

# RH20

## Rigid Head Toolroom Bed Mill

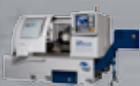
• Table: 54" x 16" • Travels: 40" x 20" x 24"



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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	40 x 20 x 24" (1015 x 510 x 610 mm)
Table Size	54 x 16" (1370 mm x 405 mm)
Allowable Table Load	2500 lbs. (1130 kg)
T-Slot Size	.63" (16 mm)

### SPINDLE:

Spindle Gage Line to Table Distance	2-26" (50-660 mm)
Column to Spindle Center	21" (530 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)
Spindle Torque (Std w/8,000 RPM)	65 ft-lbs (88 N.m)
Spindle Torque (Opt w/8,000 RPM)	85 ft-lbs (115 N.m)
Spindle Torque (Opt w/8,000 RPM)	250 ft-lbs (339 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. (7 kg)

### MOTION:

X/Y, Z Axis Rapid Traverse Rate	500/300 IPM (12/7.6 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	103" (2616.2 mm)
Floor Space Required (W x D)	129 x 82" (3276.6 x 2083 mm)
Machine Weight	8000 lbs. (3628 kg)
Power Required (18/12 HP)	23 KVA / 60 amps
Power Required (24/15 HP)	30 KVA / 80 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
- Front panel mounted electronic handwheel and handwheel controlled program execution
- LCD hour meter
- Remote electronic handwheel
- Coolant drip pan
- Rear splash guards
- Work lamp
- Removable table chip guard
- High torque AC digital servo drives
- UL certified

### Machine Options

- Work offset probing
- 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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