Micrometer Heads, J-MHF2 and CF2 Differential, ACSM 25 mm Standard

Model Micrometer · waveqvanta.com/products/micrometer-heads



Differential and standard micrometer heads for driving and replacing actuators on manual stages.

This range covers differential micrometer heads with separate coarse and fine thimbles and ACSM standard micrometer heads for manual positioning stages. The differential models give 13 mm coarse travel plus 0.2 mm fine travel with 0.0005 mm minimum reading. The ACSM models offer 25 mm travel with 0.5 mm pitch and 0.01 mm reading, with a flat or spherical end.

Key features

- Differential models J-MHF2-13, J-MHF2-13F and CF2-13F with coarse-feed and fine-feed thimbles
- Coarse adjustment: 13 mm travel, 0.5 mm pitch, 0.01 mm reading
- Fine adjustment: 0.2 mm travel, 0.025 mm pitch, 0.0005 mm reading
- Differential mounting Φ9.5 × 11 mm (J-MHF2-13) or Φ9.5 × 5.5 mm (J-MHF2-13F, CF2-13F)
- ACSM25-1 (flat end) and ACSM25-2 (spherical end) with 25 mm travel
- ACSM mounting: Φ11 mm diameter, 16.5 mm length

Specifications

Differential Models	J-MHF2-13, J-MHF2-13F, CF2-13F
Differential Travel	13 mm coarse; 0.2 mm fine
Differential Minimum Reading	0.01 mm coarse; 0.0005 mm fine
Differential Screw Pitch	0.5 mm coarse; 0.025 mm fine
Differential Mounting Dimension	Φ9.5 × 11 mm (J-MHF2-13); Φ9.5 × 5.5 mm (J-MHF2-13F, CF2-13F)
Differential Mounting Nut	M9.5 × 0.5
Standard Models	ACSM25-1 (flat end), ACSM25-2 (spherical end)
Standard Travel	25 mm
Standard Pitch	0.5 mm
Standard Minimum Reading	0.01 mm
Standard Mounting Diameter	Φ11 mm
Standard Mounting Length	16.5 mm
Standard Overall Length	97 mm (ACSM25-1); 99.6 mm (ACSM25-2)

Model overview

Model	Type	Travel (mm)	Min. Reading (mm)	Pitch (mm)	Mounting (mm)	End Surface	Overall Length (mm)
J-MHF2-13	Differential	13 / 0.2	0.01 / 0.0005	0.5 / 0.025	Φ9.5 × 11	—	—
J-MHF2-13F	Differential	13 / 0.2	0.01 / 0.0005	0.5 / 0.025	Φ9.5 × 5.5	—	—
CF2-13F	Differential	13 / 0.2	0.01 / 0.0005	0.5 / 0.025	Φ9.5 × 5.5	—	—
ACSM25-1	Standard	25	0.01	0.5	Φ11 × 16.5	Flat	97
ACSM25-2	Standard	25	0.01	0.5	Φ11 × 16.5	Spherical	99.6

Typical applications

- Actuators for manual linear, vertical and tilt stages
- Fine adjustment of optical mounts
- Replacement micrometers for manual positioners