Flat	0.01	4	67	13	40g
151115	1712-050	Straight with Clamp	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	—	Spherical (SR4)	0.01	4	67	13	40g
151116	1702-350	Threaded with Clamp	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	14 $\times$ 4	Flat	0.01	4	67	13	40g
151117	1712-350	Threaded with Clamp	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	14 $\times$ 4	Spherical (SR4)	0.01	4	67	13	40g



● Measuring range : 0 ~ 15mm



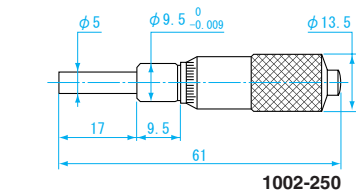
1709-050



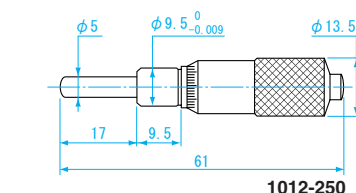
1719-350

DIMENSIONS

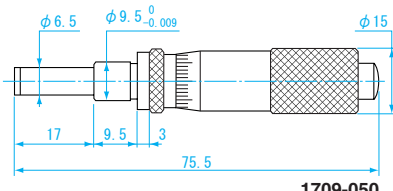
Units : mm



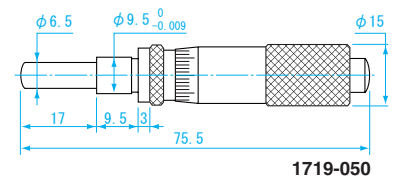
1002-250



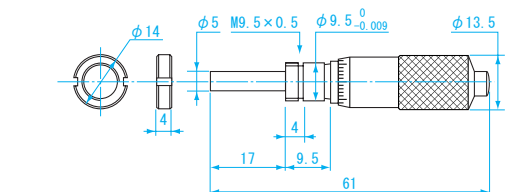
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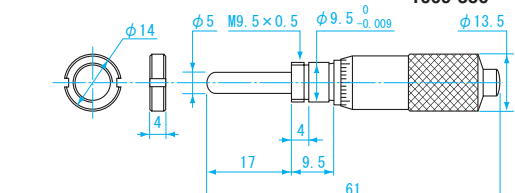
1709-050



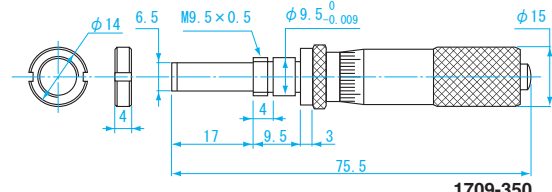
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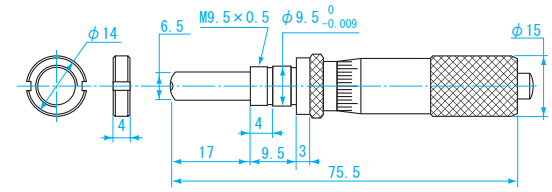
1009-350



1019-350



1709-350



1719-350

USE

- Mount on precision equipment or machinery to measure position and feed

MATERIAL

- Thimble : Alloy tool steel
- Spindle : High carbon chromium steel

FEATURES

- Measuring range : 0 ~ 15mm
- Carbide tipped measuring faces (1709-050, 1709-350, 719-050, 1719-350)
- Threaded versions supplied with matching nut

Order No.	Model No.	Stem/ Spindle Clamp	Spindle Dimension (mm)	Stem Dimension (mm)	Nut (mm)	Spindle Face	Graduation (mm)	Maximum Permissible Error (μ m)	Length (mm)	Thimble Diameter (mm)	Weight
151118	1002-250	Straight	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	—	Flat	0.01	4	61	13.5	60g
151119	1012-250	Straight	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	—	Spherical (SR4)	0.01	4	61	13.5	60g
151120	1009-350	Threaded	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	14 $\times$ 4	Flat	0.01	4	61	13.5	60g
151121	1019-350	Threaded	$\phi 5 \times 17$	$\phi 9.5 \times 9.5$	14 $\times$ 4	Spherical (SR4)	0.01	4	61	13.5	60g
151122	1709-050	Straight / with Clamp	$\phi 6.5 \times 17$	$\phi 9.5 \times 9.5$	—	Flat	0.01	4	75.5	15	60g
151123	1719-050	Straight / with Clamp	$\phi 6.5 \times 17$	$\phi 9.5 \times 9.5$	—	Spherical (SR4)	0.01	4	75.5	15	60g
151124	1709-350	Threaded / with Clamp	$\phi 6.5 \times 17$	$\phi 9.5 \times 9.5$	14 $\times$ 4	Flat	0.01	4	75.5	15	60g
151125	1719-350	Threaded / with Clamp	$\phi 6.5 \times 17$	$\phi 9.5 \times 9.5$	14 $\times$ 4	Spherical (SR4)	0.01	4	75.5	15	60g

