

**SUMMIT**  
MACHINE TOOL LLC



**CNC HORIZONTAL BORING MILL**

**HBMC-4A CNC SERIES**

Whenever metal must be machined efficiently and with precision, **Summit Horizontal CNC Boring Mills** provide a cost effective solution. Summit's series of CNC HBMs incorporate many advanced construction features, utilizing the latest technologies to ensure high performance and to meet the ever increasing demand for greater productivity.

The **Summit Model HBMC-4A CNC** contains more standard features than similar machines on the market. Summit HBM's are versatile, durable, heavy-duty, and user-friendly machines that will provide you years of trouble-free operation.

## KEY FEATURES & ACCESSORIES

- Hydraulic tool clamping
- Automatic Lubrication System
- Hardened and precision ground ways (HRC 50-58)
- Telescoping steel way covers on horizontal ways
- Ball screws on X, Y, W & Z axis
- Coolant system
- Screw Type Chip Conveyor
- Spindle oil chiller
- Portable MPG handwheel
- Fanuc Oi Control is Standard (Fagor & Seimens Controls Are Also Available)



### ROTARY TABLE

- Servo driven built-in indexing table 47.2" x 39.4"
- High precision absolute angle encoder for closed loop feedback
- Minimum input .001 degree, 360 degree rotation
- Maximum table load capacity 9900 lbs
- Hydraulic clamping system

# HBMC-4A CNC MACHINE FEATURES & BENEFITS



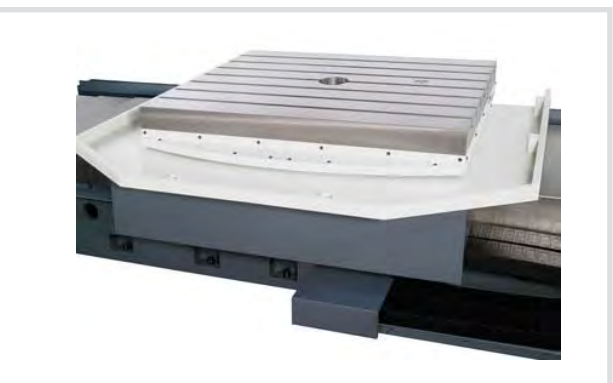
## FANUC OI CNC CONTROL FEATURES



- Full 4 Axis Simultaneous Movement
- User-Friendly Environment
- Large Parts Program Capacity
- High Speed Ethernet
- Advanced Interpolation Modes
- Reduced Cycle Times
- Simple Part Programming & Operation
- Extreme Reliability & Maintenance Friendly
- Higher Performance For Greater Profit
- Complete Fanuc System - Control, Drives & Servos
- Digital Servo Technology

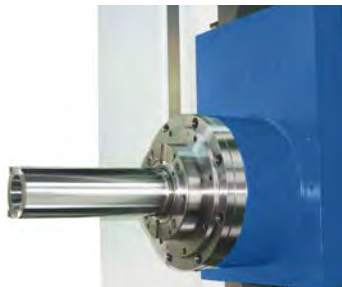
## AUTOMATIC TOOL CHANGER

- Standard chain type with 60-tool magazine, provides safety and stable exchange. This enhances machining flexibility and efficiency.
- Loading and unloading tools at the rear of the ATC is available



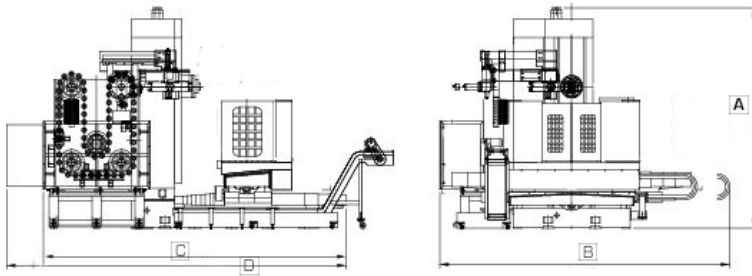
## SPINDLE

- Spindle (4.13" diameter) is mounted on high precision NN-type dual roller bearings
- Equipped with a 2-step gear box for automatic spindle speed change
- Oil cooler for the lubrication circuit and temperature control as a standard feature
- Spindle travel (Z-axis travel) is 21.6"
- Air curtain for the spindle effectively prevents fluid or chips from entering the spindle
- Hydraulic clamping for Z-axis



# DIMENSIONS AND SPECIFICATIONS

## HBMC-4A CNC HORIZONTAL BORING MILL



MODEL	A	B	C	D
HBMC-4A	142"	193"	200"	226"

### HBMC-4A CNC

SPECIFICATIONS	Standard		Metric	
<b>SPINDLE</b>				
Diameter of Spindle	4.3"		110mm	
Taper of Spindle	CAT 50			
Number of Spindle Speeds (2 Programmable Stops)	Infinitely Variable			
Spindle Speed Range	5 - 2500 RPM			
Spindle Nose to Table Center	-5.7-56.1"		-145mm - 1425mm	
Center Line of Spindle to Table Top	0 - 53.1"		0 - 1350mm	
<b>TRAVELS</b>				
Headstock Vertical Travel - Y Axis	53.1"		1350mm	
Cross Travel of Table - X Axis	70.86		1800mm	
Saddle Travel. Longitudinal - W Axis	40.1"		1020mm	
Spindle Travel - Z Axis	21.6"		550mm	
<b>FEEDS</b>				
Number of Feeds	Infinitely Variable			
Range of Feeds (X,Y, W Axis)	.04 - 236 IPM	Rapid Traverse (X,W Axis)		590 IPM
Range of Feeds (Z Axis)	.04 - 157 IPM	Rapid Traverse (Y Axis)		472 IPM
		Rapid Traverse (Z Axis)		590 IPM
<b>ROTARY TABLE</b>				
Size of Table	47.2" x 39.4"		1200 x 1000mm	
Table Index	360 degrees			
Increments	.001 degree			
Table T-Slot Width	.875"		22mm	
Maximum Table Load	9,900 lbs		4,500kg	
MAIN SPINDLE MOTOR	30 HP		22 kw	
<b>ELECTRICS</b>				
220/3/60				
SERVO LINEAR AXIS FEED MOTOR	(X,W,Z Axis) 9.3HP		7 kw	(Y Axis) 8HP/6KW
SERVO AXIS FEED MOTOR	(B Axis) 9.3HP		7 kw	
DIMENSIONS (L X W X H)	169" x 220" x 142"		4285 x 5587 x 3605mm	

**WARRANTY:** A copy of Summit Machine Tool LLC's standard written warranty is attached to each Summit Machine. Call or write to Summit for a copy or for further information concerning Summit's standard warranty. All purchases are subject to Summit's standard written warranty. Specifications are subject to change without notice.

**POINT OF OPERATION GUARDING** is the responsibility of the end user. For information contact your local OSHA office.

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## SUMMIT MACHINE TOOL LLC

518 N Indiana Ave • Oklahoma City, OK 73106

**MAIN 405.235.2075**

**FAX 405.232.5169**



**FOR MORE INFORMATION CALL 1-800-654-3262**

**[WWW.SUMMITMACHINETOOL.COM](http://WWW.SUMMITMACHINETOOL.COM)**