CLEVELAND

VERTICAL MACHINING CENTER MODEL: L660

MACHINE FEATURES:

- Centroid M400 control with 15" LCD
- Armless type 16 tool ATC
- 10 HP spindle motor, CAT40 / BT40 spindle taper
- 8,000 rpm spindle speed with spindle oil cooler
- Linear guide way on three axes
- 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 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



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	X / Y / Z travel:	26" / 18" / 20"	
	Distance from spindle to column:	20.4"	
	Distance from spindle to table top:	5.9" ~ 26"	
Working Table			
	Size (X / Y):	30" / 18"	
	T-slot: ·····	0.7" x 4 x 4.3"	
	Load capacity:	1100 lbs	
Spindle			
	Motor: ·····	10 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 16 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:	19 KVA	
	Pneumatic tank requirement (min.):	5 ~ 8 (5) kg/cm^2	
	Coolant tank capacity (pump):	63.4 gal (1 hp)	
Dimension & Weight			
	L X W X H:	125" x 92" x 97"	
	Weight: ·····	9,900 lbs	

Standard Accessories

Booster (unclamp) cylinder		
Full enclosure		
Telescoping way cover		
Tools & box		
Screw type chip auger		

Auto lube Coolant system Power chain Spindle coolant unit Electric cabinet set w/ bracket Air gun & spindle air blast Halogen work light Operation manual Encoder set

Optional Machine Accessories

52pcs Clamping Kit
Mist Coolant System
Upgrade to 10000 rpm (need to be finished in factory)
Transformer: 28KVA (440~480V)
Upgrade to high torque Y and Delta Motor
6" Angle Vise W/ Swivel Base (Import)
Retention Knob Cat40, 45degree 20pcs
Upgrade Motor from 10 to 15HP

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	
12468	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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