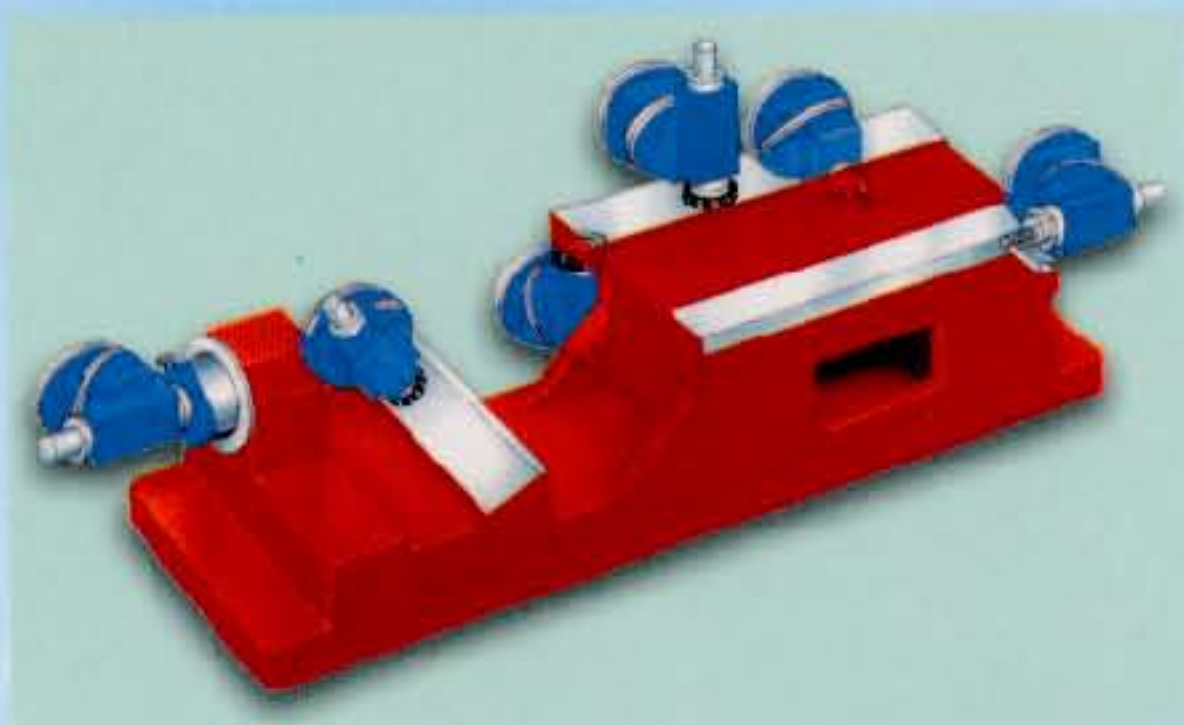


The newest EUMACH bed type uni innovations in rigidity, accuracy,

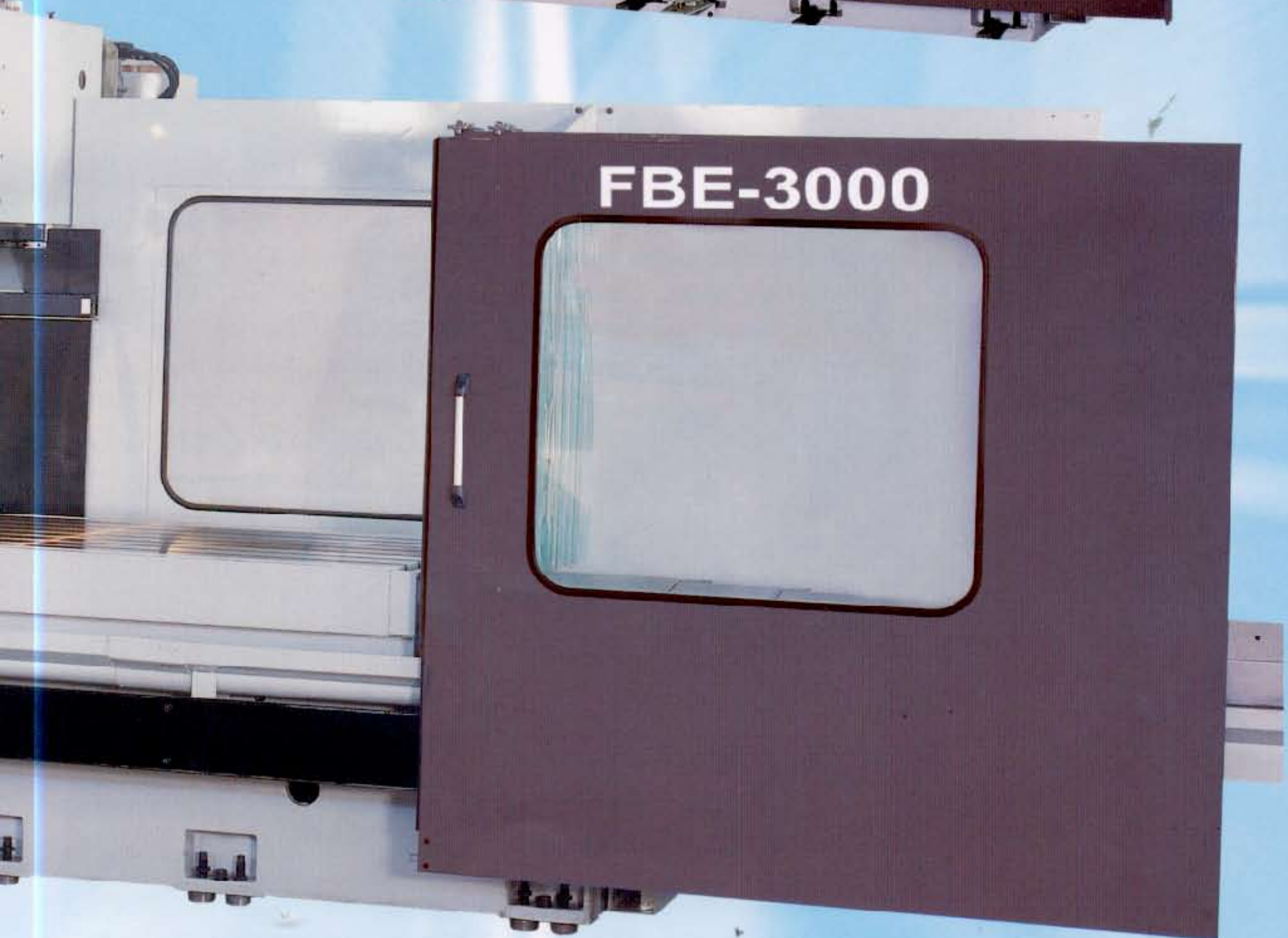
- Ideal for large molds, forging dies, and heavy work pieces up to 8000kg weight.
- Machine five sides of workpiece with a single set-up. (with optional milling head & rotary table)
- Steel cutting, with speeds up to 3500 rpm; 25kw #50 taper. Linear glass scales for all three axes.
- Fully independent brushless digital AC servomotors.
- Universal multi angle universal milling head with hydraulic tool clamping.
- Hydraulic counterbalance on vertical movement.
- Hardened & ground guideways with sliding surfaces coated with tucite anti-friction material.
- Precision large diameter ball screws on X-Y-Z, rigid mounted.
- Highest quality Meehanite castings throughout.



■ Universal multi angle milling



***rsal milling machine, with further
peed and performance!***





Linear scales feedback

The three axis high precision made linear scales feedback are supplied as standard feature to guarantee machine accuracy and positioning.

