

DAMA

TUBE PLATE CNC HIGH SPEED DRILLING CENTER



Features

1. The HDC-2020 is a high efficiency high production drilling machine with a high speed coolant through spindle system.
2. The HDC-2020 is suitable for tube plate drilling, boring, grooving, milling, and tapping.
3. CNC System: Dama-Syntec special purpose CNC system, featuring a Windows CE platform with an easy-to-operate interface for plate drilling jobs.
4. X, Dual X-axis AC servo motor, double ball-screw, four linear guides.
Y-axis AC servo motor, ball-screw, linear guide.
Z-axis AC servo motor, ball-screw, linear guide.
5. Rigid BT 40 spindle with up to 2000rpm, and drilling diameters between 6~50mm and thicknesses up to 100mm.
6. Uses a spindle air cooling system and positive air pressure system to protect the spindle.
7. Provides a circle through 3 point macro, for easy programming for round parts.
8. Provides M8~M24 rigid tapping and milling thread function for up to M24 thread.
9. Provides tool life management functions to ensure drilling quality.
10. Provides easy transfer of DXF to G and M codes for easy CNC parts programming.

SPECIFICATIONS

Model		HDC-2020
Max. Size of Workpiece	Width x Length	2000 x 2000 mm
	Max. Thickness	100 mm
CNC Controller (Syntec 10B)		10.4" LCD color display Parts program loading: ▶ USB port, RS-232, RS422 Serial Port, 10/100 MB Ethernet RJ45
High Speed High Precision Spindle		BT 40 spindle Rotary coupling, standard for cooling-through tools. Uses a spindle air cooling system and positive air pressure system to protect the spindle.
Drilling Capability (Drill Diameter)		ø6 ~ ø50 mm
Tapping Capability		M8 - M24
Spindle Servo Motor 20 HP	Rated Torque	284 Nm
	Rpm	200 ~ 2000
	Ratio	1/2
Longitudinal Movement of Gantry (X & XX Axis)	Rapid Speed	12 m/min
	Guide Way	Linear Guide Way
	Transmission	Ball Screw (ø48 mm) (Double Side)
	Servo Motor Power	1kW x 2 pcs
Transverse Movement of Spindle (Y Axis)	Rapid Speed	12 m/min
	Guide Way	Linear Guide Way
	Transmission	Ball Screw (ø38 mm)
	Servo Motor Power	1 kW
Vertical Feeding Movement (Z Axis)	Rapid Speed	6 m/min
	Guide Way	Linear Guide Way
	Transmission	Ball Screw (ø40 mm)
	Servo Motor Power	2 kW
	Ratio	1/2
Max. Stroke		450 mm
Positioning Accuracy		±0.1 mm
Repeatable Accuracy		±0.02 mm
Verticality Accuracy		≤0.05 / 300 mm
Tool Length		170 ~ 300 mm
Work Table	T-Slot Distance	500 mm
Manual Clamps		4 T-Slots
Coolant System		High Pressure Coolant
Quantity of Chip Conveyors		1
File Transfer Software (for DXF to G, M Code)		Standard
Power Supply		3ø, 220V, 30HP
Air Pressure		4 kg/cm ²
Machine Dimensions (L x W x H)		5500 x 3500 x 3120 mm

This information is subject to change without prior notice.

