



EUMACH FAMILIES



• **VMC-2150**
Vertical machine center
400MM ~ 3200MM X axis travel



• **TVMC-2000 / 3000**
Moving column machine center
2320MM & 3320MM X axis travel



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



• **FBM-10040**
Floor type milling center
4M ~ 20M X axis travel



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



• **MB-1500**
Moving column horizontal machine center
1100MM ~ 2200MM X axis travel



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



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



• **UMC-1000**
5 Axis machine center
1000MM x 800MM x 700MM travel

FMS-A7010101 886-4-2583-2288

Eumach

Always A Step Ahead



HSM - 800 / 1000L / 1175 / 1350 / 1500 / 1575

**HIGH SPEED MILLING
VERTICAL MACHINING CENTER**

A PROFESSIONAL CNC MACHINES MANUFACTURER

Eumach Co.,LTD.

★Specifications subject to change without notice.
Catalogue No.A7010101

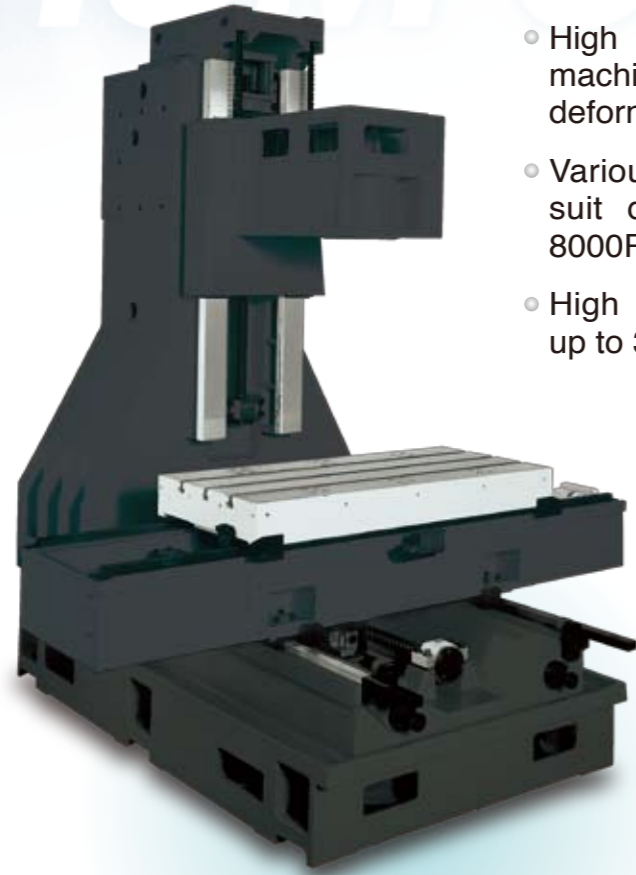
2, YING LIN LANE, HE-SHENG STREET, SHI-GANG DISTRICT, TAICHUNG CITY 422, TAIWAN, R.O.C.
TEL:886-4-25810031 FAX:886-4-25810003

