



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



MH-500
Horizontal machine center
720MM x 650MM x 650MM 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



HSM-5X
1020 / 610 / 810MM, BT#40,
14000RPM

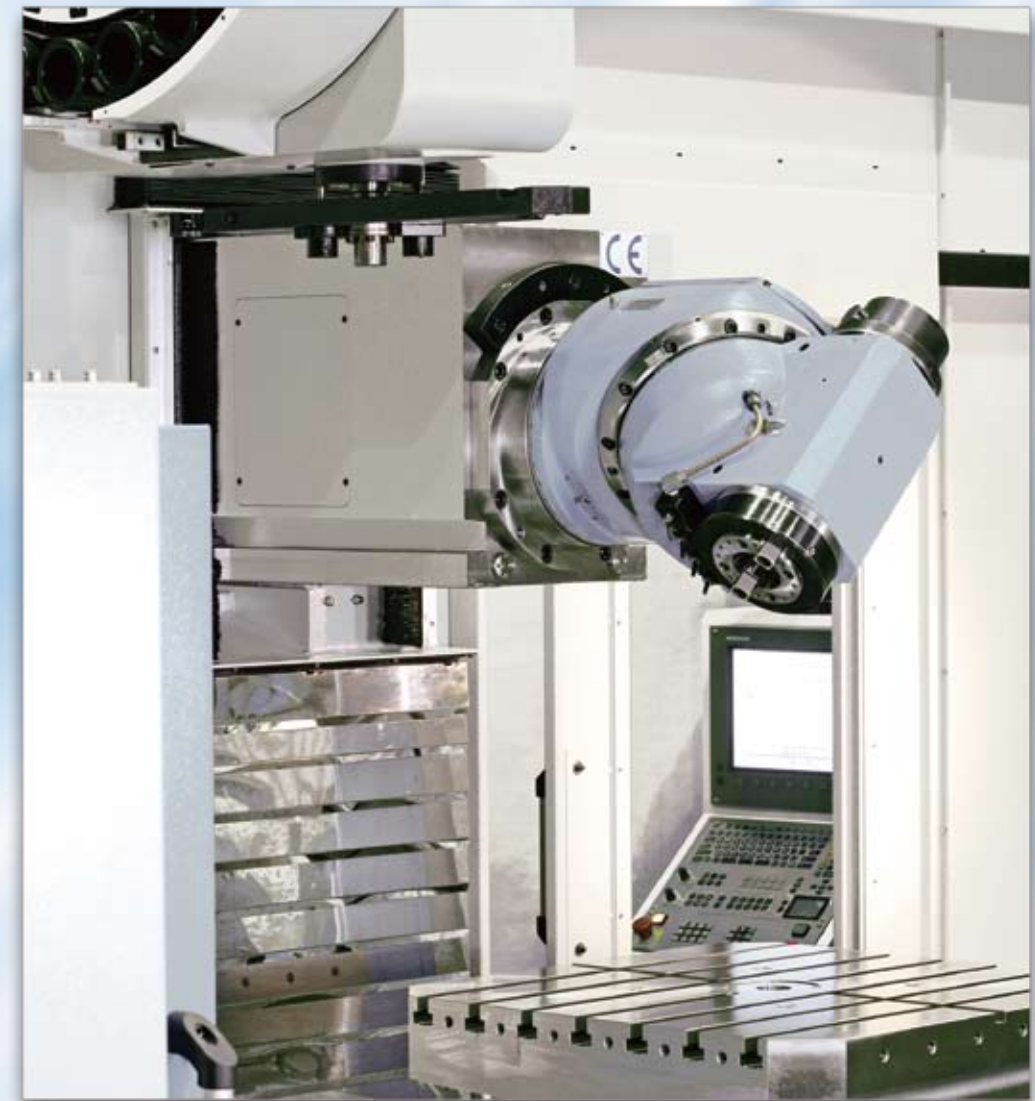


UMC-1000
5 Axis machine center
1000MM x 800MM x 700MM travel

FMS-a2070304 8864-2235-2288

Eumach

Always Step Ahead



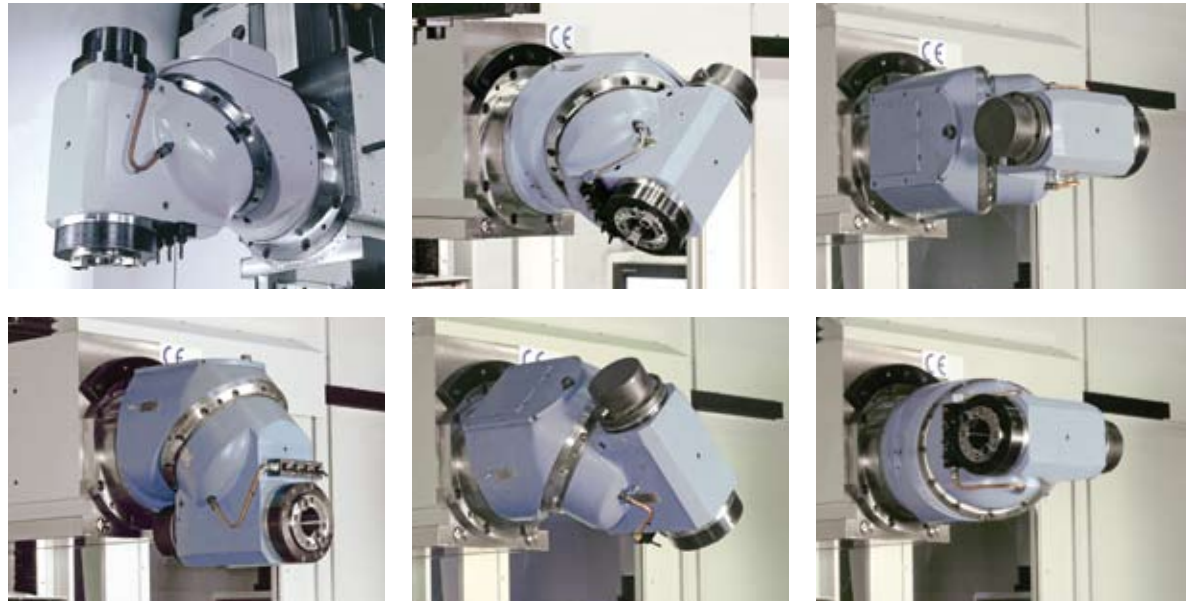
FBE-1500 / 2000 / 2600 / 3000 / 4000

Bed Type Universal Milling Machine
EMC / CE / ISO 9002 CERTIFIED

A PROFESSIONAL CNC MACHINES MANUFACTURER

The newest EUMACH bed type universal milling machine, with further innovations in rigidity, accuracy, versatility and performance!

- Ideal for large molds, forging dies, and heavy work pieces up to 8000kg weight.
- Machine multi-sides of workpiece with a single set-up. (with optional milling head & rotary table)
- Universal multi angle universal milling head with hydraulic tool clamping.
- Hydraulic counterbalance on vertical movement.
- Hardened & ground guideways with sliding surfaces coated with turcite anti-friction material.
- Precision large diameter ball screws on X-Y-Z, rigid mounted.



