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: 106” (2700mm)
Distant between columns: 11~1.1”*7.87” (11~28*200mm)
T-Slot:
**Feed Rate:**
Rapid feed rate: X/Y/Z: 472 ipm
Cutting feed rate: 1-393 ipm

**Motor:**
Spindle motor/max torque: 30HP/22KW/100NM
Feed motors on XYZ: 9/6/7 KW
Coolant pump
Lubrication pump
Power requirement: 60 KVA, 3 Phase 208-230 voltage

**Automatic Tool Changer**
No. of tools: 30
Max. tool diameter: 4.9” (125 mm)/ 8.2”(210mm)
Max. tool length: 13.7”(350mm)
Max. tool weight: 42 lb (20 Kg)

Length X Width X Height (LXWXH):
Net Weight: 121,600 lbs. (55000 Kgs)

**STANDARD ACCESSORIES:**

<table>
<thead>
<tr>
<th>High pressure automatic lubrication system</th>
<th>Fully enclosed guarding</th>
<th>Air count balance</th>
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<tbody>
<tr>
<td>Chain type chip conveyor and chip tray</td>
<td>Coolant pump and water tank</td>
<td>Spindle coolant system</td>
</tr>
<tr>
<td>Z-axis oil pressure balance system</td>
<td>air blasting</td>
<td>Working lamp and Operation light</td>
</tr>
<tr>
<td>Automatic power off system</td>
<td>Electrical hand wheel</td>
<td>Precision inspect chart</td>
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<tr>
<td>RS-232 connector</td>
<td>Leveling screws and pads</td>
<td>Tool box, electric circuit diagram and manual</td>
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**Additional Accessories information:**

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