

VK4II

3 Axis CNC Knee Mill

• Table: 54" x 12" • Travels: 33" x 15" x 5.25"



8200-B CNC The new standard of control

With its conversational programming, onscreen help, intuitive menus, color graphics and prompted tool settings, the 8200-B CNC helps new operators train faster and become more productive sooner. Shops can choose either conversational, G-code programming, or download tool paths created with a CAM system - whatever is the most efficient way to produce the required part.

- Solid modeling graphics allows the operator to see a completed part prior to cutting.
- Mid program restart allows the operator to start anywhere in a program by verifying the graphics and then switching to Run Mode.
- Handwheel run allows the operator to run a program in a controlled mod where motion only occurs while the handwheel is turning.
- PC-based control with advanced processing speeds that are imperative for high speed or multi-axis machining.
- 1 GB memory, 2 GB disk storage, 12"mcolor LCD screen and membrane keys.



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SPECIFICATIONS:

CAPACITY:

X/Y/Z Travels	33 x 15 x 5.25" (838 x 381 x 133 mm)
Quill Travel	5.9" (150 mm)
Knee Travel	16.5" (420 mm)
Table Size	54 x 12" (1370 x 305 mm)
Allowable Table Load	1500 lbs (680 kg)
T-Slot Size	.63" (16 mm)

SPINDLE:

Spindle Nose Line to Table Distance (min/max)	6/30" (152/762 mm)
Column to Spindle Center	34.55" Max/10.71" Min (877.5 Max/272mm Min)
Quill Diameter	4" (100 mm)
Spindle Taper	ISO No. 40
Spindle Speed (Low Gear)	70-500 RPM
Spindle Speed (High Gear)	500-3900 RPM
AC Spindle Motor	7.5 HP (5.5 kW)
Max Torque	79.36 ft-lbs (107.6 Nm)

MOTION:

X/Y/Z Axis Rapid Traverse Rate	400 IPM (10.2 m/min)
Max. Cutting Feed Rate	200 IPM (5.08 m/min)
Positioning Accuracy	0.0004" (+/- 0.010 mm)
Repeatability	0.0002" (0.005 mm)
Axis Thrust Force X/Y/Z (Peak)	1921 lbs (8.5 kN)

GENERAL:

Machine Height	100.79" (2560 mm)
Floor Space Required (W x D)	117.95 x 85" (2996 x 2160 mm)
Machine Weight	4400 lbs (2000 kg)
Power Required	11 KVA
Voltage Required	208-240 Volts/3 Phase

Distributed By:

MACHINE FEATURES:

MACHINE STANDARDS:

- Milltronics 8200-B CNC
- 12" Color LCD Display
- Ethernet Connection
- USB Port
- DXF File Import Software
- User Definable Custom Macros
- Feedrate and Spindle Speed Overrides
- Spindle Load Meter
- Edit Key Lock-out Switch
- LCD Hour Meter
- Single Spare "M" Function with CNC Wait Channel
- 7.5 HP (5.5 kW) Spindle Motor
- Programmable RPM Spindle
- ±90° Head Tilt
- 5.9" Manual Quill Travel
- 16.5" Knee Travel
- Ram Travel +/-11.5" from Centerline
- Dual Retractable Handwheels with Feedback
- 3:1 Back Gear
- CT40 Taper
- Fully Ground 54" x 12" Table
- Fully Ground Box Ways on Y axis, Dovetail on X, MillSlide™ on Z
- AC Servo Motors Belt Driven to Oversized Ball Screws on all Axes
- 32 mm Ball Screw on X/Y, 25 mm Ball Screws on Z Axis
- 400 IPM Rapid Traverse Rate
- Matched AC Servo Amplifiers on all Axes
- Automatic Metered Way Oil Lubrication
- Instruction Manual, Parts List, and Electrical Drawings
- Operator and Maintenance Manuals

MACHINE OPTIONS:

- Auxiliary Keyboard
- Programmable Flood Coolant and Drip Pan
- Power Knee
- Worklamp
- Removable Table Guard
- Power Drawbar System
- FastCAM Offline software
- Extended parts warranty

CONTROL FEATURES:

CONTROL STANDARDS:

- PC-based 8200-B CNC includes 1 GB parts storage memory
- Enhanced CPU with Block processing speed of 2000 bps with enhanced jerk control and look ahead
- 12" LCD active matrix color display
- Conversational plus G & M code programming including coordinate rotating, scaling, mirror image, thread mill engraving, helical interpolation, auto routines, and user definable macros with trig assist and irregular pocket clearing
- Auto DXF file import
- 3D part and wire frame tool path graphics plus solid modeling-graphics
- Management software that allows editing of very large program files at the machine
- Spindle loader meter
- User definable macros with trig assist
- USB connectivity
- MTConnect compliant
- Networking