



## Features

1. Friendly HMI with interactive command and 15" LCD touch screen, easy learn and easy operation.
2. With linear, matrix and flange drill pattern. It would not need the G, M code program.
3. With simulation function, it also can indicate which hole will be drilled by moving cursor.
4. Can read DXF file and display the hole pattern as well as outward of plate on screen.
5. DMD-1020 drill machine is a strong gantry structure, that needful space can save 1/2.
6. The gantry machine, CNC controller, hydraulic power system that is integrated design, to allow easy installing.
7. With keep tight equipment to ensure machine stable while machine is drilling.
8. The alignment and hydraulic fixture of plate which are two in one designed, the plate load, unload, clamp quickly and convenience.
9. The machine with four work area on the table, while one side of table is working another side of table allow user to load or unload plate. Thus, the machine there is no idle time and twice the amount of drilling.
10. With avoid spraying designed to save cooling water and keep the operation environment clean.
11. Easy parameters setting for tool length, plate thickness, safe height and through hole distance.
12. The spindle rpm is provided with an inverter controlled and by knob adjusted and rpm is displayed on screen.
13. Program hold can be active in any time while the tool dull, after replace tool, easy return, and restart.
14. Power draw bar for tool change, only "PUSH" button easy to release tool.
15. With center drilling function, easy check the hole pitch of plate.
16. With chip conveys, for chip collect and clean.
17. Parts program loading by USB or network.

## Specifications:

MODEL		DMD-1020	
CNC Controller		Taiwan Syntec 21MA series, HC 15E-S, can read DXF file	
Operation screen		15" touch screen	
CNC and Servo system communication		Mechatrolink-II internet interface response fast.	
Spindle	Quantity	Single Spindle	
	Spindle Motor	7.5 HP + Gear ratio + Time belt	
	Tool holder	BT-50 (Drill tool release / hold quickly by air power draw bar)	
	Rpm	160 - 330 rpm (Option : 100 - 600 rpm)	
	Tool Length	225 - 350 mm	
Machining	Hole diameter	16 - 50 mm diameter	
	Work area	Plate size L x W mm	
	One area	<input type="text"/>	1000*2000 mm
	Two area	<input type="text"/> <input type="text"/>	950*1000 mm
	Four area	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	950*450 mm
	Drill tool setting	Plate thickness \ tool length \ safe height and through hole distance by parameter setting	
	Max Thickness	100 mm	
	Coolant	Flush cooling and the coolant water recycle.	
	Chip collect	Chip conveyor	
Positioning	X axis	Stroke	2000 mm
		Motion	Yaskawa servo motor / Rack / Linear guide
		Speed	12000 mm/min
	Y axis	Stroke	1000 mm
		Motion	Yaskawa servo motor / Ball screw / Linear guide
		Speed	12000 mm/min
	Up/Down	Stroke	320 mm
		Motion	Hydraulic cylinder / Linear guide / Encoder height control
		Hydraulic Feed for drilling	Precision hydraulic flow / pressure control for up / down
Hydraulic pump		2.2KW(3HP) / 30L with cooling fin	
Positioning	Hydraulic clamp/fixtures	8 sets	
	Manual clamp	4 sets	
	Non-right-angle parts fixture	2 sets	
Power supply request		3ø,220V,10HP	
Compressor air pressure request		4kg / cm <sup>2</sup>	
Machine weight		4.5 T	
Machine overall dimension (L*W*H)		4600*2805*2427(mm)	



## Features

1. Freindly HMI with interactive command and 15" LCD touch screen, easy learn and easy operation.
2. With linear, matrix and flange drill pattern. It would not need the G, M code program.
3. With simulation function, it also can indicate which hole will be drilled by moving cursor.
4. Can read DXF file and display the hole pattern as well as outward of plate on screen.
5. DMD two spindles drill machine is a strong gantry structure, that needful space can save 1/2.
6. The gantry machine, CNC controller, hydraulic power system that is integrated design, to allow easy installing.
7. With keep tight equipment to ensure machine stable while machine is drilling.
8. The alignment and hydraulic fixture of plate which are two in one designed, the plate load, unload, clamp quickly and convenience.
9. The machine with four work area on the table, while one side of table is working another side of table allow user to load or unload plate. Thus, the machine there is no idle time and twice the amount of drilling.
10. With avoid spraying designed to save cooling water and keep the operation environment clean.
11. Easy parameters setting for tool length, plate thickness, safe height and through hole distance.
12. The spindle rpm is provided with an inverter controlled and by knob adjusted and rpm is displayed on screen.
13. Program hold can be active in any time while the tool dull, after replace tool, easy return, and restart.
14. Power draw bar for tool change, only "PUSH" button easy to release tool.
15. With center drilling function, easy check the hope pitch of plate.
16. With chip conveys, for chip collect and clean.
17. Parts program loading by USB or network.

