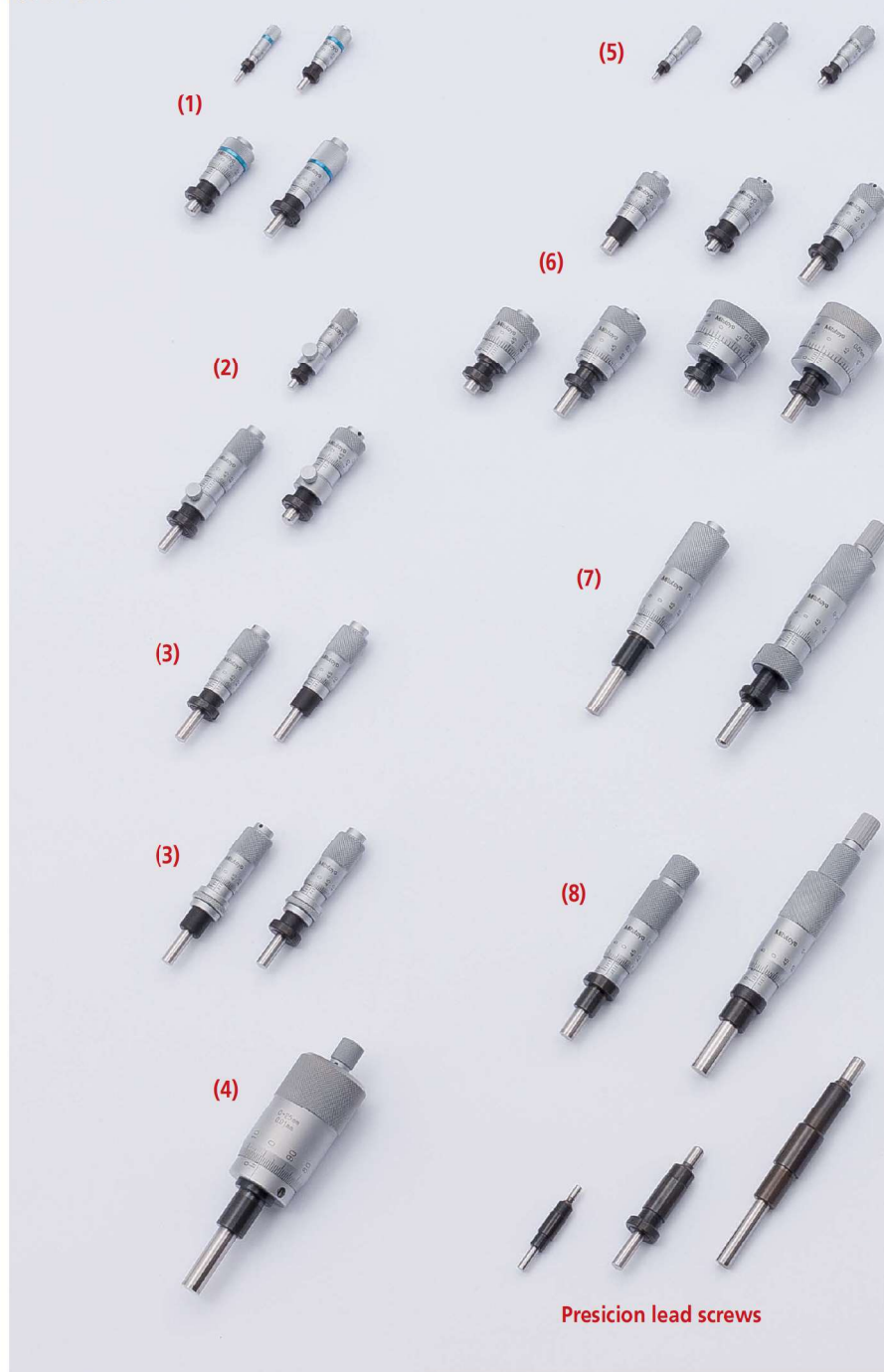


# Micrometer Head Selection Guide

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

## SELECTION TABLE

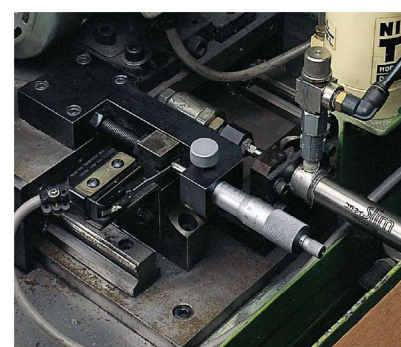
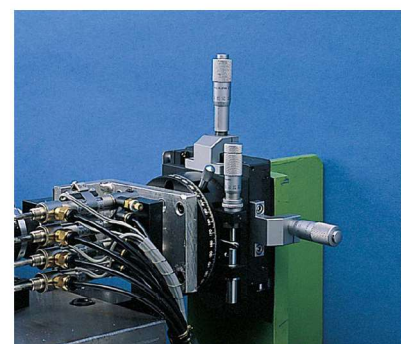
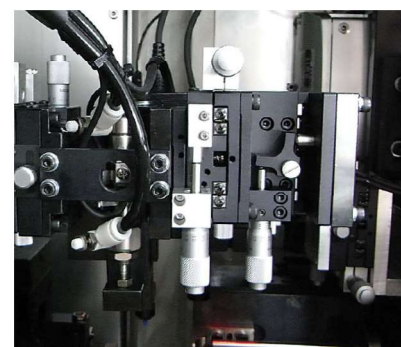
Mounted on measuring instruments and precision instruments, micrometer heads are used for various purposes including measurement, feeding and positioning. Recent developments in technology have seen the micrometer head widely utilized in precise feeding devices and cross-travel stages on laser instruments and manipulators, in addition to the usual duties on measurement jigs. In parallel with the application expansion, the customer's needs have increased. To meet customer demands, Mitutoyo provides standard micrometer heads with different measuring ranges, stem type and body size. Furthermore, high-performance types of Digimatic Micrometer Head, 0.1 mm spindle-pitch models (standard 0.5 mm), etc., are now available for the new applications. Mitutoyo also provides customization services for special applications. Micrometer heads with customized spindle tips and precision leadscrews manufactured to customer specification can be offered even in one-off quantities.



Precision lead screws

Also refer to "Quick Guide to Precision Measuring Instruments" from page B-113.

Measuring stroke	Main feature of head		Series	Page
1 mm/0.02 in	High-Function	Differential Screw Translator (Extra-Fine Feed) Type	110	B-104
2.5 mm/0.05 in	High-Function	Differential Screw Translator (Extra-Fine Feed) Type (11)		B-104
5 mm/0.2 in	High-Function	Fine Spindle Feed of 0.1 mm/rev (1)	148	B-101 to B-102
	Standard	Small/Ultra-small Type (5)		B-80 to B-81
