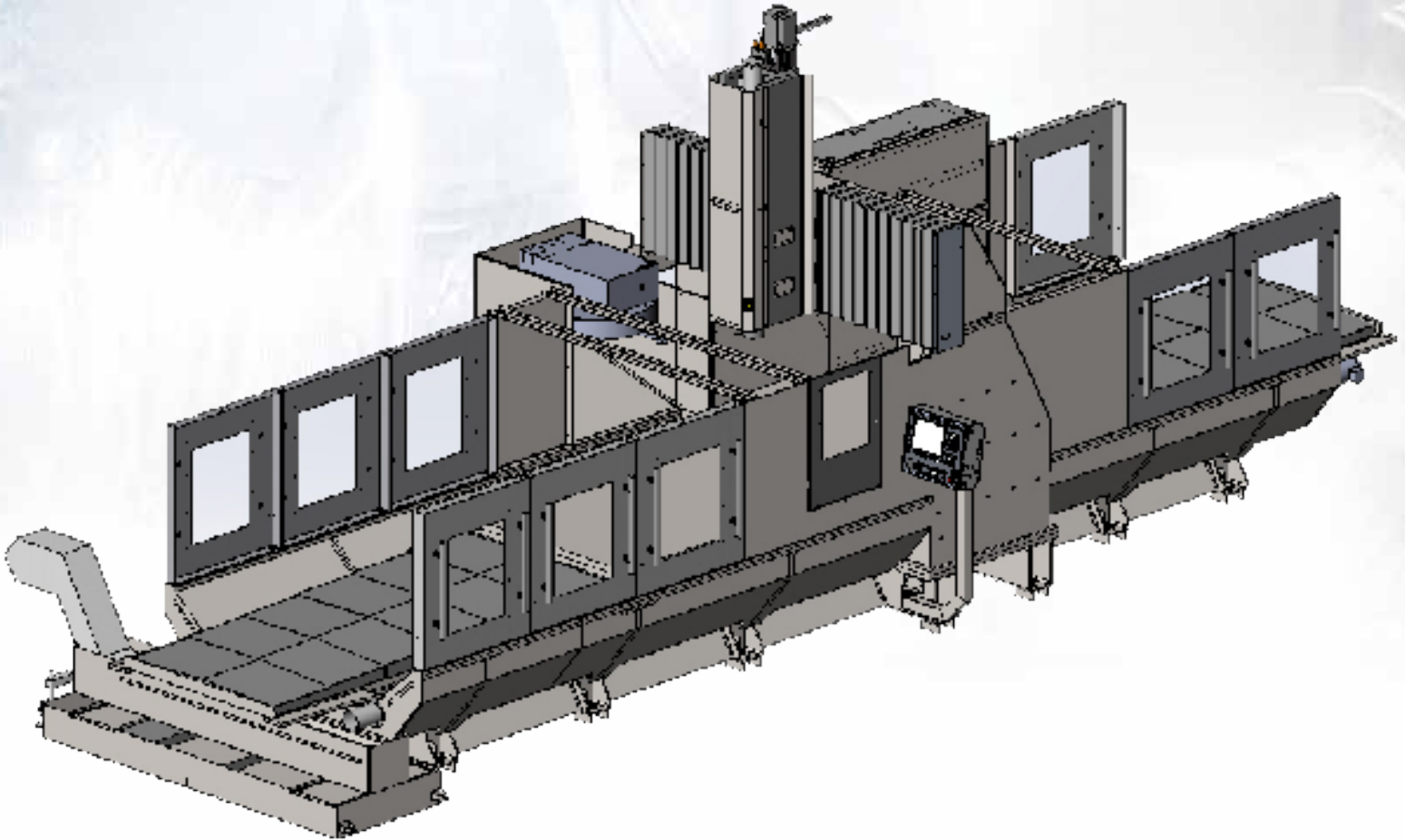


BR8100IL

Large Travel Bridge Mill

• Table: 80" x 100" • Travels: 100" x 80" x 28"



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Slant Bed
Turning
Centers



Combination
Lathes



Horizontal
Boring
Mills



Toolroom
Machining
Centers



50 Taper
Box Way Machining
Centers



Rigid Head
Toolroom
Bed Mills



Bridge
Mills



Linear Way
Machining
Centers

SPECIFICATIONS

CAPACITY:

Travels	100 x 80 x 28" (2540 x 2030 x 710 mm)
Table Size	80 x 100" (2030 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®
Spindle Speed (STD)	10,000 RPM
Spindle Speed (OPT)	15,000 RPM
Spindle Speed High Torque (OPT)	8,000 RPM
AC Spindle Motor (STD)	24/15 HP (18/11 kW) Inline 2 Speed
Spindle Torque (STD)	85 ft-lbs (115 N.m)
AC Spindle Motor (OPT)	35/25 HP (26/18 kW) Inline 2 Speed
Spindle Torque (OPT)	122 ft-lbs (165 N.m)
AC Spindle Motor High Torque 8000 RPM (OPT)	48/40 HP (35/30 kW) Inline 2 Speed
Spindle Torque High Torque 8000 RPM (OPT)	310 ft-lbs (420 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)	280 x 164" (7125 x 4160 mm)
Machine Weight	19,500 lbs. (8770 kg)
Power Required (STD)	48 KVA / 125 amps
Voltage Required	208-240 Volts / 3 Phase

Distributed By:

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 hand wheel and handwheel controlled program execution
- High torque closed loop vector spindle drive system with full regen
- Spindle load meter
- Rigid tap
- 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
- Bridge mounted work light
- Spindle chiller
- Flood coolant with dual chip augers
- UL certified

Machine Options

- Programmable air blast nozzle
- Tool release foot switch
- Programmable spray mist

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 load meter
- User definable macros with trig assist
- USB connectivity
- MTConnect compliant
- Networking