E-mail:eumach.coltd@msa.hinet.net ; eumach@ms8.hinet.net
http://www.eumach.com

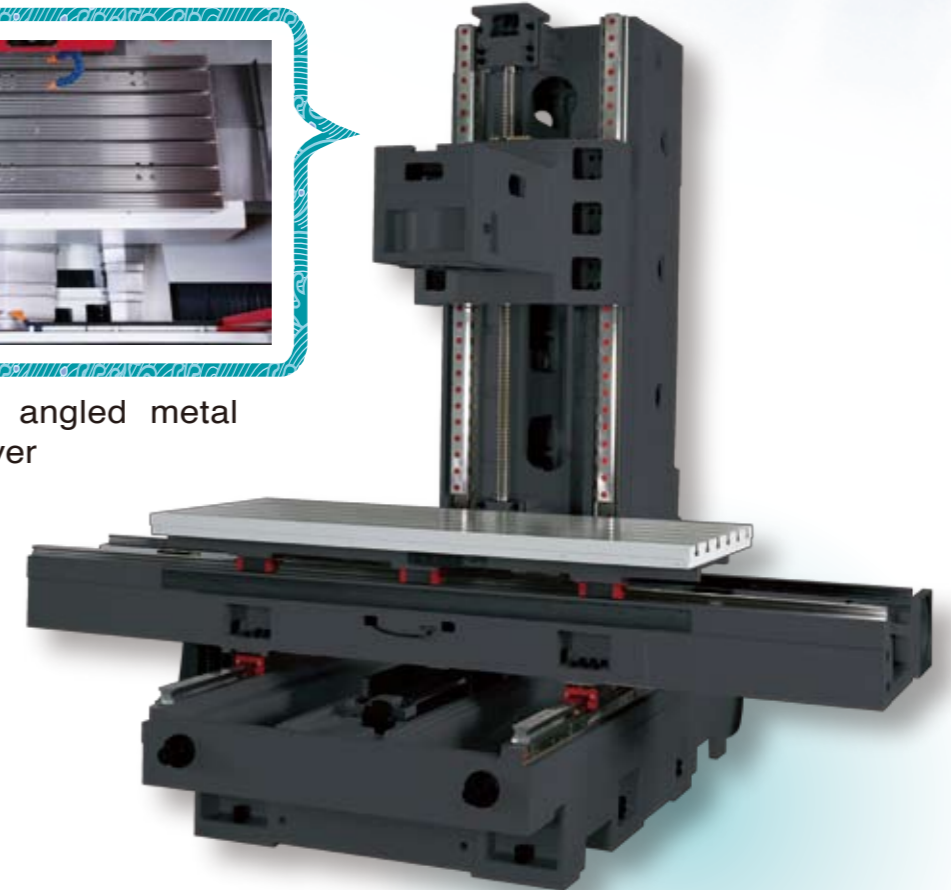


SUPERIOR DESIGNED FEATURES:

- High quality casting made machine frame without any deformation.
- Various spindle design to suit different applications 8000RPM ~ 30000RPM
- High axis rapid feed rate up to 36 meter per minute.



3 sets large angled metal telescopic cover



HSM-800 : 800MM X 510MM X 610MM

HSM-800



HSM-1000L : 1100MM X 610MM X 610(810MM)

