



## 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 886-4-2235-2288

# 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

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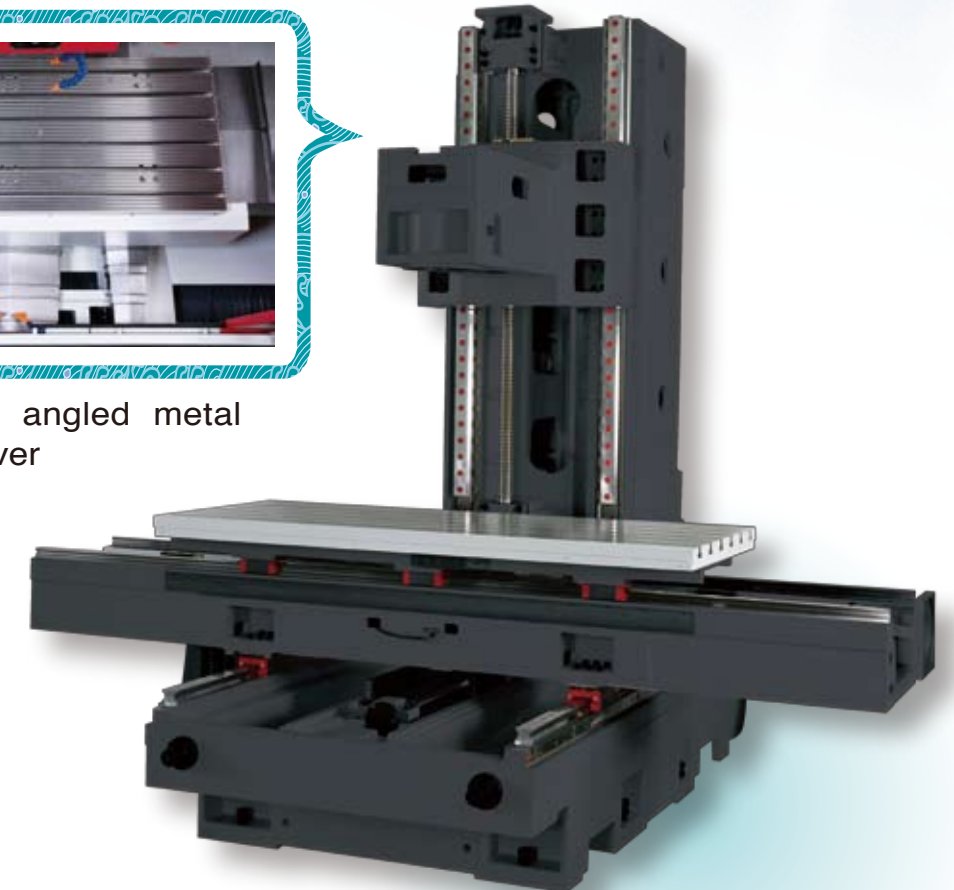
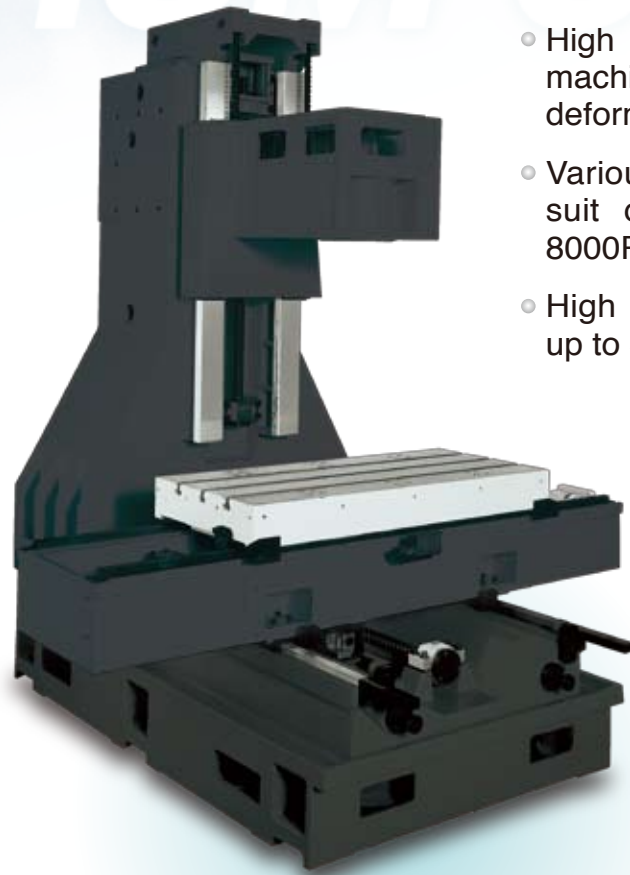


