

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		± 5		—
114-103	25 - 40		± 6		—
114-104	40 - 55		± 7		—
114-105	55 - 70		± 8		—
114-106	70 - 85		± 9		—
114-107	85 - 100		± 4		—
114-108	100 - 115		—		—
114-109	115 - 130		—		—
114-110	130 - 145		—		—
114-161	1 - 15		—		—
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	0.093 - 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	0.093 - 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

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

For 3-flute cutting tools