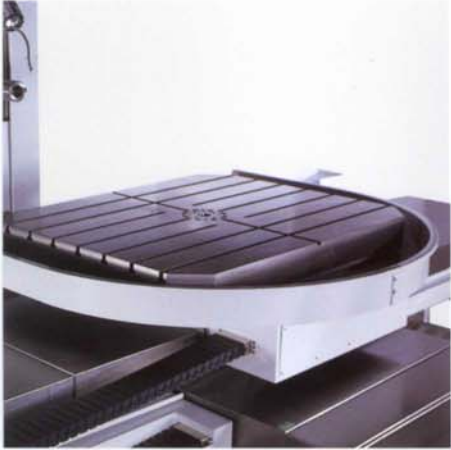


MITSEIKI



HBM-4 CNC Horizontal Borer

CNC Horizontal

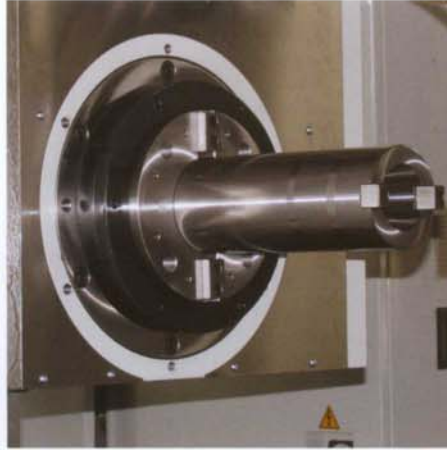


ROTARY TABLE

- Heavy loading capacity
- Auger chip remover
- High accuracy:
3 pieces flat type clutch for position index provides high accuracy & long durability.
- Heavy cutting:
3pcs flat type clutch and hydraulic type clamping system supply high rigidity for heavy cutting
- Durability:
Multi-pitch worm gear for transmission system offers excellent accuracy with low consumption
- Easy operation:
All signals to be connected with soldiery type connector which is able to be connected directly to CNC controller and commanded by the controller.

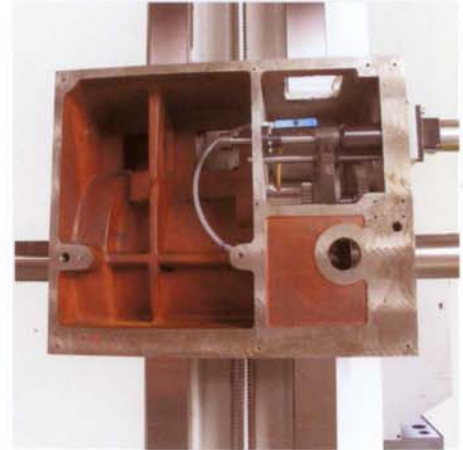
Features of rotary table:

- 1500 x 1200mm working table
- T slot 22mm
- Index accuracy +/- 5 sec
- Mini index angle 1 degree (standard)
- Clamping torque 4500kg-m
- Hydraulic clamping system 35kg/cm²
- Loading weight 5000kgs
- Cutting torque 4000kg-m
- Total gear ratio 1/180
- Rotary plate: 11.1
- **Continuous Rotary Table available on request**



SPINDLE (ISO50)

- Spindle & sleeve are made of chrome steel and with hardened & ground treatment to give high rigid and precise accuracy.
- The cylindrical roller bearing (double roller) is fitted for spindle, which gives high precision and heavy capacity.
- 3000rpm spindle, ISO50
- Spindle quill diameter 110mm
- W axis travel 550mm
- 25 bar or 70 bar high pressure coolant through spindle (opt.)



GEAR BOX

- 2 speed provides high torque output
- Hardened and ground gear transmission, auto speed change provided & oil chiller.

