

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
WISE-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
<hr/> 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)
<hr/> Manual Pulse Generators (MPG)	
11069	100 Step MPG

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

CLEVELAND MACHINERY SALES INC.

5000 BROOKPARK ROAD
CLEVELAND, OHIO 44134

PHONE: 216-741-8900
FAX: 216-741-8995

WEBSITE: www.clevelandmachinery.com EMAIL: sales@clevelandmachinery.com