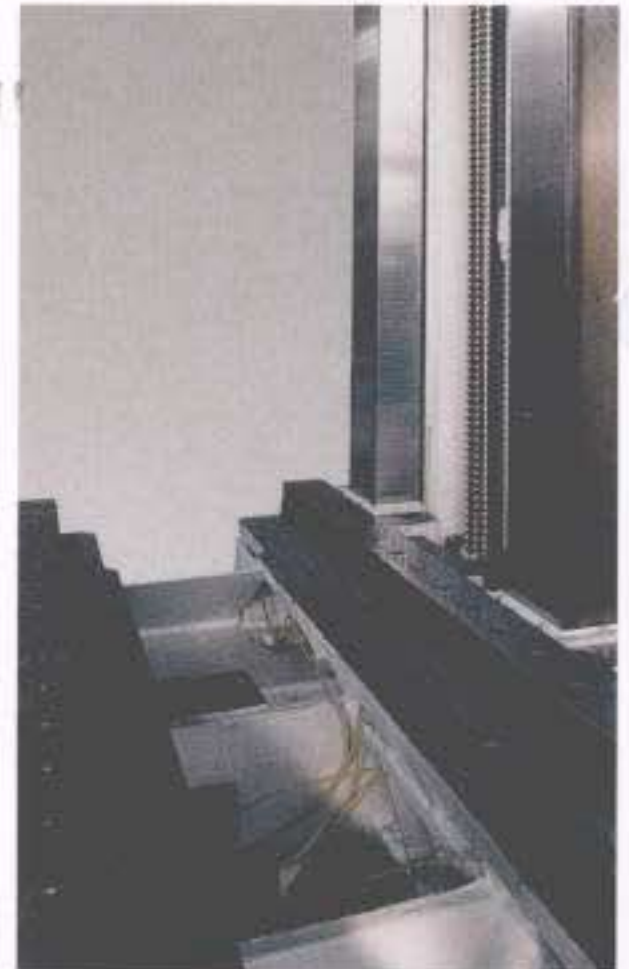
Hydraulic weight compensation

A hydraulic weight compensation in the vertical axis, the weight of the milling head and vertical carriage is hydraulically compensated so that the longterm precision is increased and the load of the ball screw and feed drive could be decreased, which gives way to an extremely high positioning accuracy.

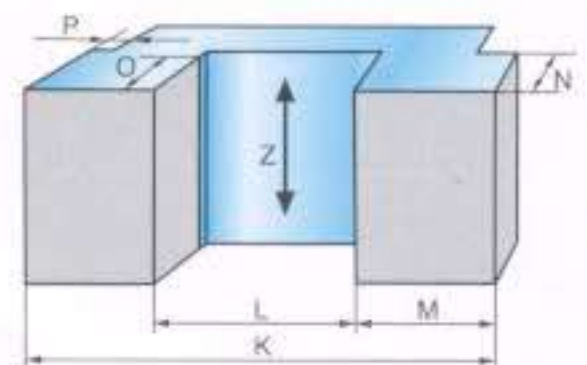
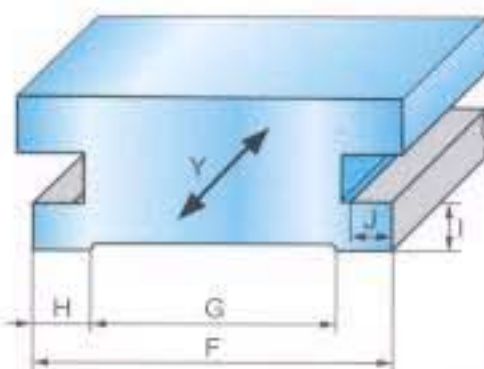
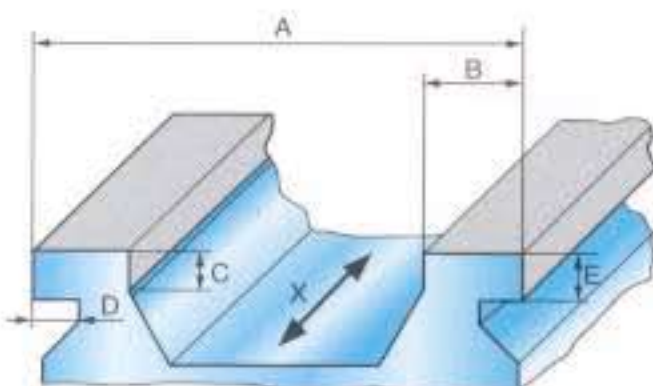


Table movements with the special guideway system, similar to the hydrostatics principle.

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.



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.



SLIDEWAYS DIMENSION ON 3 AXIS

ITEM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
MM	550	125	50	35	50	310	175	67.5	50	35	575	365	105	70	70	42

