

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:
Spanner (301336), 1 pc (for Digimatic type)
(Maximum measuring range up to 55mm/1.6")*1
(Maximum measuring range up to 45mm/1")*2
Spanner (200877), 1 pc (for maximum measuring range 70mm or over)*1
(for maximum measuring range 65mm or over)*2
*1 For analog type with 3-flute cutting tools.
*2 For analog type with 5-flute cutting tools.

Optional accessories

Connecting cables for **series 314**

1m: **05CZA662**

2m: **05CZA663**

USB Input Tool Direct

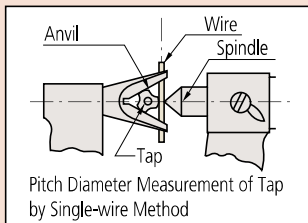
USB-ITN-B (2m): **06ADV380B**

SPC cables for **U-WAVE** w/ data switch (160mm):

02AZD790B

For foot switch: **02AZE140B**

(Refer to page B-68 for details.)



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

- Measures the outside diameter of cutting tools (such as taps, reamers, end mills) which have three or five flutes.
- Measures pitch diameter: refer to "Quick Guide to Precision Measuring Instruments" on page B-73.
- Measuring faces: Carbide
- Equipped with Ratchet Stop for constant measuring force.



314-251-30



114-121



114-102



114-101

Micrometer

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

SPECIFICATIONS

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

*Excluding quantizing error

Metric For 3-flute cutting tools					
Order No.	Range	Graduation	Accuracy	Remarks	Anvil
Analog Anvil, Spindle (With carbide tip)					
114-204	2.3 - 25mm		±4μm	—	
Analog Spindle (With carbide tip)					
114-101	1 - 15mm	0.01mm	±4μm	w/groove	60°
114-102	10 - 25mm		±5μm	—	
114-103	25 - 40mm		±6μm	—	
114-104	40 - 55mm		±7μm	—	
114-105	55 - 70mm		±4μm	—	
114-106	70 - 85mm		—	—	
114-161	1 - 15mm		—	—	
114-162	10 - 25mm	—	—		

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

Inch/Metric For 3-flute cutting tools					
Order No.	Range	Resolution	Accuracy*	Remarks	Anvil
Digimatic (LCD)					
314-351-30	.05 - .6"	.00005"/ 0.001mm	±.0002"	w/groove	60°
314-352-30	.4" - 1"				
314-353-30	1" - 1.6"				
314-361-30	.05 - .6"				
314-362-30	.4" - 1"				

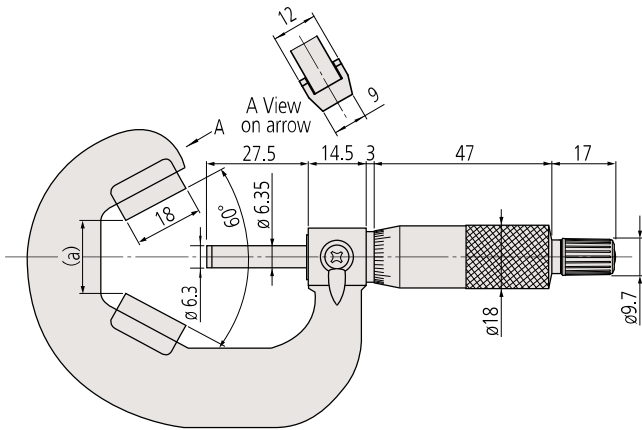
*Excluding quantizing error

Inch For 3-flute cutting tools					
Order No.	Range	Graduation	Accuracy	Remarks	Anvil
Analog Spindle (With carbide tip)					
114-163	.05" - .6"	.001"	±.0002"	—	60°
114-113	1" - 1.6"		±.00025"	—	

Inch For 5-flute cutting tools					
Order No.	Range	Graduation	Accuracy	Remarks	Anvil
Analog Spindle (With carbide tip)					
114-135	.09" - 1"	.0001"	±.0002"	—	108°

DIMENSIONS

Unit: mm

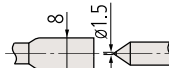


114-103

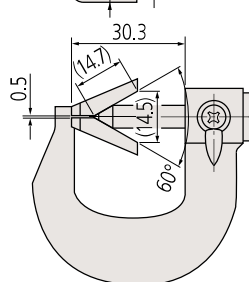
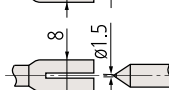
For 3-flute cutting tools

Range	(a)
10 - 25mm	6.2
25 - 40mm	19.14
40 - 55mm	32.13
55 - 70mm	45.12
70 - 85mm	58.11

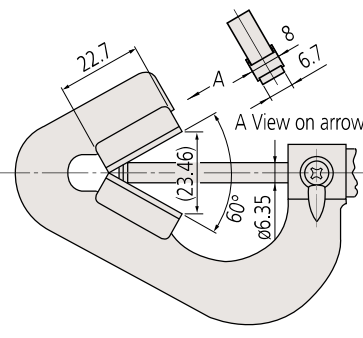
w/o groove model



w/ groove model



114-101



114-204