



# V-Anvil Micrometers

**SERIES 314, 114 — 3 Flutes and 5 Flutes**

## Technical Data

Accuracy: Refer to the list of specifications  
 Resolution\*: .00005" / 0.001mm or 0.001mm  
 Graduation\*\*: .001" or .0001", 0.01mm  
 Flatness (spindle/anvil):  
 Analog model: .000024" / 0.6µm, .00005" / 1.3µm  
 Digital Model: .000012" / 0.3µm, .00004" / 1µm  
 Spindle face: Carbide tipped  
 Display\*: LCD  
 Battery\*: SR44 (1 pc.), **938882**  
 Battery life\*: Approx. 2.4 years under normal use  
 \*Digital models \*\*Analog models

## Function of Digital Model

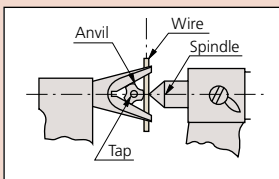
Zero / ABS, Data hold, Data output, Preset, inch/mm conversion (on inch/metric models only)  
 Function lock, 2 Presets  
 Alarm: Low voltage, Counting value composition error

## Optional Accessories for Digital Model

**05CZA662**: SPC cable with data switch (40" / 1m)  
**05CZA663**: SPC cable with data switch (80" / 2m)



## Pitch Diameter Measurement of Tap by Single-wire Method Inch/Metric



## FEATURES

- Measures the outside diameter of cutting tools (such as taps, reamers, end mills) with an odd number of flutes.
- With ratchet stop for constant force.
- Supplied with setting standard.
- Non-slip grip finish (digital models).
- V-anvils with a centerline groove are available. They are useful for measuring pitch diameters of taps which have a small diameter by using single-wire method.
- With SPC output (Series 314).
- Supplied in fitted plastic case.



314-351-30



114-121



114-202



114-204

## SPECIFICATIONS

**Metric** Digital model for 3 flutes cutting head

Range	Resolution	Order No.	Accuracy	Remarks	Setting Standard	Mass (g)
1 - 15mm	0.001mm	<b>314-251-30</b>	±4µm	w/Groove	ø5mm	275
		<b>314-261-30</b>	±4µm	—	ø5mm	275
10 - 25mm	0.001mm	<b>314-252-30</b>	±4µm	w/Groove	ø10mm	410
		<b>314-262-30</b>	±4µm	—	ø10mm	410
25 - 40mm	0.001mm	<b>314-253-30</b>	±5µm	—	ø25mm	465

**Inch/Metric** Digital model for 3 flutes cutting head

Range	Resolution	Order No.	Accuracy	Remarks	Setting Standard	Mass (g)
.05 - .6" / 1.27 - 15.24mm	.00005" / 0.001mm	<b>314-351-30</b>	±.0002"	w/Groove	ø.2"	275
		<b>314-361-30</b>	±.0002"	—	ø.2"	275
.4" - 1" / 10.16 - 25.4mm	.00005" / 0.001mm	<b>314-352-30</b>	±.0002"	w/Groove	ø.4"	410
		<b>314-362-30</b>	±.0002"	—	ø.4"	410
1" - 1.6" / 25.4 - 40.64mm	.00005" / 0.001mm	<b>314-353-30</b>	±.00025"	—	ø 1"	465

## SPECIFICATIONS

### Metric For 3 flutes cutting head

Range	Graduation	Order No.	Accuracy	Setting Standard	Remarks	Mass (g)
1 - 15mm	0.01mm	<b>114-101</b>	±4μm	ø5mm	w/Groove	120
		<b>114-161</b>	±4μm	ø5mm	—	120
10 - 25mm	0.01mm	<b>114-102</b>	±4μm	ø10mm	w/Groove	280
		<b>114-162</b>	±4μm	ø10mm	—	280
2.3 - 25mm	0.01mm	<b>114-204*</b>	±4μm	ø5mm	—	290
25 - 40mm	0.01mm	<b>114-103</b>	±5μm	ø25mm	—	400
40 - 55mm	0.01mm	<b>114-104</b>	±6μm	ø40mm	—	465
55 - 70mm	0.01mm	<b>114-105</b>	±6μm	ø55mm	—	675
70 - 85mm	0.01mm	<b>114-106</b>	±7μm	ø70mm	—	910

\*Carbide-tipped anvil

### Metric For 5 flutes cutting head

Range	Graduation	Order No.	Accuracy	Setting Standard	Remarks	Mass (g)
5 - 25mm	0.01mm	<b>114-121</b>	±4μm	ø5mm	w/Groove	255
		<b>114-165</b>	±4μm	ø5mm	—	255
2.3 - 25mm	0.01mm	<b>114-137*</b>	±4μm	ø5mm	—	220
25 - 45mm	0.01mm	<b>114-122</b>	±5μm	ø25mm	—	400
45 - 65mm	0.01mm	<b>114-123</b>	±6μm	ø55mm	—	540
65 - 85mm	0.01mm	<b>114-124</b>	±7μm	ø70mm	—	760

\*Carbide-tipped anvil

### Inch For 3 flutes cutting head

Range	Graduation	Order No.	Accuracy	Setting Standard	Mass (g)
.05 - .6"	.001"	<b>114-163</b>	±.0002"	ø.2"	120
.09 - 1"	.0001"	<b>114-202*</b>	±.0002"	ø.2"	280
1 - 1.6"	.001"	<b>114-113</b>	±.00025"	ø1"	400
1.6 - 2.2"	.001"	<b>114-114</b>	±.0003"	ø1.6"	465

\*Carbide-tipped anvil and .0001" reading is obtained with vernier.

### Inch For 5 flutes cutting head

Range	Graduation	Order No.	Accuracy	Setting Standard	Mass (g)
.09 - 1"	.0001"	<b>114-135</b>	±.0002"	ø.2"	255

## DIMENSIONS

