

Eumach

Always A Step Ahead



HSM-600

**HIGH SPEED MILLING
VERTICAL MACHINING CENTER**

A PROFESSIONAL CNC MACHINES MANUFACTURER

THE MOST COMPACT, FAST AND ERGO PROVIDES NOT ONLY IMPROVED PROD DYNAMIC RIGIDITY AND HIGHER PRECI

Eumach has more than 30 years manufacturing & delivering several thousands vertical machining centers, now introduce the latest developed smallest machine into HSM family

- 48M / 48M / 48M 3 axis rapid feed rate
- Up to 18.5KW main spindle is possible
- Up to HSK-E40 / 40000RPM is possible too



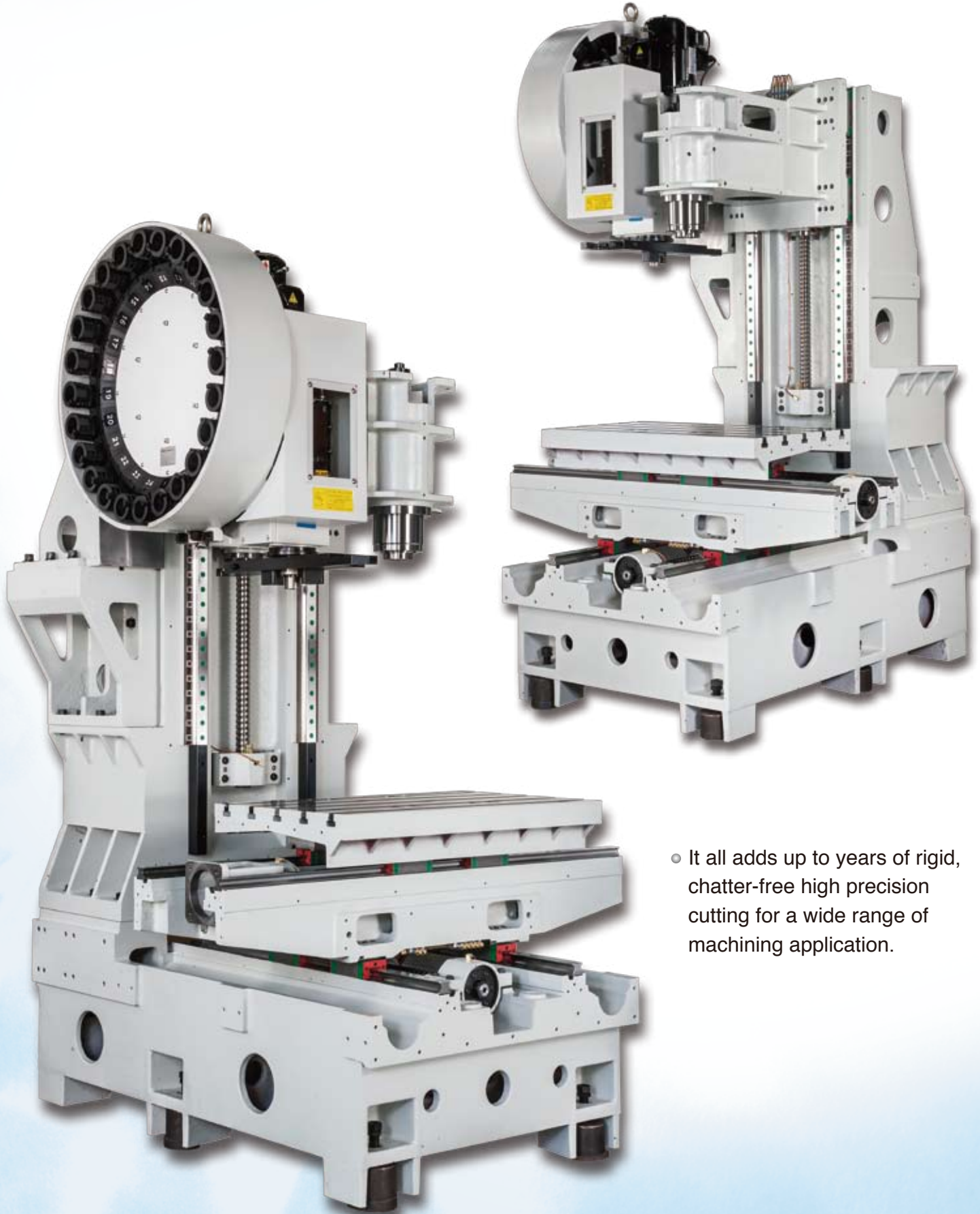
HSM-600

NOMIC VERTICAL MACHINING CENTER UCTIVITIES BUT ALSO GREATER SION.



SUPER RIGID MACHINE FRAME

- All castings are stress relieved and seasoning treated for long term accuracy and long service life.
- Under the sheet metal guarding, you will find a heavily ribbed and high grade Meehanite casting for unparalleled rigidity and stability, which designed for superior vibration absorption, improved surface finishing and longer tool life !



