

Eumach

**HIGH SPEED BRIDGE TYPE
VERTICAL MACHINING CENTER**



LBM-2000

EMC / CE / ISO CERTIFIED

HSC

A PROFESSIONAL CNC MACHINES MANUFACTURER

THE NEWEST EUMACH BRIDGE TYPE VERTICAL MACH IN RIGIDITY, ACCURACY, SPEED AND HEAVY CUTTING

- **Large workpiece load & traverse capacity**

2200mm x 1750mm x 650mm traverse, 1750mm twin column distance, 2100mm x 1600mm size with up to 6000kg workpiece load

- **Rigid double column bridge type construction**

The twin column & bridge is made of one piece Meehanite highest quality casting to ensure its rigidity and reduce vibrations during high speed heavy cutting

- **Wide choice of spindles with full power range**

Various built-in motor spindle from Standard 18000 RPM, HSK-A63, 78Nm 35kw (S1) up to HSK-A80/100, BT#50 12000 / 10000 RPM 285Nm

- **Advanced latest CNC digital controls**

Fanuc 18i / 31i Heidenhain iTNC-530, Siemens 840D, Selca S4045D/PD



door opening for easy work piece loading & unloading

**INING CENTER NOT ONLY WITH FURTHER INNOVATIONS
BUT ALSO FOR TRUE DIE / MOLD EVOLUTION.**



● **THE RIGHT CONTROL IN THE RIGHT POSITION**

A swivel control panel located in right side of machine, easily move to the most suitable position to make the operator's job more straight-forward and enhances safety and productivity.

RIGID OVERALL MACHINE DESIGN & SUPERIOR

• Super wide & high rigid one piece castings twin columns

The very wide distance 1750mm between twin column, allowing the most convenience mounting of large workpiece, fixture or rotary table etc. The high column compare to competitors is extremely useful for tall workpiece and those which requires long cutting tools.

