

PERFORMANCE DRILL TAP CENTRE – PDT 7

The **Performance Drill Tap model PDT 7** is a high-speed drill tap center designed for rapid, precise operations ideal for high-volume production environments. It combines advanced drilling, tapping, and milling functionalities with high-speed spindle capabilities, enhancing productivity and efficiency.



Silent Features:

- High-Speed & Precision
- Exceptional Rigidity and Stability
- High Speed Tool Change System
- High Accuracy and Repeatability
- Cost-Effective Maintenance
- Energy Efficiency

The **Performance Drill Tap Center** utilizes Finite Element Analysis (FEA) to optimize machine performance, focusing on enhanced structural integrity and machining precision.

Precision Engineering Technologies India Pvt Ltd

Sub Plot No 3, Final Plot No 109, Ramtekdi Industrial Estate, Hadapsar, Pune, Maharashtra 411028

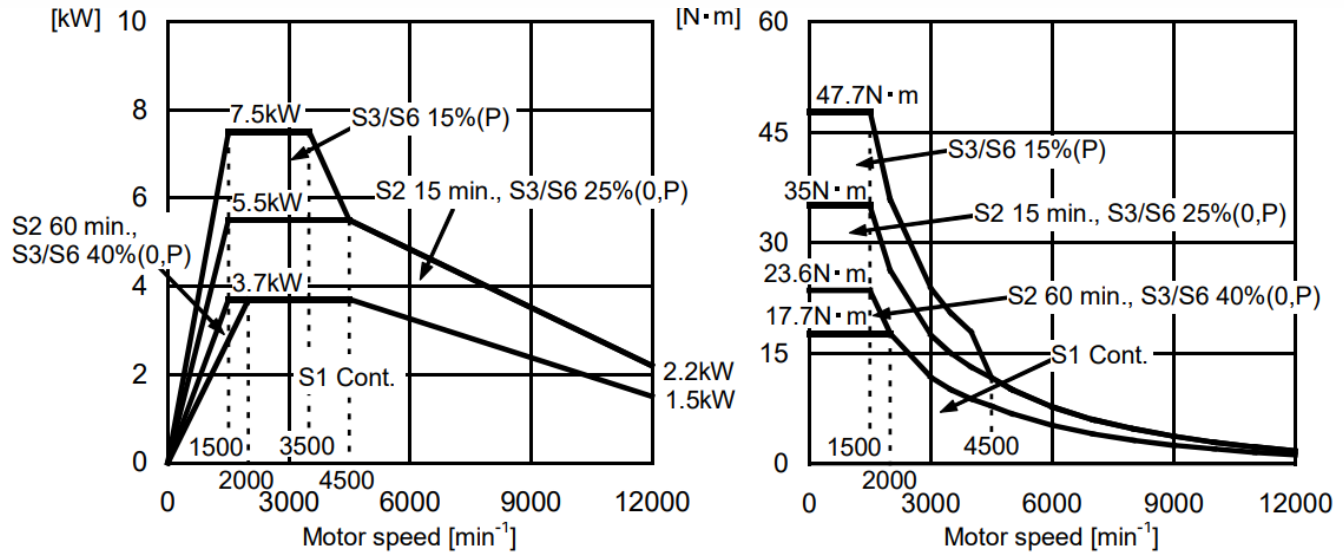
**Specifications:**

Description			PDT-7
Table	Table Size	mm	800 x 420
	Max. Load Capacity	kg	250 uniform loads
	T-Slots	mm	3 x 14 – 125
	Dist. Table Surface to Spindle	mm	150 – 480
Spindle	Spindle Taper	type	BBT30
	Spindle Speed	rpm	12000
	Spindle Driving Method	type	Direct
	Spindle Power	kw	7.5 / 5.5
	Max. Spindle Torque	nm	47.7 / 35
Feed	Travel (X/Y/Z)	mm	700 / 400 / 330
	Rapid Rate (X/Y/Z)	m/min	48 / 48 / 48
	Feed Rate (X/Y/Z)	m/min	20
	Guideways	type	Ball
Turret	Number of Tools	nos.	21
	Max. Tool Dia. (W.T / W.O)	mm	Ø80 / Ø120
	Max. Tool Length	mm	250
	Max. Tool Weight	kg	3
	Tool Change Time	T-T	1.5
		C-C	2.5
Power Supply	Air Consumption	bar	6-8
	Electric Power Supply	kva	20
	Voltage	v/hz	380v±10% 50hz
Controller	10.4inch Screen	make	Mitsubishi / Fanuc
Machine	Machine Dimensions	mm	1880 X 2363 X 2221
	Machine Weight	kg	3000

