

Technical Data

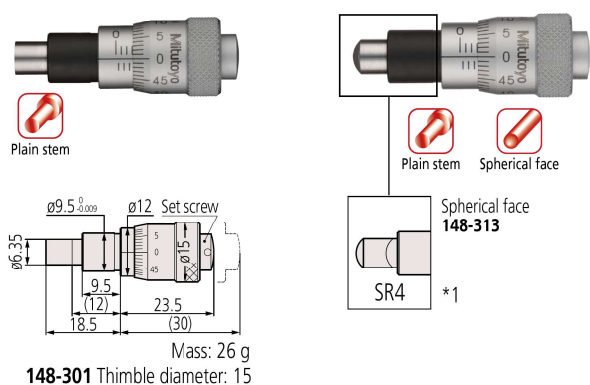
- Graduation: 0.01 mm or 0.001 in
- Spindle pitch: 0.5 mm or 0.025 in
- Measuring face
Material: Alloy tool steel
Hardness: 60 HRC or more
Lapped
- Scale finishing:
Satin-chrome plated

DIMENSIONS

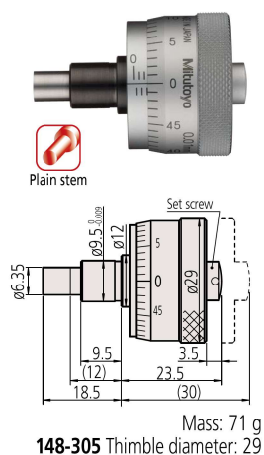
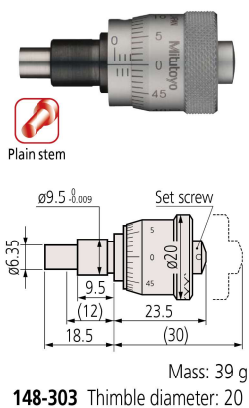
Micrometer Heads SERIES 148 — Short Thimble with Choice of Diameter

- Short body design maintains measuring stroke for limited space applications.
- Available in three thimble diameters to provide ease-of-reading options.

Plain Stem

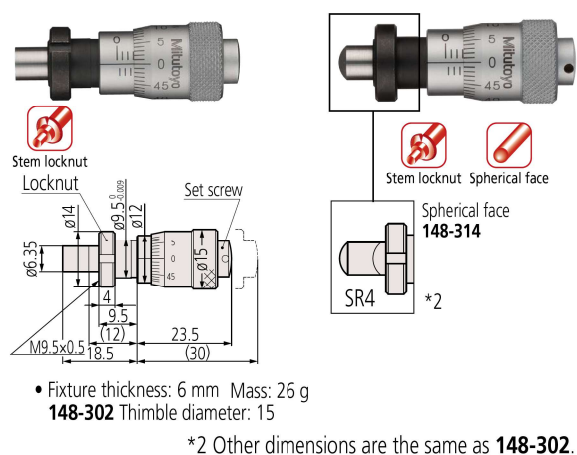


*1 Other dimensions are the same as 148-301.

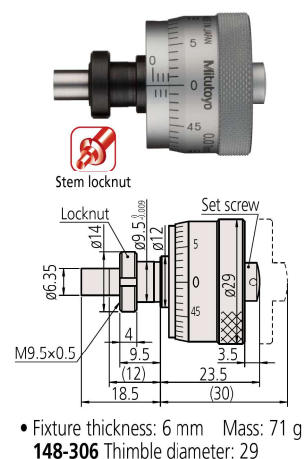
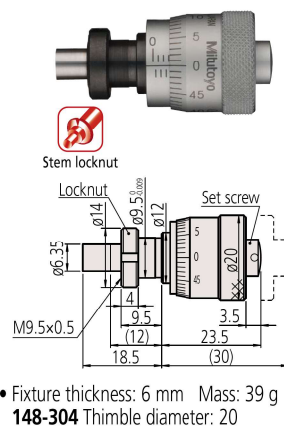


Stem Locknut

Unit: mm



*2 Other dimensions are the same as 148-302.



(): with spindle fully retracted.

