



# POCKET NC V2-50



**CAD-MECH**

An ISO 9001-2015 Company

## 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

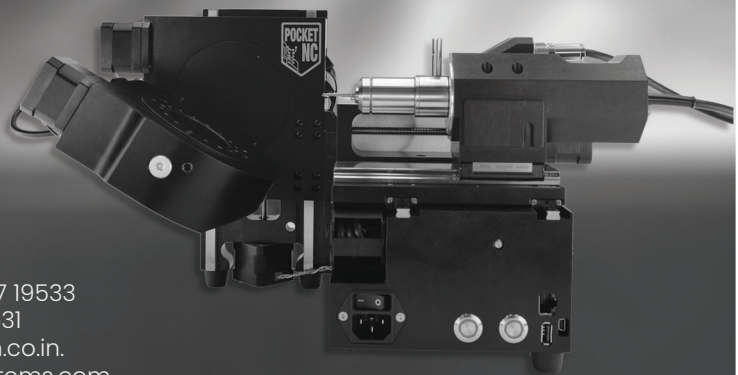
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| AXIS     | MAX TRAVEL                            | SPEED                   |
|----------|---------------------------------------|-------------------------|
| <b>X</b> | 4.55 in (115.5 mm)                    | 60 in/min (1524 mm/min) |
| <b>Y</b> | 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:<br>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)<br>Homing Repeatability: ±0.0005 in (12.7µm)<br>Repeatability: ±0.002 in (50.8µm) at 0% |
| <b>A&amp;B</b>                               | Resolution: 0.01°<br>Homing Repeatability: ±0.05°<br>Repeatability: ±0.05° at 0% load<br>Runout: < 0.002 in (50.8 µm)   |
| Recommended part tolerance ±0.005in (.127mm) |                                                                                                                         |

| SPINDLE               |                                 |
|-----------------------|---------------------------------|
| <b>Spindle Speed</b>  | 1,000-50,000 RPM*               |
| <b>Power</b>          | 200 W (Max Power)               |
| <b>Spindle Motor</b>  | BLDC 3 Phase with Hall Feedback |
| <b>Spindle Runout</b> | 0.0001 in (2.5 µm)              |
| <b>Tool Change</b>    | Lever Type<br>CHB Collet        |

| MACHINE CONTROL                                               |                                                                                         |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Texas Instruments Arm Cortex A8 running Machinekit/Rockhopper |                                                                                         |
| Accepts Standard Gcode                                        |                                                                                         |
| Features                                                      | Spindle Override<br>Feed Override<br>Stop, Start, Pause<br>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 (+/-25.4µm) 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<br>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

#### SPINDLE

**Spindle Speed** 1,000-50,000 RPM\*

**Power** 200 W (Max Power)

**Spindle Motor** BLDC 3 Phase with Hall Feedback

**Spindle Runout** 0.0001 in (2.5 µm)

**Tool Change** Lever Type  
CHB Collet

Marketed & Serviced by



**CAD-MECH**  
CAD-Mech Engineering Private Limited



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