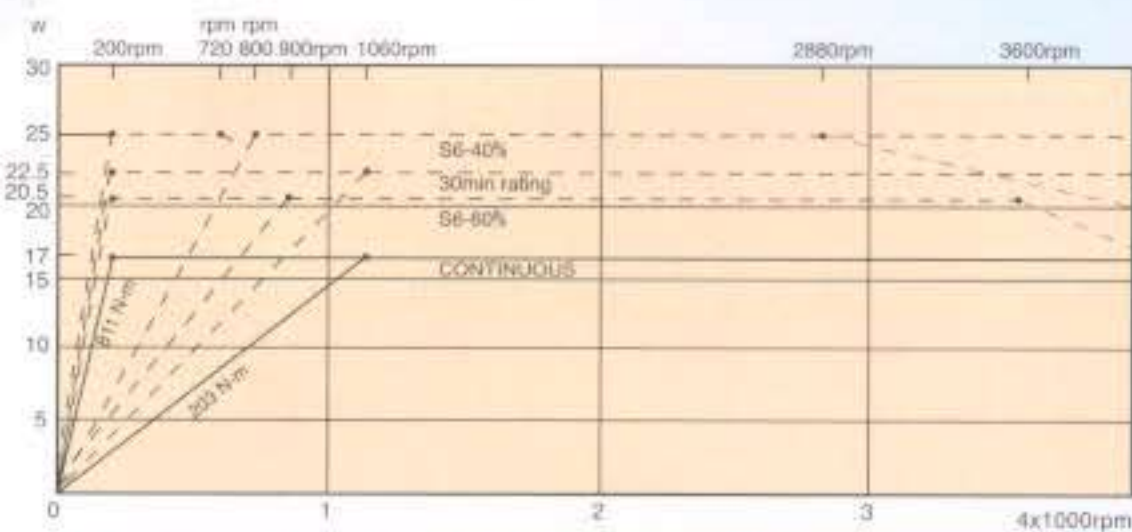


Horizontal spindle

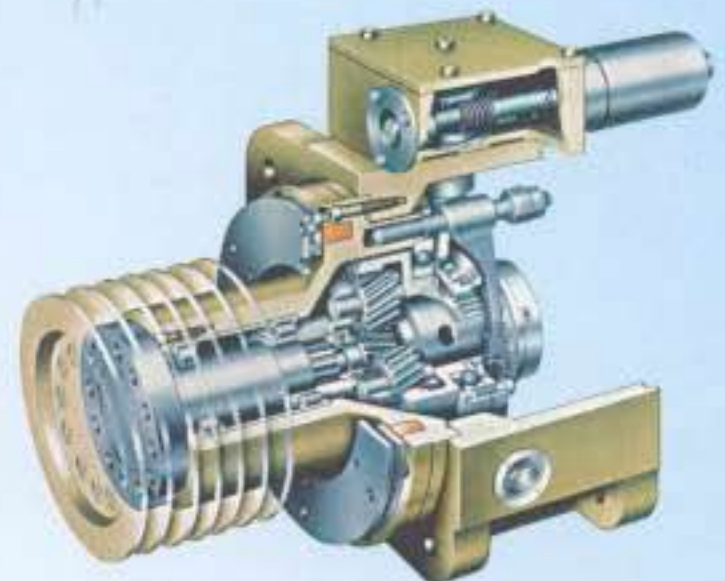


Standard short nose horizontal spindle

Remove the standard universal milling head, a powerful horizontal spindle with maximum 811Nm torque due to the gearbox head and 25kw spindle motor, horizontal heavy cutting operation is possible.



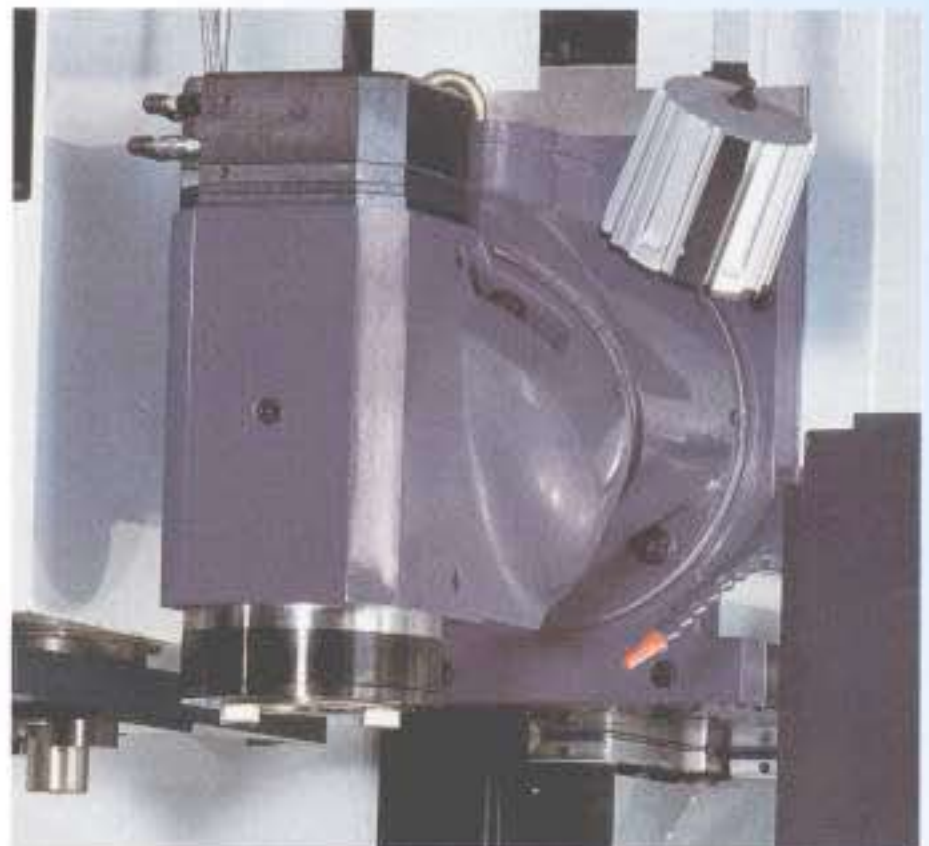
Note : Above torque chart is only for horizontal spindle.



