

# RH33

Rigid Head Toolroom Bed Mill

• Table: 86" x 32" • Travels: 78" x 33" x 28"



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*Serving Industry Worldwide Since 1973*



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:

Travels	78 x 33 x 28 " (2000 x 840 x 710 mm)
Table Size	86 x 32" (2185 x 810 mm)
Allowable Table Load	3500 lbs. (1600 kg)
T-Slot Size	.71" (18 mm)

### SPINDLE:

Spindle Gage Line to Table Distance	4-32" (100-810 mm)
Column to Spindle Center	34" (860 mm)
Spindle Taper	ISO No. 40
Spindle Speed (Std)	8,000 RPM
Spindle Speed (Opt)	15,000 RPM
AC Spindle Motor (Std)	24/15 HP (18/11 kW) 2 Speed
AC Spindle Motor (Opt)	35/25 HP (26/18 kW) 2 Speed
Spindle Torque (Std with 8,000 RPM)	250 ft-lbs (339 N.m)
Spindle Torque (Opt with 8,000 RPM)	365 ft-lbs (495 N.m)

### OPTIONAL AUTOMATIC TOOL CHANGER:

ATC Type	24 Carousel
Tool Shank	CT40
Pull Stud	MAS 60° Retention Knob Style
Max. Tool Diameter	3.5" (80 mm)
Max. Tool Length	11" (279 mm)
Max. Tool Weight	15 lbs. (7kg)

### MOTION:

X/Y, Z Axis Rapid Traverse Rate	800/600 IPM (20/15 m/min)
Max. Cutting Feed Rate	300 IPM (7.6 m/min)
Positioning Accuracy	+/- 0.00039" (+/- 0.010 mm)
Repeatability	0.0002" (0.005 mm)
Axis Thrust Force X/ Y, Z	3000/4000 lbs. (1360/1800 kg)

### GENERAL:

Machine Height	113" (2870 mm)
Floor Space Required (W x D)	238 x 162" (6045 x 4115 mm)
Machine Weight	15,000 lbs. (6800 kg)
Power Required with 24/15 HP	30 KVA / 80 amps
Power Required with 35/25 HP	48 KVA / 125 amps
Voltage Required	208-240 Volts / 3 Phase

## MACHINE FEATURES

### Machine Standards

- Massive heavily ribbed machine tool grade cast iron construction
- Fully ground solid ways with Turcite surfaces
- Precision ground double anchored ballscrews with dampening couplings
- Metal way covers
- Box ways on column and base
- Automatic metered lubrication with low lube fault
- CT40, 8000 RPM air purged spindle
- Spindle taper blow-out and tool release push button
- Rigid tap
- LCD hour meter
- 70 mm spindle
- Remote electronic handwheel
- Coolant drip pan
- Programmable spray mist
- Rear splash guards
- Work lamp
- Table chip guard
- Offline FastCAM software for programming and training
- High torque AC digital servo drives
- UL certified

### Machine Options

- Work offset probing
- Programmable air blast
- 24 pocket carousel ATC
- 15,000 RPM spindle
- 4th axis options

## 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

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