BED

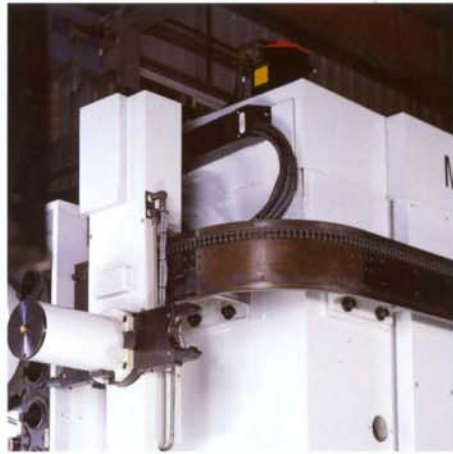
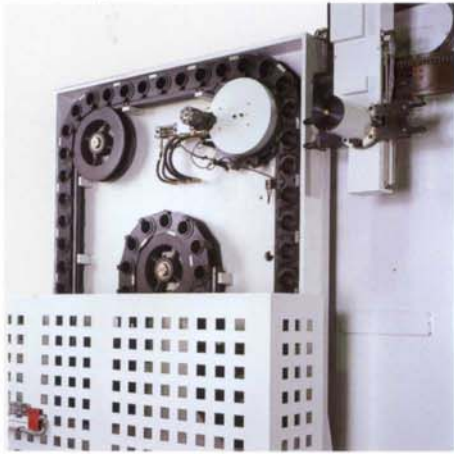
- All the box ways machine, relieved all main hardened and ground.
- Z axis are 2 box ways plus 2 additional support
- All chip will be sprayed to the back of machine conveyor to remove all.
- Operator station level.

FEATURE:

- XYZ axes are with hardened & ground box ways
- C3 high precision Ball screws with double nut
- Rotary table works efficiently with hydraulic & a two-ways backlash compensation system
- Auto lubrication system with pressure gauge



Borer HBM-4



ATC 60 TOOLS(OPT.)

- Travel ARM type
- 60 pockets available
- Tool length 300mm
- Tool loaded from rear of machine

n components are stress relieved, Induction

*supported ways
achine where the auger beside table & chip*

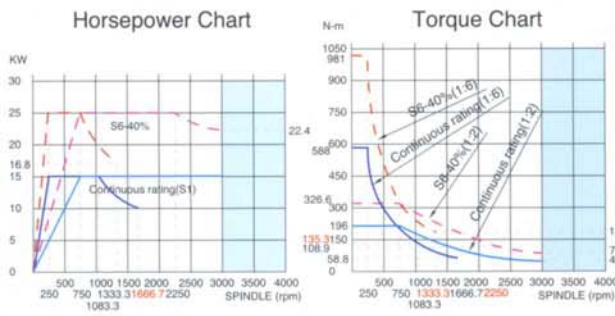
*t ways
nuts
ic clamp system for positioning,
m provided for indexing.
ge.*



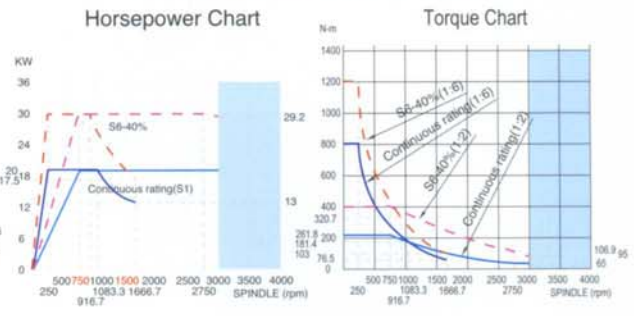
Quality and Service Build Our Business

Power / Torque Chart

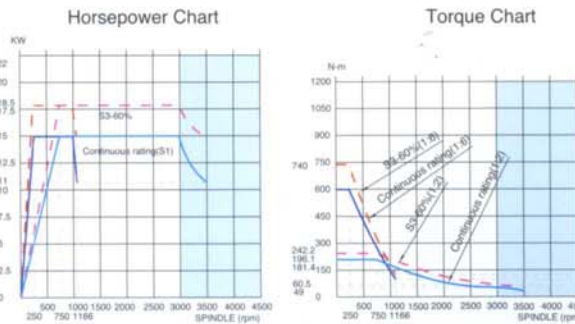
HEIDENHAIN 15/22kw



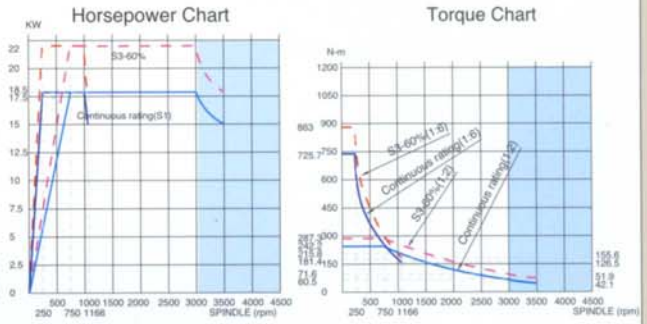
HEIDENHAIN 20/30kw (opt.)