# ***SUPERIOR DESIGNED FEATURES:***

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



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

**HSM-800**

**HSM- 1000L**

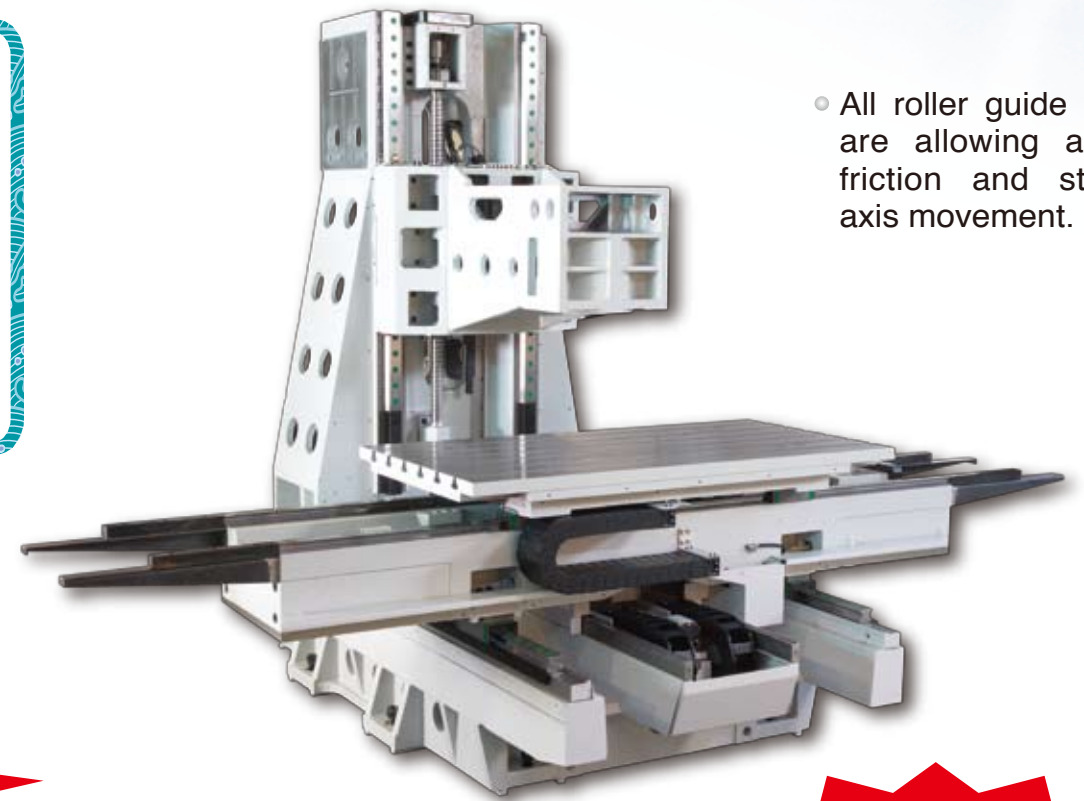
**• HSM-1350**

# HSM Series *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**

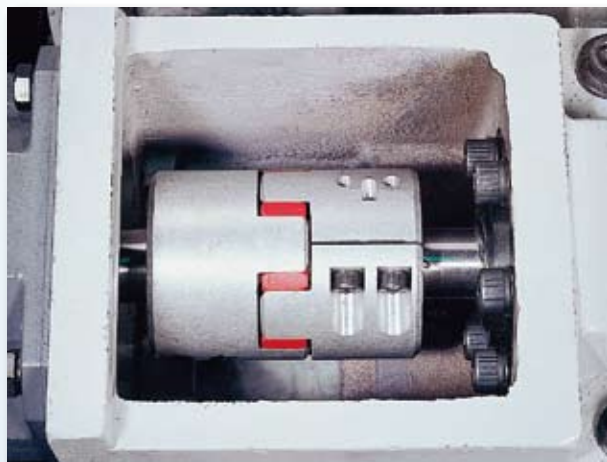
## SUPERIOR TRANSMISSION COMPONENTS



- 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:



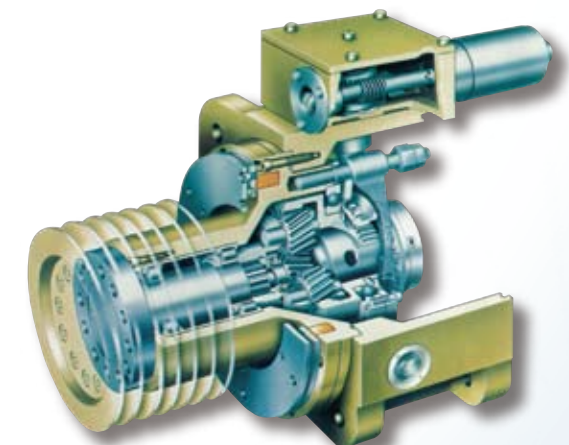
#40/HSK-A63 : 12000RPM or 15000RPM or #50/10000RPM, all with high Precision P4 hybrid ceramic ball bearings with self-greased lubrication.

### 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



Workpiece probe



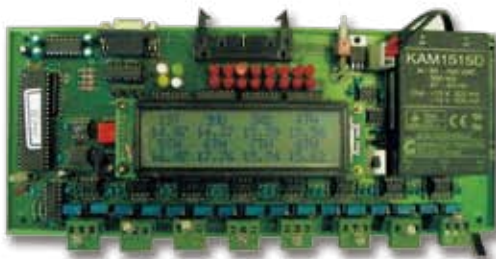
Coolant thru spindle device



Chain type chip conveyor



Ring type coolant nozzles & tool length measurement



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 teminal interface port.
- Machine & Control Manuals.Toolbox with soznners & wernches.
- Spindle oil cooler device.