

# 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.

Unit: mm

**No.152-389**

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

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Length of A: 0 to 6 A = 6 in the drawing above.  
**152-402** Mass: 460 g

- 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.	Stroke (mm)	Graduation (mm)	Accuracy (μm)	Stem dia. (mm)	Stem	Spindle pitch (mm)	Graduation features
152-390	25	0.005	±2	18	Plain	1	for Y-axis, bidirectional
152-389		0.001					for Y-axis, with Vernier
152-402		Vernier graduation					
152-401							

#### Inch

Order No.	Stroke (in)	Graduation (in)	Accuracy (in)	Stem dia. (in)	Stem	Spindle pitch (in)	Graduation features
152-392	1	0.0001	±0.0001	0.709	Plain	0.025	for Y-axis, bidirectional
152-391							