HSM- 1000L



HSM-1350 : 1350MM X 620MM X 810MM

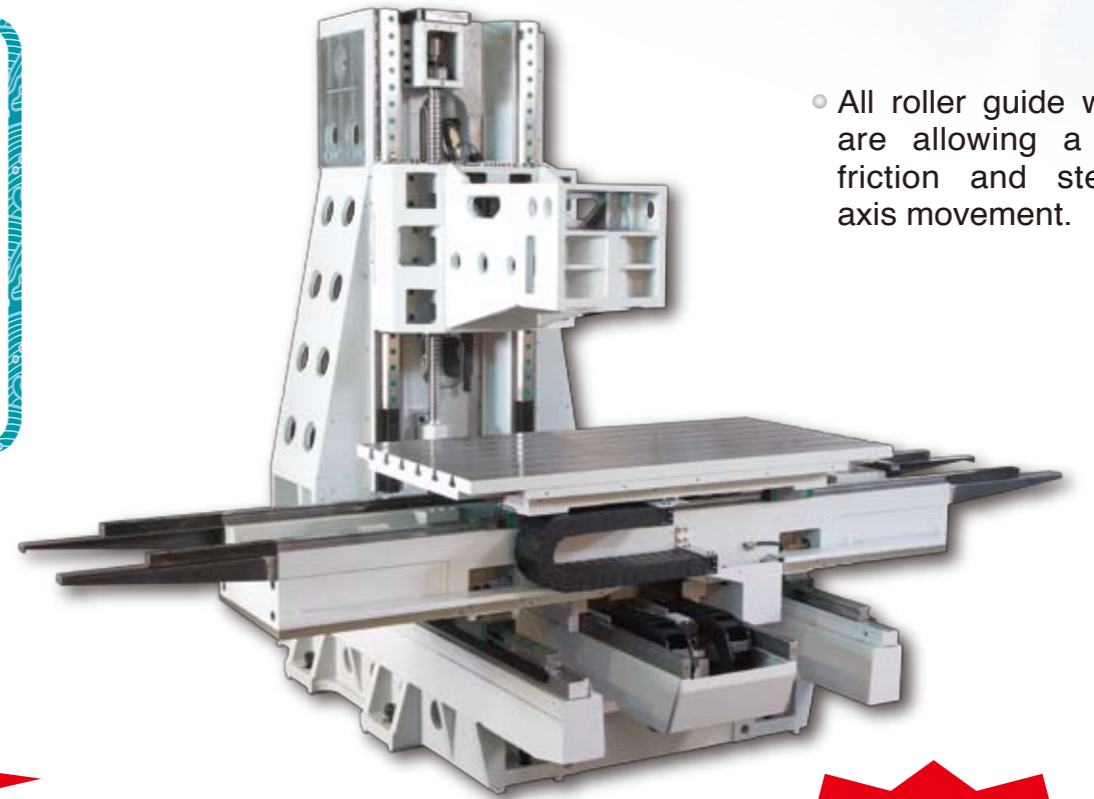
• HSM-1350

THE EXACT MECHANICAL RIGID DESIGN

- All castings are being stress relieved and seasoning treated for long term accuracy & long service life.



3 sets large angled metal telescopic cover



- All roller guide ways are allowing a low friction and steady axis movement.

**#50 / HSK-A100
SPINDLES AVAILABLE
NOT ONLY HIGH SPEED
BUT ALSO HEAVY DUTY**

48 METER RAPID FEED

**GERMAN
DESIGNED**

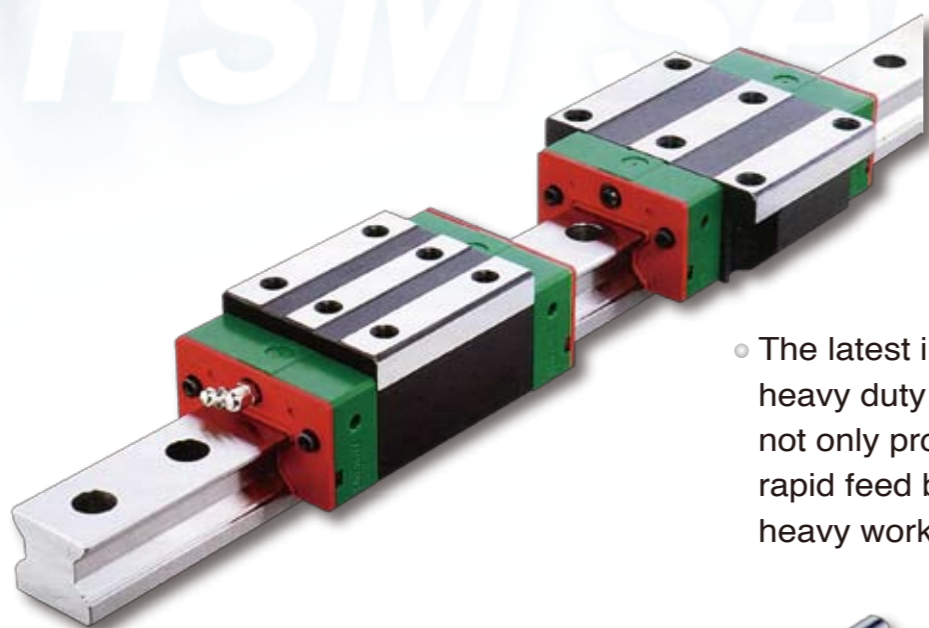


HSM-1500 HSM-1500 : 1500MM X 700MM X 610(800MM)

