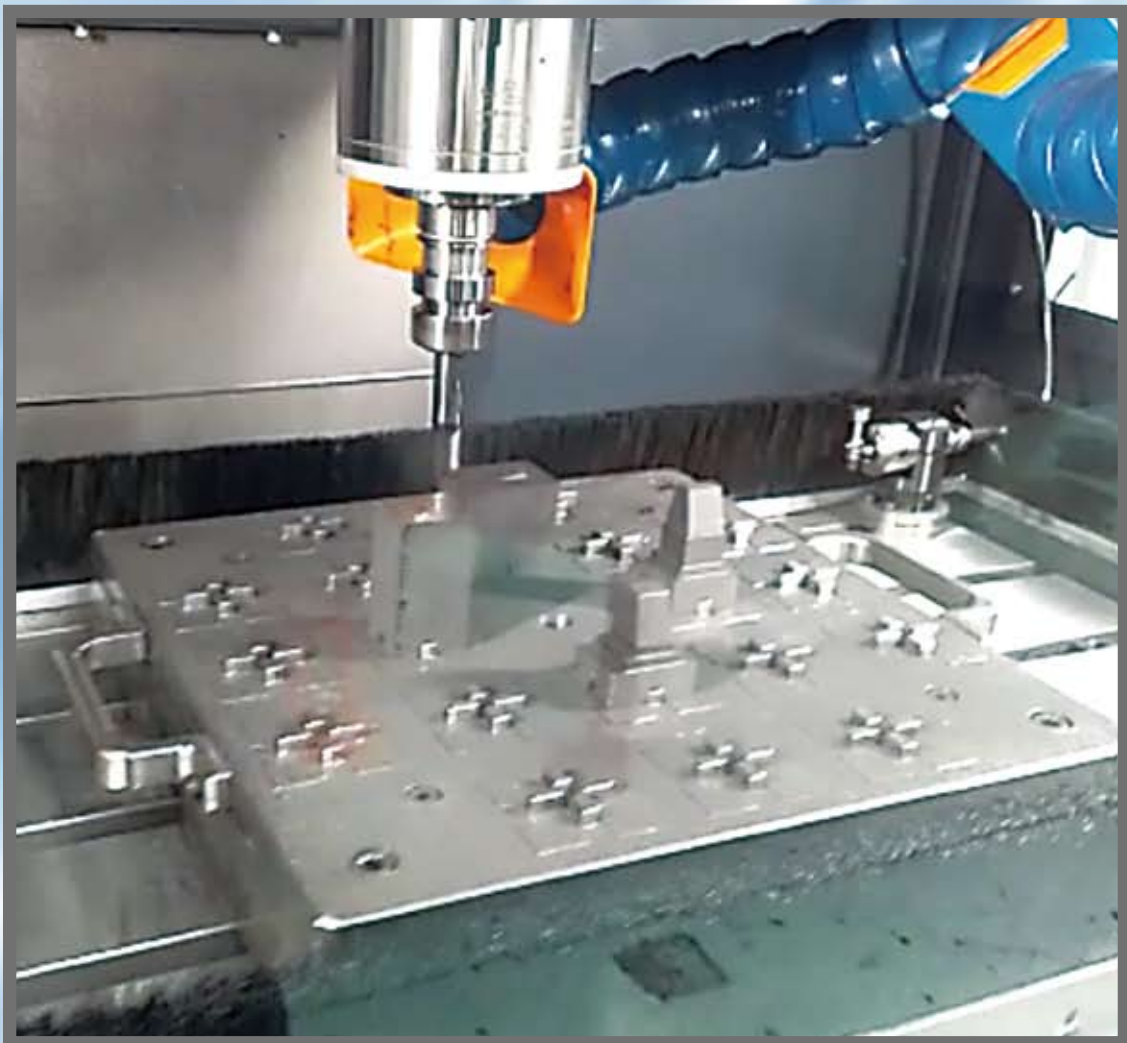


# Eumach

*Always A Step Ahead*



**GRAPHITE MACHINING CENTER**



EMC / CE / ISO 9002 CERTIFIED

**A PROFESSIONAL CNC MACHINES MANUFACTURER**

# ***HIGH SPEED & PRECISE GRAPH***

The latest developed specifically for machining graphite electrodes & co

- Fully sealed splash guard with air blast device and brush system to avoid dust flying
- Self contained system by a 7.5KW/3900M3 dust collector maintains a clean working
- 24 or even more tools automatic tool changer assures high machining efficiency
- Machine's very compact design promotes efficiency of floor space

