CLEVELAND
Double Column Machining Center MODEL: DM1420

MACHINE FEATURES
- FANUC CONTROL SYSTEM Oi-MB
- 22HP Spindle Motor, BT50 Spindle Taper
- ATC 24 Tools
- 4,000 rpm spindle speed with spindle oil cooler
- Hardened and grounded box way
- 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
- Extend head
- 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.

Specification:
Table: 47” x 84.7” (1200 x 2150 mm)
Longitudinal travel (X-axis): 55” (1400 mm)
Cross travel: 88” (2260 mm)
Vertical travel: 32” (820 mm)
Spindle nose to table top (D): 10”~42.2” (250-820 mm)
Load capacity: 6,600 lbs (3000 Kgs)
Spindle taper: BT50
Spindle Speed (r. p.m.): 60-4000 rpm
Transmission of spindle & motor: Belts
Spindle center to column front surface:
Distant between columns: 55” (1400mm)
T-Slot: 6*0.86”*7” (9~22*180mm)
Feed Rate:
Rapid feed rate: X/Y/Z: 472 ipm
Cutting feed rate: 1-393 ipm

Motor:
Spindle motor/max torque: 22/ 18.5KW/30 min / continued
Feed motors on XYZ: 7/6/7 KW
Coolant pump
Lubrication pump
Power requirement: 50 KVA, 3 Phase 208-230 voltage

Automatic Tool Changer [Option]
No. of tools: 24
Max. tool diameter: 4.9” (125 mm)
Max. tool length: 13.7” (350 mm)
Max. tool weight: 39 lb (18 Kg)

Length X Width X Height (LWXH):
Net Weight: 60,185 lbs. (27000 Kgs)

STANDARD ACCESSORIES:

<table>
<thead>
<tr>
<th>High pressure automatic lubrication system</th>
<th>Fully enclosed guarding</th>
<th>Screw type chip conveyor (on both side)</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>
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<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>
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</tbody>
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Additional Accessories information:

<table>
<thead>
<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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<tr>
<td>Coolant capacity</td>
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** WE RESERVE THE RIGHT TO CHANGE DESIGN, COLOR, SPECIFICATIONS, OR PRICE WITHOUT NOTICE **

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