

Micrometer Head

Micrometer Heads SERIES 110 — Differential Screw Thread Translator (Extra-fine Feed) Type

- Differential movements of spindle threads and units allow extra-fine spindle feeding (0.05 mm/rev), resulting in high-resolution measurements.

SPECIFICATIONS

Metric					
Code No.	Range (mm)		Graduation (mm)		Graduation features
110-101	0 - 2.5		0.001		Standard
110-102			0.0001		Fine
110-105-10	0 - 1		0.001		Standard
110-106-10			0.0001		Fine
110-107-10			0.001		Standard
110-108-10			0.0001		Fine
110-502-10	Thimble (fine)	0 - 0.2	Thimble (fine)	0.0005	Dual scales; 0.2 mm fine-feed range
	Thimble (coarse)	0 - 13	Thimble (coarse)	0.01	

Code No.	Stem dia. (mm)	Stem	Spindle end	Maximum permissible error J_{MPE}^{*2} (μm)
110-101	12	W/clamp nut	Flat (carbide tip)	±5/±1.5
110-102				±3/±1.5
110-105-10				
110-106-10				
110-107-10				
110-108-10			Spherical (SR10) (carbide tip)	
110-502-10	9.5		Spherical	±3/±1.5

Inch					
Code No.	Range (in)		Graduation (in)		Graduation features
110-111	0 - 0.05		0.00002		Standard
110-112			0.000005		Fine
110-115-10*1	0 - 0.02		0.00002		Standard
110-116-10*1			0.000005		Fine
110-117-10*1			0.00002		Standard
110-118-10*1			0.000005		Fine
110-504-10	Thimble (fine)	0 - 0.006	Thimble (fine)	0.00002	Dual scales; 0.2 mm/0.006 in fine-feed range
	Thimble (coarse)	0 - 0.5	Thimble (coarse)	0.001	

Code No.	Stem dia. (in)	Stem	Spindle end	Maximum permissible error J_{MPE}^{*2} (in)
110-111	0.5	W/clamp nut	Flat (carbide tip)	±0.00025/±0.00006
110-112				±0.00015/±0.00006
110-115-10*1				
110-116-10*1				
110-117-10*1				
110-118-10*1			Spherical (SR10) (carbide tip)	
110-504-10	0.375		Spherical	±0.00015/±0.00006

- Measuring face: Material/Carbide tip (**110-502-10/504-10** are alloy tool steel), Hardness/90 HRA or more (Only **110-502-10/504-10** are 60 HRC or more), Lapped

- Scale finishing: Satin-chrome plated

*1 Made-to-order models

*2 Wide range/narrow range