

Micrometer

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

V-Anvil Micrometers SERIES 314, 114 — 3 Flutes and 5 Flutes

MeasurLink® ENABLED

Data Management Software by Mitutoyo

- 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-72.
- Measuring faces: Carbide.
- Equipped with Ratchet Stop for constant measuring force.









MeasurLink® ENABLED

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

Technical Data

- Flatness: (series 114) 0.6 µm/0.000024 in (Spindle) 1.3 µm/0.000052 in (Anvil) (series 314) 0.3 µm/0.000012 in (Spindle) 1.0 µm/0.00004 in (Anvil)
- Battery for series 314
 SR44 (1 pc.), 938882, for initial operational checks (standard accessory)
- Battery life: Approx. 2.4 years under normal use (for series 314)
- Length standard: Electromagnetic rotary sensor (for **series 314**)
- Standard accessories: Reference bar, 1 pc. Spanner (301336), 1 pc.

Optional Accessories

- Connecting cables for series 314 1 m: 05CZA662 2 m: 05CZA663
- USB Input Tool Direct
- USB-ITN-B (2 m): 06AFM380B

 U-WAVE-T dedicated connection cable 160 mm: 02AZD790B

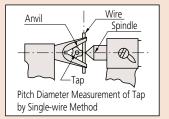
 For foot switch: 02AZE140B

 Refer to page A-27 for details.

Wireless Data Output u-wavem

- U-WAVE-TM 264-622 (IP67 type) 264-623 (Buzzer type)
- U-WAVE-TMB Transmitter
 Mitutoyo Bluetooth® U-WAVE
 264-626 (IP type)
 264-627 (Buzzer type)
 Defeated and A for for details
- Refer to page A-16 for details.

 Connecting unit for **U-WAVE-TM/TMB** Connecting unit for **U-WAVE-TM** Connecting unit for **U-**









SPECIFICATIONS

Metric For 3-flute cutting tools							
Order No.	Range (mm)	Resolution (mm)	Maximum permissible error JMPE (µm)	Anvil	Remarks		
Digimatic (LCD)							
314-251-30	1 - 15		±4		w/groove		
314-252-30	10 - 25		±4		w/groove		
314-253-30	25 - 40	0.001	±5	60°	_		
314-261-30	1 - 15		±4		-		
314-262-30	10 - 25		±4		_		

Metric For 3-flute cutting tools							
Order No.	Range (mm)	Graduation (mm)	Maximum permissible error JMPE (µm)	Anvil	Remarks		
Analog Anvil, Sp	indle (With ca	arbide tip)					
114-204	2.3 - 25	·	±4		_		
Analog Spindle (With carbide tip)							
114-101	1 - 15				/~~~~		
114-102	10 - 25		±4		w/groove		
114-103	25 - 40	0.01	±5	60°	_		
114-104	40 - 55	0.01	±6	00	_		
114-105	55 - 70		±ΰ		_		
114-106	70 - 85		±7		_		
114-161	1 - 15		±4		_		
114-162	10 - 25		±4				

Metric For 5-flute cutting tools								
Order No.	Range (mm)	Graduation (mm)	Maximum permissible error JMPE (µm)	Anvil	Remarks			
Analog Anvil, Spindle (With carbide tip)								
114-137	2.3 - 25		±4		_			
Analog Spindle (W	Analog Spindle (With carbide tip)							
114-121	5 - 25		±4		w/groove			
114-122	25 - 45	0.01	±5	108°	_			
114-123	45 - 65		±6		_			
114-124	65 - 85		±7		_			
114-165	5 - 25		±4		_			

Note: For functional details of **series 314** refer to page B-8. Please note that these models are not water-proof, and that origin setting is by presetting. Optional connecting cable is available only for water-proof type (Digimatic model).

Inch/Metric	For 3-flute cutting tools						
Order No.	Range (in)	Resolution	Maximum permissible error JMPE (in)	Anvil	Remarks		
Digimatic (LCD)							
314-351-30	0.05 - 0.6		±0.0002		w/groove		
314-352-30	0.4 - 1	0.00005 in/	±0.0002		w/ gloove		
314-353-30	1 - 1.6	0.001 mm	±0.00025	60°	_		
314-361-30	0.05 - 0.6	0.001111111	±0.0002		_		
314-362-30	0.4 - 1		±0.0002				

Inch	For 3-flute cutting tools						
Order No.	Range (in)	Graduation (in)	Maximum permissible error JMPE (in)	Anvil	Remarks		
Analog Anvil, Spindle (With carbide tip)							
114-202	0.09 - 1	0.0001	±0.0002		_		
Analog Spindle (V	60°						
114-163	0.05 - 0.6		±0.0002	00	—		
114-113	1 - 1.6	0.001	±0.00025		_		
114-114	1.6 - 2.2		±0.0003		_		

Inch	For 5-flute cutting tools						
Order No.	Range (in)	Graduation (in)	Maximum permissible error JMPE (in)	Anvil	Remarks		
Analog Anvil, Spindle (With carbide tip)							
114-135	0.09 - 1	0.0001	±.0002	108°	_		

DIMENSIONS

