Eumach

FLOOR TYPE TRAVELING COLUMN MEDIUM & SMALL SIZED HORIZONTAL MILLING CENTERS

MB Series

CE

EMC / CE / ISO 9002 CERTIFIED

A PROFESSIONAL CNC MACHINES MANUFACTURER

Traveling column horizontal milling

Significant technical features and advantages of MB series floor type horizontal milling machines :

- **Large travel choices : X axis : 1260mm~8000mm, Y axis : 900mm~1500mm, Z axis : 800mm~1200mm**
- **Travelling column on 3 axis & fixed table standard design for an almost no weight limit work piece.**
- **Pendulum machining reduces much more down time than traditional twin pallet changer system.**
- **Extra long fixed table up to 8 meters for ease of workpiece location and setting.**
- **Much more expansion possibility to suit individual applications, such as additional milling heads, table group, Automatic tool changer and CNC rotary tables etc. up to 5 axis simultaneious.**

MB-1500

▶ **MB-1500**

Without any table but with 24 TOOLS ATC.

machine

▶ Twin yotary tables, loading/unloading another workpiece is possible while spindle is working.

MB-1500

▶ **MB-1500**

1500/900/800mm travel, 15kw motor, 6000rpm, #50 taper, 20000kg and with optional full guard & 60 arm atc & 2 index tables.

MB-1500

- Door opening is wider than index table width with ease operation of workpiece setting even from top crane, the sliding roof keeps chip, water and nose inisde of guarding.

- 3 side windows on left side guaridng for easy monitoring machine every movement. MB-1500 machine with 24 ATC, 1200mm square index table.

MB-1500

VH-2 automatic 2 positions milling head, BT#50 / 3500RPM

▶ MB-1500 machine with 32 ATC, 1200mm square index table, automatic vertical & horizontal head

MB-2500

- With 2500x900x800mm travel, 18.5kw spindle motor, 800x800mm integrated indexing table.

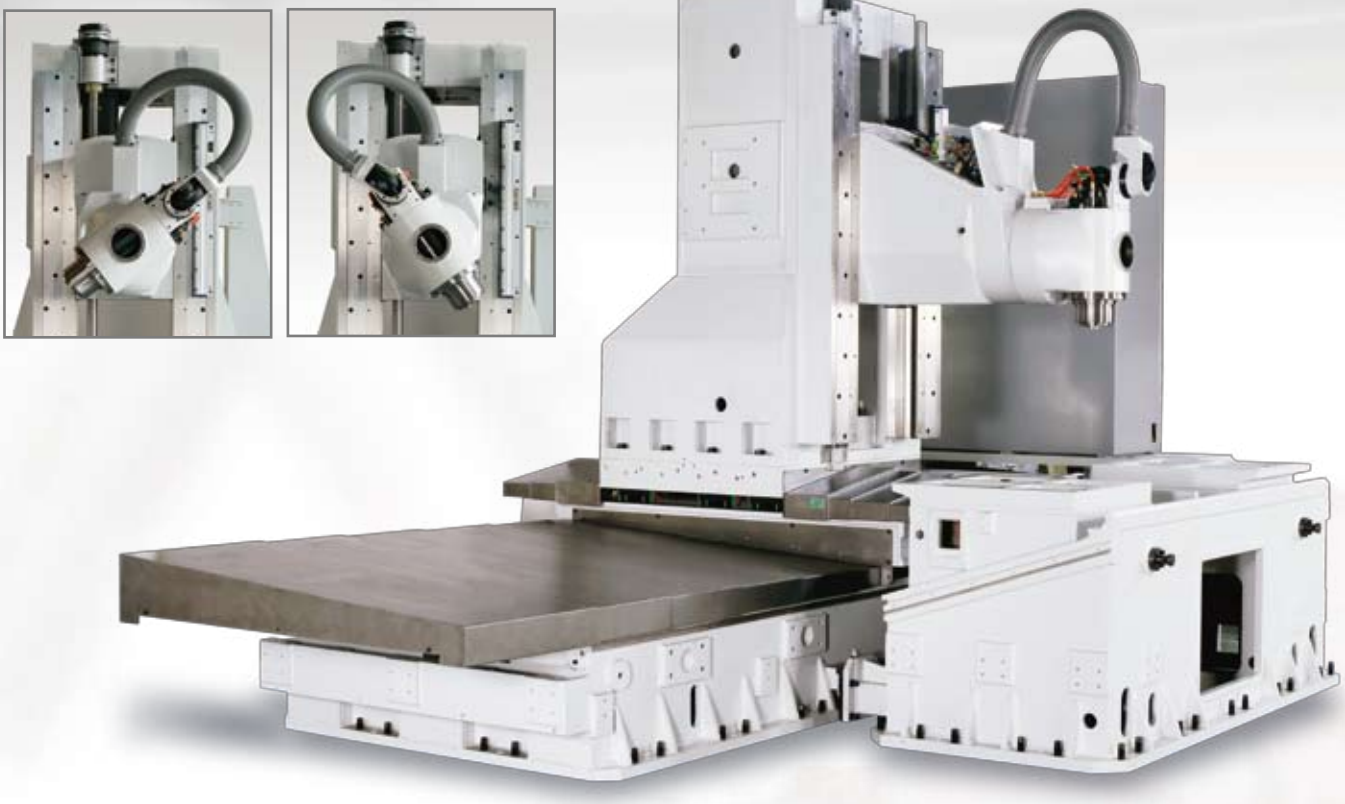
- With 2500x1200x800mm travel, 7.5kw built-in 8000 rpm motor, #40 taper, 12 atc, auto. vert/hori head, integrated ∅800mm rotary table.

