

# **VERTICAL MACHINING CENTERS INSTRUCTION MANUAL**

**MODEL NO : SV-33**

**S/O NUMBER : V452172**

**TYPE OF CONTROLLER : FANUC 0IM-B**

**SERIAL NUMBER : MBA4022**

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MODEL		SV-33
SPECIFICAT		
Table working surface		39.4"x23.6"(1000mmx600mm)
Longitudinal travel(X)		33.5"(850mm)
Cross travel(Y)		24"(610mm)
Vertical travel(Z)		24"(610mm)
Spindle nose to table		3.94"~28"(100~710mm)
Spindle center to column		25.2"(640mm)
Distance between two spindles		—————
Spindle taper		BT#40/CAT#40
Spindle diameter		2.56"(65mm)
Spindle speed		No.40 60-10000rpm(Opt. 12000/14000rpm)
Spindle motor		15HP Hi-Lo Gear
X-Y-Z Rapid traverse		30-30-20M/min (1181"-1181"-787")
Cutting feed		1-12000mm/min(1~472.5")
Coolant pump motor		2.1HP(P:3.5kg/cm <sup>2</sup> , Q:100L/min)
Tool selection		Bi-direction random type, Shortest path
No. of tools		Arm type 24/32(Opt.)
Adjacent pockets max. tool dia		3"(75mm)
Max. tool diameter		4"(100mm)
Max. tool length		12"(300mm)
Max. tool weight		22 Lbs(10kgs)
Table load capacity		2640 Lbs(1200kgs)
Machine weight		17600 Lbs(8000kgs)
Floor space		94.5"x126"(2400x3200mm)
X-Y-Z Ball screw dia		φ40, φ40, φ40
Cutting capacity S45C	Milling(cc/min)	180
	Drilling(φmm)	φ40
	Tapping(mm)	M30xP3.5

\*Specifications Subject To Change Without Prior Notice.

## **1-2 MACHINE ACCESSORIES**

### **STANDARD ACCESSORIES:**

- 1. Coolant system**
- 2. Spindle air blast**
- 3. Auto lube with alarm**
- 4. Halogen work lamp**
- 5. Tools, tool box and various manuals**
- 6. Twin spindle/ATC (SV-45-2H/VMC-1300-2H)**
- 7. Screw type chip conveyor**
- 8. Full enclosure splash guard**
- 9. Spindle cooler unit(for VMC-HD, SHD series)**

### **OPTIONAL ACCESSORIES:**

- 1. Tool presenter (Renishaw TS-27)**
- 2. CNC Rotary table**
- 3. Automatic pallet changer**
- 4. Twin ATC (for SV-45-2H,VMC-1300-2H)**
- 5. High pressure coolant thru tool tip**
- 6. High pressure coolant thru spindle**
- 7. Chain type chip conveyor**
- 8. 12000rpm(for BT40/CAT40 spindle)**
- 9. 15000rpm/20000rpm(For HSK63A spindle)**

**Note: Optional accessories in the table above vary depending on customer's order!**