V-Anvil Micrometers
SERIES 114 — 3 Flutes and 5 Flutes

- Measures the outside diameter of cutting tools (such as taps, reamers, end mills) with an odd number of flutes.
- Measures pitch diameter: refer to "Quick Guide to Precision Measuring Instruments" on page 13-8.
- Measuring faces: Carbide tipped
- Equipped with Ratchet Stop for constant measuring force.



114-121

SPECIFICATIONS

Metric For 3-flute cutting tools

Code No.	Range (mm)	Graduation (mm)	Maximum permissible error J_{MPE} (µm)	Anvil	Remarks
Analog Anvil, Spindle (With carbide tip)					
114-204	2.3 - 25	0.01	±4	60°	—
Analog Spindle (With carbide tip)					
114-101	1 - 15	0.01	±4	60°	w/groove
114-102	10 - 25				
114-103	25 - 40		±5		—
114-104	40 - 55		±6		—
114-105	55 - 70				—
114-106	70 - 85		±7		—
114-107	85 - 100				—
114-108	100 - 115		±8		—
114-109	115 - 130		±9		—
114-110	130 - 145				—
114-161	1 - 15		±4		—
114-162	10 - 25				—

Inch For 3-flute cutting tools

Code No.	Range (in)	Graduation (in)	Maximum permissible error J_{MPE} (in)	Anvil	Remarks
Analog Anvil, Spindle (With carbide tip)					
114-202	0.09 - 1	0.0001	±0.0002	60°	—
Analog Spindle (With carbide tip)					
114-163	0.05 - 0.6	0.001	±0.0002	60°	—
114-113	1 - 1.6		±0.00025		—
114-114	1.6 - 2.2		±0.0003		—

Metric For 5-flute cutting tools

Code No.	Range (mm)	Graduation (mm)	Maximum permissible error J_{MPE} (µm)	Anvil	Remarks
Analog Anvil, Spindle (With carbide tip)					
114-137	2.3 - 25	0.01	±4	108°	—
Analog Spindle (With carbide tip)					
114-121	5 - 25	0.01	±4	108°	w/groove
114-122	25 - 45		±5		—
114-123	45 - 65		±6		—
114-124	65 - 85		±7		—
114-165	5 - 25		±4		—

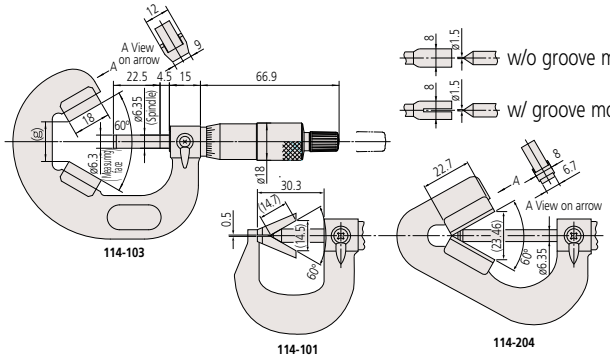
Inch For 5-flute cutting tools

Code No.	Range (in)	Graduation (in)	Maximum permissible error J_{MPE} (in)	Anvil	Remarks
Analog Anvil,Spindle (With carbide tip)					
114-135	0.09 - 1	0.0001	±0.0002	108°	—

- Flatness: 0.6 µm/0.000024 in (Spindle), 1.3 µm/0.000052 in (Anvil)
- Standard accessories: Spanner (**301336**), 1 pc. (for **114-204**, **202**, **101**, **102**, **103**, **104**, **161**, **162**, **163**, **113**, **114**, **137**, **135**, **121**, **122**, **165**)
  Spanner (**200877**), 1 pc. (for **114-105**, **106**, **107**, **108**, **109**, **110**, **123**, **124**)
  Setting Standards for V-Anvil Micrometer

DIMENSIONS

Unit: mm



For 3-flute cutting tools

Range (mm)	(g)
10 - 25	6.2
25 - 40	19.14
40 - 55	32.13
55 - 70	45.12
70 - 85	58.11

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