MB-3200

▶ Heavy machine frame for MB-3200 with universal milling head & 24 ATC

▶ MB-3200 with Optional universal milling head, 24 stations ATC, Heidenhain iTNC - 530 control.

MB-3200



▶ Heavy machine frame for MB-3200 with left & right swivel head

▶ 3200 / 900 / 800mm travel, swivel head left & right +- 120 deg. BT#40 / 14000RPM

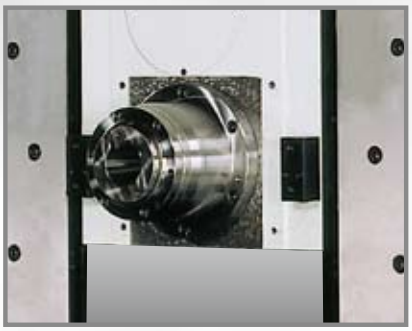
MB-3200

▶ Heavy machine from for MB-3200-5XC with universal swivel head

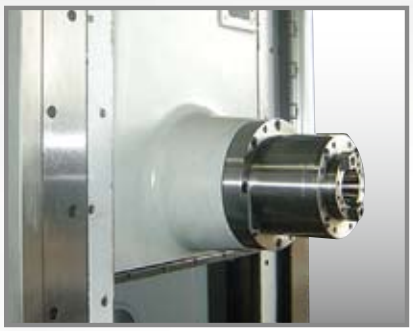
▶ 3200 / 1200 / 1500mm travel, universl head, HSK-A100 / 12000RPM, 800mm dia. integrated torque table

Various versatile options to

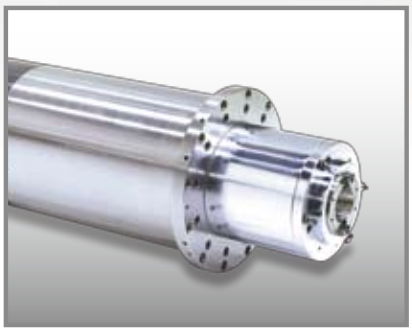
SPINDLE NOSE :



standard nose to column 250mm



optional long nose to column 350mm



BT#50 / 1000RPM / 30kw / 350Nm / long nose motor spindle.

