

Micrometer Head

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

Micrometer Heads SERIES 152 — XY-Stage Type

- Micrometer heads especially designed for accurate cross-travel stage translation in X and Y axes.

DIMENSIONS

Technical Data

- Measuring face
Material: Carbide
(152-389/390/391/392 are alloy tool steel)
Hardness: 90 HRA or more
(152-389/390/391/392 are 60 HRC or more)
Lapped
- Scale finishing:
White anodized aluminum

152-390 Mass: 270 g

- The thimble can be rotated to a better reading position while maintaining the spindle position.

152-389

*1 Other dimensions are the same as 152-390.

152-402 Mass: 460 g

Length of A: 0 to 6 A=6 in the drawing above.

- The zero-setting ring allows spindle movement without thimble position change for easy zero setting.

152-401

*2 Other dimensions are the same as 152-402.
(): with spindle fully retracted.

SPECIFICATIONS

Metric							
Order No.	Range (mm)	Graduation (mm)	Graduation features	Stem dia. (mm)	Stem	Spindle pitch (mm)	Maximum permissible error J_{MPE} (μ m)
152-390	0 - 25	0.005	for Y axis, bidirectional	18	Plain	1	± 2
152-389							
152-402		0.001 Vernier graduation	for Y axis, with Vernier				
152-401							
Inch							
Order No.	Range (in)	Graduation (in)	Graduation features	Stem dia. (in)	Stem	Spindle pitch (in)	Maximum permissible error J_{MPE} (in)
152-392	0 - 1	0.0001	for Y axis, bidirectional	0.709	Plain	0.025	± 0.0001
152-391							