CLEVELAND

Double Column Machining Center MODEL: D2505

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
- X axis with Fagor scale feed back
- 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 197” (2300 x 5000 mm)
Longitudinal travel (X-axis): 197” (5000 mm) with scale feed back
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)

Feed Rate:
Rapid feed rate: \(X/Y/Z: 472\) ipm
Cutting feed rate: \(1-393\) ipm

**Motor:**
- Spindle motor/max torque: \(30\)HP/\(22\)KW/\(100\)NM
- 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)/ \(8,2"(210\) mm)
- Max. tool length: \(13.7"(350\) mm)
- Max. tool weight: \(42\) lb (20 Kg)

Length X Width X Height (LXWXH):
Net Weight: \(127,600\) lbs. (58000 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>
</tr>
<tr>
<td>RS-232 connector</td>
<td>Leveling screws and pads</td>
<td>Tool box, electric circuit diagram and manual</td>
</tr>
</tbody>
</table>

**Additional Accessories information:**

<table>
<thead>
<tr>
<th>Power requirement</th>
<th>80 KVA, 3 Phase 208-230 voltage</th>
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<tbody>
<tr>
<td>Air requirement</td>
<td>90 - 100 psi</td>
</tr>
<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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<tr>
<td>Coolant capacity</td>
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**WE RESERVE THE RIGHT TO CHANGE DESIGN, COLOR, SPECIFICATIONS, OR PRICE WITHOUT NOTICE**

**CLEVELAND MACHINERY SALES INC.**

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