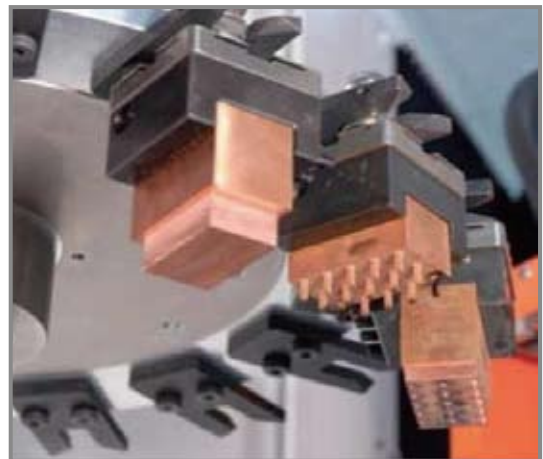
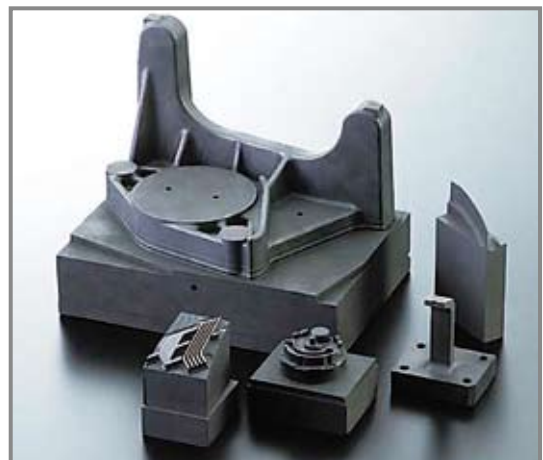
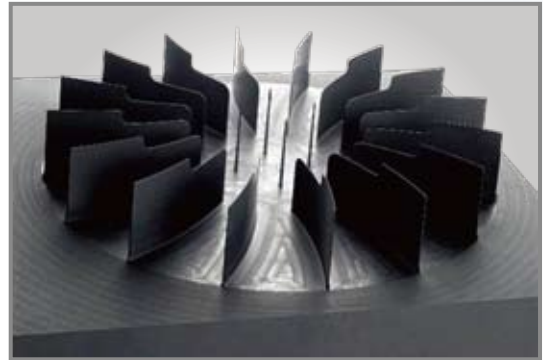




# WHITE MACHINING CENTER

oper at optimum efficiency and includes following outstanding features :  
g out of machine.  
environment

- 696 / 448 / 510mm working travel
- 8000 ~ 42000RPM various spindle
- 48M / min. 3 axis rapid feed rate



# HIGH PRECISION SPINDLES :



**Standard  
Belt Drive**



**Optional  
Direct Coupling**



**Optional  
Motor Spindles**

	type	taper	RPM	KW(S1/Max)	Nm(S1/Max)	Made
<b>Standard</b>	Belt drive	BT#40	8000	5.5 / 13.2	35 / 84	Taiwan
<b>Optional</b>	Direct couple		12000	5.5 / 13.2	35 / 84	
	Motor spindle	HSK-E40	15000	7.5 / 30	23.9 / 71.6	
			40000	13 / 14	5.7 / 6.2	Italy
			42000	10 / 13.5	6.5 / 8.8	Switzerland