► FBE-1500 with 1500mmx1000mmx950mm(1500mm) travel, 1600mmx1050mm table

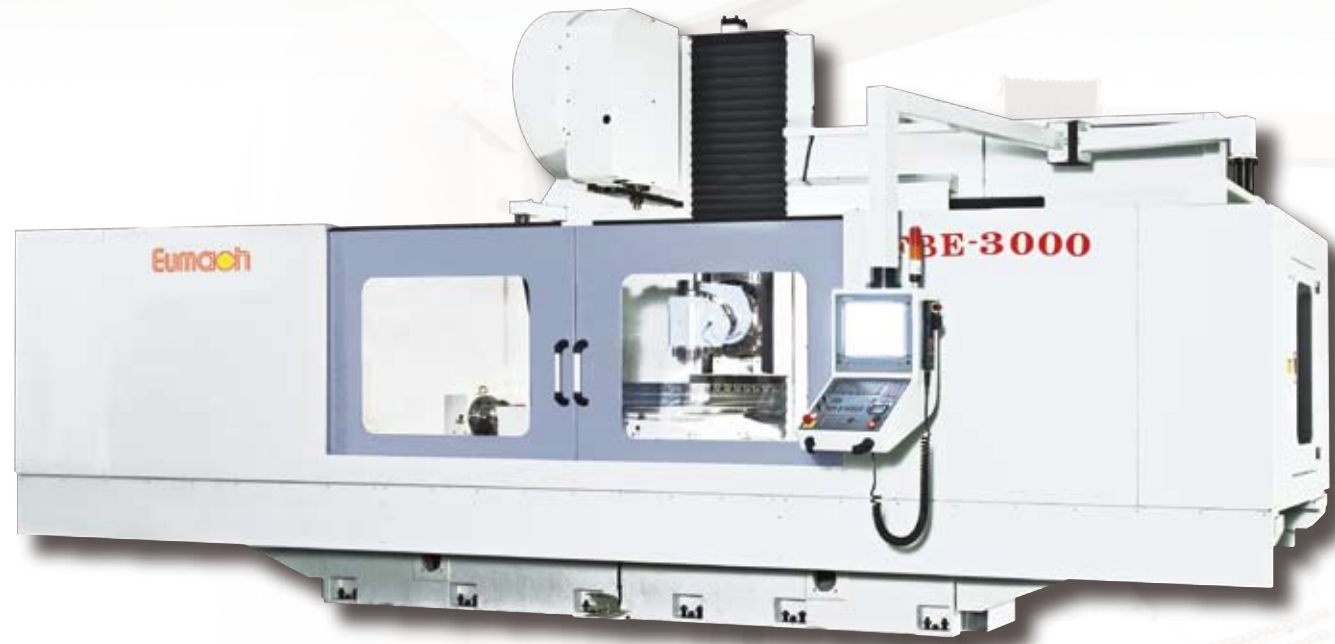


► FBE-2000 with 2000mmx1000mmx950mm(1500mm) travel, 2100mmx1050mm table



► FBE-2600 with 2600mmx1000mmx950mm(1500mm) travel, 2700mmx1050mm table

The newest FBE families has been designed to enhance 3D surface finishing together with highest rigidity and versatility; various multi-functioned milling heads all can accomplish with both vertical & horizontal machining at same time once the work piece is being fixed on table. This definitely & greatly increase significantly through done in one operation !



▶ FBE-3000 with 3000mmx1000mmx950mm(1500mm) travel, 3100mmx1050mm table



▶ FBE-3000 with optional top closed full guard.



