

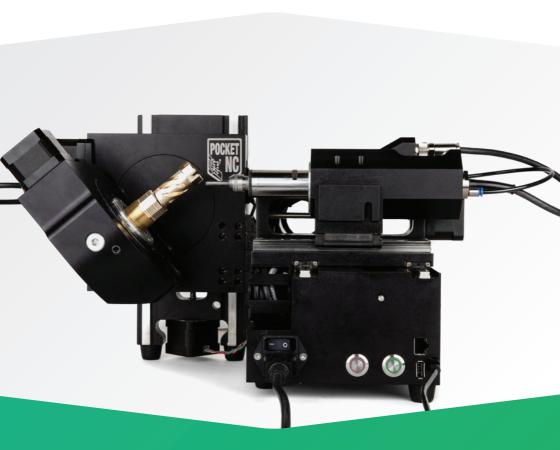
www.pentamachine.com info@pentamachine.com 1.406.451.3799 **6** pentamachine

POCKET NC V2-50 CHK 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:.ngc, .nc, .txt, .cnc files Test G Code at sim.pocketnc.com



AXIS	MAX TRAVEL	S	PEED
X	4.55 in (115.5 mm)	6	0 in/min (1524 mm/min)
Y	5.05 in (128.3 mm)	6	0 in/min (1524 mm/min)
z	3.55 in (90.1 mm)	6	0 in/min (1524 mm/min)
A	-25° to 135°	4	0°/second
В	Continuous rotatior (-9999° to 9999°)	٦	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°

AAIS	RESOLUTION & REPEATABILITY
XYZ	Resolution: 0.00024 in (6.10µm) Homing Repeatability: ±0.0005 in (12.7µm) Repeatability: ±0.002 in (50.8µm) at 0%
A&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	
NSK Spindle Mode	NR-2551
Tool Change	Collet Nut CHK Collet
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)

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MACHINE CON	TROL
Texas Instrument Machinekit/Rock	s Arm Cortex A8 running hopper
Accepts Stando	ard Gcode
Features	Spindle Override Feed Override Stop, Start, Pause 5 axis simultaneous movement
Connectivity	Ethernet, USB, and mini USB
Power Source	90-264 VAC, 127-370 VDC, 47-63Hz

COMPONENTS	
6061 Aluminum Fra squareness in all ax	me, ±0.001 in (+/-25.4 µm) kes
Machine Footprint: (279.3 mm)	17.5 in (444.5 mm) x 12.5 in
5 NEMA 17 Motors	3 linear lead screws with preloaded nuts 2 Rotary Worm Drives
Linear Bearings	9 and 42mm, 10% preload
ntegrated angular	contact rotary bearings

PURCHASE INCLUDES:

1/8 inch CHK collet 3mm end mill, single flute, 1/8" shank Pocket NC vise and hardware Limited Pocket NC Warranty

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