MICROMETER HEAD



● Measuring Range : 0 ~ 25mm



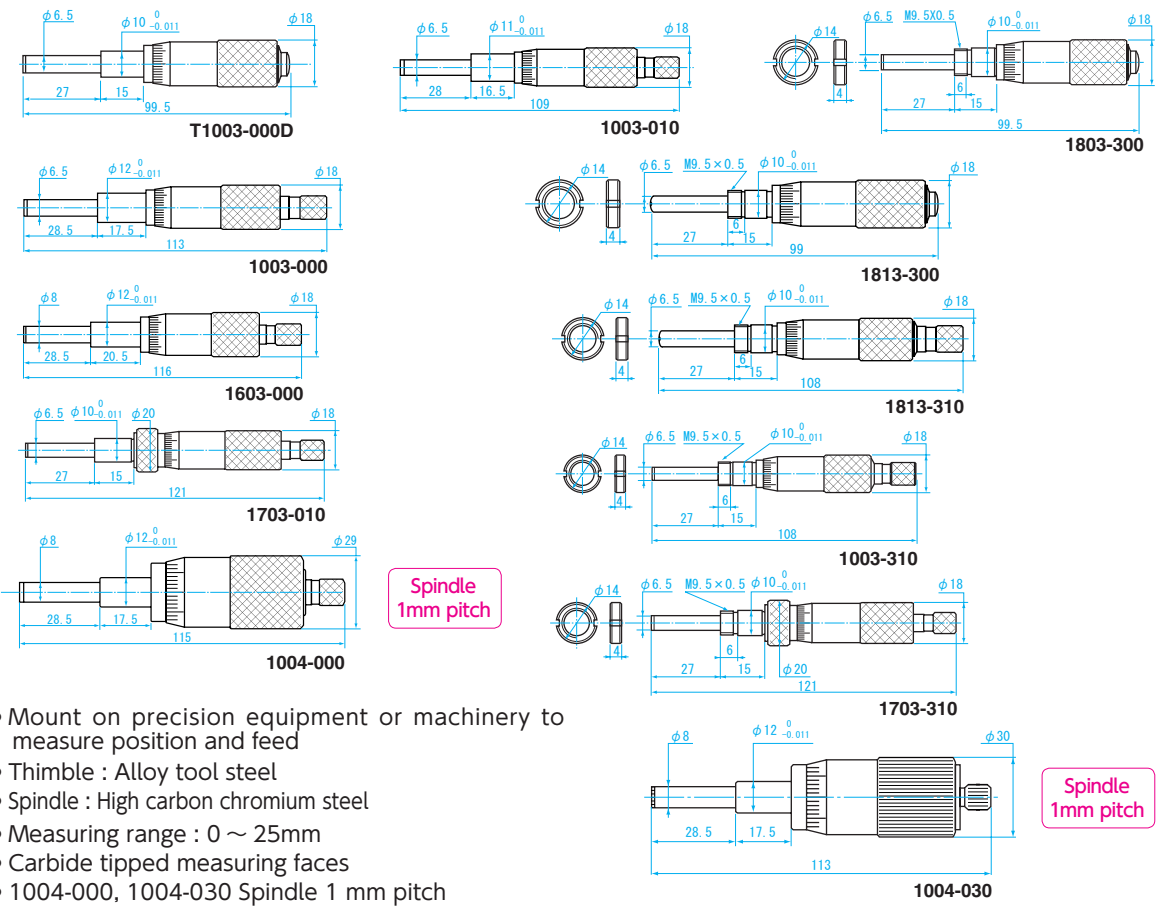
T1003-000D

1813-310

1004-000

DIMENSIONS

Units : mm



USE

- Mount on precision equipment or machinery to measure position and feed

MATERIAL

- Thimble : Alloy tool steel
- Spindle : High carbon chromium steel

FEATURES

- Measuring range : 0 ~ 25mm
- Carbide tipped measuring faces
- 1004-000, 1004-030 Spindle 1 mm pitch
- Threaded versions supplied with matching nut

Order No.	Model No.	Ratchet	Stem / Spindle Clamp	Spindle Dimension (mm)	Stem Dimension (mm)	Nut (mm)	Spindle Face	Graduation (mm)	Maximum Permissible Error (μm)	Length (mm)	Thimble Diameter (mm)	Weight
151138	T1003-000D	None	Straight	φ6.5×27	φ10×15	—	Flat	0.01	3	99.5	18	100g
151126	1003-010	Yes	Straight	φ6.5×28	φ11×16.5	—	Flat	0.01	3	109	18	90g
151139	1803-300	None	Threaded	φ6.5×27	φ10×15	14×4	Flat	0.01	3	99.5	18	100g
151141	1813-300	None	Threaded	φ6.5×27	φ10×15	14×4	Spherical (SR4)	0.01	3	99	18	100g
151140	1813-310	Yes	Threaded	φ6.5×27	φ10×15	14×4	Spherical (SR4)	0.01	3	108	18	100g
151127	1003-000	Yes	Straight	φ6.5×28.5	φ12×17.5	—	Flat	0.01	3	113	18	100g
151128	1603-000	Yes	Straight	φ8×28.5	φ12×20.5	—	Flat	0.01	3	117	18	100g
151129	1003-310	Yes	Threaded	φ6.5×27	φ10×15	14×4	Flat	0.01	3	108	18	100g
151130	1703-010	Yes	Straight / with Clamp	φ6.5×27	φ10×15	—	Flat	0.01	3	121	18	100g
151131	1703-310	Yes	Threaded / with Clamp	φ6.5×27	φ10×15	14×4	Flat	0.01	3	121	18	120g
151133	1004-000	Yes	Straight	φ8×28.5	φ12×17.5	—	Flat	0.01	4	115	29	230g
151132	1004-030	Yes	Straight	φ8×28.5	φ12×17.5	—	Flat	0.01	4	113	30	200g