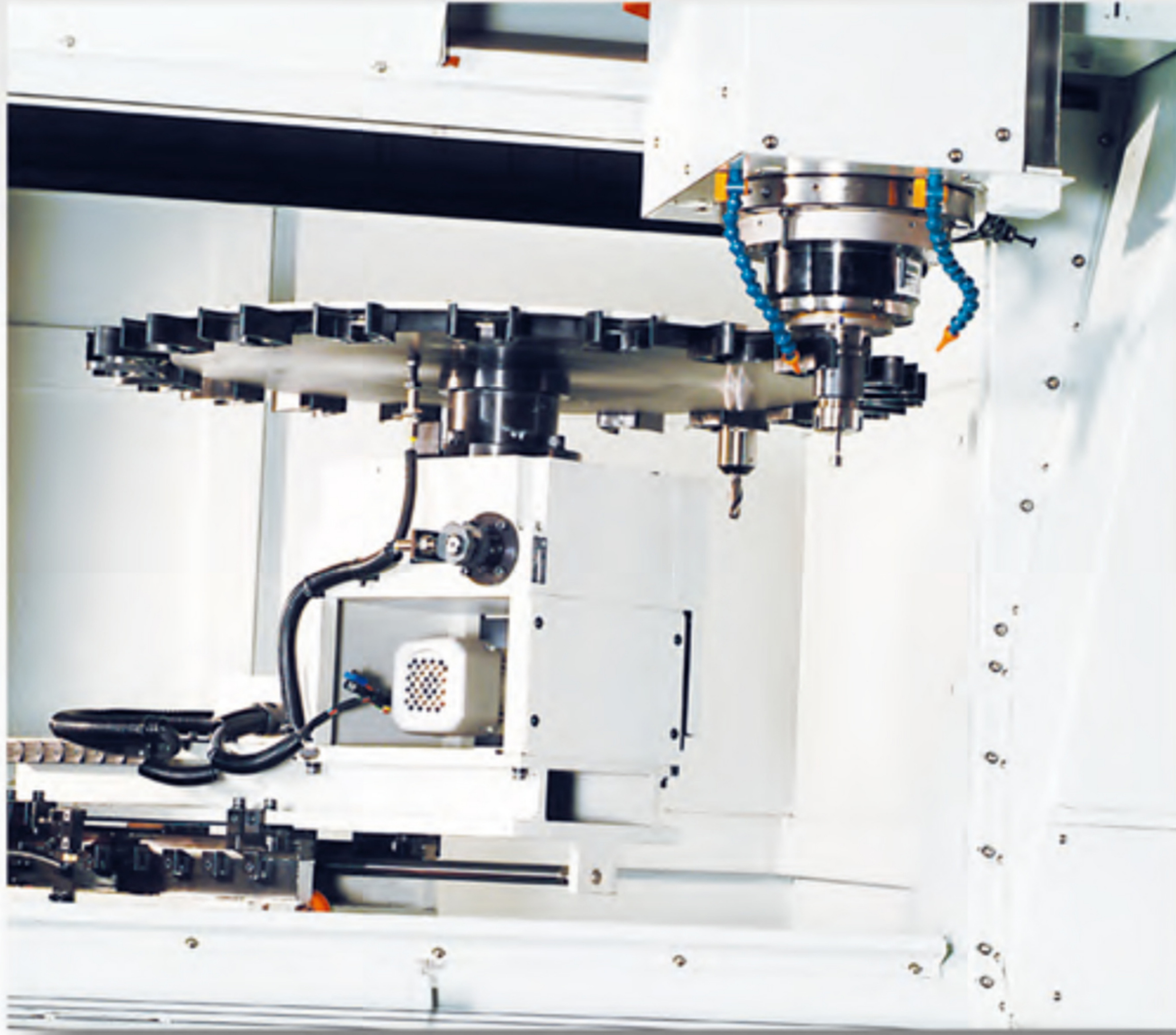


• Integrated ballscrew mounting brackets

The mounting brackets for 3 axes are being integrated on the bridge base and saddle castings for the maximum