

# RH33

Rigid Head Toolroom Bed Mill

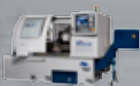
• Table: 86" x 32" • Travels: 78" x 33" x 28"



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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              | 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
- 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
- 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

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