



POCKET NC V2-50CHB/CHK



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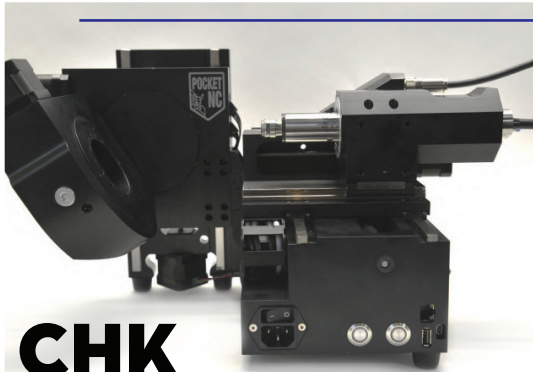
SPECIFICATIONS

MAX TRAVEL

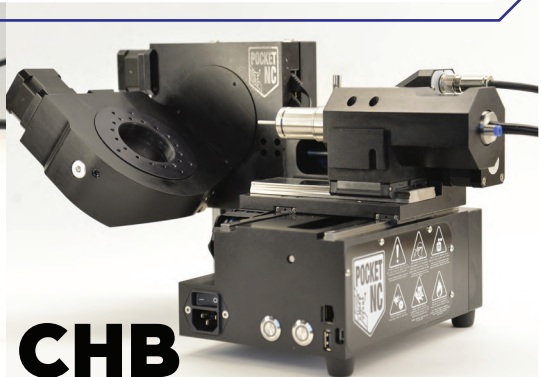
X: 4.55 in (115.5mm)
Y: 5.05 in (128.3 mm)
Z: 3.55 in (90.1mm)
A: -25° to 135°
B: Continuous Rotation
(-9999° to 9999°)

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

Accepts standard
G Code. Test G Code
at sim.pocketnc.com



CHK



CHB

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AXIS	MAX 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 & 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	NRR-2651	NR-2551
Tool Change	Lever Type CHB Collet	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)	

MACHINE CONTROL	
Texas Instruments Arm Cortex A8 running Machinekit/Rockhopper	
Accepts Standard 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 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 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 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 CFM (28.3L)/minute of air at 25 psi

SPINDLE

NSK Spindle Mode	NRR-2651	NR-2551
Tool Change	Lever Type CHB Collet	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)	

Marketed & Serviced by



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CAD-Mech Engineering Private Limited

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POCKET NC V2-50



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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°
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(-9999° to 9999°)

▶ Tested on G5 titanium,
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stainless, machinable
wax, acetal

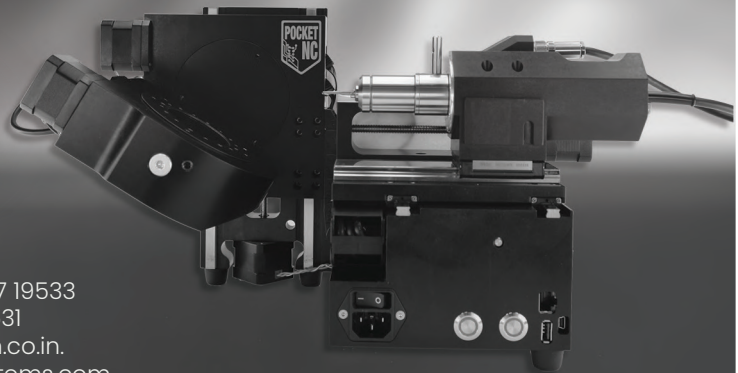
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AXIS	MAX TRAVEL	SPEED
X	4.55 in (115.5 mm)	60 in/min (1524 mm/min)
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A	-25° to 135°	40°/second
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AXIS	BACKLASH
X & Y	0.0005 in (12.7 µm) at tool base
Z	Backlash at 18 pound (8.16 kg) load: 0.0005 in (12.7 µm)
A & B	0.01°

AXIS	RESOLUTION & 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	
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

MACHINE CONTROL	
Texas Instruments Arm Cortex A8 running Machinekit/Rockhopper	
Accepts Standard 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 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 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

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POCKET NC V2-10



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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

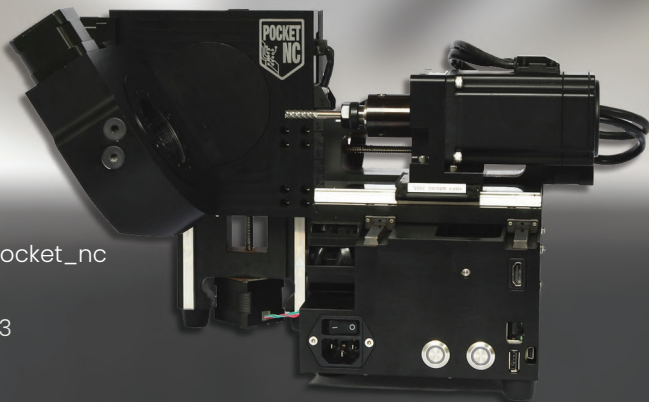
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AXIS	MAX TRAVEL	SPEED
X	4.55 in (115.5 mm)	60 in/min (1524 mm/min)
Y	5.05 in (128.3 mm)	60 in/min (1524 mm/min)
Z	3.55 in (90.1 mm)	60 in/min (1524 mm/min)
A	-25° to 135°	40°/second
B	Continuous rotation (-9999° to 9999°)	40°/second

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

MACHINE CONTROL	
Texas Instruments Arm Cortex A8 running Machinekit/Rockhopper	
Accepts Standard 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 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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