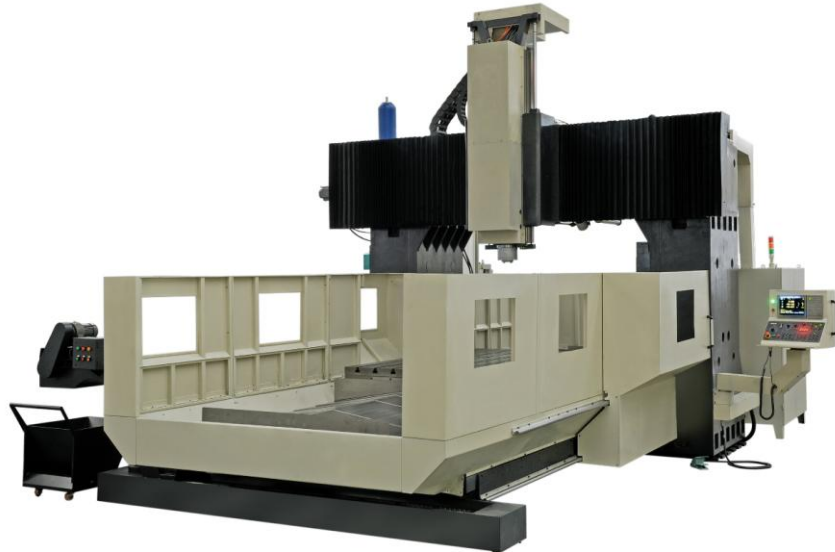


# CLEVELAND

## *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:  
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:

22/ 18.5KW/30 min / continued  
7/6/7 KW

50 KVA, 3 Phase 208-230 voltage

**Automatic Tool Changer [Option]**

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

24  
4.9" (125 mm)  
13.7"(350mm)  
39 lb (18 Kg)

Length X Width X Height (LXWXH):

Net Weight:

60,185 lbs. (27000 Kgs)

**STANDARD ACCESSORIES:**

High pressure automatic lubrication system	Fully enclosed guarding	Screw type chip conveyor (on both side)
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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