6.5 mm/0.25 in	Standard	Locking-screw Type (2)		B-96 to B-98
	High-Function	Fine Spindle Feed of 0.1 mm/rev (1)		B-101 to B-102
	High-Function	Fine Spindle Feed of 0.25 mm/rev		B-103
	Standard	Small/Ultra-small Type (5)		B-80 to B-81
	Standard	Short Thimble with Choice of Diameter (6)		B-82 to B-83
	Standard	Large Thimble Type (13)		B-105 to B-106
10 mm	High-Function	Large Thimble Type (13)	152	B-105 to B-106
13 mm/0.5 in	Standard	Locking-screw Type (2)	148	B-96 to B-98
	Standard	Fine Spindle Feed of 0.25 mm/rev	148	B-103
	High-Function	Differential Screw Translator (Extra-Fine Feed) Type (11)	110	B-104
	High-Function	Short Thimble with Choice of Diameter (6)	148	B-82 to B-83
	Standard	Small Standard Type (3)		B-84 to B-85
	Standard	Small Thimble Diameter Standard Type (10)		B-86 to B-87



Measuring stroke	Main feature of head			Series	Page
15 mm/0.5 in	High-Function	Non-rotating Spindle Type	(8)	153	B-99
	High-Function	Quick Spindle Feed of 1 mm/rev	(4)	152	B-100
	Standard	Small Standard Type with Carbide-Tipped Spindle	(9)	149	B-88 to B-89
25 mm/1 in	Digimatic			350	B-77 to B-79
	High-Function	Non-rotating Spindle Type	(8)	153	B-99
		Quick Spindle Feed of 1 mm/rev		152	B-100
		Large Thimble Type			B-105 to B-106
		XY-Stage Type	(14)		B-107
		High Accuracy and Resolution		153	B-108
		Digit Counter Type		250	B-109
	Standard	Medium-sized Standard Type	(7)	150	B-90 to B-92
50 mm/2 in		Medium-sized Standard Type with 8 mm Diameter Spindle		151	B-93 to B-95
	Digimatic		(15)	164	B-77 to B-79
	High-Function	Quick Spindle Feed of 1 mm/rev		152	B-100
		Large Thimble Type			B-105 to B-106
	Standard	Long Stroke Non-rotating Spindle		197	B-108
60 - 75 mm	Micro Jack	Medium-sized Standard Type with 8 mm Diameter Spindle	(12)	151	B-93 to B-95
				7	B-109