



CNC bed-type vertical milling machine

PVT-Mill

85x24" to 124x28"



- Machine with highly rigid bed made of Meehanite GA 350 cast iron and bed-type fixed-position table. Heat-treated and stabilized crystal structure of the cast iron.
 - Fixed-position table length of 2500 mm (97") or 3500 mm (137") and heavy-duty supporting structure. The max. load capacity of the table is 1800 kg (4,000 lbs) or 2500 kg (5,500 lbs). Machine's working envelope length is 2200 mm (86").
- Movable column with high-precision linear guideways in 3 axes ensures rapid traverse speeds up to 32 m/min (1250"/min).
- It can also be equipped with optical linear scales for better positioning accuracy and contouring, up to 0.005 mm (0.0002").
- The machine is equipped with an

Standard configuration

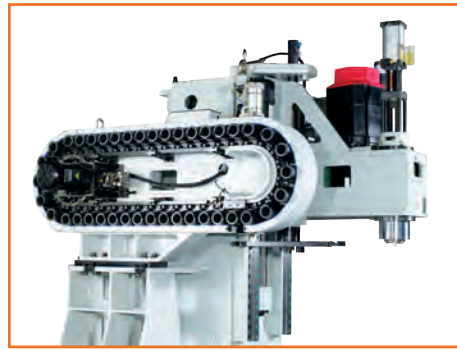
- FANUC CNC Oi MD + operating instructions
- 32-position turret
- Three-color warning light
- Thread cutting
- Work light
- Spindle oil cooling
- Electrical handwheel
- (MPG)
- Full guarding
- Coolant system
- Tool kit
- Spindle air gun
- Automatic power supply control
- Coolant gun
- Chip conveyor
- Leveling pads and bolts
- Spindle blow out function
- Air cooler for electric cabinet
- Automatic lubrication
- Oil separator
- Operation manual

automatic tool changer installed on the column side. The tool magazine is located in the X-axis, thus lying outside of the table working envelope. Such an arrangement prevents the tool system from colliding with large workpieces.

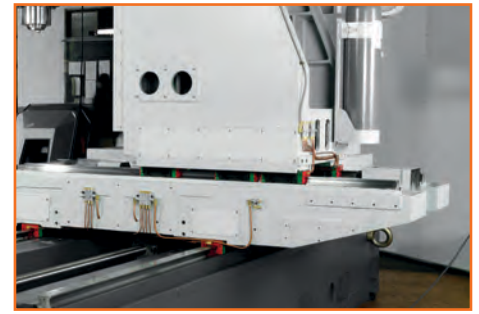
Specifications			PVT-Mill	
			2500 CNC 97" table width	3500 CNC 136" table width
Travels	X	mm	2200 (85")	3200 (124")
	Y	mm	620 (24")	720 (28")
	Z	mm	620 (24")	
Spindle-column distance	mm	690 (27")	790 (30")	
Spindle-table distance	mm	120-740 (4.5-29")		
Table dimensions (W/L)	mm	2500x600 (97x23")	3500x700 (136x28")	
T-slots	mm	18x5x125 (5pc/0.7x4.8")		
Floor-table height	mm	830 (32")		
Max. table load	kg	1800 (4,000 lbs)	2500 (5,500 lbs)	
Spindle taper		BT/CAT/DIN 40 [opt. BT/CAT/DIN 50]		
Speeds	rpm	BT 40: 75-10000 [opt. BT 50: 75-6000]		
Main spindle motor	kW	BT 40: 11/15 (15/20 Hp) [opt. BT 50: 15/18.5 (20/25 Hp)]		
TOOL MAGAZINE				
Number of tools	#	32 [opt. 40]		
Max. tool diameter	mm	BT 40: Ø76 (3") [opt. BT 50: Ø125 (4.9")]		
Max. tool length	mm	BT 40: 300 (11.7") [opt. BT 50: 350 (13.65")]		
Max. tool weight	kg	BT 40: 7 (15 lbs) [opt. BT 50: 15 (33 lbs)]		
Rapid traverse	m/min	36 (1,400"/min)		
Cutting feed rate	m/min	1-15 (39-585"/min)		
Positioning accuracy	mm	±0.003 (0.00012")		
Repeatability	mm	±0.002 (0.0001")		
Dimensions (L/W/H)	mm	4068x5810x3000 (160x229x118")	4168x6810x3000 (164x268x118")	
Weight	kg	14200 (31,240 lbs)	17500 (38,500 lbs)	
Item No.		6530013	6530014	