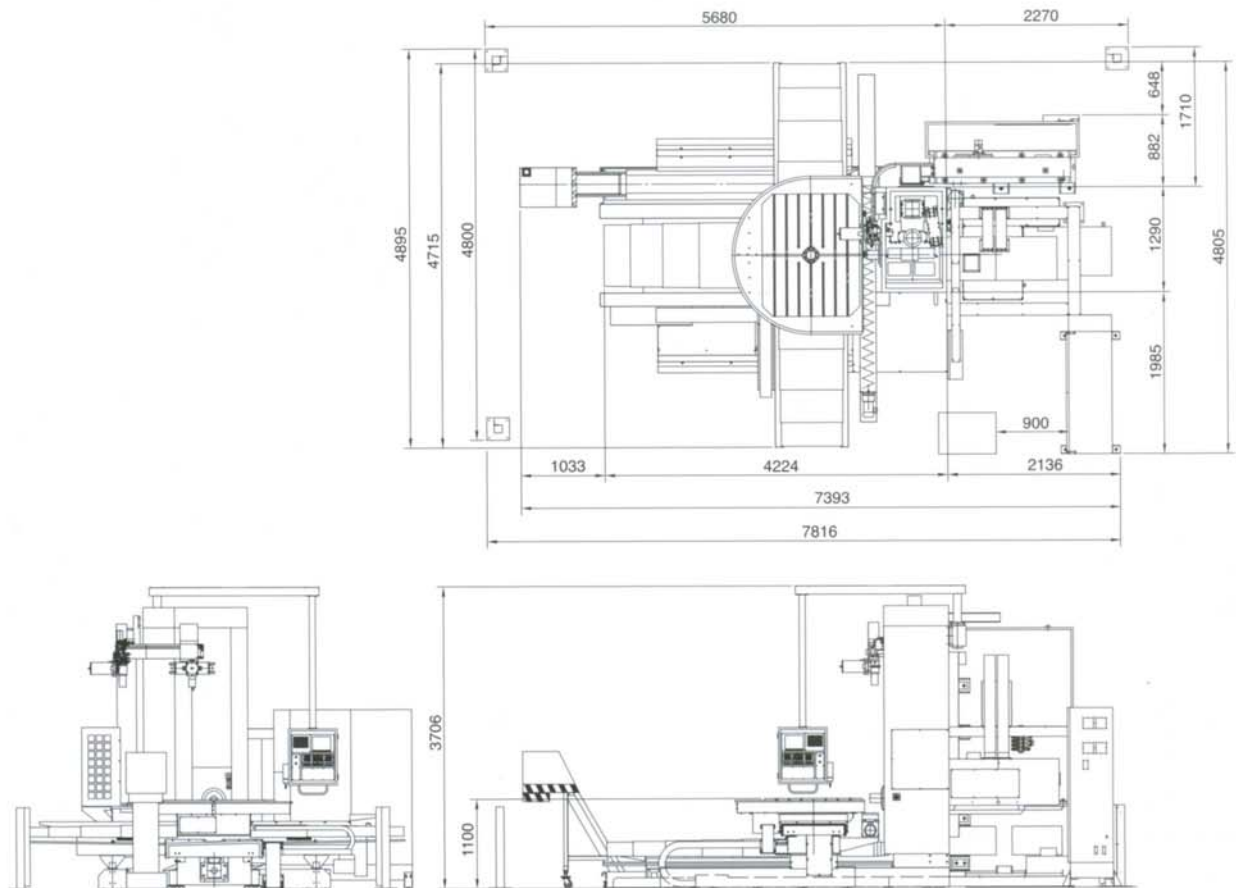
FANUC 15/18kw



FANUC 18.5/22kw (opt.)