## OPTIONAL ACCESSORIES :

- Tool / work piece probes
- 20/40 Bar coolant thru spindle
- Rotary tables
- Chain type chip conveyor
- Linear scales
- Spindle coolant ring
- Spindle thermo compensation



▲ Automatic pallet changer



▲ Wet type graphite machining by water curtain & paper filtering



# HIGH SPEED GRAPHITE VERTICAL MACHINING CENTER:

		HSM-600	HSM-1000
<b>TABLE :</b>			
WORKING AREA	MM	860 x 500	1060 x 500
T SLOTS ( SIZE×NO×PITCH )	MM	18 x 5 x 100	
MAXIMUM LOADING	KG	300	400
<b>X / Y / Z AXISTRAVEL :</b>			
BALL SCREWS WITHOUT COVER	MM	760 / 510 / 510	1020 / 510 / 510
BALL SCREWS WITH COVER	MM	696 / 448 / 510	996 / 448 / 510
<b>DISTANCES :</b>			
SPINDLE TO Z AXIS COVER	MM	535	
SPINDLE TO TABLE TOP	MM	100 ~ 610	
FLOOR TO TABLE TOP	MM	850	
<b>SPINDLE :</b>			
TAPER	BT / SK	#40 (HSK-A63) (HSK-E40)	
SPEED	RPM	8000(12000, 15000, 24000) (40000, 42000)	
FRONT BEARING DIA.	MM	60 (40)	
MOTOR ( S1 / S3 )	KW	5.5 / 13.2 (~7.5 / 18.5) (10 / 13.5~13 / 14)	
<b>AXIS MOTORS :</b>			
X / Y / Z	MM	8 / 8 / 12	12 / 8 / 12
CUTTING FEEDRATE	MM / MIN	20000	
RAPID FEEDRATE	M / MIN	48 / 48 / 48	
<b>AUTOMATIC TOOL CHNGER :</b>			
TYPE OF ATC		SWING ARM	
NO. OF ATC	TOOLS	BT#40 / HSK-A63 : 24 ( 30 ), ( HSK-E40 : 40 )	
MAX.TOOL ( DIA / LENGTH )	MM	BT#40 / HSK-A63: $\Phi$ 80&130 / 200 HSK-E40 : $\Phi$ 75&130 / 250	
MAX.TOOL WEIGHT	KG	BT#40 / HSK-A63 : 7, HSK-E40 : 3	
TOOL TO TOOL TIME	SEC.	3	
<b>BALLSCREWS ON 3 AXIS :</b>			
DIAMETER × PITCH	MM x MM	32 / 40 / 40 x 16	40 / 40 / 40 x 16
PRECISION CLASS	MM / 300MM	0.008	
<b>COOLANT &amp; LUBRICATION :</b>			
COOLANT MOTOR POWER	KW	0.86	
COOLANT TANK VOLUME	L	120	
COOLANT MOTOR CAPACITY	L / MIN	20	
LUBE. MOTOR POWER	WATT	25	
LUBE. TANK VOLUME	L	2	
<b>MISCELLANEOUS :</b>			
MACHINE NET WEIGHT	KG	4600	5000
POWER REQUIRED	KVA	18	
PNEUMATIC REQUIRED	KG / CM <sup>2</sup>	7	
DUST EXTRACTION MOTOR	KW & AIR	7.5 & 3900 M3 / H	
<b>CNC CONTROLS AVAILABLE</b>	<b>FANUC, MITSUBISHI, HEIDENHAIN, SIEMENS</b>		

( ) options

## STANDARD FEATURES & ACCESSORIES :

- 24 Arm type tool changer system
- Chip auger & bucket in X axis
- Twin chip augers in Y axis bed
- Full splash guard.
- Programmable coolant system.
- Automatic lubrication system.
- Spindle air blast system.
- 3 axis ball screws bellow protection
- Table surrounding brush device
- Dry type graphite machining by 3900M3/H powerful dust extraction
- 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.





# 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.  
Catalogue No.A9010106

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