MeasurLink ENABLED Data Management Software by Mitutoyo

U-WAVE fit

V-Anvil Micrometers SERIES 314 — 3 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.



314-251-30

SPECIFICATIONS

Metric For 3-flute cutting tools

Code No.	Range (mm)	Resolution (mm)	Maximum permissible error J_{MPE} (µm)	Anvil	Remarks
Digimatic					
314-251-30	1 - 15	0.001	±4	60°	w/groove
314-252-30	10 - 25				
314-253-30	25 - 40		±5		—
314-261-30	1 - 15		±4		—
314-262-30	10 - 25				—

Inch / Metric For 3-flute cutting tools

Code No.	Range (in)	Resolution	Maximum permissible error J_{MPE} (in)	Anvil	Remarks
Digimatic					
314-351-30	0.05 - 0.6	0.00005 in / 0.001 mm	±0.0002	60°	w/groove
314-352-30	0.4 - 1				
314-353-30	1 - 1.6		±0.00025		—
314-361-30	0.05 - 0.6		±0.0002		—
314-362-30	0.4 - 1				—

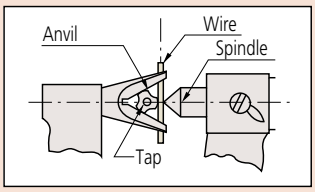
- Flatness: 0.3 µm/0.000012 in (Spindle), 1.0 µm/0.00004 in (Anvil)
- Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
- Battery life: Approx. 2.4 years under normal use
- Position detection method: Electromagnetic rotary sensor
- Standard accessories: Spanner (**301336**), 1 pc. (for maximum measuring range up to 40 mm (1.6 in)), Setting Standards for V-Anvil Micrometer

Note: For functional details, refer to page 02-7.
The models above use the same connection cables and connection units as our IP rated micrometers but these digital V-Anvil Micrometers are not IP rated.

Measurement example



Pitch diameter measurement of tap by single-wire method



Optional Accessories

Code No.	Type	Description
264-020	—	USB Input Tool Series USB Keyboard Signal Conversion Type **IT-020U**
05CZA662	B	Connection cable (1 m)
05CZA663	B	Connection cable (2 m)
06AFM380B	B	USB Input Tool Direct (2 m)
02AZD730G	IP67	**U-WAVE-T**
02AZD880G	Buzzer	**U-WAVE-T**
02AZE200	—	**U-WAVE-T** mounting bracket
02AZD790B	B	Connection cable for **U-WAVE-T** (160 mm)
02AZE140B	B	Connection cable for **U-WAVE-T** For foot switch
264-622	IP67	**U-WAVE-TM**
264-623	Buzzer	**U-WAVE-TM**
264-626	IP67	**U-WAVE-TMB**
264-627	Buzzer	**U-WAVE-TMB**
02AZF310	IP67	Connecting unit for **U-WAVE-TM/TMB**

Mitutoyo reserves the right to change any or all aspects of any product specification, including prices, designs and service content, without notice.