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Power & Torque Diagram:



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Technical Details:

- Spindle Speed 12,000 RPM, Direct Drive
- Spindle Oil Chiller
- Travel: 700mm(X), 400mm(Y), 330mm(Z)
- Table: 800mm X 420mm
- Rapid federate - X/Y/Z axis: 48m/min
- Automatic Tool Changer (Turret): 21 tools
- Spindle nose taper: BBT 30
- Main Spindle Power Output: 7.5 / 5.5 kw
- Max. Spindle Torque: 47.7Nm @ 1500 rpm
- 10.4" LCD Mitsubishi Controller
- Manual Pulse Generator
- Rigid Tapping
- CF / USB interface
- Auto Power OFF
- Door Interlock
- LED Machine Light
- Auto Lubrication System
- Spindle Air Blast
- Air Gun
- Coolant Gun
- Coolant Tank with Chip Tray & Pumps
- Spindle Coolant Nozzles, Ring Spray
- Pre-Tensioned Ballscrews
- Pneumatic system
- Fully Enclosed Splash Guard
- Transformer
- Panel AC
- Leveling Bolts & Blocks
- Tools and Tools Box
- Manuals
- Standard Machine Color

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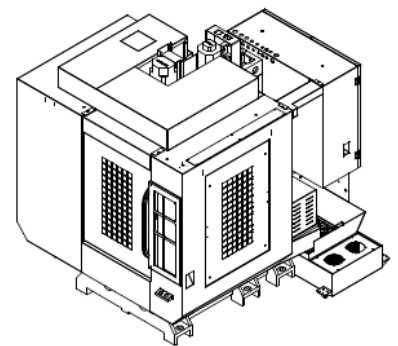
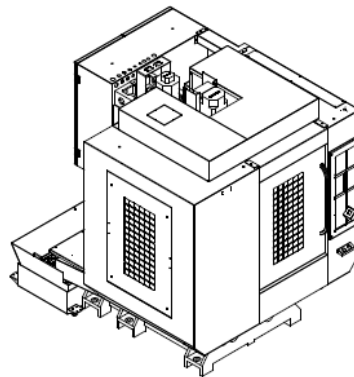
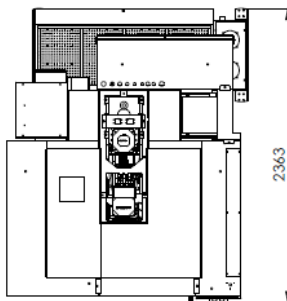
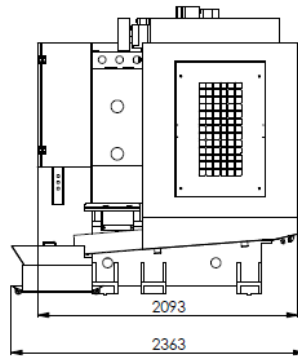
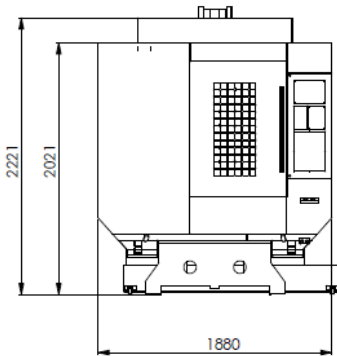


Standard Accessories	Optional Accessories
• Direct Drive Spindle 12,000 rpm • Spindle Oil Chiller • ATC (Turret): 21 tools • Spindle BBT 30 • 10.4" LCD Mitsubishi Controller • Manual Pulse Generator • Rigid Tapping • CF / USB interface • Auto Power OFF • Door Interlock • LED Machine Light • Auto Lubrication System • Spindle Air Blast • Air Gun • Coolant Gun • Coolant Tank with Chip Tray & Pumps • Spindle Coolant Nozzles, Ring Spray • Pneumatic system • Fully Enclosed Splash Guard • Transformer • Panel AC • Pre-Tensioned Ballscrews • Leveling Bolts & Blocks • Tools and Tools Box • Manuals • Standard Machine Color	• Spindle Speed 24,000 rpm • Thru Coolant 30 / 70 Bar • Chip Conveyor • Auto Door • Automation Preparation • Spindle Probe • Tool Length Measurement • Hydro Ports • Raiser Block 150mm

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Machine Layout:



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