MILLING HEADS :

Attachment type, removable :

VAR3
manual rotation universal milling head BT#50 / 3000RPM

VH-2
automatic vertical & horizontal 2 positions, BT#50 / 3500RPM

Built in type, non-removable :

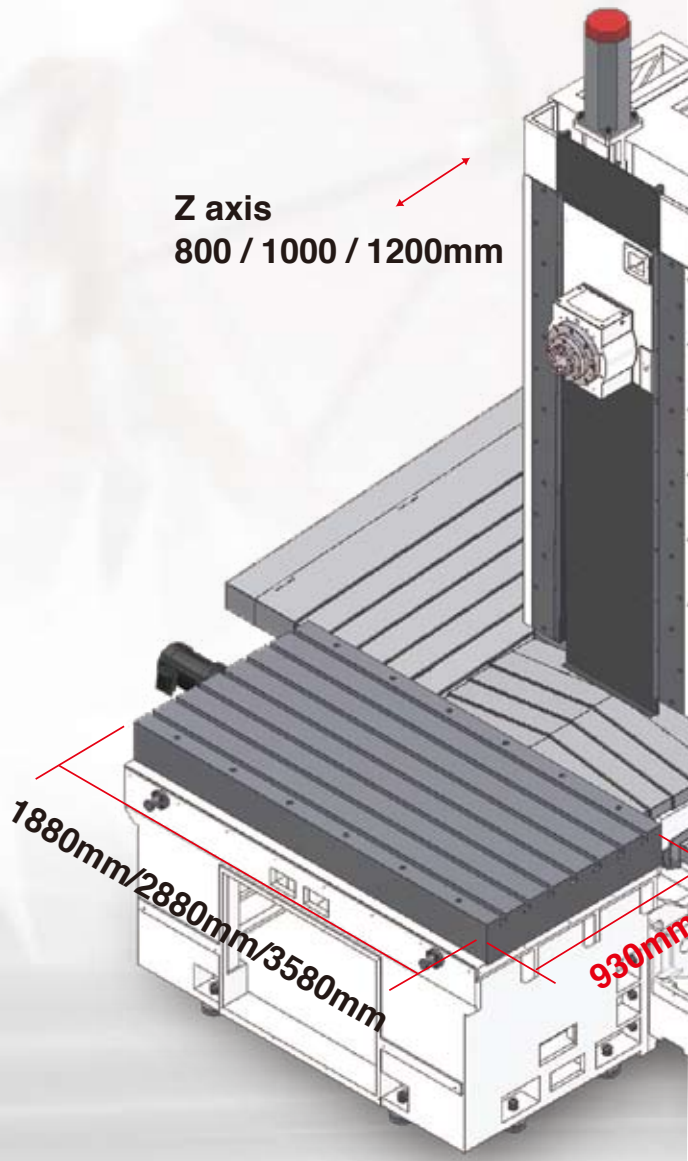
VH-2.5 & VH-1
automatic index 2.5˚ or 1˚ on two axis, BT#50 / 3500RPM

VH-S
swivel type milling head, BT#40 / 29.3KW / 35KW / 70Nm / 160Nm / 14000RPM /+-110˚

VH-U
universal type milling head, HSK-A100 / 34KW / 42KW / 1 60Nm / 220Nm / 10000RPM

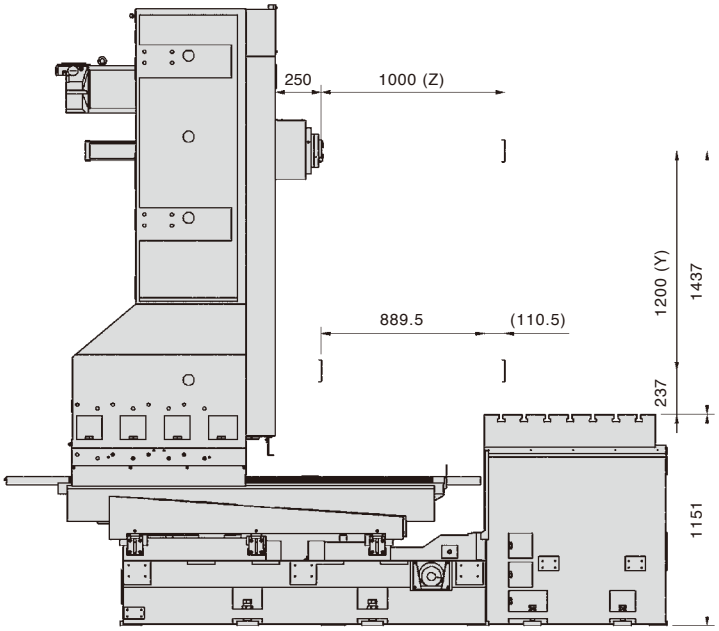
VH-F
fork type milling head, HSK-A100 / 34KW / 42KW / 160Nm / 220Nm / 10000RPM / +-105˚

