



CNC moving gantry machining center

PSD-Mill CNC

6x20' to 17x118'



Specifications	PSD – Mill CNC							
	20.6–36 6' x 20'–118'	22.6–36 7' x 20'–118'	26.6–36 10' x 20'–118'	30.6–36 11' x 20'–118'	36.6–36 13' x 20'–118'	42.6–36 15' x 20'–118'	46.6–36 17' x 20'–118'	
Controller	Fanuc 18i-MB							
Distance between columns	mm	2450 (95")	2850 (111")	3250 (126")	3650 (142")	4250 (165")	4850 (189")	5450 (212")
Max. table load	kg/m ²	2500 (550 lbs/ft ²)						
Table dimensions (W/L)	m	2x6–2x36 (78"x20'–118')	2.2x6–2.2x36 (85"x20'–118')	2.6x6–2.6x36 (101"x20'–118')	3x6–3x36 (117"x20'–118')	3.6x6–3.6x36 (140"x20'–118')	4.2x6–4.2x36 (163"x20'–118')	4.6x6–4.6x36 (179"x20'–118')
T-slots	mm	28x500 (1.1x19.7")						
TRAVELS								
X-axis	m	6–36 in 1m increments (20–118' in 40" increments)						
Y-axis	mm	2400 (93")	2800 (109")	3200 (124")	3600 (140")	4200 (163")	4800 (187")	5400 (210")
Z-axis	mm	1100 [opt. 1400, 1600] (43" [opt. 54", 63"])						
W-axis (optional)	mm	1000 [opt. 1500–2500] (39" [opt. 59"–98"])						
Spindle-table distance	mm	820–1920 [opt. 2220] (32–75" [opt. 86"])						
Spindle-rack distance	mm	427 (16.5")			473 (18.5")			
Spindle taper		BT 50						
Speed	rpm	6000						
Spindle motor power	kW	26 [opt. 37] (35 Hp [opt. 50 Hp])						

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

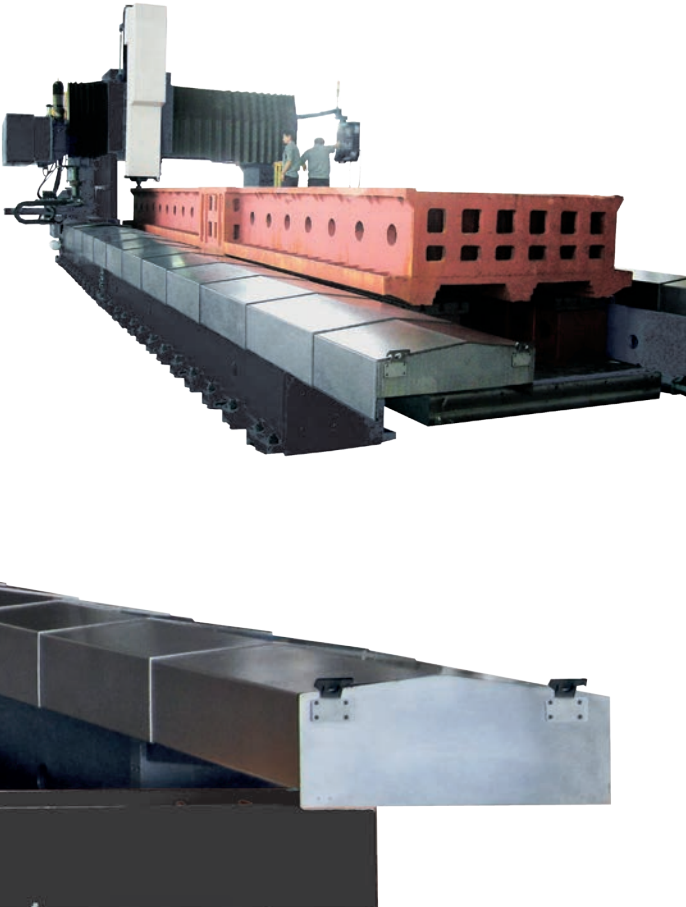
- Fixed table with extremely robust and solid base frame provides great rigidity, stability and vibration-free work even with heavy duty cutting
- Rigid frame construction consisting of a massive machine bed, two movable uprights and a strong crossbeam, ensures excellent positioning stability and extremely high cutting efficiency