rigidity, the ballscrews are mounted on both ends to prevent heat generated by respective high speed positioning from affecting positioning accuracy.

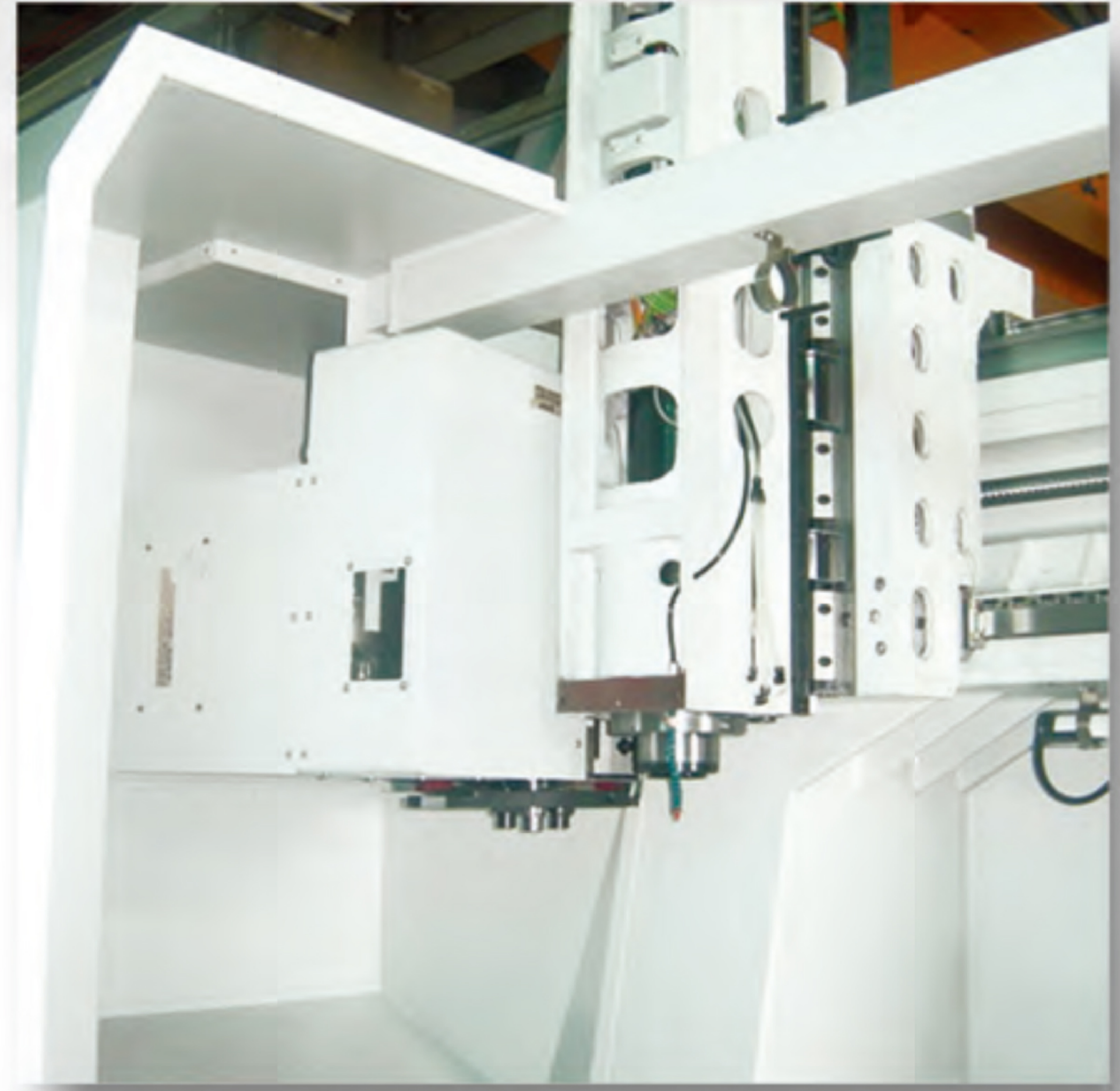
FEATURES:

