

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

- Measures the outside diameter of taps and reamers with an odd number of flutes.
- Measures pitch diameter: refer to “Quick Guide to Precision Measuring Instruments” on page B-80.
- Measuring faces: Carbide.
- Equipped with Ratchet Stop for constant measuring force.



114-121

### SPECIFICATIONS

Metric For 3-flute cutting tools							
Order No.	Range (mm)	Graduation (mm)	Maximum permissible error $J_{MPE}$ ( $\mu\text{m}$ )	Anvil	Remarks		
Analog Anvil, Spindle (With carbide tip)							
114-204	2.3 - 25	0.01	$\pm 4$	60°	—		
Analog Spindle (With carbide tip)							
114-101	1 - 15		$\pm 4$		w/groove		
114-102	10 - 25		$\pm 5$		—		
114-103	25 - 40		$\pm 6$		—		
114-104	40 - 55		$\pm 7$		—		
114-105	55 - 70		$\pm 7$		—		
114-106	70 - 85		$\pm 7$		—		
114-161	1 - 15		$\pm 4$		—		
114-162	10 - 25		$\pm 4$		—		

Inch For 3-flute cutting tools						
Order 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	$\pm 0.0002$	60°	—	
Analog Spindle (With carbide tip)						
114-163	0.05 - 0.6	0.001	$\pm 0.0002$		—	
114-113	1 - 1.6		$\pm 0.00025$		—	
114-114	1.6 - 2.2		$\pm 0.0003$	—		

Metric For 5-flute cutting tools							
Order No.	Range (mm)	Graduation (mm)	Maximum permissible error $J_{MPE}$ ( $\mu\text{m}$ )	Anvil	Remarks		
Analog Anvil, Spindle (With carbide tip)							
114-137	2.3 - 25	0.01	$\pm 4$	108°	—		
Analog Spindle (With carbide tip)							
114-121	5 - 25		$\pm 4$		w/groove		
114-122	25 - 45		$\pm 5$		—		
114-123	45 - 65		$\pm 6$		—		
114-124	65 - 85		$\pm 7$		—		
114-165	5 - 25		$\pm 4$		—		

Inch For 5-flute cutting tools					
Order 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	$\pm 0.0002$	108°	—

- Flatness: 0.6  $\mu\text{m}$ /0.000024 in (Spindle), 1.3  $\mu\text{m}$ /0.000052 in (Anvil)
- Standard accessories: Spanner (301336), 1 pc. (for 114-204, 101, 102, 103, 104, 161, 162, 114-137, 121, 122)  
Spanner (200877), 1 pc. (for 114-105, 106, 114-123, 124, 165)  
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