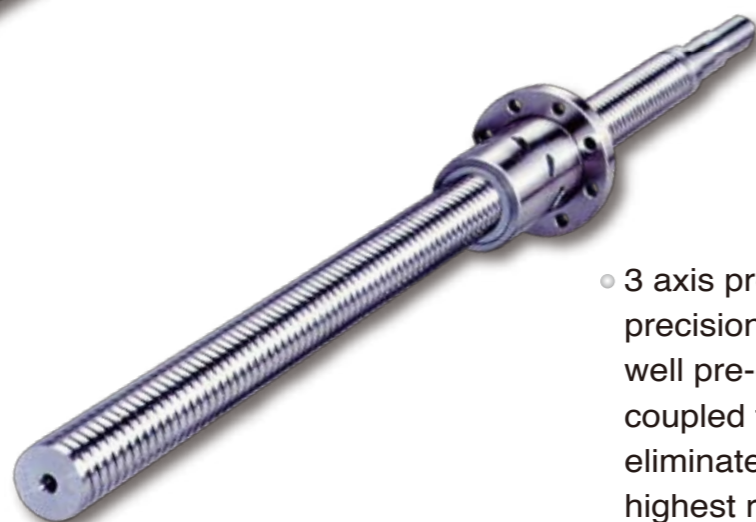
HSM-1175 : 1100MM X 750MM X 650(900)MM
HSM-1575 : 1500MM X 750MM X 650(900)MM

• HSM-1175/1575

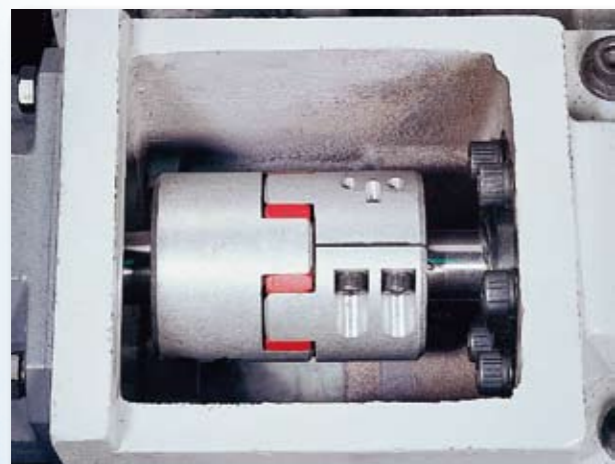
SUPERIOR TRANSMISSION COMPONENTS



- The latest improved four-row super heavy duty linear guideway on 3 axis, not only provides fast & accurate rapid feed but also the allowance of heavy work piece Z axis.



- 3 axis pre-loaded C3 class high precision Ballscrews all has been well pre-extended and directly coupled to ac servo motors, greatly eliminates backlash and ensures highest rigidity.



- Large diameter ultra precision ballscrews directly coupled to the feed motor and are arranged in center of each guideways and close the cutting point.



- Each ballscrew end support is with pre extended devices for absolute screw straightness and long life. (R.O.C.pantent no.72650)

HIGH PRECISION, RIGID SPINDLE

Standard Belt Drive :



#40/8000RPM or #50/6000RPM, all with high precision P4 angular contact steel ball bearings with self-greased lubrication.

Optional Direct Coupling:



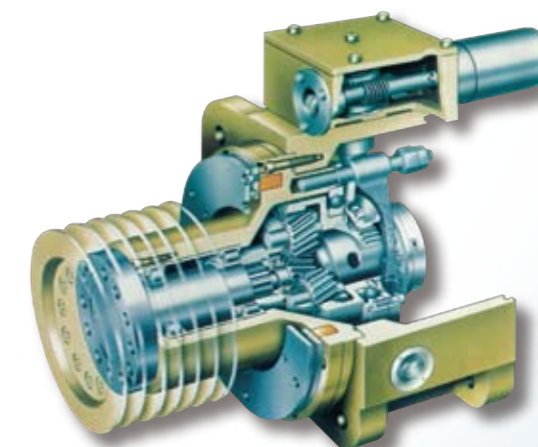
#40/HSK-A63 : 12000RPM or 15000RPM or #50/10000RPM, all with high Precision P4 hybrid ceramic ball bearings with self-greased lubrication.

Optional Motor Spindles :



HSK-A63 : 18000/24000/30000RPM or HSK-A100 : 12000/15000RPM, all With high precision P4 hybrid ceramic ball bearings, either self-greased or oil-aired lubrication.