● Automatic tool changer

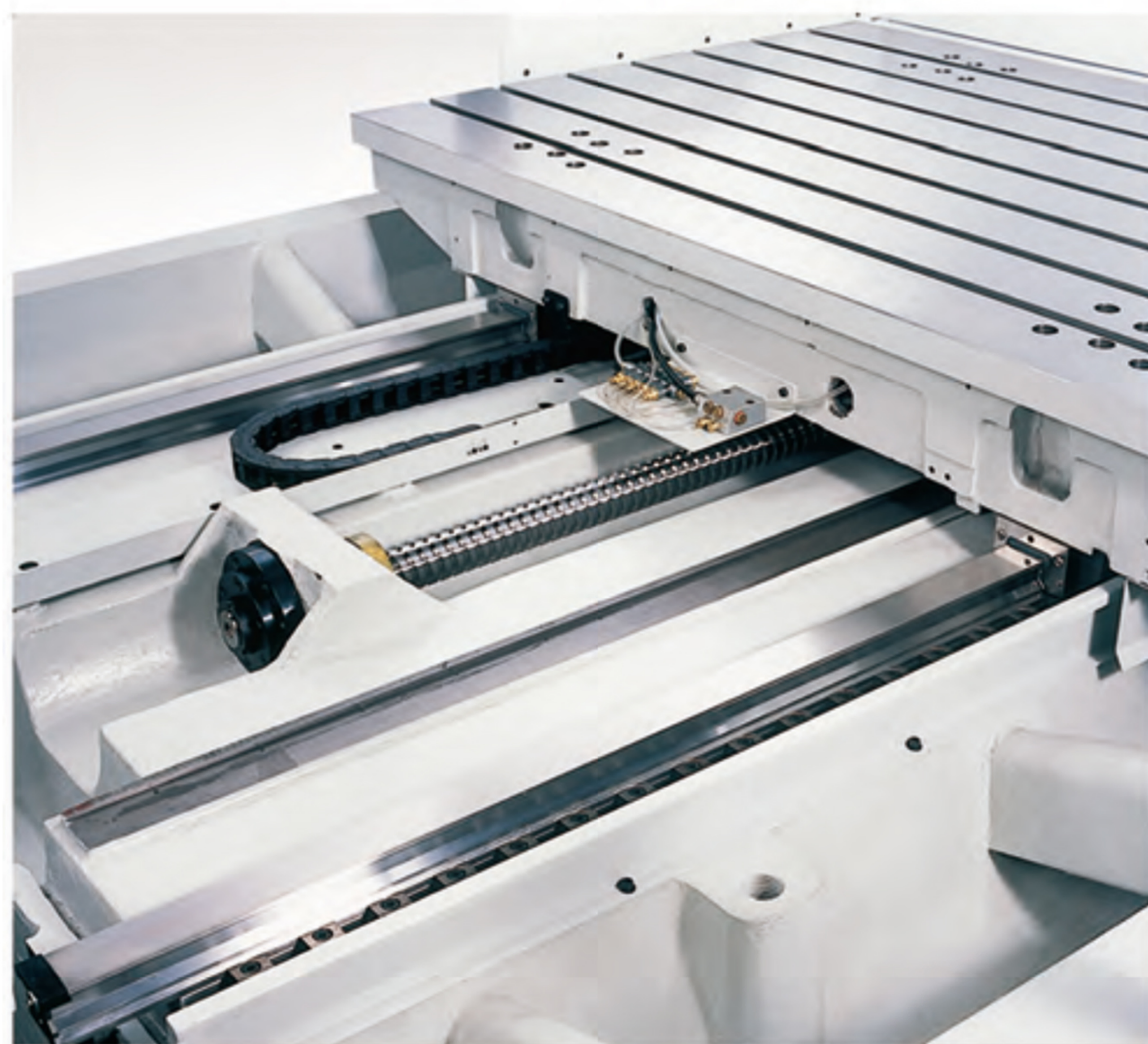


A disk type 16 stations automatic tool changer provides as standard

● 32 Swing Arm Atc



Double swing arm with 32 stations automatic tool changer provides as optional.