- It all adds up to years of rigid, chatter-free high precision cutting for a wide range of machining application.

COMPACT GUARDING DESIGN, ACCESSIBLE & ERGONOMIC



▲ Left side big windows for tools loading/unloading & big long work piece in & out.



▲ Right side big window for big long work piece in & out.



▲ Scissor type door sliding device make twin doors open & close easily by only one handle



▲ Full guarding covers oil cooler, transformer, pneumatics etc. on rear side for clean environment and easy maintenance.

POWERFUL TRANSMISSION SYSTEM



▶ The latest improved super heavy duty roller guideway on all 3 axis, not only provides fast & accurate rapid feed but also the allowance of heavy work piece 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.



▲ Even a small machine but still has standard 2 sets screw type chip augers on Y axis direction machine bed to remove chips & water efficiently; an optional water flushing device is possible too for lots of chip applications.

HSM-600 & other bigger machines specifications :

Unit : MM

MODEL	HSM-600	HSM-800	HSM-1000L	HSM-1175	HSM-1350	HSM-1500	HSM-1575
TABLE:							
Overall size	860×500	870×500	1200×610	1200×700	1560×620	1600×700	
T slots	18×5×100	18×3×100	18×6×100			18×5×100	18×6×100
Maximum load kg	300	500	850	1000	1200	2000	1500
TRAVEL:							
X / Y / Z axis	760 / 510 / 510	800 / 510 / 610	1020 / 610 / 610	1100 / 750 / 650	1350 / 620 / 810	1500 / 700 / 610	1500 / 750 / 650
Optional Z axis	X	800 / 510 / 810	1020 / 610 / 810	1100 / 750 / 900	X	1500 / 700 / 800	1500 / 750 / 900
ROLLER GUIDE WAY :							
Guide way width	30 / 35 / 35	35 / 45 / 45		35 / 45 / 45	45 / 45 / 45	45 / 55 / 55	35 / 45 / 45
DISTANCES:							
spindle to column ways	574	550	705	831	710	758	831
Spindle to Z axis cover	535	510	654	764	650	706	764
Spindle to table top	100~610	110~720	77~887	50~700 (950)	80~890	140~750	50~700 (950)
Floor to table top	850	810	820	999	868	1008	999
SPINDLE:							
Taper		#40 (HSK-A63)				#40 (#50)	#40 (HSK-A63)
Speed RPM		8000 (~24000)				8000 (6000)	8000
Front bearing dia.	60	70					
Motor KW(S1/S3)	5.5 / 13.2	7.5 / 18 (~22 / 42)					
AXIS MOTORS:							
Motor torque Nm	8 / 8 / 12	12 / 12 / 22			22 / 22 / 22	22 / 22 / 40	22 / 22 / 22
Motor power Kw	1.6 / 1.6 / 4	3 / 3 / 4			4 / 4 / 4	4 / 4 / 6	4 / 4 / 4
Rapid feed rate	48 / 48 / 48M	30 / 30 / 24M		48 / 48 / 48M	30 / 30 / 24M	48 / 48 / 36M	48 / 48 / 48M
ATC SWING ARM:							
No. of tools	24 (30)	24 (32, 40, 60)					
Max. Tool diameter		125					
Max. Tool length	200	250					
BALLSCREWS:							
Dia./pitch (X/Y/Z)	32 / 40 / 40×16	40 / 40 / 50×12		45 / 40 / 40×16	45 / 40 / 50×12	50 / 50 / 50×16	45 / 40 / 40×16
Precision class (C3)		0.008 / 300					
ACCURACY:							
Positioning		Within JIS6338 : 0.005 / 300, VDI 3441 : P 0.015					
Repeatability		Within JIS 6338 : ±0.003, VDI 3441 : PS0.01					
Roundness		Within JIS6338 : ±0.01 / Φ300					
NET WEIGHT	4600KG	5500KG	7000KG	8500KG	9800KG	12000KG	11000KG

STANDARD FEATURES & ACCESSORIES FOR HSM-600:

- 24 Arm type tool changer system
- Screw type chip auger & bucket
- Full splash guard.
- Programmable coolant system.
- Automatic lubrication system.
- Spindle air blast system.
- working lamp.
- Twin chip augers in Y axis bed
- 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 spanners & wrenches.
- Spindle oil cooler device.

OPTIONAL ACCESSORIES FOR HSM-600:

- Tool / work piece probes
- 20/40 Bar coolant thru spindle
- Rotary tables
- Chain type chip conveyor
- Water flushing device
- Linear scales
- Spindle coolant ring
- Spindle thermo compensation
- HSK-E40 / 40000RPM motor spindle
- 12000/15000RPM direct couple spindle



EUMACH FAMILIES



◦ **FBM-10040**
Floor type milling center
4M ~ 20M 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



◦ **HSM-5XC**
5 Axis machining center



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



◦ **GVM-800U**
5 Axes gantry type machining center



◦ **DVM-4025**
5 Axis & 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

Eumach Co.,LTD.

★ Specifications subject to change without notice.
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