MB Standard

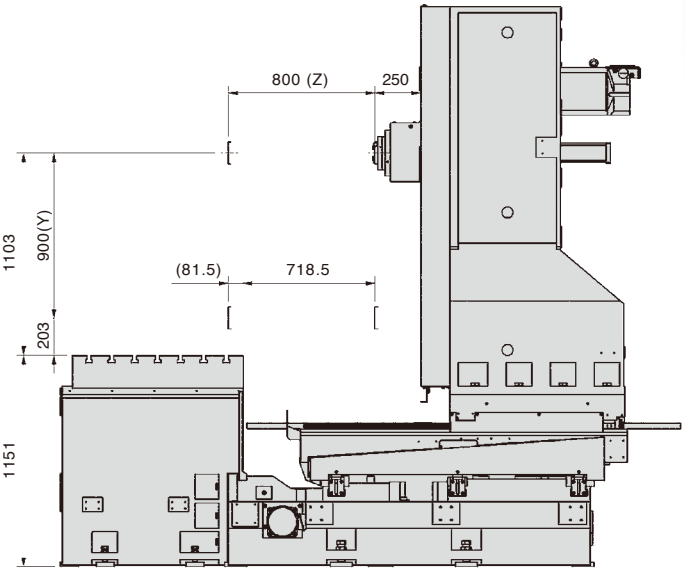


General side view dimension :

Side views :

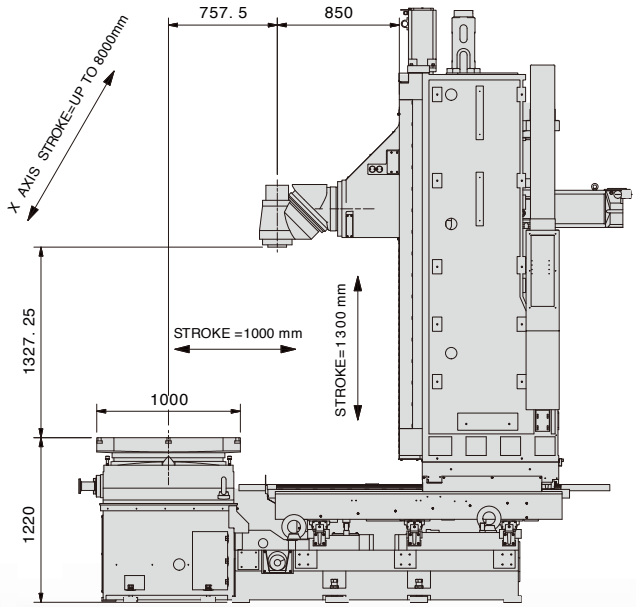


▶ Y Z axis with optional longer travel

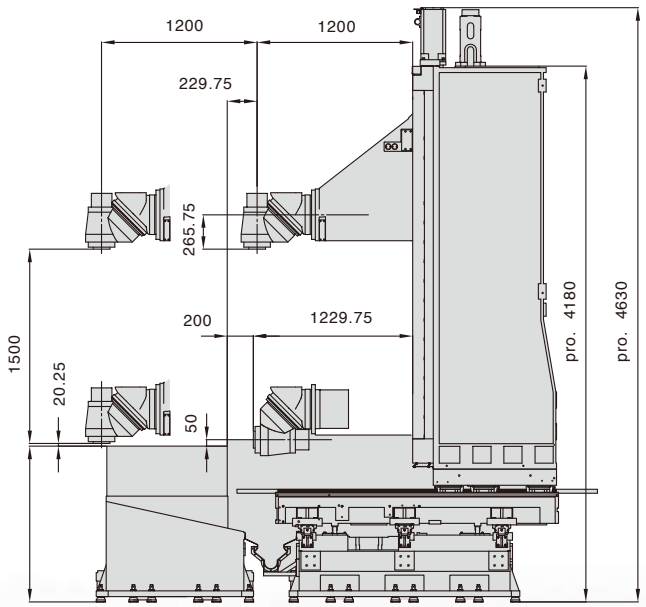


▶ Y Z axis with standard travel

▼ With optional VH-2.5 head :



▶ Machine with VH-2.5 automatic milling head, 1000mm cross travel, 1300mm vertical travel and 850mm throat distance.