Standard configuration

- ✓ CNC FANUC 18i MB
- ✓ Tool magazine, 32-way, max. Ø200 mm (7.5"), max. L 400 mm (15")
- ✓ Motor spindle (Belt type) with ZF2K gear (ratio 1:4) 6000 r/min
- ✓ Spindle and gearbox oil cooling
- ✓ Heat exchanger for electric cabinet
- ✓ 2 chip conveyors
- ✓ Foot pedal for tool change
- ✓ Coolant around the spindle
- ✓ Automatic lubrication
- ✓ Coolant system
- ✓ Thread cutting
- ✓ Rigid tapping
- ✓ ATC Auto Door
- ✓ Electrical handwheel (MPG)
- ✓ Work light
- ✓ Three-color warning light
- ✓ Spindle blow out function
- ✓ Air gun
- ✓ Coolant gun
- ✓ Tool kit
- ✓ Glass linear scales for X-axis
- ✓ Y, Z axis ballscrew (2 sets)
- ✓ X, Y, Z axis linear guides
- ✓ X-axis gear-rack pinion system
- ✓ Leveling pads and bolts
- ✓ Operation manual

Optional configuration

- 32, 40, 60, 80 or 120-tool magazine
- Angle head milling attachment BT 50/90° with max. speed 3500 rpm, angular increment 5°, or angular increment 1° to 5°
- Additional vertical milling head BT 50/Ø300mm or BT 50/Ø500mm, max. speed 3500 rpm
- Automatic head change system for additional milling heads, AHC 1-pos. or 2-pos.
- Automatic head change system for additional milling heads, 5-pos. (incl. V/H tool changer for 40-pos., 60-pos., 80-pos. or 120-pos. tool magazine + hydraulic module + extended Y-axis traverse – 500 mm (19.5") + 18i-MB controller) (GIFU Brand)
- Tool measurement TS27R (Renishaw) or NC4F (Renishaw)
- Work piece measurement RMP60 (Renishaw)
- Through-spindle coolant supply, pressure 20 BAR (2,900 psi)
- Cabinet air conditioner
- Coolant cooler
- Faster spindle motor: 37 kW (50 Hp) (30 min.) + ZF2K-300 gearbox
- Spindle (Direct Driven) 10,000 rpm
- Spindle (Belt type) 10,000 rpm
- Extended Z-axis travel up to 1100 mm (43") or up to 1400 mm (54")



Cutting

Turning

Milling
CNC • Manual

Drilling/Boring

Grinding

Sawing

Fabricating

Specifications		PSD – Mill CNC						
		20.6–36 6' x 20'-118"	22.6–36 7' x 20'-118"	26.6–36 10' x 20'-118"	30.6–36 11' x 20'-118"	36.6–36 13' x 20'-118"	42.6–36 15' x 20'-118"	46.6–36 17' x 20'-118"
Work feed	mm/min	5–8000 (0.2–312"/min)						
Rapid traverse – X/Y/Z axes	m/min	10/12/12 (390/468/468"/min)						
Positioning accuracy	mm	±0.005/300 (0.0002"/12")						
Repeatability	mm	±0.003/300 (0.00015"/12")						
TURRET								
Number of tools	pc	32						
Max. tool diameter (empty pockets)	mm	Ø220 (8.5")						
Max. tool diameter (full pockets)	mm	Ø125 (4.85")						
Max. tool length	mm	400 (15.5")						
Max. tool weight	kg	20 [opt. 35] (43 lbs [opt. 75 lbs])						
Overall length	mm	11060–41060 in 1m increments (36–135' in 39" increments)						
Dimensions	mm	5100x5120 (201x202")	5500x5120 (217x202")	5900x5120 (232x202")	6300x5120 (248x202")	6900x5120 (272x202")	7500x5120 (295x202")	8100x5120 (319x202")
Item No.		6630100	6630101	6630102	6630103	6630104	6630105	6630106

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