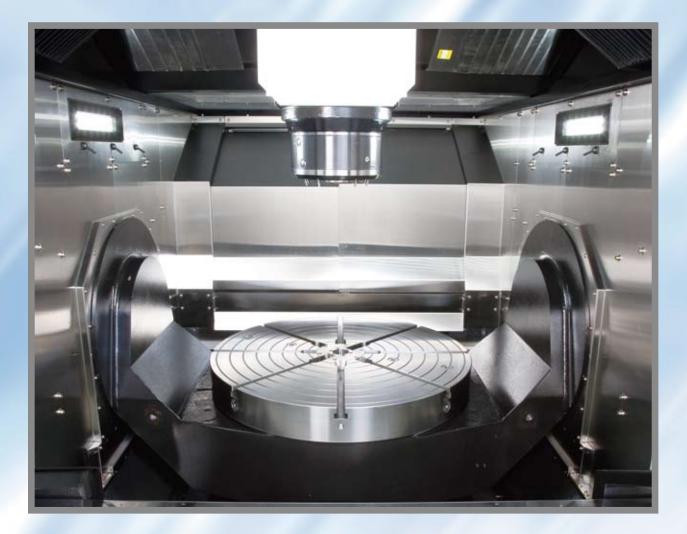
EUMOCH Always A Step Ahead



5 AXES GANTRY TYPE MACHINING CENTER

A PROFESSIONAL CNC MACHINES MANUFACTURER

GVM-800U DESIGNED FOR HIGH PRECIS ONLY ONE SINGLE SET UP, EVEN TURNI

EUMACH

GVM-800U

5 AX

The latest 5 axes machine provides not only improving production lead time, machining accuracy but also optimizing working environment due to compact design and even improving the company whole management.

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ION MULTIPLE SURFACES MILLING IN NG IS POSSIBLE!



Ergonomic orientateddesign for easy loading / unloading heavy work piece by overhead crane due to removable top roof cover.

ROBUST RIGID FRAME

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The robust frame with each key component all has been very well optimized from the standpoint of static rigidity and dynamic quality in order to be the highest performance gantry 5 axes machine.

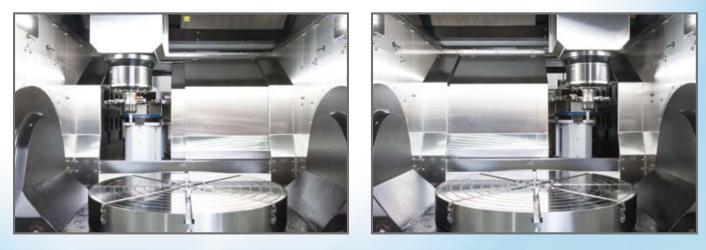
The highest rigidity and latest innovation with twin Y axis driven gantry construction which definitely suppresses the vibration generates by the very high speed (48M/Min) acceleration / deceleration !

POWERFUL MOTOR SPINDLES



Applications		Milling Mill t			turn
Model	P18	P24	C18	C24	C27T
Max. speed RPM	18000	24000	18000	24000	10000
Rated speed RPM	1000	2000	2000	4500	2000
Power S1 / S6 KW	26 / 32	21 / 27	21 / 27	34 / 43	27 / 31
Torque S1 / S6 Nm	124 / 154	85 / 116	100 / 130	72 / 91	130 / 170
Taper	HSK-A63 HSK-T63				
Country made	Italy		Germany		
In Use	standard	optional			

AUTOMATIC TOOL CHANGER



Driven by AC servo motor(s) in order to provide spindle picking up at simple, fast, trouble-free and extremely smooth tools exchanging; standard 32 stations, optional 40x1, 60x1, 32x2, 40x2, 60x2 stations, biggest tool dimension is Dia. 75mm or Dia.125mm / 300mm length / 8kg weight.

TORQUE MOTORS DRIVEN

MILLING (STANDARD)



Table is driven by 2 torque motors, one each at A &C axis, maximum speed are 10RPM & 50RPM, maximum load 1200kg.

MILLING TURNING (OPTION)



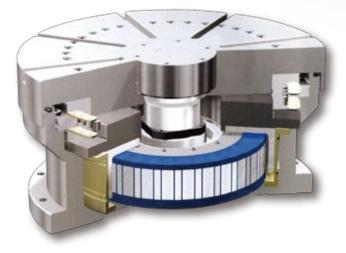


Table is driven by 3 torque motors when both twin A axes at either 90° or 0°, maximum C axis speed is 800RPM, also because twin A axes are rigidly clamped (more than 10000Nm) so turning operation smoothly is ensured.