Micrometer Head

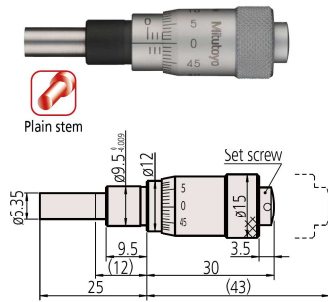
The origin of Mitutoyo's trustworthy brand of small tool instruments

Micrometer Heads

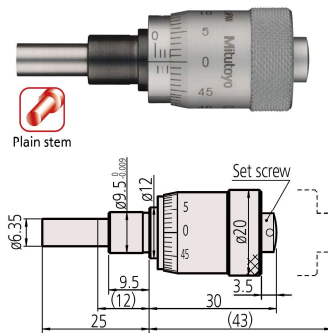
SERIES 148 — Short Thimble with Choice of Diameter

DIMENSIONS

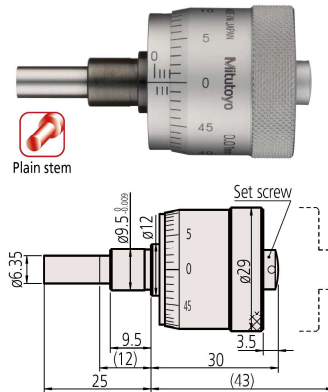
Plain Stem



Mass: 35 g
148-307 Thimble diameter: 15



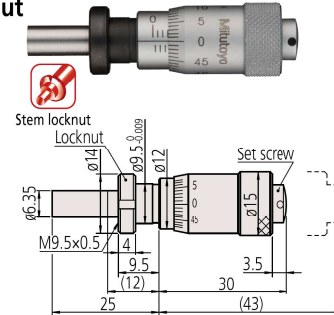
Mass: 55 g
148-309 Thimble diameter: 20



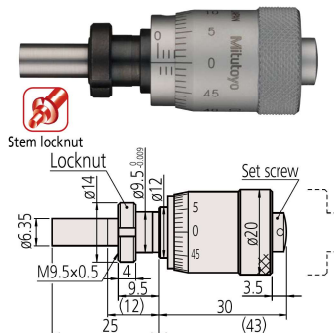
Mass: 103 g
148-311 Thimble diameter: 29

Stem Locknut

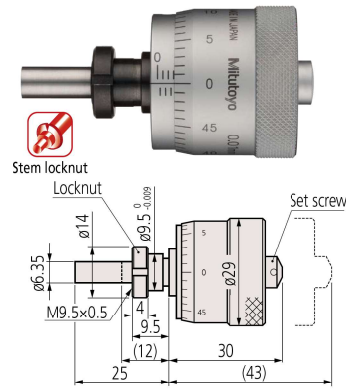
Unit: mm



• Fixture thickness: 6 mm Mass: 35 g
148-308 Thimble diameter: 15



• Fixture thickness: 6 mm Mass: 55 g
148-310 Thimble diameter: 20



• Fixture thickness: 6 mm Mass: 103 g
148-312 Thimble diameter: 29
(): with spindle fully retracted.

SPECIFICATIONS

Metric							
Order No.	Stroke (mm)	Maximum permissible error J_{MPE} (μm)	Stem dia. (mm)	Stem	Spindle end	Special features	
148-301	6.5	±2	9.5	Plain	Flat	15 mm thimble dia	
148-302				W/clamp nut			
148-303				Plain		20 mm thimble dia	
148-304				W/clamp nut	Spherical (SR4)		
148-305				Plain		29 mm thimble dia	
148-306				W/clamp nut			
148-313	13				Plain	Spherical (SR4)	15 mm thimble dia
148-314				W/clamp nut			
148-307				Plain	Flat		15 mm thimble dia
148-308				W/clamp nut			
148-309				Plain		20 mm thimble dia	
148-310					W/clamp nut		
148-311				Plain	Flat		20 mm thimble dia
148-312				W/clamp nut			29 mm thimble dia

Inch								
Order No.	Stroke (in)	Maximum permissible error J_{MPE} (in)	Stem dia. (in)	Stem	Spindle end	Special features		
148-351	0.25	± 0.0001	0.375	Plain	Flat	0.59 in thimble dia.		
148-352				W/clamp nut				
148-353				Plain		0.79 in thimble dia.		
148-354				W/clamp nut				
148-355				Plain		1.14 in thimble dia.		
148-356				W/clamp nut				
148-357	0.5					Plain		0.59 in thimble dia.
148-358				W/clamp nut				
148-359				Plain		0.79 in thimble dia.		
148-360				W/clamp nut				
148-361				Plain		1.14 in thimble dia.		
148-362				W/clamp nut				