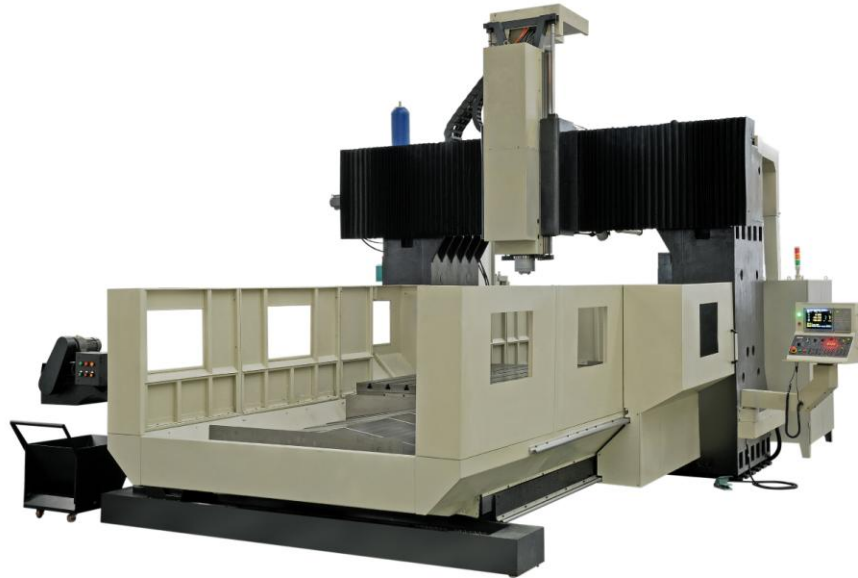


# CLEVELAND

## *Double Column Machining Center MODEL: D2504*



### **MACHINE FEATURES**

- **FANUC CONTROL SYSTEM 21i-MB**
- **30HP Spindle Motor, BT50 Spindle Taper**
- **Standard 30T chain type tool changer**
- **60-4,500 rpm gear box spindle speed with spindle oil cooler**
- Hardened & Ground with Turcite-B coating on Z axis guide way
- Roller Linier guide way , 3 ways on x and 2 ways on y axes
- Double nut precision ball screws hardened & ground for high accuracy and long lasting
- FC30 Meehanite Casting main frame with annealed & stress relieved for long term reliability
- 100% Laser tested for positioning accuracy & repeatability
- Telescopic steel way covers on all three axes
- Coolant System and air blast system & Tool box & Tools
- Central lubrication system
- Built-in Quartz work light
- 90° angle milling head (manual) (opt.)
- Rigid tapping(opt.)

### **Specification:**

Table:	90" x 157" (2300 x 4000 mm)
Longitudinal travel (X-axis):	157" (4000 mm)
Cross travel:	98" (2500 mm)
Vertical travel:	39" (1000 mm)
Spindle nose to table top (D):	10"-49.6" (260-1,260 mm)
Load capacity:	48,500 lbs (22000 Kgs)
Spindle taper:	BT50
Spindle Speed (r. p.m.):	60 to 4500 rpm
Transmission of spindle & motor:	gear box
Spindle center to column front surface:	
Distant between columns:	106" (2700mm)
T-Slot:	11~1.1"*7.87" (11~28*200mm)

**Feed Rate:**

Rapid feed rate:  
Cutting feed rate:

X/Y/Z: 472 ipm  
1-393 ipm

**Motor:**

Spindle motor/max torque:  
Feed motors on XYZ:  
Coolant pump  
Lubrication pump:  
Power requirement:

30HP/22KW/100NM  
9/6/7 KW  
  
60 KVA, 3 Phase 208-230 voltage

**Automatic Tool Changer**

No. of tools:  
Max. tool diameter:  
Max. tool length:  
Max. tool weight:

30  
4.9" (125 mm)/ 8,2"(210mm)  
13.7"(350mm)  
42 lb (20 Kg)

Length X Width X Height (LXWXH):

Net Weight:

121,600 lbs. (55000 Kgs)

**STANDARD ACCESSORIES:**

High pressure automatic lubrication system	Fully enclosed guarding	Air count balance
Chain type chip conveyor and chip tray	Coolant pump and water tank	Spindle coolant system
Z-axis oil pressure balance system	air blasting	Working lamp and Operation light
Automatic power off system	Electrical hand wheel	Precision inspect chart
RS-232 connector	Leveling screws and pads	Tool box, electric circuit diagram and manual

**Additional Accessories information:**

Power requirement	80 KVA, 3 Phase 208-230 voltage
Air requirement	90 - 100 psi
Type of oil for Way oil / oil chiller / pneumatic oil	Mobil Vactra #2 / Shell Tellus 32 / Air tool oil
Coolant capacity	

**\*\* WE RESERVE THE RIGHT TO CHANGE DESIGN, COLOR, SPECIFICATIONS, OR PRICE WITHOUT NOTICE \*\***

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