CLEVELAND

VERTICAL MACHINING CENTER MODEL: M1320

MACHINE FEATURES:

- Centroid M400 control with 15" LCD
- 20 HP spindle motor, BT40 / CAT40 spindle taper
- 8,000 rpm spindle speed with spindle oil cooler
- Armless type 20 tool ATC
- Hardened & ground with Turcite-B coating 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
- 4 Box ways design on Y axis to provide maximum rigidity
 & stability
- Telescopic steel way covers on all three axes
- Tool box & tools
- Coolant system and air blast system
- Central lubrication system
- Built-in Quartz work light
- Rigid tapping (opt)
- Portable hand wheel (opt)

Specification

X / Y / Z travel: 52" / 28" / 27.5"
Distance from spindle to column: 29.7"
Distance from spindle to table top: 5.9" ~ 33.4"
Working Table
Size (X / Y): 59.8" / 27.5"
T-slot: 0.7" x 5 x 5.7"
Load capacity: 3300 lbs
Spindle
Motor: 20 HP
Speed: 8,000 rpm
Taper: CAT40 / BT40
Feed Rate
Rapid X / Y / Z: 640 / 640 / 480 ipm
Cutting: 300 ipm
ATC
Tool magazine capacity: Armless 20 tool
Max. tool dia. / adj. pocket empty: Ø 3.1" / Ø 5.9"
Max. tool length: 11.8"
Max. tool weight: 15.4 lbs
General
Power requirement: 42 KVA
Pneumatic tank requirement (min.): 5 ~ 8 (5) kg/cm^2
Coolant tank capacity: 63.4 gal
Dimension & Weight
L X W X H: 155" x 113" x 116"
Weight: 18,700 lbs
2 3 2



Standard Accessories

Booster (unclamp) cylinder Auto lube Air gun & spindle air blast

Full enclosure

Coolant system
Halogen work light
Telescoping way cover
Power chain
Operation manual
Spindle chiller
Encoder set

Screw type chip auger Electric cabinet set w/ bracket

Optional Machine Accessories

CK-105 52pcs Clamping Kit slot: 0.71" (18mm); stud: 5/8-11

CP-MIST Mist Coolant System

UG-RPM100 Upgrade to 10000 rpm (need to be finished in factory)

UG-MT15 Upgrade to high torque Y and Delta Motor VISE-6 6" Angle Vise W/ Swivel Base (Import) C40RK-45 Retention Knob Cat40, 45degree 20pcs

CP-SP Coolant Through Spindle

Optional Software Accessories

10620	Compression tapping
10020	Outipicssion tapping

10610 User definable Macros and sub programs [M98 & G65]

10851 Cutter compensation 10360 4th axis software

10630 Unlimited part program size

10730 Intercon off-line conversational program (for your desktop PC)

10810 Rigid tapping [G74 & G 84] (includes 10620)

10850 Coordinate system rotation (CSR) 10625 Scaling and mirroring [G50 & G51] 10814 DXF in, CAD drawing input software

10660 BCD tool change output 10740 Engraving software

Digitizing & Probing

10405 DP-4 probing package w/ CSR (10850) 12486 DP-7 probing package w/ CSR (10850) 10770 2D & 3D digitizing software (requires 10405)

10220 TT-1; Tool touch off kit 12468 TT-2; Tool touch off kit

10772 Tool room package (10405 & 10220 & 10600 work coordinate)

Manual Pulse Generators (MPG)

11069 100 Step MPG

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