

SL12

Box Way Turning Center

• Chuck: 12" • Bar Capacity: 3.58"



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*Slant Bed
Turning
Centers*



*Combination
Lathes*



*Horizontal
Boring
Mills*



*Toolroom
Machining
Centers*



*Twin Table
Machining
Centers*



*50 Taper
Box Way
Machining
Centers*



*Rigid Head
Toolroom
Bed Mills*



*Bridge
Mills*



*Linear Way
Machining
Centers*



SPECIFICATIONS

CAPACITY:

X Axis Travel	8.85" (225 mm)
Z Axis Travel	29.5"(750 mm)
Z Axis Travel – Optional Extended Bed	49.2"(1250 mm)
Swing Over Way Cover (Diam)	30" (760 mm)
Swing Over Carriage (Diam)	23" (600 mm)
Max Turning Diameter	17.71" (450 mm)

SPINDLE:

Spindle Nose	A2-8
Spindle Bar Capacity	3.58" (91 mm)
Chuck Size	12" (305 mm)
Spindle Range	25-2500 RPM
AC Spindle Motor	35/25 HP (26/18 kW) 2 Speed
Spindle Torque	740 ft-lbs (1003 N.m)

TURRET:

Number of Tools	8
Tooling Size	1.25" (32 mm)
Boring Bar Capacity	2.0" (50 mm)
Tool Selection	Bi-directional

TAILSTOCK:

Tailstock Quill Travel	4.7" (120 mm)
Tailstock Quill Diameter	3.54" (90 mm)
Tailstock Thrust	584 lbs (265 kg)
Tailstock Quill Taper	MT5

MOTION:

X, Z Axis Rapid Traverse Rate	1000 IPM (25.4 m/min)
Max. Cutting Feed Rate	400 IPM (10.16 m/min)
X Axis Ballscrew Diameter	1.42" (36 mm)
Z Axis Ballscrew Diameter	1.97" (50 mm)
Positioning Accuracy	+/- .00039" (+/- .001 mm)
Repeatability	+/- .00019" (.005 mm)
Axis Thrust Force X/Z	1000/2000 lbs. (450/950 kg)

GENERAL:

Machine Height	81" (2050 mm)
Floor Space Required (W x D)	124" x 70" (3150 x 1765 mm)
Floor Space – Extended Bed	144" x 70" (3660 x 1765 mm)
Machine Weight – Standard Bed	13,250 lbs. (6000 kg)
Machine Weight – Extended Bed	18,750 lbs. (8500 kg)
Power Required	48 KVA 125 amps
Voltage Required	208-240 Volts / 3 Phase

MACHINE FEATURES

Machine Standards

- Heavy duty box way construction
- Automatic metered lubrication with low lube fault
- Metal way cover construction
- Flood coolant system
- Heavy duty metal enclosure with sliding door
- Precision ground ball screws
- Door interlock safety switch
- 10" hydraulic 3 jaw chuck with foot switch
- Single spare "M" function and CNC "wait" channel
- Tooling set with 1 axial and 2 boring bar holders with 8 wedge blocks
- Work light
- End of cycle light
- Remote electronic handwheel (MPG)
- Rigid tapping
- Parts catcher
- Chip conveyor
- Edit key lock out switch
- 1.25" 8 position automatic turret
- High torque AC digital servo drives
- UL Certified

Machine Options

- Extended bed length to 49"
- Manual tool setter with macros

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 drilling, boring, tapping, turning, facing, threading, tangent/circle generate
- 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

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