A German made planetary gearbox driven head connects a powerful 25kw AC spindle motor with 2-step transmission generates high torques (811Nm with horizontal spindle, 750Nm with universal milling head) output.

Standard manual rotation universal milling head:

- Maximum power output: 25kw (s6-40%)
- Maximum spindle speed: 3500RPM
- Maximum spindle torque: 750Nm
- Spindle taper: SK 50 (DIN 69871)
- Tool clamping: hydraulic disc springs
- Hydraulic pressure: 50-55 bar (55-60kg/cm²)
- Power transmission: spiral bevel gears
- Lubrication of bevel gears: grease
- Spindle runout accuracy:
 - 15mm length: 0.008mm
 - 300mm length: 0.015mm



OPTIONS



1. MODEL VH-2 AUTOMATIC 2 POSITIONS MILLING HEAD:
3500 rpm.sk50 Taper,25kw Motor,750Nm Torque

- NECK : Manual 360° Indexing
- 45° PLANE : automatic Vertical & Horizontal (0/180 Deg)



2. MODEL VH-2.5 AUTOMATIC 2.5° INDEX MILLING HEAD:
3500 rpm.Sk50 Taper,18Kw Motor,

- NECK : Automatic 2.5° Indexing
- 45° PLANE : Automatic Vertical & Horizontal (0/180 Deg)



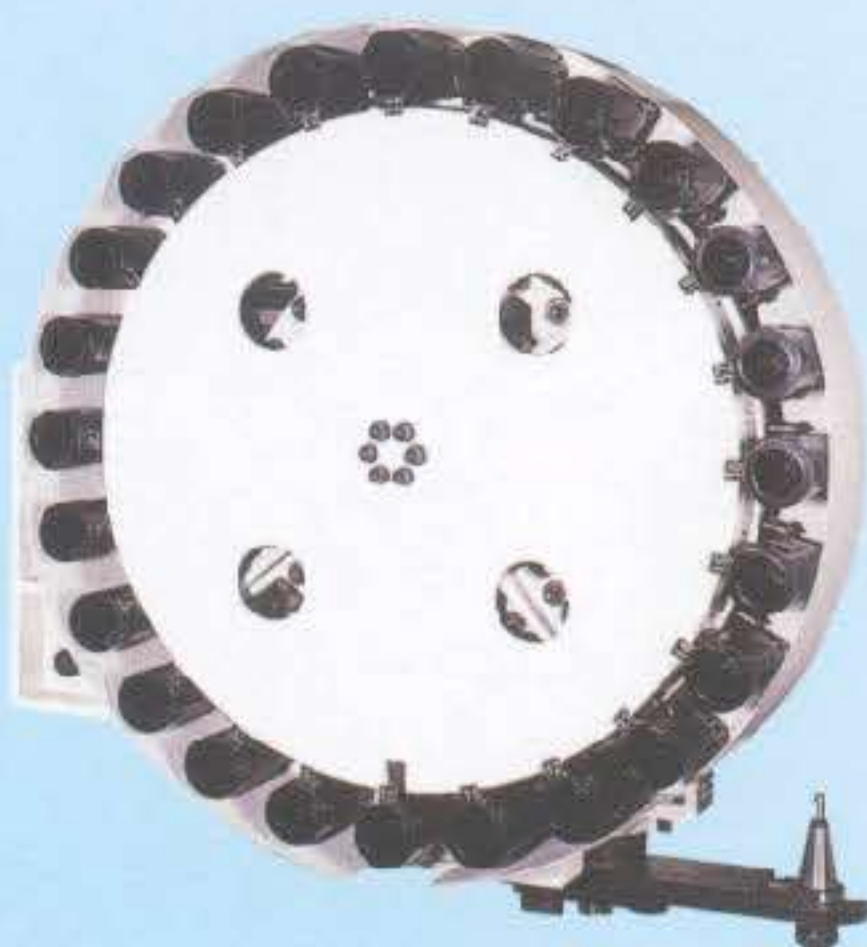
3. MODEL VH-5 AUTOMATIC 5 INDEX MILLING HEAD:
3500 rpm.sk50 Taper,25kw Motor,750Nm Torque