▶ FBE-4000 with 4000mmx1000mmx950mm(1500mm) travel, 4100mmx1050mm table

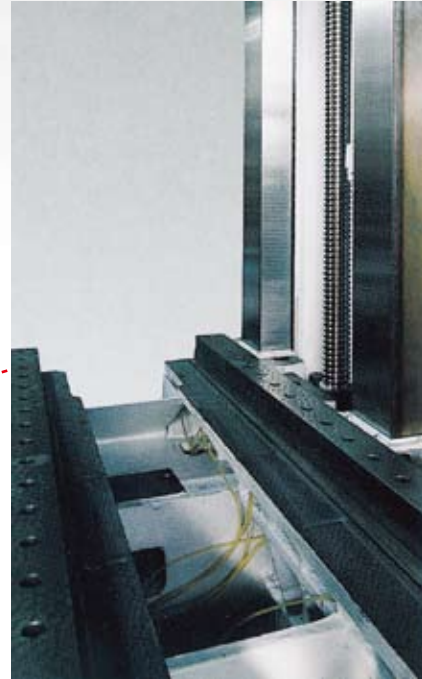
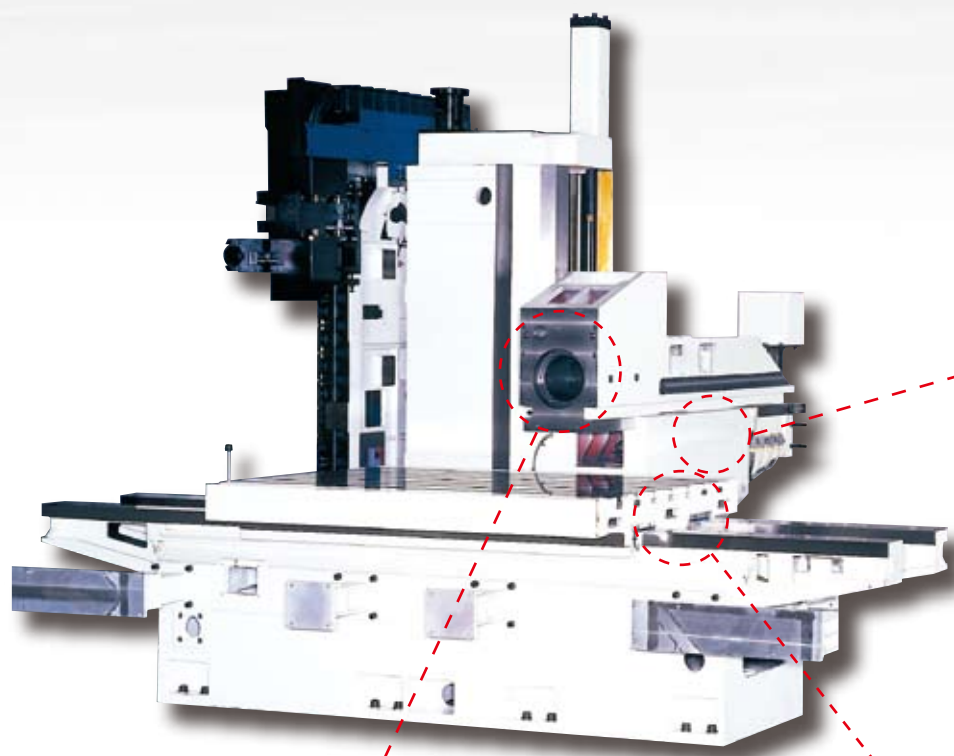


▶ Super wide interior space for standard top open machines.

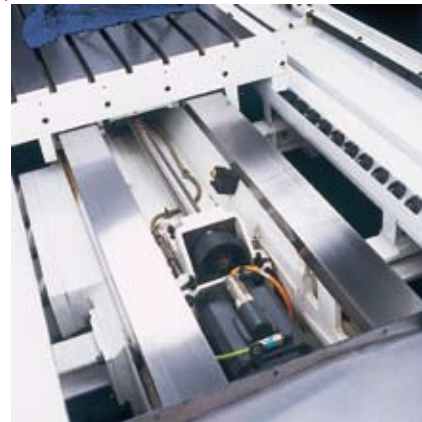


▶ Super wide interior space for optional top closed machines.

Rigid & robust casting frame :



