

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"
Spindle motor (30 min. rating./ cont.): 20 HP

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 VDI3441: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 | 12. Halogen work light |
| 2. Force auto lubrication system | 13. Automatic power off device |
| 3. Semi-enclosed splash guard | 14. Program finished warning lamp |
| 4. Ship augers at both sides | 15. RS-232 interface |
| 5. Crawler chip conveyor with chip bucket | 16. Leveling bolts and blocks |
| 6. Coolant pump and tank | 17. Service tool |
| 7. Spindle oil cooler | 18. Operation and maintenance manual |
| 8. Nitrogen gas counter balancing system | 19. Controller operation manual |
| 9. Z axis hydraulic counter balancing system | 20. electric circuit drawing |
| 10. Air system | 21. Machine accuracy inspection report |
| 11. Air gun for removing chips | |

Optional Accessories

- | | |
|-------------------------------------------|------------------------------------|
| 1. Auxiliary tool stand | 07. Universal milling head |
| 2. NC rotary table | 08. 45 degree angular milling head |
| 3. Automatic tool setting device | 09. Chain type magazine |
| 4. Computerized scanning imitative system | 10. Oil water separating tank |
| 5. Linear scale feedback | 11. Coolant through spindle |
| 6. 90 degree slide milling head | 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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