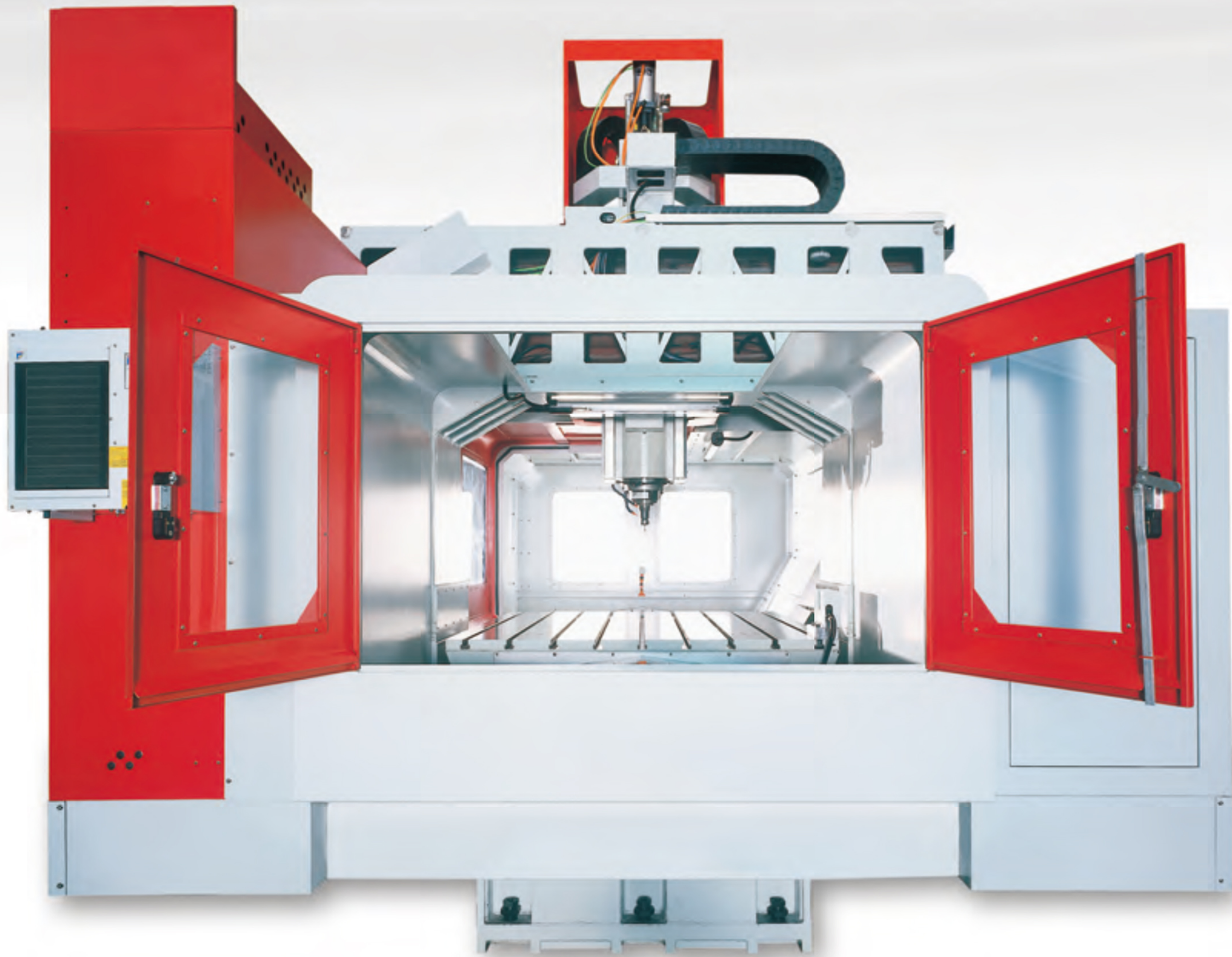


● Roller guideways & ballscrews

The high rigid & heavy duty roller type linear motion guideways on 3 axes to provide low starting inertia, low friction and high acceleration, rates optimizing servo drive and ensure machine response immediately & precisely for high speed cutting requirements, especially in rapid positioning and contouring cutting.

Note: Both roller guideway blocks & ballscrew nuts have been oil-air specially cooled, greatly draws heat at high speed transmission.

USER - FRIENDLY & ERGONOMIC GUARDING DESIGN:



- Totally cover rear side with very wide opening twin doors for convenient clean & service.



- **Compact & clear guardings**

Full cover for all electrics water cooler, transformers, pneumatics etc. for a clean environment & convenient after service.

THE LATEST DIGITAL CNC CONTROL:



Fanuc 18i

1. 8.4" color LCD
2. 1280m or opt. 2560m memory
3. Hpsc & 600 blocks
4. NURBS
5. HRV Serro control
6. 128MB ATA card (data server) & ethernet



Heidenhain iTNC-530

1. 15" TFT color
2. 6GB memory
3. 3.6ms or 0.5ms block processing
4. 256 blocks look ahead
5. Ethernet



