

Micrometer Head

Micrometer Heads SERIES 148 — Small Thimble Diameter Standard Type

- Measuring range: 13 mm
- The thimble can be set to zero at any position by loosening the setscrew.

SPECIFICATIONS

Metric							
Code No.	Range (mm)	Maximum permissible error J_{MPE} (μm)	Stem dia. (mm)	Stem	Spindle end	Special features	
148-503	0 - 13	± 2	9.5	Plain	Flat	Standard	
148-508				W/clamp nut			
148-506				Plain* ¹			
148-504				W/clamp nut* ¹	Spherical (SR4)		
148-853				Plain			
148-854				W/clamp nut* ¹			
148-863				Plain	Flat	Reverse reading	
148-864				W/clamp nut* ¹	Spherical (SR4)	Standard	
148-858* ²				Plain* ¹		Flat	Reverse reading
148-866* ²				Plain* ¹		Spherical (SR4)	Standard
148-856* ²				W/clamp nut	Flat	Reverse reading	

- Graduation: 0.01 mm
- Spindle pitch: 0.5 mm
- Measuring face: Material/Alloy tool steel, Hardness/60 HRC or more, Lapped
- Scale finishing: Satin-chrome plated

*1 With spindle lock

*2 Made-to-order models

Note: Refer to page 03-49 for details of the recommended maximum loading limit.

Inch						
Code No.	Range (in)	Maximum permissible error J_{MPE} (in)	Stem dia. (in)	Stem	Spindle end	Special features
148-501	0 - 0.5	± 0.0001	0.375	Plain	Flat	Standard
148-507* ²				W/clamp nut		
148-505				Plain* ¹		
148-502				W/clamp nut* ¹	Spherical (SR4)	
148-851				Plain		
148-852				W/clamp nut* ¹		
148-861				Plain	Flat	Reverse reading
148-862				W/clamp nut* ¹		

- Graduation: 0.001 in
- Spindle pitch: 0.025 in
- Measuring face: Material/Alloy tool steel, Hardness/60 HRC or more, Lapped
- Scale finishing: Satin-chrome plated

*1 With spindle lock

*2 Made-to-order models

Note: Refer to page 03-49 for details of the recommended maximum loading limit.

DIMENSIONS

Plain Stem Mass: 35 g Unit: mm

Technical drawing of the **148-503** plain stem micrometer head. The drawing shows a side view with dimensions: total length 50 mm, distance from stem end to spherical face 37 mm, distance from stem end to cap 12 mm, and distance from stem end to reverse reading 25 mm. The stem diameter is $\phi 9.5^{+0.009}$ mm and the spherical face diameter is $\phi 13$ mm. A cap is shown on the right. Callouts include: Plain stem (with a red icon), Spherical face (with a red icon), and Reverse reading (with a red icon). The part number **148-503** is centered below the drawing.

Callouts and components:

- Plain stem
- Spherical face **148-853**
- Reverse reading **148-863**
- SR4 *1

*1 Other dimensions are the same as **148-503**.

Plain Stem and Spindle Lock Mass: 35 g

Technical drawing of the **148-506** plain stem and spindle lock micrometer head. The drawing shows a side view with dimensions: total length 58.6 mm, distance from stem end to spherical face 45.6 mm, distance from stem end to cap 12 mm, and distance from stem end to reverse reading 25 mm. The stem diameter is $\phi 9.5^{+0.009}$ mm and the spherical face diameter is $\phi 15$ mm. A spindle lock is shown on the right. Callouts include: Plain stem (with a red icon), Spherical face (with a red icon), and Reverse reading (with a red icon). The part number **148-506** is centered below the drawing.

Callouts and components:

- Plain stem
- Spherical face **148-856**
- Reverse reading **148-866**
- SR4 *2

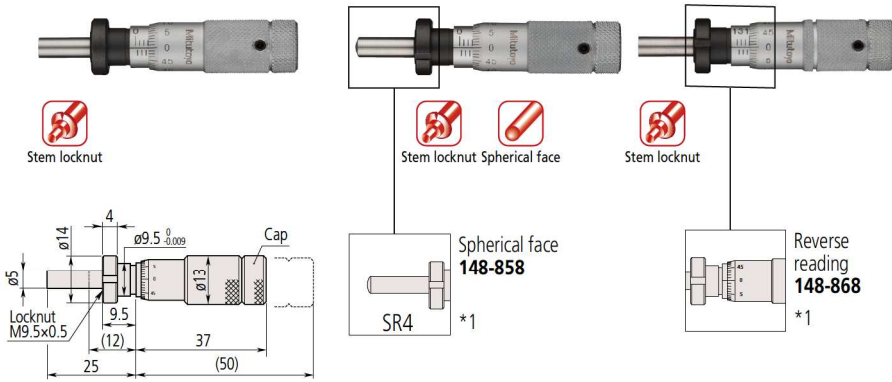
*2 Other dimensions are the same as **148-506**.
() : with spindle fully retracted.

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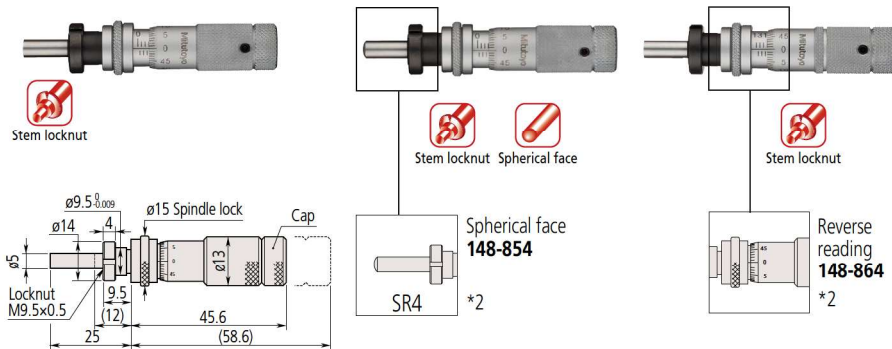
DIMENSIONS

Stem Locknut Mass: 40 g Unit: mm



*1 Other dimensions are the same as **148-508**.

Stem Locknut and Spindle Lock Mass: 40 g



*2 Other dimensions are the same as **148-504**.

() : with spindle fully retracted.