

# BR5100IL

## Large Travel Bridge Mill

• Table: 50" x 100" • Travels: 100" x 50" x 28"



### 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 mode 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" color LCD screen and membrane keys.



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## SPECIFICATIONS:

### CAPACITY:

Travels	100 x 50 x 28" (2540 x 1270 x 710 mm)
Table Size	50 x 100" (1270 x 2540 mm)
Allowable Table Load	5000 lbs (2270 kg)

### SPINDLE:

Spindle Gage Line to Table Distance	4-32" (100-810 mm)
Spindle Taper	ISO No. 40 BIG PLUS®
Standard Spindle Speed	10,000 RPM
Optional Spindle Speed	15,000 RPM
Standard AC Spindle Motor	24/15 HP (18/11 kW)
Optional AC Spindle Motor	35/25 HP (26/18 kW)
Standard Spindle Torque	85 ft-lbs (115 N.m)
Optional Spindle Torque	122 ft-lbs (165 N.m)

### OPTIONAL AUTOMATIC TOOL CHANGER:

Number of Tools	24 Carousel
Tool Shank	CT40
Max. Tool Diameter	3.5" (89 mm)
Max. Tool Length	11" (280 mm)
Max. Tool Weight	15 lbs (7 kg)

### MOTION:

X/Y/Z Axis Rapid Traverse Rate	1000 IPM (25.4 m/min)
Max. Cutting Feed Rate	500 IPM (12.5 m/min)
X Axis Ballscrew Diameter	2.48" (63 mm)
Y Axis Ballscrew Diameter	1.57" (40 mm)
Z Axis Ballscrew Diameter	1.25" (32 mm)
Least Command Increment	0.0001" (0.001 mm)
Positioning Accuracy	+/- 0.001" (+/- 0.025 mm)
Positioning Accuracy (full travel)	+/- 0.005" (+/- 0.127 mm)
Repeatability	0.0003" (0.005 mm)
Axis Thrust Force	5000 lbs (2270 kg)

### GENERAL:

Machine Height	152" (3850 mm)
Floor Space Required (W x D)	276 x 131" (7010 x 3325 mm)
Machine Weight	13,000 lbs (6000 kg)
Power Required	48 KVA / 125 Amps
Voltage Required	208-240 Volts/3 Phase

## MACHINE FEATURES:

### MACHINE STANDARDS:

- Heavy duty 45 mm linear roller way construction X, Y, Z axis
- Precision ground double anchored ball screws
- Four bearing 10,000 RPM BIG-PLUS® dual contact inline spindle cartridge assembly
- Spindle taper blow-out and tool release push button
- Front panel mounted electronic handwheel and handwheel controlled program execution
- High torque closed loop vector spindle drive system with full regen
- Spindle load meter
- End of cycle light
- LCD hour meter
- High torque AC digital servo drives
- Single spare "M" function with CNC "wait" channel
- Edit key lock-out switch
- UL certified

### MACHINE OPTIONS:

- Programmable air blast nozzle
- Programmable spray mist
- Flood Coolant and table troughs
- Air thru spindle
- Rigid tap
- Spindle oil chiller
- Thermal head mapping
- 15,000 RPM spindle
- 35 hp spindle motor upgrade
- 24 station ATC
- Tool release foot switch
- 6" column riser
- Renishaw tool and part probing
- Remote handwheel
- Work light
- Keyboard
- Air gun
- Rotary tables
- Extended warranty
- Factory training

## 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 programfiles at the machine
- Spindle loader meter
- User definable macros with trig assist
- USB connectivity
- MTConnect compliant
- Networking

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