## Specifications:

MODEL		DMD-1624	DMD-1635	DMD-1640	
CNC Controller		Taiwan Syntec 21MA series, HC 15E-S, can read DXF file			
Operation screen		15" touch screen			
CNC and Servo system communication		Mechatrolink-II internet interface response fast.			
Spindle	Quantity	Two Spindle (distance can adjust (MIN 400 mm,MAX 800 mm))			
	Spindle Motor	7.5 HP + Gear ratio + Time belt			
	Tool holder	BT-50 (Drill tool release / hold quickly by air power draw bar)			
	Rpm	160 - 330 rpm (Option : 100 - 600 rpm)			
	Tool Length	225 - 350 mm			
Machining	Hole diameter	16 - 50 mm diameter			
	Work area	L x W mm			
	One area	1600*2400 mm	1600*3500 mm	1600*4000 mm	
	Two area	1600*1150 mm	1600*1650 mm	1600*1950 mm	
	Four area	750*1150 mm	750*1650 mm	750*1950 mm	
	Drill tool setting	Plate thickness 、 tool length 、 safe height and through hole distance by man machine interface			
	Max Thickness	100 mm			
	Coolant	Flush cooling and the coolant water recycle.			
	Chip collect	Chip conveyor			
Positioning	X, X-axis	Stroke	2400 mm	3500 mm	4000 mm
		Motion	Yaskawa servo motor / Rack / Linera guide (Double drive)		
		Speed	12000 mm/min		
	Y axis	Stroke	1600 mm		
		Motion	Yaskawa servo motor / Ball screw / Linera guide		
		Speed	12000 mm/min		
	Up/Down	Stroke	320 mm		
		Motion	Hydraulic cylinder / Linear guide / Encoder height control		
		Hydraulic Feed for drilling	Precision hydraulic flow / pressure control for up / down		
Hydraulic pump		2.2KW(3HP) / 30L with cooling fin			
Work piece Clamp	Hydraulic clamp/fixtures	8 sets	12 sets	16 sets	
	Manual clamp	4 sets	4 sets	4 sets	
	Non-right-angle parts fixture	2 sets	2 sets	2 sets	
Power supply request		3ø,220V,20Hp			
Compressor air pressure request		4kg / cm <sup>2</sup>			
Machine weight		5.5 T	7.5 T	8 T	
Machine overall dimension (L*W*H)		4723x3407x2442(mm)	6223x3407x2442(mm)	6723x3407x2442(mm)	



## **HYPER X Series ( Gantry Type )**

### **X-Definition CNC Plasma Cutting Machine**



#### **Features**

1. Gantry design for heavy duty: Ensuring, both precision and reliability
2. Two full sized saddles, running on longitudinal guide rails: Giving high precision and durability.
3. Equipped with high performance Digital AC servo drive system: Positioning and contouring speeds up to 18 M/min.
4. Linear guide for transverse precision and durable.
5. 300mm width transverse guide, stability and precision even with heavy torch suspension units.
6. Transverse energy feed chains: Giving efficient transportation of hoses and cables.
7. Hypertherm CNC controller Edge Connect, Sensor THC plasma height sensor and XPR X-definition auto-gas adjustment plasma as standard.
8. Phoenix software built-in basic graphs which can automatically generate cut charts for setting process parameters. Also can automatically setting the process parameters of mild steel 、 stainless steel and aluminum to ensure the best cutting performance.
9. User-friendly CutPro™ Wizard embedded.
10. 19" touch screen and Windows 10 operation system.
11. In the part program, using the work piece program Part Program Support (PPS) function to control Plasma, THC and cutting table parameters to achieve repeatable excellent cutting quality.
12. Through Remote Help, networking and auto-gas device securely remote connect with CNC controller to check and modify settings. Moreover, plasma system can be remote for diagnostics.
13. DXF and DWG file can be input directly for cutting work without any software transferring.
14. True hole cutting technique ; for the mild steel cutting, the hole diameter can be processed 1 ~ 2 times thickness of the plate (below 26mm) without post-processing.
15. Remote monitoring system can monitor cutting status
16. Auto-gas adjustment techniques can increase machine productively.