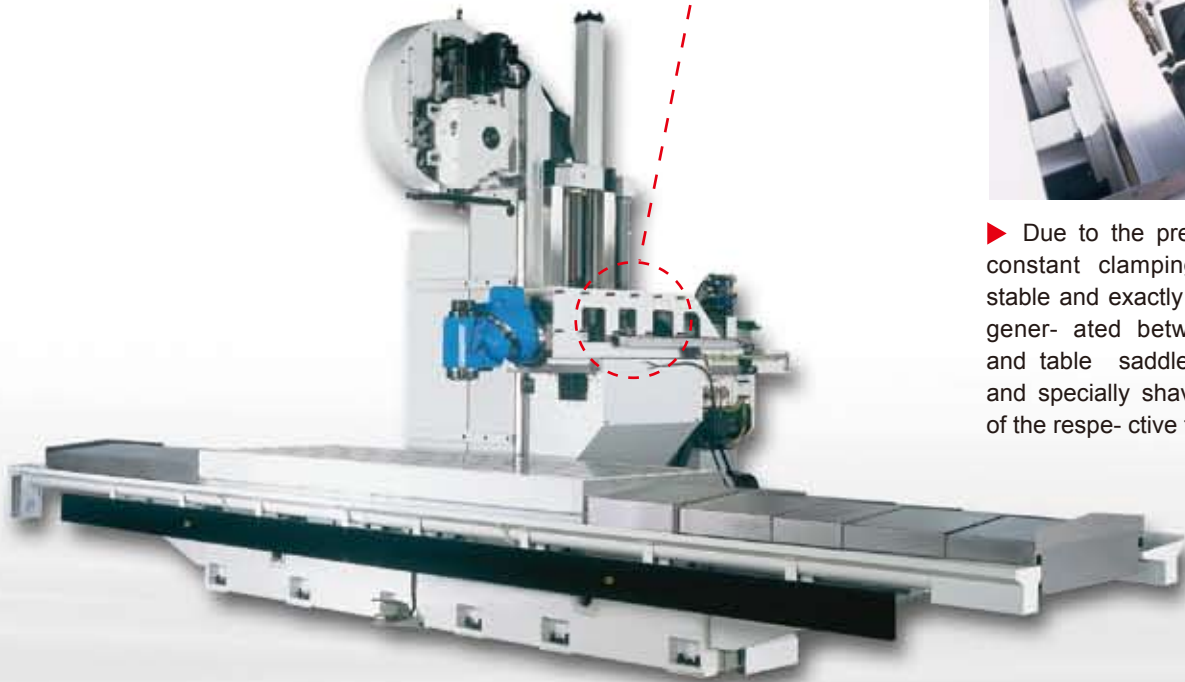
► The generously dimensioned guideways ensure a high permanent precision supported by specially hardened vertical and horizontal guideways at column and milling carriage, while the counter-guideways are coated with Turcite-B.



► Due to the precisely defined and constant clamping of the guide, a stable and exactly defined gap size is generated between bed guideway and table saddle (Turcite-B coated and specially shaved), independently of the respective table load.

1. Standard version with horizontal spindle inside, for standard manual head or optional VH-2, VH-90 heads.

2. Direct coupling for optional ORT-2.5, VH-2.5, VH-1 automatic heads. No more horizontal spindle.

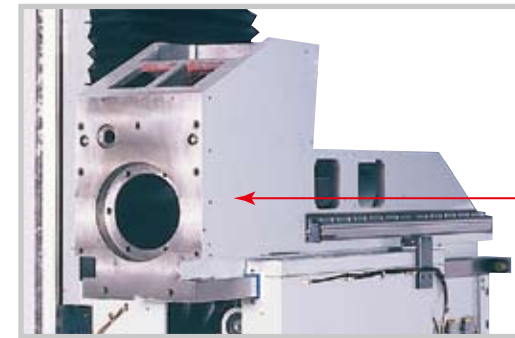


Versatile & flexible spindle solution :

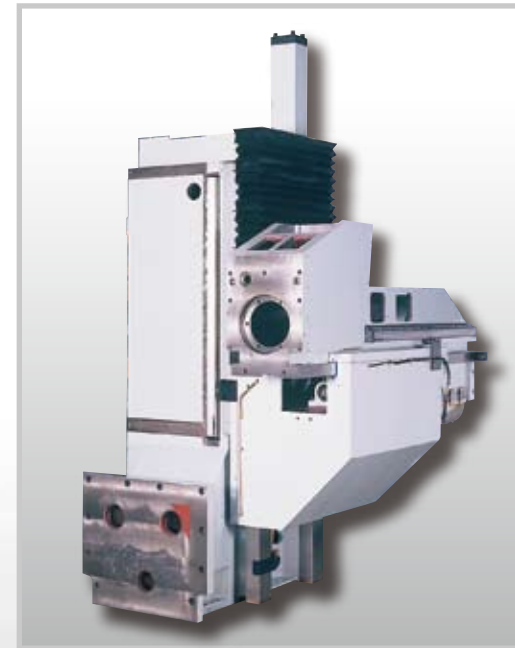
Removes head



to be



Remove the standard manual milling head (or opt. VH-2 head), a standard horizontal milling spindle is inside of the sliding ram it increases minimum 500mm working distance from such horizontal spindle to work piece by just removing universal milling head !

