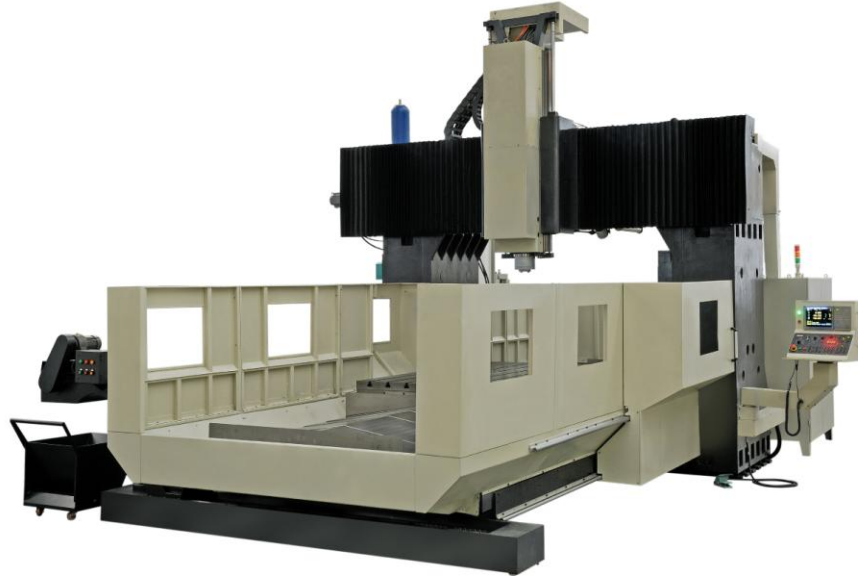


# CLEVELAND

## *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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