

# CLEVELAND

## OFFICE TYPE VMC MODEL: VM350 SPACE SAVER PLUS

### MACHINE FEATURES:

- Centroid M400i control with 15" LCD
- 8 tools ATC armless
- 3 HP spindle motor, BT30 spindle taper
- 10,000 rpm spindle speed
- 3 axes linear guide way
- Precision ball screws 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
- 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

Table: .....	15.7" x 9.8" (400x250 mm)
Longitudinal travel: .....	13.7" (350 mm)
Cross travel: .....	9.8" (250 mm)
Vertical travel: .....	11.8" (300 mm)
Spindle nose to table top (D): .....	2.7" to 14.5" (70-370 mm)
Load capacity: .....	140 lbs (60 kgs)
Spindle taper & pull force: .....	BT 30 & 300 Kgs
Spindle speed: .....	10000 rpm
Transmission of spindle & motor: .....	Belts
Spindle center to column front surface: .....	11.8" (300 mm)

### Feed Rate

Rapid feed rate: .....	X/Y: 400 ipm Z: 400 ipm
Cutting feed rate: .....	1 to 100 ipm

### Motor

Spindle motor: .....	3 HP / 2.2 kW
Feed motors on XYZ: .....	0.75 / 0.75 / 1 kW
Coolant pump: .....	1/8 Hp
Lubrication pump: .....	150 W
Power requirement: .....	10 KVA, 3 Phase 208V to 230V (Max)

### Automatic Tool Changer

No. of tools: .....	8
Max tool diameter: .....	2" (50 mm)
Max tool weight: .....	10 lbs (4 kgs)

### Dimension & Weight

Length x Width x Height: .....	63" x 51" x 74" (1600x1300x1900mm)
Net weight: .....	2,640 lbs (1200 kgs)

## Standard Accessories

Tools & box	Leveling bolts & plate	RS-232 interface
Operation manual	Full enclosure	Air blast, coolant flush gun
Auto lube system	Halogen work light	60 GB solid state hard drive
USB 2.0 port	Coolant system	Shop floor programming/Conversational

## Optional Machine Accessories

CK-105	52 pcs Clamping Kit
CP-MIST	Mist Coolant System
TRAN-17	Transformer: 17 KVA (440~480V)
BT30-45	Retention Knob BT30, 45 degree 20 pcs.
UG-MT10-15	Upgrade Motor from 3 to 5 HP (W/inverter & motor plate)

## 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

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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)

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Manual Pulse Generators (MPG)	
11069	100 Step MPG

## Additional Accessories Information

Power requirement: ..... 10 KVA 3 phase 208V to 230V (Max)  
Air requirement: ..... 90 - 100 psi  
Type of oil for way oil / pneumatic oil: ..... Mobil Vectra #2/ Shell Tellus 32/ Air tool oil

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