



# POCKET NC V2-10

## SPECIFICATIONS

### MAX TRAVEL

X: 4.55 in (115.5mm)

Y: 5.05 in (128.3 mm)

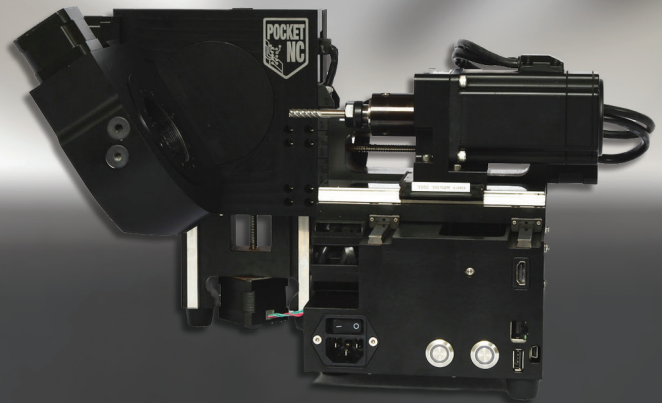
Z: 3.55 in (90.1mm)

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 at [sim.pocketnc.com](http://sim.pocketnc.com)



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AXIS	MAX TRAVEL	SPEED
<b>X</b>	4.55 in (115.5 mm)	60 in/min (1524 mm/min)
<b>Y</b>	5.05 in (128.3 mm)	60 in/min (1524 mm/min)
<b>Z</b>	3.55 in (90.1 mm)	60 in/min (1524 mm/min)
<b>A</b>	-25° to 135°	40°/second
<b>B</b>	Continuous rotation (-9999° to 9999°)	40°/second

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

AXIS	RESOLUTION & REPEATABILITY
<b>XYZ</b>	Resolution: 0.00024 in (6.10µm) Homing Repeatability: ±0.0005 in (12.7µm) Repeatability: ±0.002 in (50.8µm) at 0%
<b>A&amp;B</b>	Resolution: 0.01° Homing Repeatability: ±0.05° Repeatability: ±0.05° at 0% load Runout: < 0.002 in (50.8 µm)
Recommended part tolerance ±0.005in (.127mm)	

SPINDLE	
<b>Spindle Speed</b>	2,000-10,000 RPM
<b>Power</b>	200 W (Max Power)
<b>Spindle Motor</b>	BLDC 3 Phase with Hall Feedback
<b>Spindle Runout</b>	~0.0005 in (12.7 µm)
<b>Tool Change</b>	3mm Hex Key ER11 Collet

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

COMPONENTS	
6061 Aluminum Frame, ±0.001 in (+/-25.4 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:**

- One extended reach tool holder
- 1/8 inch ER11 collet and nut
- 1/8 inch square end mill, single flute
- Pocket NC vise and hardware
- Pocket NC limited 1-year warranty



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