Turning table is made of extreme high dynamic one piece casting and machined by 5 axes machine to ensure its high accuracy.

TILTING ROTARY TABLE :





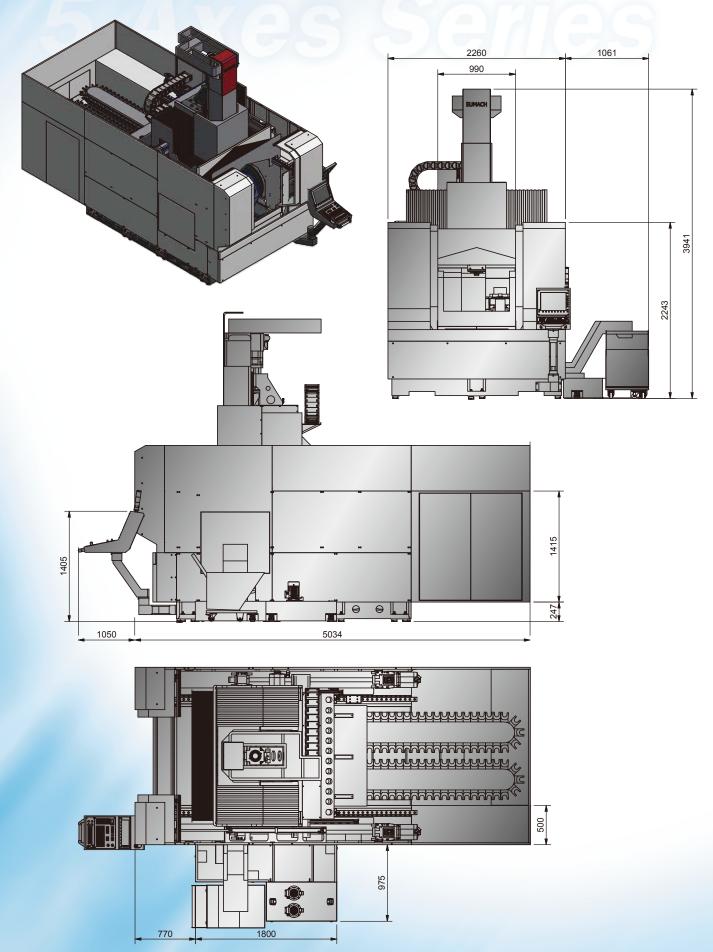
Extended dynamic and power : the core of the direct drive table is with the new torque motor generation, the sophisticated cooling technology of the coils offers 30% more power than before, very high efficiency and dynamic and is possible to reach a new level of high dynamic milling & turning operations !



Efficient chip removal : cutting chips, coolant water, oil etc. are easily falling down directly to the machine bed where has a well integrated chain type chip conveyor, it bring out chips etc. efficiently

Heavy duty ram construction with extreme section and well rib design ensures high speed and heavy cutting is possible without vibration

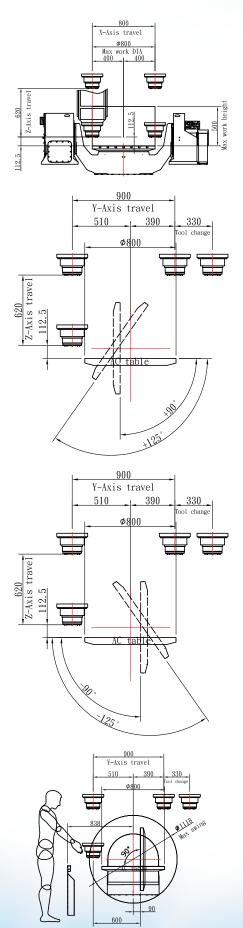
MACHINE DIMENSION :

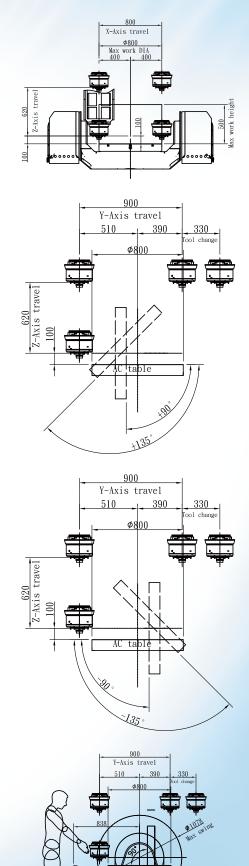


Note : above dimension may change due to continuous improvement !

MILLING ENVELOPE :

MILLING TURNING ENVELOPE :





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The operator standing in front of machine has excellent access to the table edge for easy work piece loading/unloading or set up due to ergonomics design.