- NECK : automatic 5° Indexing
- 45° PLANE : automatic 5° Indexing



4. MODEL V-90 VERTICAL MILLING HEAD:
3500 rpm.sk50 Taper,25kw Motor,750Nm Torque

- NECK : manual 360° Indexing



5. 24 positions Automatic Tool Changer



OPTIONS



6.Screw Chip Augers



7.Chain Type Chip Conveyor



8.4th Axis Rotary Table



9.Full Splash Guarding (Photo5 Show Machine Without Standard Universal Head But With Optional 32 Tools ATC)



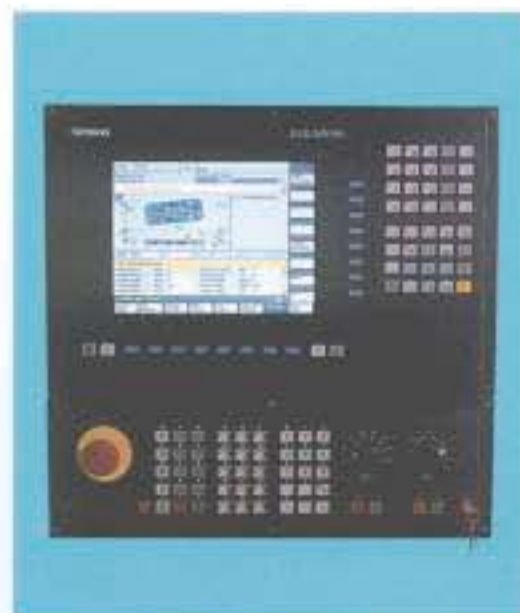
CNC CONTROLS AVAILABLE:



HEIDENHAIN *i* 530

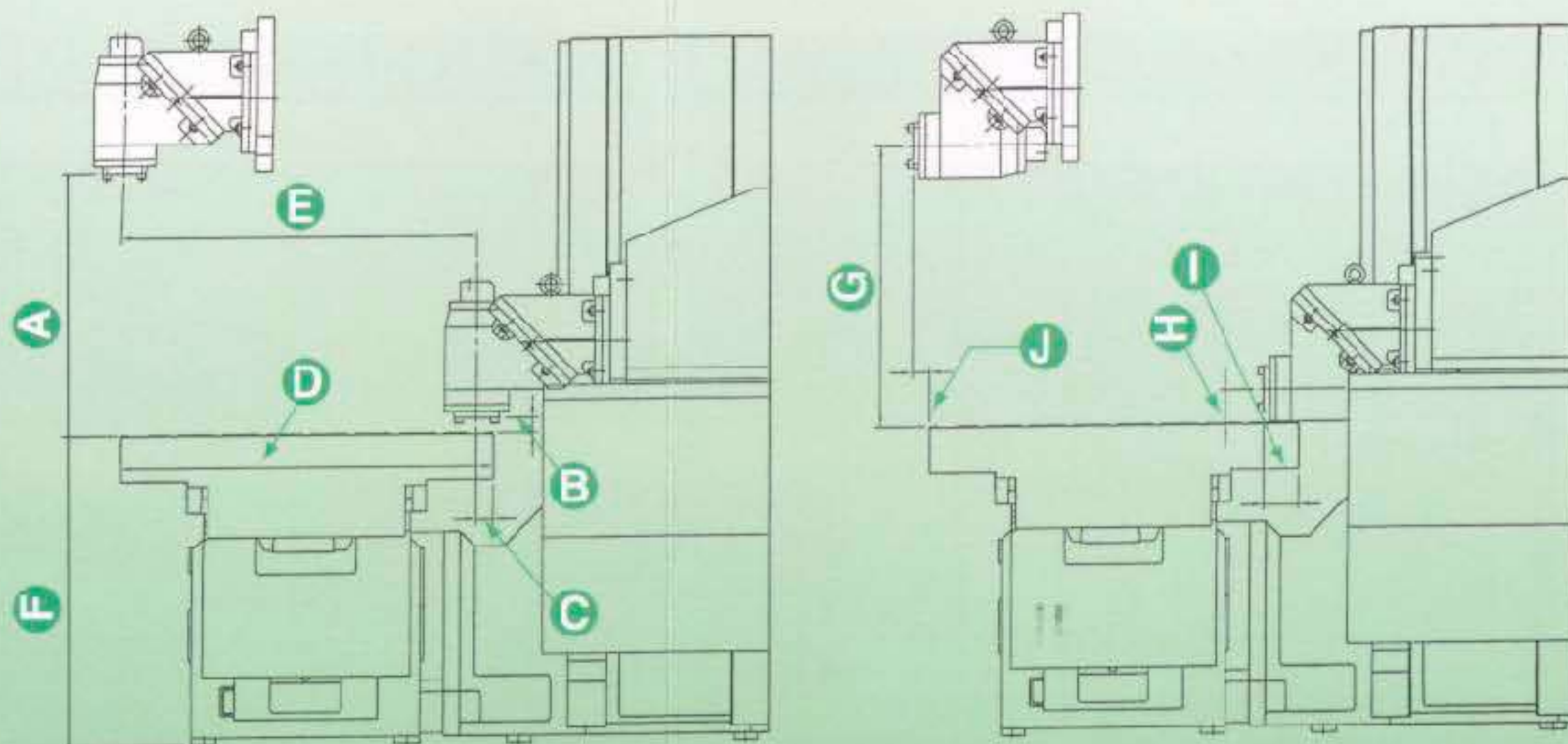


SELCA S4045D/PD

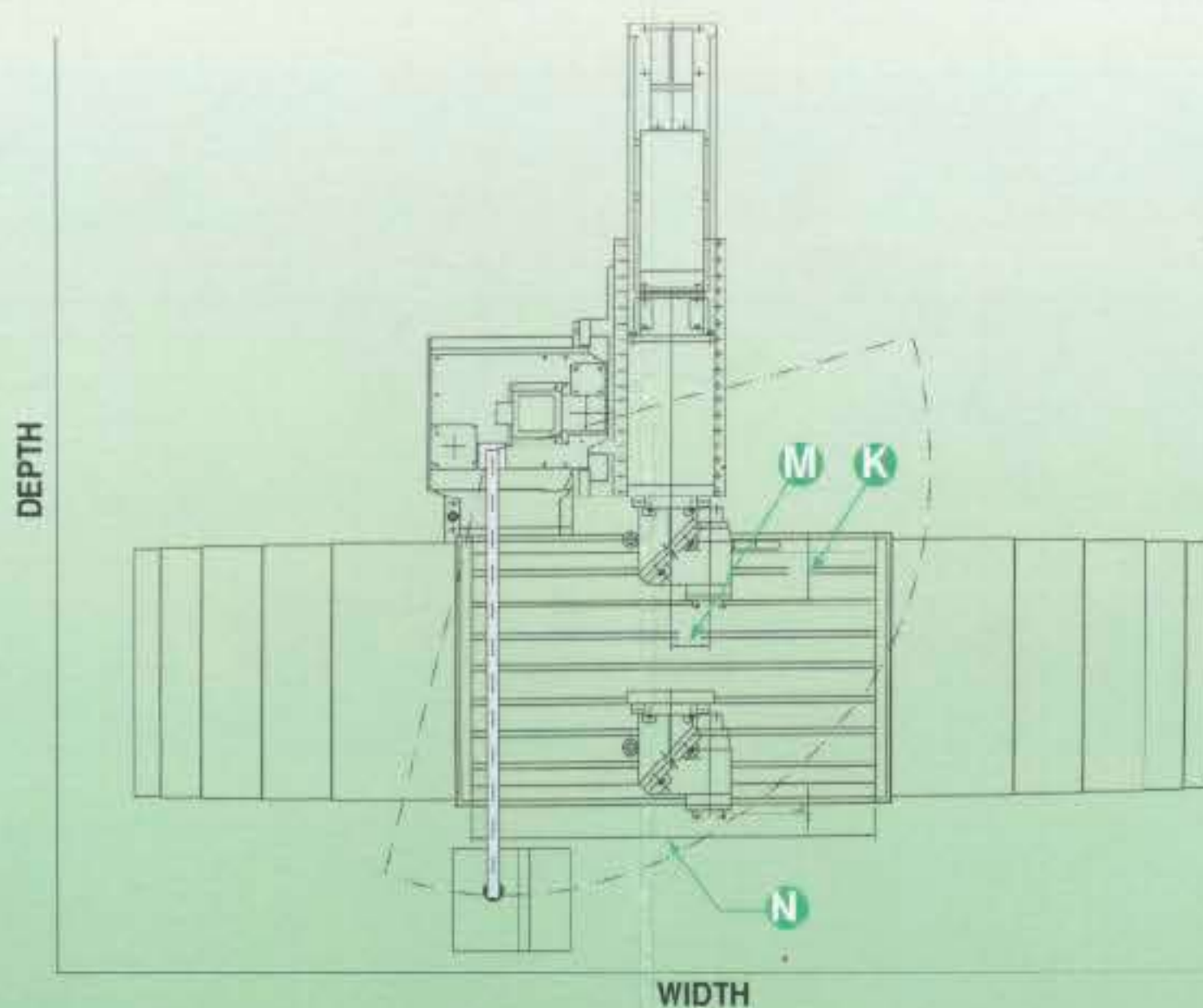


SIEMENS 840D/810D

SIDE VIEW



TOP VIEW



		A	B	C	D	E	F	G	H	I	J	K	L	M	N	WIDTH	DEPTH	HEIGHT
Manual universal milling head.	FBE1500	1003(1563)	3(63)	136	1050	1000	870	1093(1603)	53(103)	183	133	362	123	197	1600	4500	4700	2737
	FBE2000	1003(1563)	3(63)	136	1050	1000	870	1093(1603)	53(103)	183	133	362	123	197	2100	5450		
	FBE2600	973(1533)	-27(33)	136	1050	1000	900	1063(1573)	23(73)	183	133	362	123	197	2700	6500		
	FBE3000	973(1533)	-27(33)	136	1050	1000	900	1063(1573)	23(73)	183	133	362	123	197	3100	7450		

() Z AXIS TRAVEL 1500mm

Note: above dimensions are all with standard manual milling head.

BED TYPE UNIVERSAL MILLING MACHINES SPECIFICATIONS

UMT:MM

MODEL	UNIT	FBE-1500	FBE-2000	FBE-2600	FBE-3000
TABLE:					
WORKING AREA	MM	1600×1050	2100×1050	2700×1050	3100×1050
T SLOTS(SIZE×NO)	MM	22H8×7 SLOTS			
TOP TO FLOOR DISTANCE	MM	860			
LOAD (EVENLY DISTRIBUTED)	KG	3000	5000	6000	8000
TRAVEL:					
X AXES	MM	1500	2000	2600	3000
Y AXES	MM	1000			
Z AXES	MM	1000		970	
UNIVERSAL MILLING SPINDLE:					
TAPER		DIN 69871 #50			
SPEED	RPM	3500			
