

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. 1.2 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)
 Alarm: Low voltage, Counting value composition error
 Function lock
 2 Presets

Optional Accessories for Digital Model

05CZA662: SPC cable with data switch (40" / 1m)

05CZA663: SPC cable with data switch (80" / 2m)

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.
- 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.



314-351-10



114-121

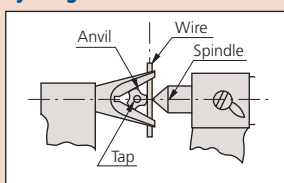


114-202



114-204

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



SPECIFICATIONS

Metric Digital model for 3 flutes cutting head

Range	Resolution	Order No.	Accuracy	Remarks	Setting Standard	Mass (g)
1 - 15mm	0.001mm	314-251-10	±4μm	w/Groove	ø5mm	275
		314-261-10	±4μm	—	ø5mm	275
10 - 25mm	0.001mm	314-252-10	±4μm	w/Groove	ø10mm	410
		314-262-10	±4μm	—	ø10mm	410
25 - 40mm	0.001mm	314-253-10	±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	314-351-10	±.0002"	w/Groove	ø.2"	275
		314-361-10	±.0002"	—	ø.2"	275
.4" - 1" / 10.16 - 25.4mm	.00005" / 0.001mm	314-352-10	±.0002"	w/Groove	ø.4"	410
		314-362-10	±.0002"	—	ø.4"	410
1" - 1.6" / 25.4 - 40.64mm	.00005" / 0.001mm	314-353-10	±.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	114-101	±4μm	ø5mm	w/Groove	120
		114-161	±4μm	ø5mm	—	120
10 - 25mm	0.01mm	114-102	±4μm	ø10mm	w/Groove	280
		114-162	±4μm	ø10mm	—	280
2.3 - 25mm	0.01mm	114-204*	±4μm	ø5mm	—	290
25 - 40mm	0.01mm	114-103	±5μm	ø25mm	—	400
40 - 55mm	0.01mm	114-104	±6μm	ø40mm	—	465
55 - 70mm	0.01mm	114-105	±6μm	ø55mm	—	675
70 - 85mm	0.01mm	114-106	±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	114-121	±4μm	ø5mm	w/Groove	255
		114-165	±4μm	ø5mm	—	255
2.3 - 25mm	0.01mm	114-137*	±4μm	ø5mm	—	220
25 - 45mm	0.01mm	114-122	±5μm	ø25mm	—	400
45 - 65mm	0.01mm	114-123	±6μm	ø55mm	—	540
65 - 85mm	0.01mm	114-124	±7μm	ø70mm	—	760

*Carbide-tipped anvil

Inch For 3 flutes cutting head

Range	Graduation	Order No.	Accuracy	Setting Standard	Mass (g)
.05 - .6"	.001"	114-163	±.0002"	ø.2"	120
.09 - 1"	.0001"	114-202*	±.0002"	ø.2"	280
1 - 1.6"	.001"	114-113	±.00025"	ø1"	400
1.6 - 2.2"	.001"	114-114	±.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"	114-135	±.0002"	ø.2"	255

DIMENSIONS