Selca 4045PD

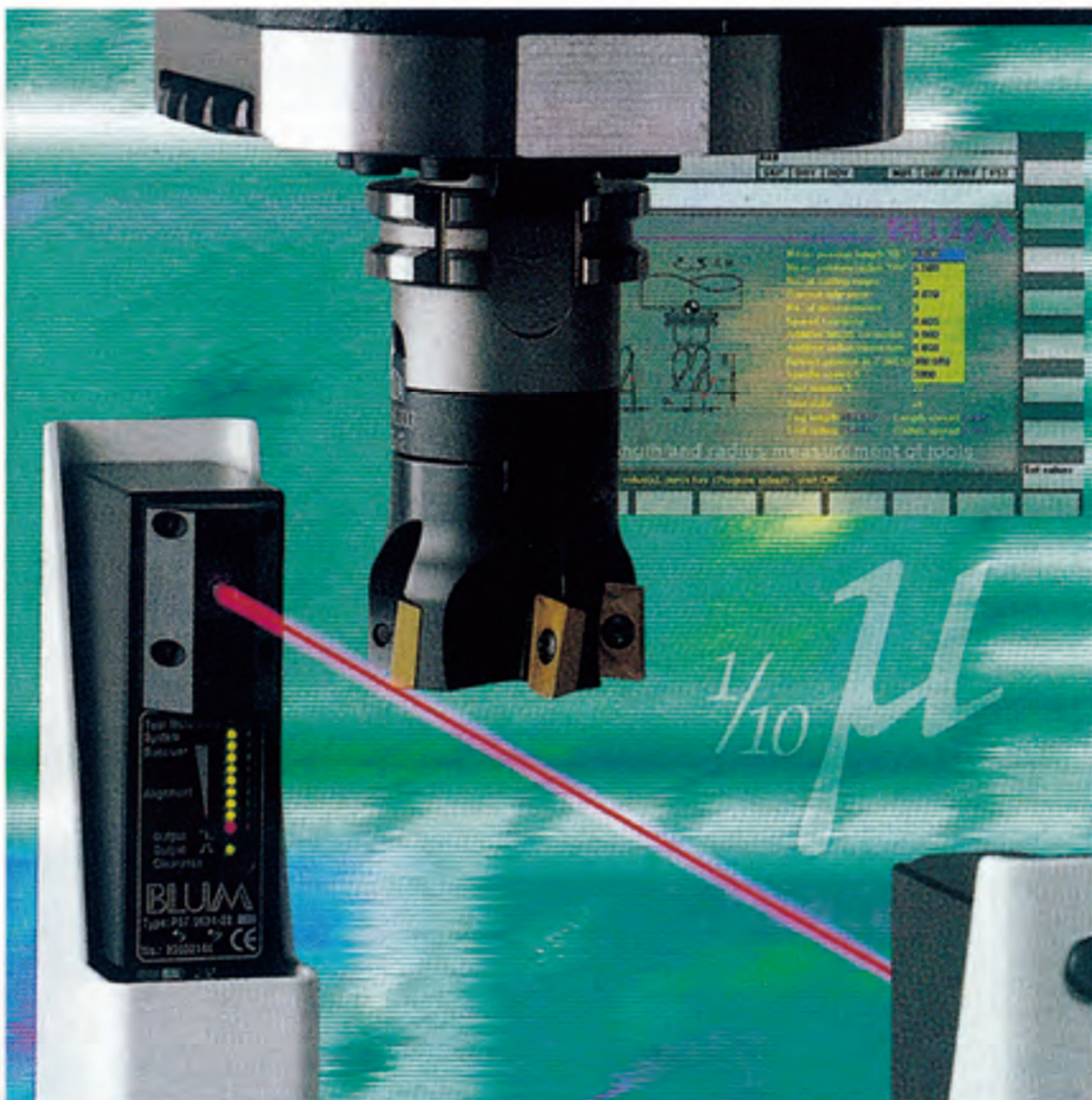
1. 12" TFT color touch screen
2. 6GB hard disk
3. Twin cpu (motorola for real time management, PC pentium for operator interface)
4. Standard 300 or optional 1000 blocks / sec up to 3000 blocks / sec
5. Opt. CD / ROM / Joystick / Ethernet
6. 3.5" floppy disk