Machine Dimensions:



Specifications

Item	Unit	HBM-4
TRAVEL		
X axis travel	mm	2200
Y axis travel	mm	1600
Z axis travel	mm	1600
W axis travel	mm	550
Distance between spindle center to table center	mm	0~1650
Distance between spindle nose to table center	mm	620~2220
TABLE		
Working area of table	mm	1200 x 1500
T slot		7 x 22 x 150
Table max loading weight	Kg	5000
Table index(standard)		1°
SPINDLE		
Spindle taper		ISO No.50
Spindle speed	RPM	35~3000
Spindle step		2 steps(auto.)
Quill diameter (W axis)	mm	ø110
Spindle bearing I/D	mm	ø150
FEED		
X axis rapid feed	mm/min	12000
Y axis rapid feed	mm/min	12000
Z axis rapid feed	mm/min	12000
3 axes cutting feed	mm/min	1~5000
B axis cutting speed	RPM	11
XYZ ballscrew	mm	ø55 x P12/C3 double nut
W axis ballscrew	mm	ø40 x P5/C3 double nut
ATC		
Pocket	PC	60
Max. tool diameter	mm	125/250
Max. tool length	mm	300
Max. tool weight	Kg	25
Time of tool change (T-T)	sec.	9
MOTOR		
Spindle motor (30 minite/continuous)	Kw	18.5/15(std.) / 22/18.5(opt.)
Axes motors (X/Y/Z/B/W)	Kw	3.8/3.8/3.8/3.8/1
Hydraulic motor	Kw	3.75
Coolant pump motor	Kw	1.7
Slideway lubrication motor	W	12
Floor occupation	mm	4895 x 7816 x 3706
Total weight	Kg	22500

*Specification subjects to change without notice

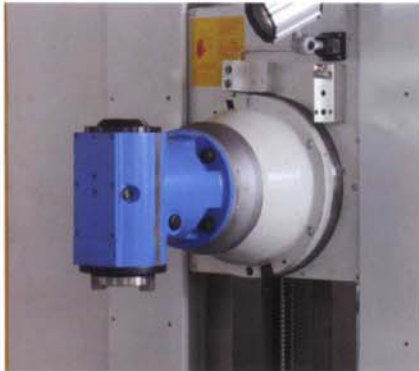
Standard Accessories:

- spindle oil chiller
- auto power off
- chip auger for table & chip conveyer
- coolant system
- hydraulic system
- auto lubrication system
- program end & alarm lamp
- RS232 interface
- work lamp
- MPG box
- Machining leveling plate
- operation manual

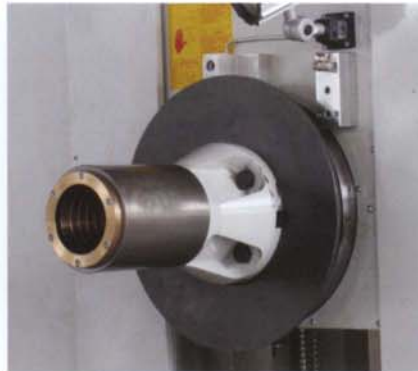
Optional Accessories:

- angle milling head
- Universal milling head
- Angular block, 800 x 525 x 800
- Facing head with telescopic tool holder
- Spindle extension sleeve
- 25 bar or 70 bar high pressure coolant through spindle
- Table guard for CTS
- Safety guard at operator side
- Linear scale for X/Y/Z axes(Fagor or Heidenhain brand)
- Power transformer
- Continuous Rotary Table

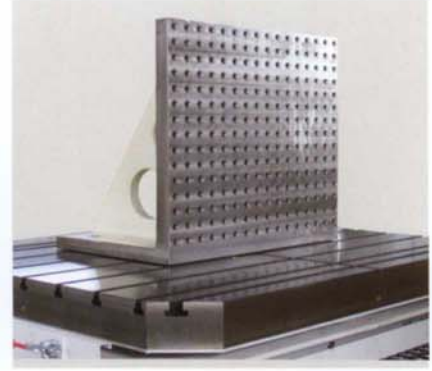
OPTIONAL ACCESSORIES



Angle milling head



Spindle extension sleeve



Angular block, 800 x 525 x 800mm



Safety guard at operator side



Facing head with telescopic tool holder



Table guard for CTS



W W W . r o n m a c k . c o m . a u

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