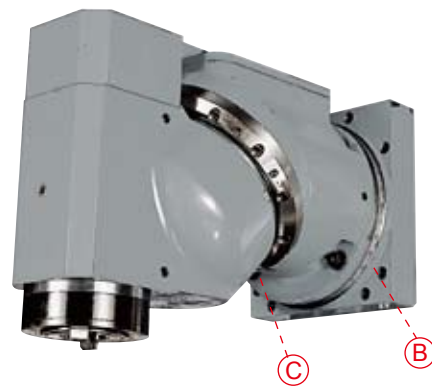


Heavy cutting operation is possible; its 17kw/22kw spindle motor plus a 1:4 gearbox then an additional pulley ratio, spindle torque can be up to more than 1000 Nm at 200RPM.

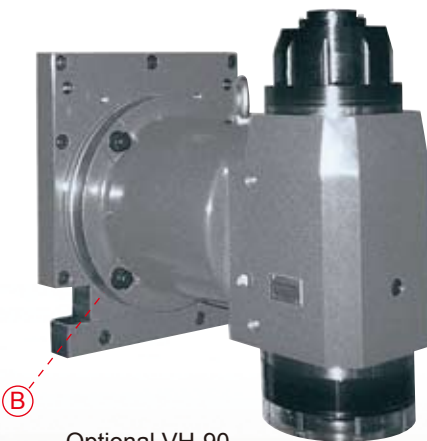
Versatile various milling heads :



Standard manual head
B axis : manual
C axis : manual

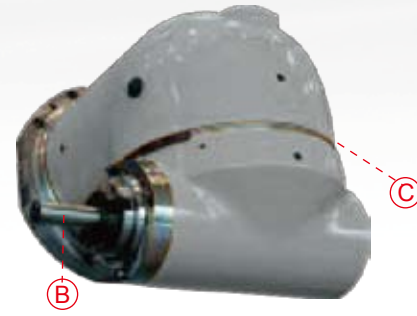


Optional VH-2 head
B axis : manual
C axis : automatic 2 positions vertical & horizontal

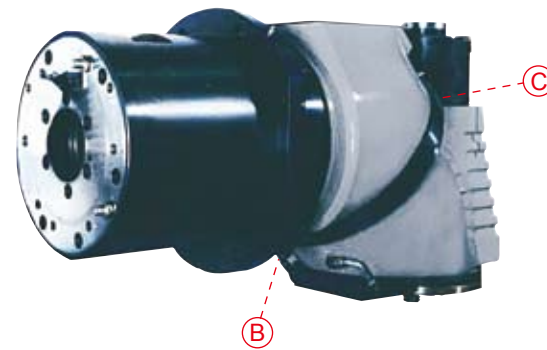


Optional VH-90
B axis : manual

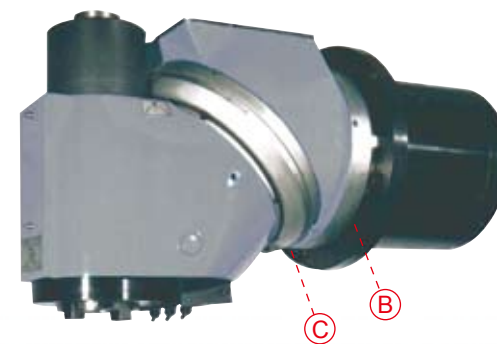
Above 3 heads are attachment type, the horizontal spindle is inside of sliding ram; ISO 50 spindle taper and maximum 25KW/650Nm/3500RPM.



