



# POCKET NC V2-50

## SPECIFICATIONS

### MAX TRAVEL

X: 4.55 in (115.5mm)

Y: 5.05 in (128.3 mm)

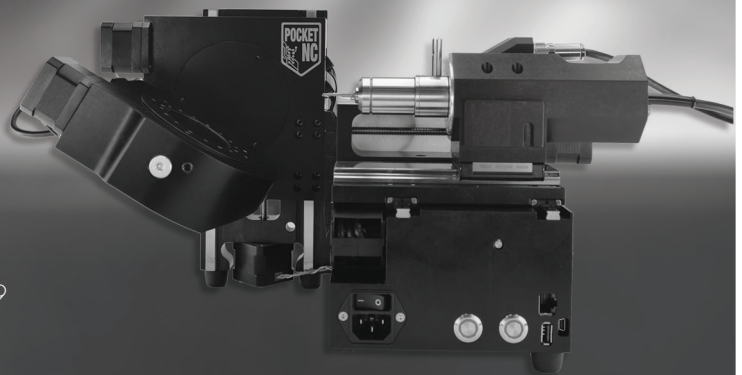
Z: 3.55 in (90.1mm)

A: -25° to 135°

B: Continuous Rotation  
(-9999° to 9999°)

► Tested on G5 titanium,  
6061 aluminum, 303  
stainless, machinable  
wax, acetal

Accepts standard  
G Code. Test G Code  
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AXIS	MAXIMUM TRAVEL	SPEED
X	4.55 in (115.5 mm)	60 in/min (1524 mm/min)
Y	5.05 in (128.3 mm)	60 in/min (1524 mm/min)
Z	3.55 in (90.1 mm)	60 in/min (1524 mm/min)
A	-25° to 135°	40°/second
B	Continuous rotation (-9999° to 9999°)	40°/second

AXIS	BACKLASH
X & Y	0.0005 in (12.7 µm) at tool base
Z	Backlash at 18 pound (8.16 kg) load: 0.0005 in (12.7 µm)
A & B	0.01°

AXIS	RESOLUTION AND REPEATABILITY
XYZ	Resolution: 0.00024 in (6.10µm) Homing Repeatability: ±0.0005 in (12.7µm) Repeatability: ±0.002 in (50.8µm) at 0% load
A & B	Resolution: 0.01° Homing Repeatability: ±0.05° Repeatability: ±0.05° at 0% load Runout: < 0.002 in (50.8 µm)

SPINDLE	
Spindle Speed	1,000–50,000 RPM*
Power	200 W
Spindle Motor	BLDC 3 Phase with Hall Feed-back
Spindle Runout	0.0001 in (2.5 µm)
Tool Change	Lever Type CHB Collet

MACHINE CONTROL	
Texas Instruments Arm Cortex A8 running Machinekit/Rockhopper	
Accepts Standard Gcode	
Features	Spindle Override Feed Override Stop, Start, Pause Jog while pause 5 axis simultaneous movement
Connectivity	Ethernet, USB, and mini USB
Power Source	90–264 VAC, 127–370 VDC, 47–63Hz

COMPONENTS	
6061 Aluminum Frame, ±0.001 in (50.8 µm) squareness in all axes	
Machine Footprint: 17.5 in (444.5 mm) x 12.5 in (279.3 mm)	
5 NEMA 17 Motors	3 linear lead screws with preloaded nuts 2 Rotary Worm Drives
Linear Bearings	9 and 42mm, 10% preload
Integrated angular contact rotary bearings	

#### PURCHASE INCLUDES:

1/8 inch CHB collet  
1/8 inch end mill, single flute  
Pocket NC vise and hardware  
Limited Pocket NC Warranty

\*Sold Separately: Air Compressor (required)  
1 gallon (3.7L)/minute of air at 25 psi

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