

# TV-116B / TV-146B

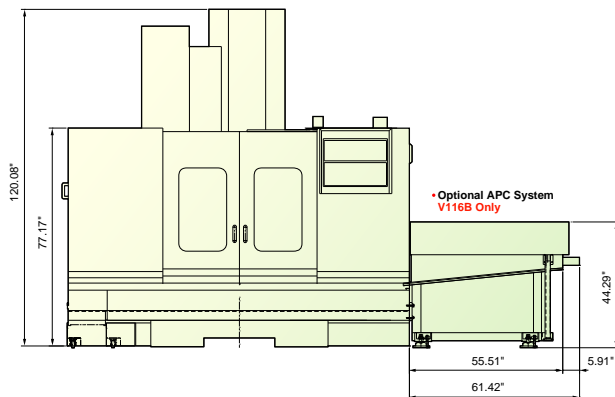
VERTICAL MACHINING CENTER With FANUC 18MC Control



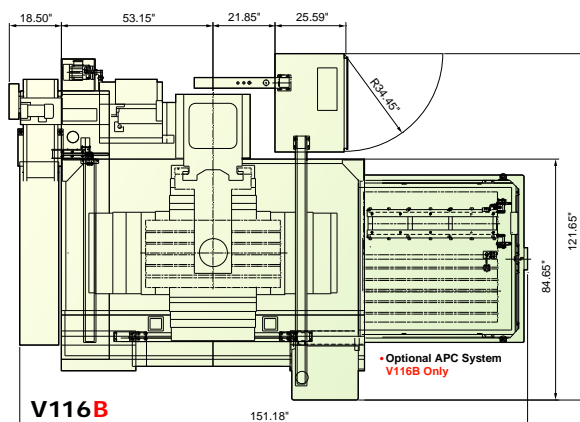
- FEATURES
- Powerful 25 HP Spindle Motor
  - 6000 RPM Maximum Spindle Speed
  - 2 Speed Geared Head Spindle
  - Oilmatic Spindle Cooling System
  - Extra-Wide Hardened & Ground Ways
  - World Patented One Piece T-Base Design
  - High Speed Rigid Tapping
  - Full Chip Guards
  - Rugged Meehanite® Castings
  - Automatic Central Lubrication System
  - Remote Manual Pulse Generator
  - Free Standing Coolant Tank
  - Maximum Table Load: 3300 lb. (V146B)
  - Fast 24 Tool Swing Arm ATC System
  - Random Access / Bi-Directional ATC
  - 347 Ft-lb of Torque at 375 RPM
  - Helical Interpolation
  - AC Digital Servo & Spindle Drives
  - Handy Coolant Gun
  - Full Alphanumeric Keyboard
  - Precision Hardened & Ground Ballscrews
  - RS 232C Interface
  - Heavy Duty Coolant Pump
  - Dual Spiral Type Chip Augers
  - Spindle Air Blast System

**YCI SUPERMAX**  
PRECISION MACHINES

## DIMENSION



UNIT: Inch

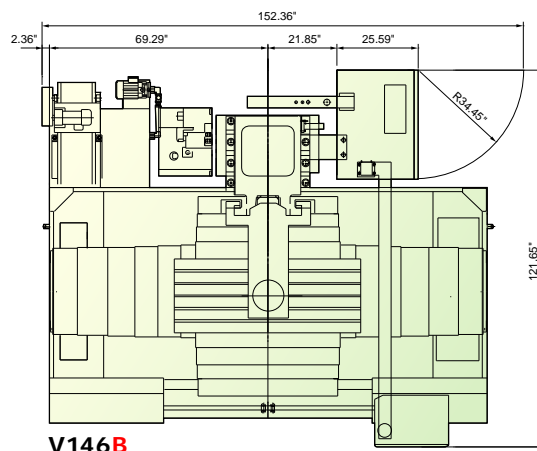


## STANDARD ACCESSORIES

- M.P.G. Hand Wheel
- Two Speed Geared Head
- One Set of Chip Conveyor
- Two Sets of Chip Auger
- 24 Tool Magazine
- Coolant System
- Chip Enclosure
- Oilmatic Spindle Cooling System
- Spindle Air Blast
- Hydraulic Unit
- Central Lubrication System
- Pilot Lamp
- Working Lamp
- Tool Kits
- Leveling Blocks and Bolts
- Mechanical, Electrical & Operating Manual

## OPTIONAL ACCESSORIES

- Automatic Pallet Changer (V116B)
- Optical Scales
- 4th Axis Rotary Table
- Oil Skimmer
- Mist Coolant System
- Cutting Air Blast
- Heat Exchanger for Control Cabinet
- Workpiece Measurement System (RENISHAW MP-10)
- Coolant Through Spindle System (DIN 69871 Form-B)
- Automatic Tool Length Measurement (METROL T-24E-01)
- Transformer



## SPECIFICATIONS

	V146B	V116B
<b>■ SPINDLE</b>		
Motor	FANUC AC Digital Spindle Motor	
Horse Power	25 HP	
Maximum Speed	6000 rpm	
<b>■ TRAVEL</b>		
X Axis	55.1"	43.3"
Y Axis	23.6"	23.6"
Z Axis	24.8"	24.8"
<b>■ TABLE</b>		
Table Size	59.0" x 23.6"	47.2" x 23.6"
Load Capacity	3300 lb.	2640 lb.
Number of T-Slots x Size x Pitch	5 x 0.71" x 3.94"	
<b>■ FEED RATE</b>		
Rapid Feed Rate	X,Y,Z : 590 ipm	X,Y: 787 ipm Z: 590 ipm
Cutting Feed Rate	0.04 - 197 ipm	

	V146B	V116B
<b>■ ATC</b>		
Tool Type	CAT-50 / BT-50 (Optional)	
Maximum Tool Weight	33 lb./each	
Maximum Tool Length	13.78"	
Tool Magazine Capacity	24 (30 Optional)	
<b>■ ACCURACY (Linear)</b>		
Table Positioning	± 0.00016"	
Repeatability	± 0.00008"	
<b>■ GENERAL</b>		
Power Requirement	220V, 3 Phase, 60Hz	
Power Consumption	40 kVA	
Pneumatic Pressure	85 psi (minimum)	
Machine Weight	24,200 lb.	22,000 lb.

**Note:** The manufacturer reserves the right to modify the design, specification, mechanisms,...etc. to improve the performance of the machine without notice. All the specifications shown above are just for reference.



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ISO 9001, 14001 Certified Manufacturer

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