DIGITAL CNC CONTROL

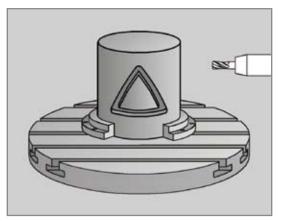


Heidenhain iTNC-640 HSCI newest control :

- 1. MC 7522 1.8GHz more powerful CPU than before
- 2. 32G SSDR storage media resistance to vibration
- 3. New HEROS 5 operating interface with PDF viewer
- 4. TE 730 key board & MB 720 panel & 15" XGA screen



Inspecting and optimizing machine accuracy by calibrating rotary axes with kinematics

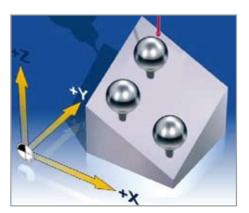


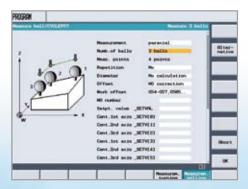
Cylindrical surface interpolation



Siemens 840Di Solution Line newest control :

- 1. NCU 730.2 with PLC 317 2DP + 40GB HD
- 2. PCU 50.3 1.5Ghz , 512Mb, WinXP/Pro interface
- 3. Shopmill + 3D simulation 1 & HMI Advanced
- 4. MCP483C panel + OP 015A 15" TFT screen





MEASURING 3 SPHERE

GVM-800 GANTRY TYPE 5 AXES MACHINES SPECIFICATIONS

Model	Specifications	Milling	Milling turning	
Travel	X Y Z axis	800 / 900+330 / 620mm		
Distance	Spindle nose to table top	112.5 ~ 732.5mm	100 ~ 720mm	
Distance	Spindle nose to table center	0 ~ 732.5mm	0 ~ 720mm	
Rotary table tilt A axis	Maximum rotation	50 RPM	25 RPM	
	Transmission via torque motor	1 set	2 sets	
	Tilt angle	± 125°	± 135°	
	Continuous / peak torque	2680 Nm-peak	4980 / 9500 Nm	
	Brake torque	6000 Nm	10000 Nm	
Rotary table rotary C axis	Table dimension	Ф 800mm		
	Maximum loading	1200kg		
	Maximum rotation	100 RPM	800 RPM	
	Transmission	Torque motor		
	T slots	14mm x 7	Radial 18mm x 8	
	Continuous / peak torque	1230 Nm-peak	1127 / 2065 Nm	
	Brake torque	3000 Nm	4000 Nm	
	Table top to floor	876 mm	891 mm	
Motor spindle	Maximum spindle speed	18000 RPM	10000 RPM	
	Spindle power S1/S6	26 / 32 KW	27 / 31 KW	
	Spindle torque S1/S6	124 / 154 Nm	130 / 170 Nm	
	Spindle taper	HSK-A63	HSK-T63	
Ball screws	X / Y / Z Diameter x pitch	Φ50 / 50 x 2 / 50mm x 16mm FDC, oil thru cooled		
X / Y / Z axis	Width	55 / 55 / 45mm		
Roller guide	Runner blocks number	4 / 4 / 4		
Feed rate	Rapid feed X / Y / Z	48 / 48 / 48 M/min.		
	Cutting feed	20M / min.		
ATC	Tool holder type	HSK-A63	HSK-T63	
	Tools number	32 (40, 64, 8	80, 120)	
	Maximum tool D / L / W	Φ75mm & Φ125mm / 300mm / 8kg		
	Tools exchanging type	Armless carousel pick up, servo motor driven		
Weight	Before packing	24 tons	25 tons	
Measuring	Direct	4 linear scales (Yx2) & 2 rotary encoders		
CNC	Brands	Heidenhain & Siemens		

Note : above based on standard spindles.

Standard Features & Accessories

- 1. FULL SPLASH GUARD WITH TOP ROOF
- 2. PROGRAMMABLE COOLANT SYSTEM
- 3. AUTOMATIC LUBRICATION SYSTEM
- 4. SPINDLE AIR BLAST SYSTEM
- 5. WORK ALARM, INDICATON LAMPS
- 6. SPINDLE WATER COOLER

- 7. LEVELLING BOLTS & PADS
- 8. RS-232 TERMINAL INTERFACE PORT
- 9. MACHINE & CONTROL MANUALS
- 10. TOOLBOX WITH SPANNERS & WRENCHES
- 11. CHAIN TYPE CHIP CONVEYORS + 2 SCRCW CHIP AUGERS
- 12. 3 AXIS LINEAR SCALES + 2 AXIS ROTARY ENCODERS



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

Catalogue No.A6040104



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



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



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