CLEVELAND
Double Column Machining Center Model: D1703

- Fanuc control system
- 20 HP spindle motor, CAT50/BT50 spindle taper
- ATC 32 Tools
- Gear Head 4,500 rpm spindle speed w/spindle oil cooler
- Roller linear guide 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
- Extended head
- Coolant system and air blast system & tool box & tools
- Central lubrication system
- Built-in Quartz work light
- 90° angle slide milling head (opt)
- Rigid tapping (opt)

**Travel**

X / Y / Z axis travel: 118” / 63” / 39”

**Table**

Table area: 59"x118"
T-Slot (no.-size x pitch): 7-0.86"x7.8"
No. of linear ways / slide blocks: 2 / 6
Max. table load: 18000 lbs

**Distance**

Distance between columns: 67”
Distance from spindle end to table: 7.8”- 47.2”

**Spindle**

Spindle nose taper / tool: 7 / 24 / NO.50, CAT50/BT50
Spindle speed: 60-4500rpm
Spindle type: Gear head 4500rpm Ø3.9"

**Feed**

3 axes servo motors X/Y/Z: 7 kW
X / Y / Z axis rapid traverse: 472 / 472 / 393 ipm
Cutting feedrate: 314 ipm

**Automatic Tool Changer (OPT)**

Tool magazine capacity: 32
Tool change time: 8 seconds arm type
Max. tool dia. / empty adj. tool: Ø4.9”/ Ø8.2”
Max. tool length: 13.7”
Max. tool weight: 39 / 44 lbs

**Accuracy**

Positioning accuracy: IS B6201: 0.01 mm / 300 mm
VDI3441: P0.025 mm
Repeat accuracy: ± 0.003 VD13441:Ps0.015 mm
Circular accuracy: 0.02 mm / Ø300 (X, Y surface)
Installation requirements
Connected electricity: 60 KVA
Weight (about): 72000 lbs

Standard Accessories
1. Fanuc control system
2. Force auto lubrication system
3. Semi-enclosed splash guard
4. Ship augers at both sides
5. Crawler chip conveyor with chip bucket
6. Coolant pump and tank
7. Spindle oil cooler
8. Nitrogen gas counter balancing system
9. Z axis hydraulic counter balancing system
10. Air system
11. Air gun for removing chips
12. Halogen work light
13. Automatic power off device
14. Program finished warning lamp
15. RS-232 interface
16. Leveling bolts and blocks
17. Service tool
18. Operation and maintenance manual
19. Controller operation manual
20. Electric circuit drawing
21. Machine accuracy inspection report

Optional Accessories
1. Auxiliary tool stand
2. NC rotary table
3. Automatic tool setting device
4. Computerized scanning imitative system
5. Linear scale feedback
6. 90 degree slide milling head
7. Universal milling head
8. 45 degree angular milling head
9. Chain type magazine
10. Oil water separating tank
11. Coolant through spindle
12. Tool setting & part probe

Additional Accessories Information
Power requirement: 60 KVA 3 phase 208V to 230V (Max)
Air requirement: 90 - 100 psi
Type of oil for way oil / oil chiller / pneumatic oil: Mobil Vectra #2/ Shell Tellus 32/ Air tool oil

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CLEVELAND MACHINERY SALES INC.
5000 BROOKPARK ROAD  PHONE: 216-741-8900
CLEVELAND, OHIO 44134  FAX: 216-741-8995
WEBSITE: www.clevelandmachinery.com  EMAIL: sales@clevelandmachinery.com