Linear guideways in 3 axes

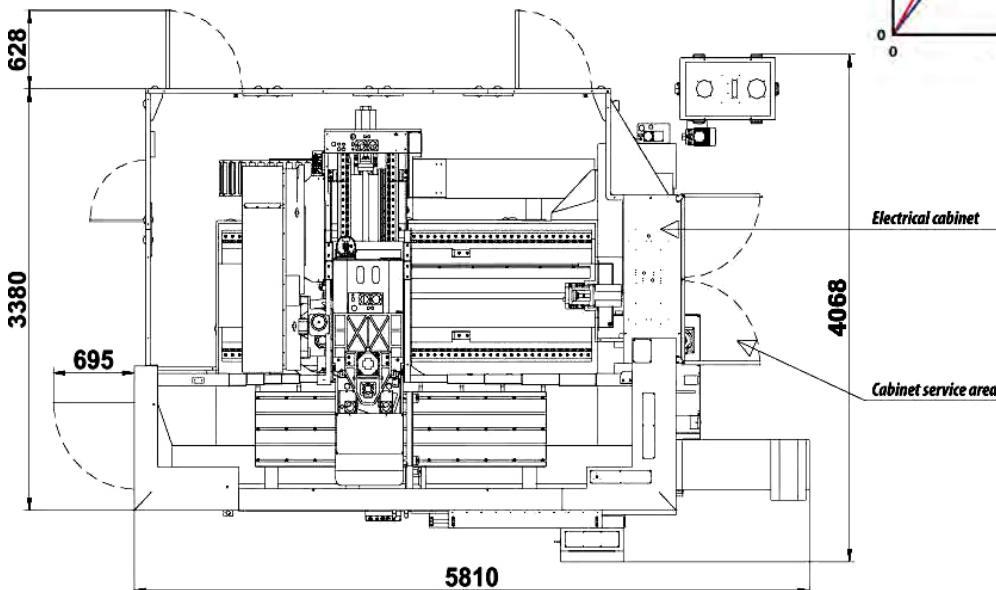
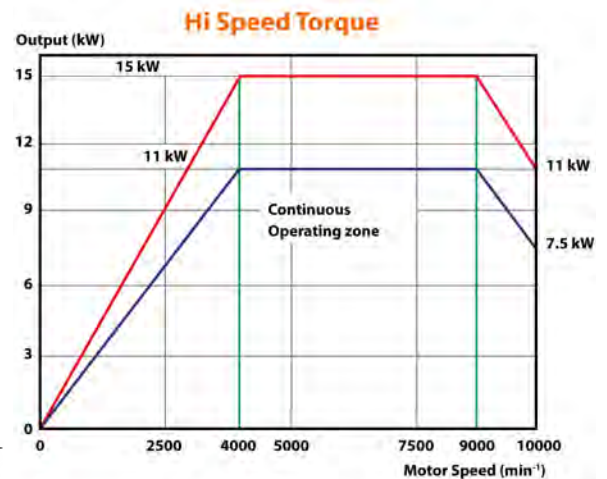


40-position tool magazine [option]



Hydraulic counterweight supported by accumulator

- The machine can be fitted with through-spindle coolant (20 bar (290 psi)) for machining deep holes, improved surface machining and better accuracy.
- The standard machine configuration includes a 32-position tool magazine. Additionally, it can be equipped with a 40-position tool magazine (optional).
- High-precision spindle with 8000 rpm.
- It is also possible to equip the machine with a spindle running on P4 Class high-precision ceramic bearings with 10,000 or 12,000 rpm. This makes the machine ideally suited for 3D machining of molding and press tools.
- The coolant filtration system with filter mesh size of 0.02 mm (0.0008") serves to prevent the high-pressure pump from dirt ingress and clogging.
- Around-spindle coolant supply system: 6 adjustable supply nozzles around the main spindle.
- The machine is equipped with a coolant gun and an air pistol for rinsing and air-purging of the working area.
- Automatic lubrication system with level warning and failure alarm.



Optional configuration

- HEIDENHAIN, Siemens or Mitsubishi CNC control
- 40-position turret
- Glass linear scales for X/Y/ Z-axis from HEIDENHAIN
- Glass linear scales for X/Y/Z-axis from Fagor
- Faster spindle motor, 10,000 rpm
- Faster spindle motor, 12,000 rpm
- Coolant through spindle

*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.