

V-Anvil Micrometers

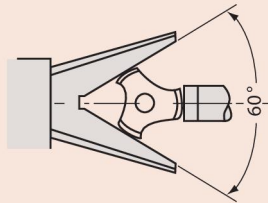
Series 114

This V-Anvil Micrometer helps you measure cutting tools and taps. It offers the following benefits:

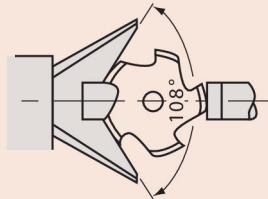
- It measures the outside diameter of cutting tools (such as taps, reamers, end mills) which have three or five flutes.
- V-anvils with a centreline groove are available for measuring the pitch diameter of taps by the single-wire method.

Specifications

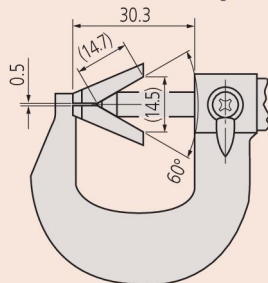
Measuring face	Prism angle 60°/108°
Measuring spindle	With spindle lock, ø6,35 mm, spindle pitch 0,75 mm
Delivered	Including box, setting standard, key



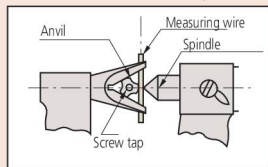
For 3-flute cutting tools



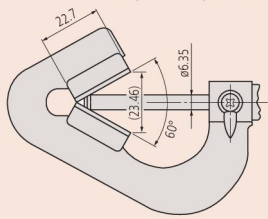
For 5-flute cutting tools



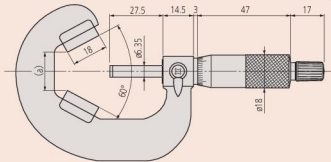
114-101, 114-161



For 114-101, 114-102, 114-121



114-204



114-102 to 114-110



114-102



114-121

Metric

For 3-flute cutting tools (60°)

No.	Range [mm]	Maximum Permissible Error J MPE	Graduation	Measuring force [N]	Setting standard	Remarks	Mass [g]	a [mm]
114-101	1 - 15	±4 µm	0,01 mm	5-10	167-327 ø 5 mm	With groove	120	0,5
114-161	1 - 15	±4 µm	0,01 mm	5-10	167-327 ø 5 mm	-	120	0,5
114-204	2.3 - 25	±4 µm	0,01 mm	5-10	167-327 ø 5 mm	-	290	0,5
114-102	10 - 25	±4 µm	0,01 mm	5-10	167-328 ø 10 mm	With groove	280	6,2
114-162	10 - 25	±4 µm	0,01 mm	5-10	167-328 ø 10 mm	-	280	6,2
114-103	25 - 40	±5 µm	0,01 mm	5-10	167-329 ø 25 mm	-	400	19,14
114-104	40 - 55	±6 µm	0,01 mm	5-10	167-330 ø 40 mm	-	465	32,13
114-105	55 - 70	±6 µm	0,01 mm	5-10	167-331 ø 55 mm	-	675	45,12
114-106	70 - 85	±7 µm	0,01 mm	5-10	167-332 ø 70 mm	-	910	58,11
114-107	85 - 100	±7 µm	0,01 mm	5-10	167-333 ø 85 mm	-	1160	71,1
114-108	100 - 115	±8 µm	0,01 mm	5-10	167-334 ø 100 mm	-	1480	84,1
114-109	115 - 130	±8 µm	0,01 mm	5-10	167-335 ø 115 mm	-	2080	97,09
114-110	130 - 145	±9 µm	0,01 mm	5-10	167-336 ø 130 mm	-	2880	110,1

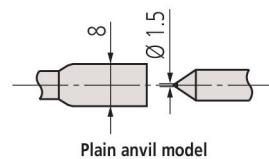
114-204, 114-137: carbide-tipped anvil and spindle
others: carbide tipped spindle

Metric

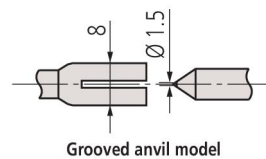
For 5-flute cutting tools (108°)

No.	Range [mm]	Maximum Permissible Error J MPE	Graduation	Measuring force [N]	Setting standard	Remarks	Mass [g]
114-121	5 - 25	±4 µm	0,01 mm	5-10	167-327 ø 5 mm	With groove	255
114-165	5 - 25	±4 µm	0,01 mm	5-10	167-327 ø 5 mm	-	255
114-137	2.3 - 25	±4 µm	0,01 mm	5-10	167-327 ø 5 mm	-	220
114-122	25 - 45	±5 µm	0,01 mm	5-10	167-329 ø 25 mm	-	400
114-123	45 - 65	±6 µm	0,01 mm	5-10	167-331 ø 55 mm	-	540
114-124	65 - 85	±7 µm	0,01 mm	5-10	167-332 ø 70 mm	-	760

114-204, 114-137: carbide-tipped anvil and spindle
others: carbide tipped spindle



Plain anvil model



Grooved anvil model