## SPECIFICATIONS

Model	Hyper X 2500	Hyper X 3100	Hyper X 4000	Hyper X 5000	Hyper X 6000
Effective cutting width (A)	2500 mm	3100 mm	4000 mm	5000 mm	6000 mm
Rail span (B)	3500 mm	4100 mm	5000 mm	6000 mm	7000 mm
Effective cutting length	6500 mm + (X)				
Rails length	9000 mm + (X)				
Cutting speed	1 ~ 6000 mm/min				
Rapid speed	18000 mm/min				
Power supply	3 phases, 220V, 50~60Hz, 5KVA or on request				

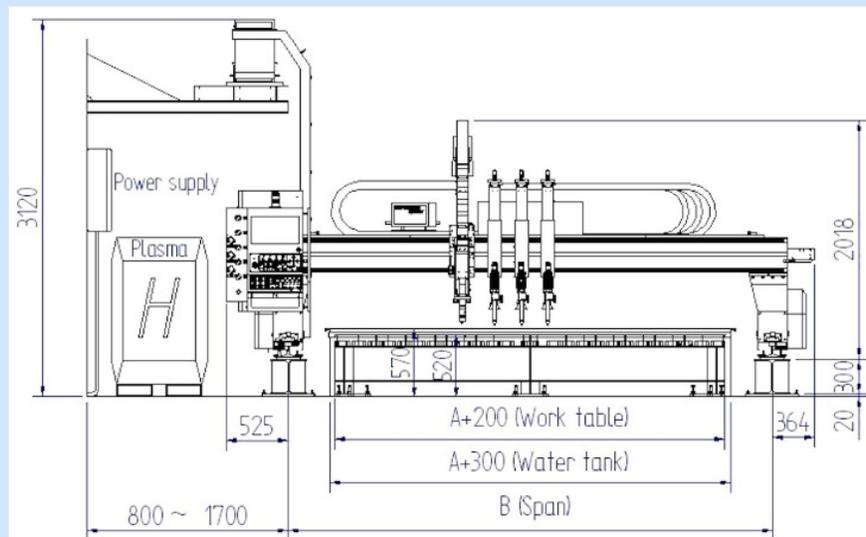
### CNC controller : Edge Connect

- Phoenix software built-in cut charts for automatically setting process parameters
- Built-in CutPro™ Wizard easy use.
- 19" touch screen and Windows 10 operation system.
- RAM ≥ 4GB 、 SATA hard drive 、 two USB ports 、 EtherCAT communication support 、 LAN 、 USB 、 WIFI
- Software utilities: Part Program Support (PPS), Remote Help, networking, autogas support, DXF import, and simple shape nesting

### Plasma height sensor : Hypertherm Sensor THC

Plasma : Hypertherm XPR 300

- |               |                          |  |
|---------------|--------------------------|--|
| <b>Option</b> | 1. Oxy-Fuel cutting kit: |  |
|               | ●                        | One Oxy-Fuel torch with motorized torch lifter and station |
|               | ●                        | Regulator & pressure gauge and manifold                    |
|               | ●                        | Oxy-Fuel cutting logic sequence control & operation panel  |
|               | 2.                       | Add Motorized Oxy-Fuel torch                               |
|               | 3.                       | Oxy-Fuel cutting torch height sensor (capacitive)          |
|               | 4.                       | Zinc Powder marking torch                                  |
|               | 5.                       | Water spray  |
| 6.            | Electrical ignition unit | 7. Rail's extension unit : Per 3000mm/unit (X)             |
| 8.            | Software(ProNes t2017)   |  |



This information is subject to change without prior notice.