Optional Planetary Gearbox :



#40 : 6000/8000/10000RPM or #50 : 6000/8000/10000RPM, all with high Precision P4 angular contact steel or ceramic bearings ball bearings with self-greasedlubrication via a HTD belt drive.

Note : All above #50/HSK-A100 spindle only for HSM-1500

• **HSM Series**

OPTIONAL ACCESSORIES



• Tool length & radius measurement



• Ring type coolant nozzles & tool length measurement

• Workpiece probe



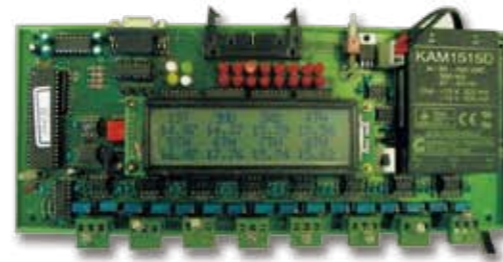
• Coolant thru spindle device



• Chain type chip conveyor



• Spindle thermo compensation guarantee within 20 microm



• Axis linear glass scales



• Cnc rotary table

HSM Series Roller Guide Ways Vertical Machining Centers:

Unit : MM / () options

MODEL	HSM-800	HSM-1000L	HSM-1175	HSM-1350	HSM-1500	HSM-1575
TABLE:						
Overall size	870×500	1200×610	1350×700	1560×620	1600×700	
T slots	18×3×100	18×6×100			18×5×100	18×6×100
Maximum load kg	500	850	1000	1200	2000	1500
TRAVEL:						
X axis	800	1020	1100	1350	1500	1500
Y axis	510	610	750	620	700	750
Z axis	610	610	650 (900)	810	610 (800)	650 (900)
ROLLER GUIDE WAY:						
Linear way width	35 / 35 / 45		35 / 45 / 45	45 / 45 / 45	45 / 55 / 55	35 / 45 / 45
DISTANCES:						
Spindle to column ways	550	705	831	710	758	831
Spindle to z axis cover	510	654	764	650	706	764
Spindle to table top	110~720	77~887	50~700 (950)	80~890	140~750	50~700 (950)
Floor to table top	810	820	999	868	1008	999
SPINDLE:						
Taper	#40 (HSK-A63)			#40 (50)	#40 (HSK-A63)	
Speed RPM	8000 (~30000)			8~30K (6~15K)		8000 (~30000)
Front bearing dia.	70			70 (90)		70
Motor Kw	7.5 / 11 (~22 / 26)					
Transmission	1:1 HTD belt (direct coupling, motor spindle)					
AXIS MOTORS :						
Axis motor torque Nm	12 / 12 / 22		12 / 12 / 22	22 / 22 / 22	22 / 22 / 40	22 / 22 / 22
Motor power Kw	3 / 3 / 4		3 / 3 / 4	4 / 4 / 4	4 / 4 / 6	4 / 4 / 4
Rapid feed rate M	30 / 30 / 24		48 / 48 / 48	30 / 30 / 24	48 / 48 / 36	48 / 48 / 48
ATC SWING ARM :						
No. of tools	24 (32, 40, 60)				24 (32, 40)	24 (32, 40, 60)
Max. Tool diameter	125				125 (150)	125
Max. Tool length	250				250 (300)	250
BALLSCREWS:						
Dia. / pitch (X / Y / Z)	45 / 40 / 50×12		45 / 40 / 40×16	45 / 40 / 50×12	50 / 50 / 50×16	45 / 40 / 40×16
Precision class (C3)	0.008MM / 300					
NET WEIGHT kg	5000	7000	8500	9800	12000	11000

STANDARD FEATURES & ACCESSORIES



- Arm type tool changer system
- Screw type chip quger & bucket
- Full splash guard.
- Programmable coolant system.
- Automatic lubrication system.



- Spindle air blast system.
- working lamp.
- Alarm lamp for abnormal situation.
- Indication lamp for dwell & end of job.
- Levelling bolts & pads.
- RS-232 terminal interface port.
- Machine & Control Manuals.Toolbox with soznners & wernches.
- Spindle oil cooler device.