Spindle Pitch



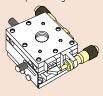


Pitch=0.1 mm

Pitch=0.5 mm

Typical Applications

- Semiconductor-wafer positioning machinery and optical component alignment units, etc.
- Precision X-Y table positioning



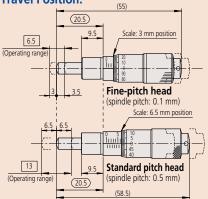
• Precision adjustment of mirror in holder



Precision adjustment of mirror in holder



Comparison of Mounting Dimensions Between a Fine-pitch Head and a Standard-pitch Head at the Mid-range Travel Position.



Note: While the fine-pitch micrometer head has a measuring range of 6.5 mm, the standard head has a larger range of 13 mm.

When replacing a standard head, the fine-pitch type can use the common range in the middle of the spindle travel. The standard and compact types of fine-pitch head are otherwise completely interchangeable.

Micrometer Heads SERIES 148 — Fine Spindle Feed of 0.1 mm/rev

 Fine spindle feeding of just 0.1 mm/rev (one fifth compared with standard model).
Suitable for extra-fine adjustment and positioning.

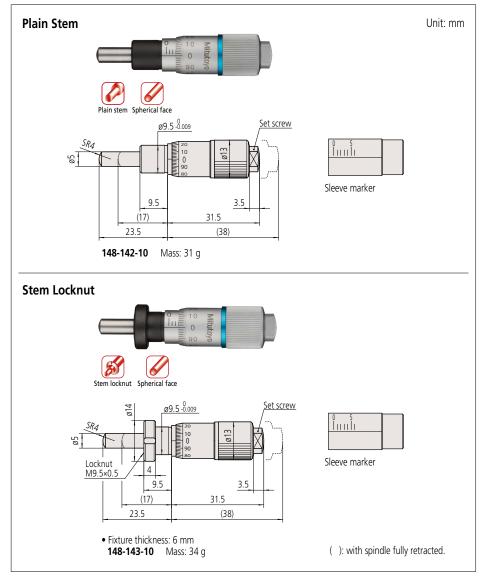
- External dimensions are compatible with standard 0.5 mm pitch heads.
- Suitable for the fine feeding of precision stages on semiconductor equipment and optical-axis alignment device.

SPECIFICATIONS

	Metric	ı							
	Code No.	Range (mm)	Graduation (mm)	Stem dia. (mm)	Stem	Spindle end	Spindle pitch (mm)	Maximum permissible error J _{MPE} (μm)	Special features
	148-142-10	0 - 6.5	0.002	9.5	Plain	(SR4)	0.1	±2	_
	148-143-10				W/clamp nut				
	148-342-10				Plain				Thicker & shorter
	148-343-10				W/clamp nut				thimble
_	148-242-10			6	Plain	Spherical		±5	Small thimble diameter
_	148-243-10				W/clamp nut	(SR3)			
_	148-244		0.004	3.5	Plain	Spherical			
	148-245				W/clamp nut	(SR1.5)			

- Measuring face: Material/Alloy tool steel, Hardness/60 HRC or more, Lapped
- Scale finishing: Satin-chrome plated

DIMENSIONS





Micrometer Heads SERIES 148 — Fine Spindle Feed of 0.1 mm/rev

DIMENSIONS