▶ Machine with VH-2.5 automatic milling head, 1200mm cross travel, 1500mm vertical travel and 1200mm throat distance.

MB series horizontal milling machines :

UNIT : MM

MODEL	UNIT	MB-1500	MB-2500	MB-3200
TABLE:				
OVERALL SIZE	MM	1880 X 930	2880 X 930	3580 X 930
T SLOTS (SIZE X NO X PITCH)	MM	22 X 7 X 125		
MAXIMUM LOADING	KG	10000	18000	25000
TRAVEL:				
XYZ	MM	1500 / 2500 / 3200 X 900(1200,1500) X 800(1000,1200)		
DISTANCES :				
SPINDLE NOSE TO TABLE EDGE	MM	-81.5 ~ 718.5 (-110.5 ~ 889.5)		
SPINDLE CENTER TO TABLE TOP	MM	203 ~ 1103 (237 ~ 1437)		
SPINDLE NOSE TO COLUMN SURFACE	MM	250 (350)		
FLOOR TO TABLE	MM	1151		
SPINDLE & AXIS MOTOR:				
SPEED	RPM	6000		
TAPER	BT#	50		
MOTOR	KW	15KW / 18.5KW		
X / Z AXIS	NM	22 / 22	30 / 22	30 / 22
Y AXIS	NM	22 WITH BRAKE		
FEEDRATE:				
CUTTING FEEDRATE	MM / MIN	1-5000		
RAPID FEEDRATE	M / MIN	10 (15)		
MINMUM SETTING	MM	0.001		
AUTOMATIC TOOL CHANGER (OPTIONAL) :				
TYPE OF ATC		SWING ARM WITH RAIL		
NO.OF ATC	TOOLS	24,32,40,60		
MAX.TOOL (DIA / LENGTH)	MM	250 / 300		
MAX. TOOL WEIGHT	KG	15 (25)		
BALLSCREWS ON X / Y/ Z AXIS :				
DIAMETER X PITCH	MM	63 / 50 / 50 X 10		
PRECISION CLASS (C3)	MM / 300MM	0.008		
COOLANT & LUBRICATION :				
COOLANT MOTOR POWER	KW	0.86		
COOLANT TANK VOLUME	L	200	350	350
COOLANT MOTOR CAPACITY	L / MIN	20		
LUBRICCATION MOTOR POWER	WATT	25		
ACCURACY : (JIS 6338)				
POSITIONING	MM	±0.005MM / 300MM		
REPEATABILITY	MM	±0.003MM		
MISCELLANEOUS :				
PNEUMATIC REQUIRED	KG	7		
POWER REQUIRED	KVA	40		
MACHINE NET WEIGHT	KG	21000	25000	30000

Note : above specifications may change without notice **( ) OPTION**

STANDARD FEATURES & ACCESSORIES

1.PROGRAMMABLE COOLANT SYSTEM
2.AUTOMATIC LUBRICATION SYSTEM
3.SPINDLE AIR BLAST SYSTEM
4.WORKING LAMP
5.ALARM LAMP FOR ABNORMAL SITUATION
6.INDICATION LAMP FOR DWELL & END OF JOB
7.LEVELLING BOLS & PADS
8.BT#50 SPINDLE
9.PRE-EXTENSIONED BALLSCREWS
10.RS-232 TERMINAL INTERFACE PORT
11.MACHINE & CONTROL MANUALS
12.TOOLBOX WITH SPANNERS &WRENCHES

CNC CONTROLS AVAILABLE: FANUC, HEIDENHAIN, SIEMENS

increase your productivity:

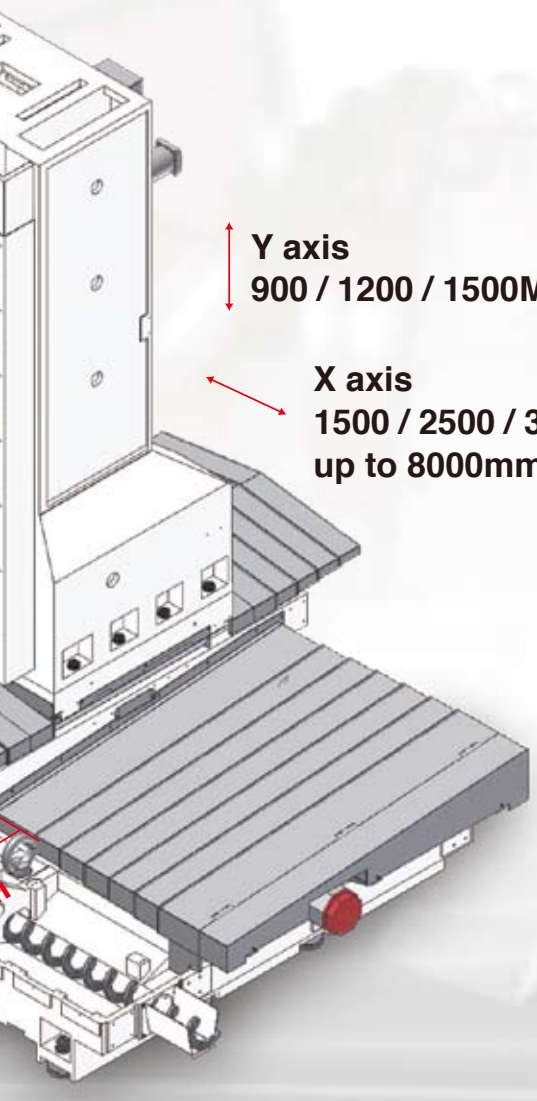
ATC :

1. 24 station fixed on traveling column, horizontal tool changer

2. 40,60,90 stations fixed on floor, horizontal tool changer

3. 24 stations fixed on traveling column, vertical tool change.

Feature



Y axis
900 / 1200 / 1500MM

X axis
1500 / 2500 / 3200mm
up to 8000mm

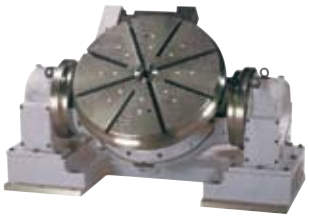
TABLE :

standard plain fixed table or following optional tables :

1. Φ610mm / Φ800mm / Φ1000mm rotary table integrated into standard long fixed table.

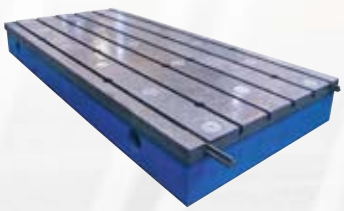
2. Φ1650mm / 0.001° / 8000kg load / CNC rotary table

3. 1600 B axis rotary table with1500mm V axis travel, 8 tons load



5. two axis tilting rotary tables Φ630mm or Φ800mm

4. Angle plate various size from 400mm square up to 1600mm square



6. Various floor plates

EUMACH FAMILIES

- **VMC-2150**
  Vertical machine center
  600MM ~ 3200MM X axis travel

- **TVMC-2000 / 5000**
  Moving column machine center
  2320MM & 5320MM X axis travel

- **LBM-1500**
  High speed bridge type machine center
  1100MM ~ 2200MM X axis travel

- **MH-500**
  Horizontal machine center
  720MM x 650MM x 650MM travel

- **EBM-2150**
  5 Face machine center
  1400MM ~ 3200MM X axis travel

- **UMC-1000**
  5 Axis machine center
  1000 / 800 / 700MM, BT#40,
  14000RPM

- **DVM-4025**
  5 Face & double column machine center

- **FBE-1500**
  Universal milling machine
  1500MM ~ 4000MM X axis travel

- **FBM-4025**
  Heavy duty floor type boring
  machining center

Eumach Co.,LTD.
★Specifications subject to change without notice.
Catalogue No.A1080203

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