OUTPUT 40% DUTY CYCLE	KW	25			
CONSTANT OUTPUT	KW	17			
MAXIMUM TORQUE	Nm	600			
FEEDRATE :					
CUTTING	MM/MIN	1- 8000			
RAPID	MM/MIN	10000			
BALLSCREWS:					
X AXIS DIA. × PITCH	MM×MM	ø50×10	ø50×10	ø63×10	ø63×10
Y AXIS DIA. × PITCH	MM×MM	ø50×10			
Z AXIS DIA. × PITCH	MM×MM	ø50×10			
AXIS SERVO MOTOR STATIC TORQUE:					
X AXIS	Nm	27	50	50	70
Y&Z AXIS	Nm	27			
ACCURACY:					
POSITIONING	±MM/300MM	JIS 6338 : ±0.05MM / 300MM		VDI 3441: PO.014MM	
REPEATABILITY	MM	JIS 6338 : ±0.03MM		VDI 3441: PS0.01MM	
ROUNDNESS	MM/DIA.	JIS 6338 : ±0.01MM / 300MM DIAMETER			
GENERAL:					
MACHINE NET WEIGHT	KG	10000	11000	12500	13500
PHNEUMATIC REQUIRED	KG/CM2	6			
HYDRAULIC REQUIRED	KW	3.5			
POWER REQUIRED	KVA	30KVA	30KVA	35KVA	35KVA

STANDARD FEATURES & ACCESSORIES

1. 3500RPM UNIVERSAL MANUAL MILLING HEAD.

2. PROGRAMMABLE COOLANT SYSTEM.

3. AUTOMATIC LUBRICATION SYSTEM.

4. SPINDLE AIR BLAST SYSTEM.

5. WORKING LAMP.

6. ALARM LAMP FOR ABNORMAL SITUATION.
7. INDICATION LAMP FOR DWELL & END OF JOB.

8. LEVELLING BOLTS & PADS.

9. RS-232 TERMINAL INTERFACE PORT

10. MACHINE & CONTROL MANUALS

11. TOOLBOX WITH SPANNERS & WRENCHES.

12. 3 AXIS LINEAR SCALES.