

BR6150IL

Large Travel Bridge Mill

• Table: 60" x 150" • Travels: 150" x 60" x 28"



MILLTRONICS USA

LET'S INVENT

Serving Industry Worldwide Since 1973



*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	150 x 60 x 28" (3800 x 1525 x 710 mm)
Table Size	60 x 150" (1524 x 3800 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	750/1000 IPM (19/25.4 m/min)
Max. Cutting Feed Rate	500 IPM (12.5 m/min)
X Axis Ballscrew Diameter	3.15" (80 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)	379 x 144" (9635 x 3650 mm)
Machine Weight	22,000 lbs. (9950 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 ballscrews
- 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 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