





# HB-800A

## STANDARDS

SPINDLE OIL COOLER  
CENTRALIZED AUTO LUBRICATION SYSTEM  
COOLANT SYSTEM  
AIR BLOW  
HEAT EXCHANGER FOR CABINET  
WORK LAMP  
SCREW TYPE CHIP CONVEYOR  
M30 AUTOMATIC POWER OFF  
PORTABLE MPG HAND WHEEL  
ALARM LAMP  
TOOL BOX WITH ADJUSTMENT TOOLS  
LEVELING BLOCKS AND BOLTS

## OPTIONAL

COOLANT THRU SPINDLE WITH PRESSURE 20 BAR  
CHIP CONVEYOR WITH BUCKET  
TABLE SPLASH GUARD  
TRANSFORMER FOR OTHER THAN 220V  
ANGLE PLATE  
OIL SKIMMER

# SPECIFICATION **ALL SERIES**

ITEM	UNIT	HB-800A	HB-110B	HB-110A	HB-110-20T	HB-110-30T
			FIXED COLUMN	FIXED COLUMN	MOVEABLE COLUMN	MOVEABLE COLUMN
TABLE						
Table size	mm	1,000 x 1,000 (39-3/8 x 39-3/8 inch)	1,000 x 1,000 (39-3/8 x 39-3/8 inch)	1,200 x 1,000	1,500 x 1,200 (59 x 47-1/4 inch)	1500 x 1200 (59 x 47-1/4 inch)
T slot (Wide x No. x Pitch)	mm	22H8 x 9 x 100 (0.86 x 9 x 4 inch)	22H8 x 9 x 100 (0.86 x 9 x 4 inch)	22H7 x 7 x 125 mm	22H8 x 7 x 150 (0.86 x 7 x 6 inch)	22H8 x 7 x 150 (0.86 x 7 x 6 inch)
Max load capacity	kg	3,000 (6,600 lbs)	3,000 (6,600 lbs)	4,500	5,000 (11,000 lbs)	5000(11,000 lbs)
Min. indexing unit	deg	1° (360 divisions)	1° (360 divisions)	0.001°	0.001° (Every 90 deg with locating pin)	Min. input 0.001 (Every 90 deg with locating pin)
B axis rapid feed	rpm	4	4	2	2	2
Table height from ground	mm	1,103 (43-7/16 inch)	1,103 (43-7/16 inch)	1,145	1,095 (43-1/8 inch)	1095 (43-1/8 inch)
CAPACITY						
X axis travel	mm	2,000 (78-3/4 inch)	2,000 (78-3/4 inch)	1,800	2,000 (78-3/4 inch) [3,000 opt. (118-1/8 inch) opt.]	3000 (118-1/8 inch)
Y axis travel	mm	1,200 (47-1/4 inch)	1,400 (55-3/32 inch)	1,350	1,500 (59 inch)	1500 (option 1800)
Z axis travel	mm	1,200 (47-1/4 inch)	1,150 (45-1/4 inch)	1,020	1,400 (55-3/32 inch)	1400 (55-3/32 inch)
	mm	-	500 (19-11/16 inch)	550 (21-5/8 inch)	550 (21-5/8 inch)	550 (21-5/8 inch)

Spindle nose to table center	mm	275 ~ 1,475 (10-13/16 ~ 58 inch)	-175 ~ 1,475 ( - 6-7/8 ~ 58 inch)	-145 ~ 1,425	-30 ~ 1,920 ( - 1-3/16 ~ 75.1/2 inch)	-30 ~ 1920 ( - 1-3/16 ~ 75.1/2 inch)
Spindle center to table top	mm	0 ~ 1,200 (0 ~ 47-1/4 inch)	0 ~ 1,400 (0 ~ 55-3/32 inch)	0 ~ 1,350	0 ~ 1,500 (0 ~ 59 inch)	0 ~ 1500 (option 1800)

## SPINDLE

Spindle nose	mm	BT50	BT50	BT50	BT50	BT50
Spindle diameter	mm	-	110	110	110	110
Output max.	kg-m	-	135	135	135	135
Spindle speed (2 ranges)	Lo-speed	rpm	30 ~ 1300	5 ~ 625	5 ~ 625	5 ~ 625
	Hi-speed	rpm	1,301 ~ 3,000	626 ~ 2,500	626 ~ 2,500	626 ~ 2,500

## FEED

Rapid X, Y, Z, W axis	m/min	15 / 12 / 15 / -	15 / 12 / 15 / 6	15 / 12 / 15 / 6	10 / 10 / 10 / 6	10 / 10 / 10 / 6
Rapid table rotation	rpm	4	4	2	2	2
Feed rate of X, Y, Z axis	mm/min	1 ~ 6,000	1 ~ 6,000	1 ~ 6,000	1 ~ 6,000	1 ~ 6,000
Feed rate of W axis	mm/min	-	1 ~ 4,000	1 ~ 4,000	1 ~ 4,000	1 ~ 4,000
X, Y, Z axis ballscrew (Dia. / Pitch)	mm	50 / 10	50 / 10	50 / 10	63 / 10	63 / 10
W axis ballscrew (Dia. / Pitch)	mm	-	40 / 10	40 / 10	40 / 10	40 / 10

## A.T.C.

Magazine capacity	pcs	60	60	60	60	60
Pull stud	-	MAS-P50T-1	MAS-P50T-1	MAS-P50T-1	MAS-P50T-1	MAS-P50T-1
Max. tool length	mm	400	400	400	400	400
Max. tool weight	kg	25	25	25	25	25
	mm	Ø125 / Ø250 (w/o adjacent tool)	Ø125 / Ø250 (w/o adjacent tool)	Ø125 / Ø250 (w/o adjacent tool)	Ø125 / Ø250 (w/o adjacent tool)	Ø125 / Ø250 (w/o adjacent tool)

Tool selection	-	Shortest path in sequence	Shortest path in sequence	Shortest path in sequence	Shortest path in sequence	Shortest path in sequence
Tool change time(approx)	sec	15	15	15	15	15
<b>MOTORS</b>						
Spindle motor	kW	15 / 18.5	22 / 26	22 / 26	22 / 26	22 / 26
Servo motor for X, Y, Z, B, W	kW	7 / 7 / 7 / 4	7 / 6 / 7 / 4 / 7	7 / 6 / 7 / 7 / 7	6 / 6 / 6 / 7 / 7	6 / 6 / 6 / 7 / 7
Centralized lubrication pump	W	150	150	150	150*2	150*2
Hydraulic pump	kW	2.2	3.7	3.7	3.7	3.7
Spindle oil cooler pump	kW	0.75	1.95	1.95	1.95	1.95
Coolant pump	kW	1	1	1	1	1
<b>GENERAL INFORMATION</b>						
Pneumatic required	kg/cm <sup>2</sup>	6	6	6	6	6
Coolant tank	L	350	350	250	250	250
Machine dimension	mm	5,030 x 5,100 x 3,250	4,285 x 5,587 x 3,605	4,285 x 5,587 x 3,605	4,480 x 5,510 x 3,820	5,600 x 5,510 x 3,820
Machine weight (Approx.)	kg	18,000 (39,600 lbs)	21,000 (46,200 lbs)	22,000	24,500 (53,900 lbs)	25,800 (56,760 lbs)
CNC control	-	Fanuc 0i-MF	FS-0i-MF	Fanuc 0i-MF	FS-0i-MF	Fanuc 0i-MF

**\*Design and specifications are subject to change without prior notice.**

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