CLEVELAND

VERTICAL MACHINING CENTER MODEL: M1600 / M1600L

MACHINE FEATURES:
- Centroid M400 control with 15” LCD
- 24 tools ATC arm type
- 25 HP spindle motor, BT50 or CAT50 spindle taper
- 4,500 rpm spindle speed with spindle oil cooler
- 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: 63” / 31.5” / 31.5” (M1600)
  63” / 39.3” / 31.5” (M1600L)
- Distance from spindle to column: 33.8” (M1600)
  41.7” (M1600L)
- Distance from spindle to table top: 6.7” ~ 38.1”

Working Table
- Size (X / Y): 70.8” / 31.5”
- T-slot: 0.7” x 5 x 6.5”
- Load capacity: 5500 lbs

Spindle
- Motor: 25 HP
- Speed: 4,500 rpm
- Taper: CAT50 / BT50

Feed Rate
- Rapid X / Y / Z: 420 / 420 / 360 ipm
- Cutting: 240 ipm

ATC
- Tool magazine capacity: Arm 24
- Max. tool dia. / adj. pocket empty: Ø 4.1” / Ø 8.6”
- Max. tool length: 13.7”
- Max. tool weight: 33 lbs

General
- Power requirement: 48 KVA
- Pneumatic tank requirement (min.): 5 ~ 8 (5) kg/cm^2
- Coolant tank capacity: 74 gal

Dimension & Weight
- L X W X H: 181” x 126” x 123”
- Weight: 30,800 lbs
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
Tools & box  Spindle chiller  Encoder set
Screw type chip auger  Electric cabinet set w/ bracket  Arm type 24 tool atc system

Optional Machine Accessories
CK-105  52pcs Clamping Kit slot: 0.71” (18mm); stud: 5/8-11
CP-MIST  Mist Coolant System
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
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
12488  TT-2; Tool touch off kit
10772  Tool room package (10405 & 10220 & 10600 work coordinate)

Manual Pulse Generators (MPG)
11069  100 Step MPG

** WE RESERVE THE RIGHT TO CHANGE DESIGN, COLOR, SPECIFICATIONS, OR PRICE WITHOUT NOTICE **

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