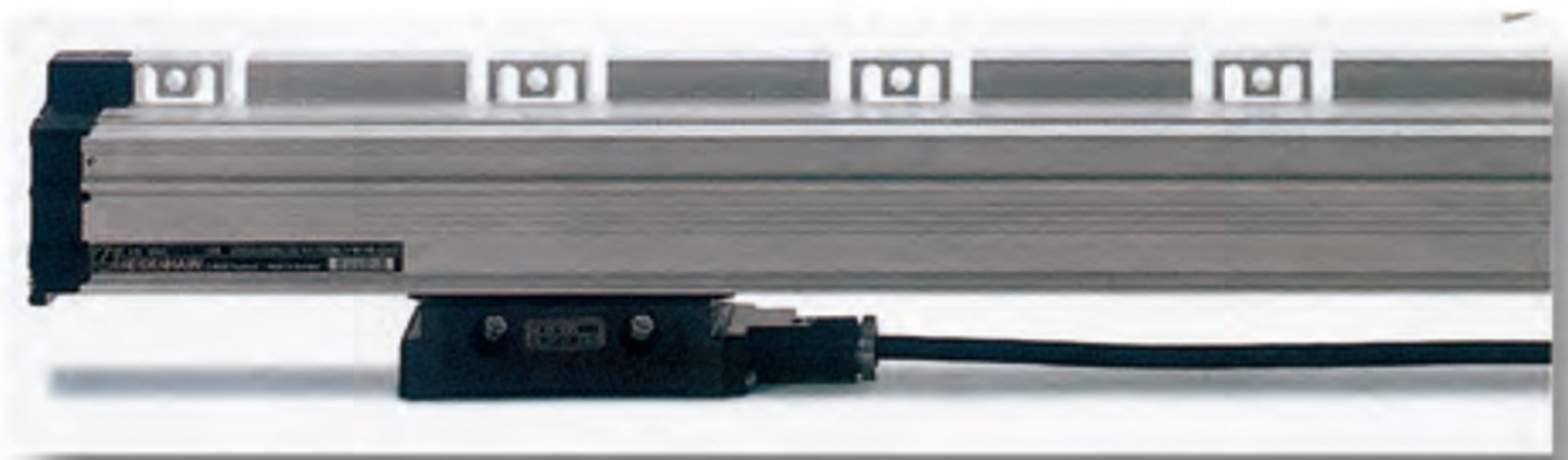
Siemens 840D

1. 10.4" TFT COLOR
2. 4.2GB hard disk
3. 1ms block processing
4. 300 blocks look ahead
5. Ethernet

OPTIONAL ACCESSORIES:



1. TOOL LASER MEASUREMENT



2. AXIS LINEAR GLASS SCALES
3. CNC ROTARY TABLE
4. WORKPIECE PROBE
5. COOLANT THRU SPINDLE DEVICE
6. 10000 RPM BT / CAT#50 TAPER MOTOR
SPINDLE HSK-A80 / 100 12000 RPM
MOTOR SPINDLE
7. 32 SWING ARM ATC

HIGH SPEED BRIDGE TYPE VERTICAL MACHINING CENTER:

MODEL	L B M - 2 0 0 0
TABLE:	
OVERALL SIZE	2100mm × 1600mm
T-SLOT	22mm × 9 × 180mm
MAXIMUM LOADING	6000 kgs
TRAVEL:	
X AXIS	2200mm table in & out
Y AXIS	1750mm head left & right
Z AXIS	650mm head up & down
DISTANCE:	
BETWEEN 2 COLUMNS	1750mm
SPINDLE TO TABLE TOP	254mm ~ 904mm (NOTE)
SPINDLE: see page 5	
MOTOR	S1 : 35KW / 78 Nm
TAPER	HSK-A63 (BT#40)
SPEED	18000RPM (14000RPM, 20000RPM)
FEEDRATE:	
CUTTING	UP TO 20 M/min
RAPID X / Y / Z	24 / 30 / 30 M/min
MINIMUM SETTING	0.001mm
AUTOMATIC TOOL CHANGER:	
NO. OF TOOLS	carousel armless 16 (swing arm 32)
MAX. TOOL DIA. / LENGTH	80mm / 250mm
MAX. TOOL WEIGHT	7 kgs
COOLANT & LUBRICATION:	
COOLANT TANK VOLUME	300 Liters
PNEUMATIC REQUIRED	7kgf / cm ²
LUBRICATION TANK	4 Liters
ACCURACY:	
POSITIONING	± 0.005mm / 300mm
REPEATABILITY	0.003mm
ROUNDNESS	0.01mm / 300mm DIA.
MACHINE NET WEIGHT	20000 kgs

() options

Note: DISTANCE WILL BE SLIGHTLY DIFFERENT WHEN USING OPTIONAL SPINDLES.

■ STANDARD ACCESSORIES

- | | |
|------------------------|---|
| ① FULL GUARD WITH ROOF | ⑥ WORKING LAMP |
| ② ARMLESS ATC | ⑦ ALARM LIGHT |
| ③ COOLANT SYSTEM | ⑧ LEVELLING PADS & BOLTS |
| ④ SPINDLE AIR BLAST | ⑨ ADJUSTING TOOLS & BOX |
| ⑤ AUTO. LUBRICATION | ⑩ 18000RPM MOTOR SPINDLE & WATER COOLER |