Optional ORT-2.5 head
B axis : automatic 2.5 x 144 positions
C axis : automatic 2.5 x 144 positions



Optional VH-2.5 head
B axis : automatic 2.5° x 144 positions
C axis : automatic 2.5° x 144 positions



Optional VH-1 head
B axis : automatic 1° x 360 positions
C axis : automatic 1° x 360 positions

Above 3 heads are built-in ram type, no more horizontal spindle inside of the ram; ISO 50 spindle taper and maximum 25KW/650Nm/3500RPM.

Optional accessories :

1. Automatic tools changing :



Vertical tool change with 24 stations swing arm type



Horizontal tool change with 32, 40 or 60 stations swing arm rail type

2. Full guarding (top closed sliding roof) :



3. Pure horizontal long nose spindle, no more standard universal milling heads, speed up to 6000, 8000 or 10000RPM, direct coupling.

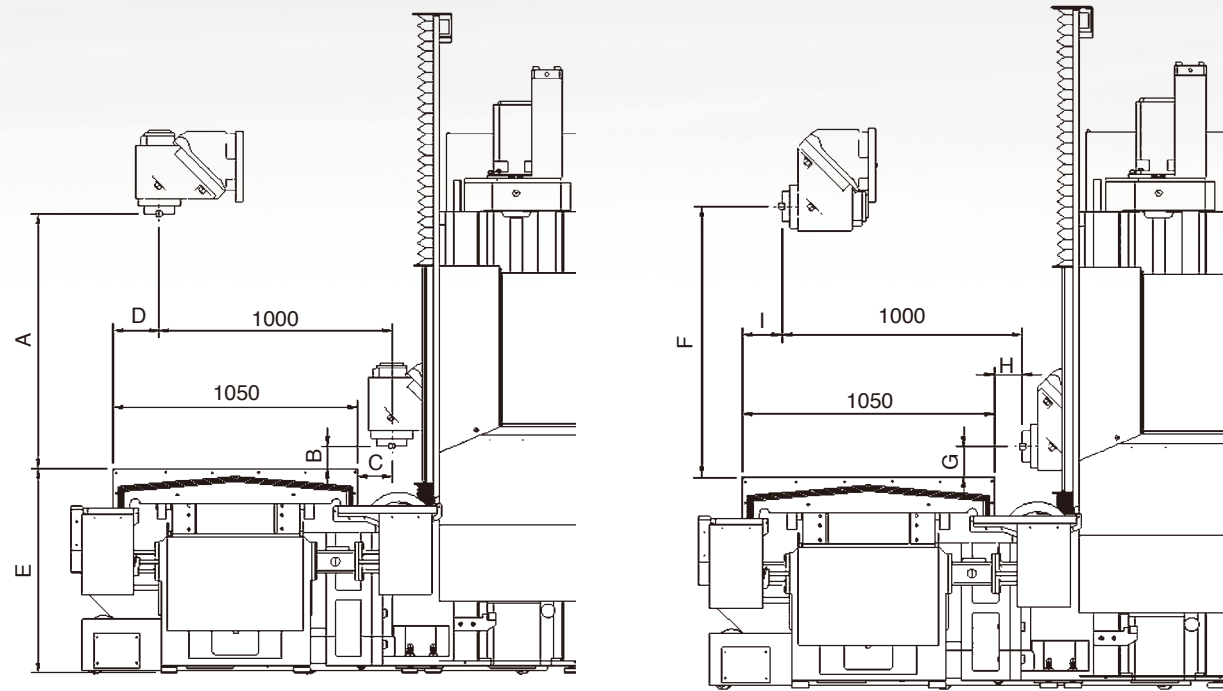
4. YZC machine :

Engineering adapted to satisfy customer requirement.

Based on 25 years milling machine engineering experience, Eumach has been successfully delivering many machines for Customers' specified jobs and always oriented towards high Productivity such as following example - a machining unit with controlled Y/Z/C (rotary table) for machining large bearing ring and steel disk etc. large round parts.



