

# Micrometer

## 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						Inch / Metric For 3-flute cutting tools					
Code No.	Range (mm)	Resolution (mm)	Maximum permissible error $J_{MPE}$ ( $\mu$ m)	Anvil	Remarks	Code No.	Range (in)	Resolution	Maximum permissible error $J_{MPE}$ (in)	Anvil	Remarks
Digimatic						Digimatic					
314-251-30	1 - 15	0.001	$\pm 4$	60°	w/groove	314-351-30	0.05 - 0.6	0.00005 in/ 0.001 mm	$\pm 0.0002$	60°	w/groove
314-252-30	10 - 25					314-352-30	0.4 - 1				
314-253-30	25 - 40					314-353-30	1 - 1.6				
314-261-30	1 - 15					314-361-30	0.05 - 0.6				
314-262-30	10 - 25					314-362-30	0.4 - 1				

- Flatness: 0.3  $\mu$ m/0.000012 in (Spindle), 1.0  $\mu$ m/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

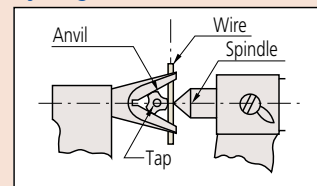
Note: For functional details, refer to page 02-7.

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 <b>IT-020U</b>
05CZA662	B	Connection cable (1 m)
05CZA663	B	Connection cable (2 m)
06AFM380B	B	USB Input Tool Direct (2 m)
02AZD730G	IP67	<b>U-WAVE-T</b>
02AZD880G	Buzzer	<b>U-WAVE-T</b>
02AZE200	—	<b>U-WAVE-T</b> mounting bracket
02AZD790B	B	Connection cable for <b>U-WAVE-T</b> (160 mm)
02AZE140B	B	Connection cable for <b>U-WAVE-T</b> For foot switch
264-622	IP67	<b>U-WAVE-TM</b>
264-623	Buzzer	<b>U-WAVE-TM</b>
264-626	IP67	<b>U-WAVE-TMB</b>
264-627	Buzzer	<b>U-WAVE-TMB</b>
02AZF310	IP67	Connecting unit for <b>U-WAVE-TM/TMB</b>



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