Universal head related dimensions :



Unit : MM

Milling heads	Model	A	B	C	D	E	F	G	H	I
Standard manual head	FBE1500	1046	96	147	197	870	1078	128	115	165
	FBE2000	(1606)	(106)							
	FBE2600	1016	66							
	FBE3000	(1576)	(76)							
	FBE4000									

Optional Automatic VH-2	FBE1500	1001	51	27	77	870	1051	101	-23	27
	FBE2000	(1561)	(61)							
	FBE2600	971	21							
	FBE3000	(1531)	(31)							
	FBE4000									

Optional Automatic VH-1	FBE1500	964	14	104	154	870	993	43	74	124
	FBE2000	(1524)	(24)							
	FBE2600	934	-16							
	FBE3000	(1494)	(-6)							
	FBE4000									

Optional Automatic VH-2.5	FBE1500	985	25	125	175	870	1015	65	95	145
	FBE2000	(1545)	(35)							
	FBE2600	955	5							
	FBE3000	(1515)	(15)							
	FBE4000									

Specifications :

UMT:MM

MODEL	UNIT	FBE-1500	FBE-2000	FBE-2600	FBE-3000	FBE-4000
TABLE:						
WORKING AREA	MM	1600×1050	2100×1050	2700×1050	3100×1050	4100×1050
T SLOTS(SIZE×NO)	MM	22H8×7 SLOTS				
TOP TO FLOOR DISTANCE	MM	870			900	
LOAD (EVENLY DISTRIBUTED)	KG	3000	5000	6000	8000	9000
TRAVEL:						
X AXES	MM	1500	2000	2600	3000	4000
Y AXES	MM	1000				
Z AXES	MM	950 (1500)				
HORIZONTAL SPINDLE: (NO MORE IF WITH VH-2.5, VH-1 HEAD)						
TAPER		DIN 69871 #50				
SPEED	RPM	3500 (5000)				
OUTPUT 40% DUTY CYCLE	KW	25				
CONSTANT OUTPUT	KW	17				
MAXIMUM TORQUE S1	Nm	650				
UNIVERSAL MILLING HEAD:						
TAPER		DIN 69871 #50				
SPEED	RPM	3500				
OUTPUT 40% DUTY CYCLE	KW	25				
CONSTANT OUTPUT	KW	17				
MAXIMUM TORQUE	Nm	650				
FEEDRATE :						
CUTTING	MM/MIN	1- 5000				
RAPID	MM/MIN	10000				
BALLSCREWS:						
X AXIS DIA. × PITCH	MM×MM	∅50×10	∅50×10	∅63×10	∅63×10	∅80×10
Y AXIS DIA. × PITCH	MM×MM	∅50×10				
Z AXIS DIA. × PITCH	MM×MM	∅50×10				
PRECISION CLASS	MM/300MM	0.008 / 300				
ACCURACY:						
POSITIONING	±MM/300MM	JIS 6338 : ±0.005MM / 300MM		VDI 3441: P0.014MM		
REPEATABILITY	MM	JIS 6338 : ±0.003MM		VDI 3441: PS0.01MM		
ROUNDNESS	MM/DIA.	JIS 6338 : ±0.01MM / 300MM DIAMETER				
GENERAL:						
MACHINE NET WEIGHT	KG	11000	14000	15000	18000	23600
PHNEUMATIC REQUIRED	KG/CM ²	6				
HYDRAULIC REQUIRED	KW	3.5				
POWER REQUIRED	KVA	30KVA	30KVA	35KVA	35KVA	40KVA

STANDARD FEATURES & ACCESSORIES

- 3500RPM UNIVERSAL MANUAL MILLING HEAD.
- PROGRAMMABLE COOLANT SYSTEM.
- AUTOMATIC LUBRICATION 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 SPANNERS & WRENCHES.
- 3 AXIS LINEAR SCALES, WITH AIR BLAST.
- HEIDENHAIN OR SIEMENS CONTROL.

() OPTION