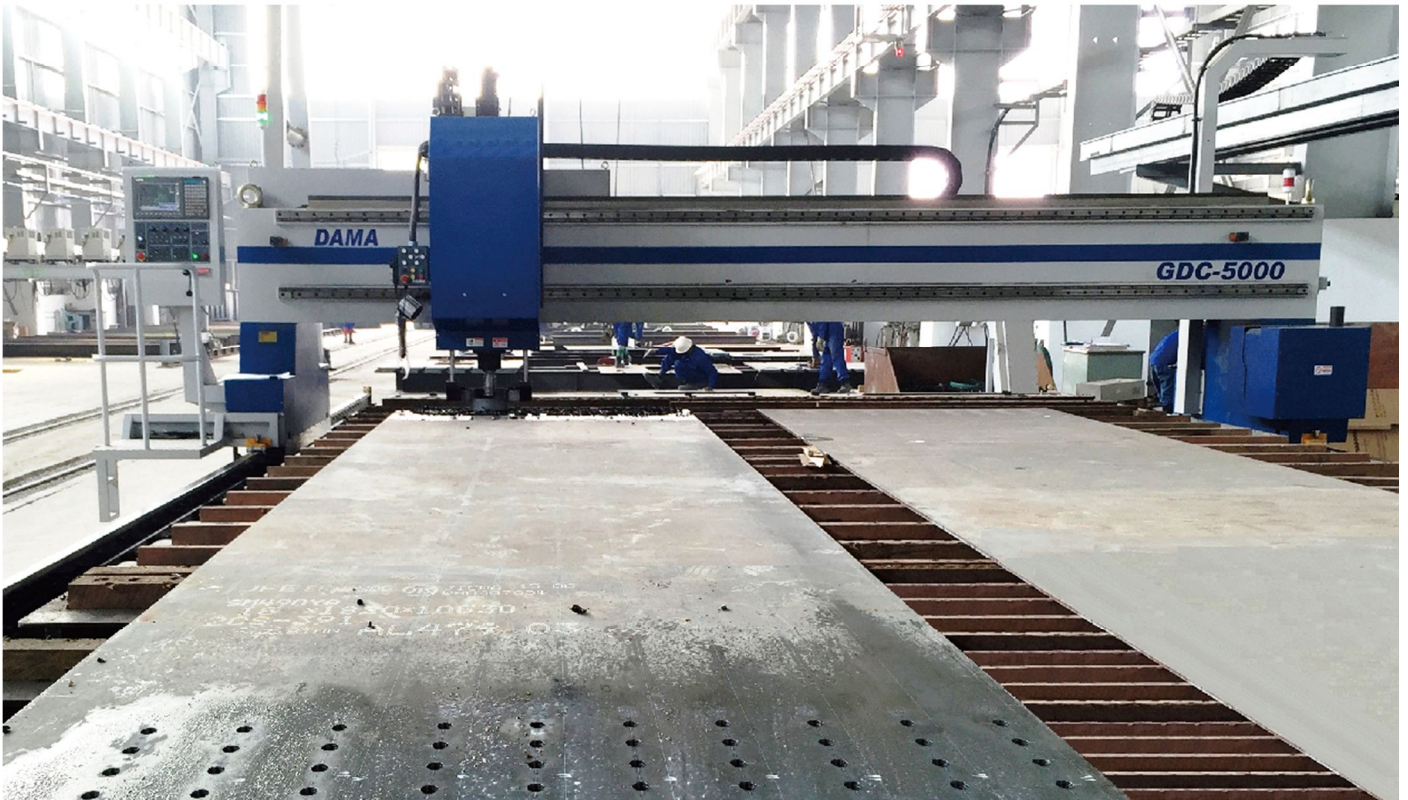


DAMA

GDC Series HIGH SPEED CNC DRILLING MACHINE



Features

1. GDC gantry type high speed drilling machine is suitable for big size steel plate drilling. Large dimension bridge plate, tube plate and steel structure joint plate drilling application all could be done on it.
2. GDC is equipped with high speed coolant-thru spindle which could reach 2000 RPM and provide oil-through, mist cooling, external mist cooling to apply to different drilling jobs.
3. Integrated design of gantry and saddles combined precision harden ground rail and AC servo drive system brings out high performance rigid GDC drilling machine which is able to reach rapid speed up to 24000 mm/min.
4. Air cooling system and air positive pressure system offer protection for Rigid BT40 taper spindle.
5. CNC system: Dama-Syntec Special purpose CNC system, Windows CE base for plate drilling with easy operation interface.
6. Alignment function eases the drilling procedure without paralleling plate with guide rails.
7. Hold-down mechanism provides height detection and keeps work part stable before drilling.
8. Standard 12T umbrella-type ATC with tool life management, users could set up the max Z axis feeding distance. Once setting value completes, the machine would change the tools automatically.
9. Longitudinal axes (2 sides) and transverse axis with auto clamping device to hold and clamp the machine body tightly during drilling and enhance the machine satiability.
10. Provide transfer software to read DXF data and convert it to G, M, F, S codes for easy CNC part programming.

SPECIFICATIONS

Model	GDC-2500	GDC-4000	GDC-5000
Machine span	4000 mm	5400 mm	6400 mm
Effective work width	2500 mm	4000 mm	5000 mm
Rails length	Basic 6000mm		
Effective work length	3000mm		
Rails	Precision ground harden (50kg/M)		
Z axis stroke (drilling)	380mm		
CNC controller	SYNTEC SUPER 8		
Longitudinal drive (x, x'')	Dual AC servo Motor/Rack/Rails		
Transverse drive (y)	AC servo Motor/Rack/Liner guide		
X,Y rapid speed	24000mm/min		
Z axis rapid speed	6000mm/min		
Spindle servo motor	20 HP		
Spindle gear ratio	1:2		
Spindle rpm	200~2000 rpm		
Positioning accuracy	±0.05/500mm		
Reproducibility accuracy	±0.03mm		
X,Y square accuracy	<±0.05/3000 x 3000 mm		
MAX drilling depth	Max 100 mm		
Hold down mechanism action	Plate size request > 500mm x300mm		
Spindle taper	BT 40		
Tool length measure	manual input		
Plate height detect	Auto-detect		
Cooling system	Oil through or mist and external cooling or mist		
ATC Magazine	12 sets umbrella type (MAX configure 6 tool holder)		
Tool length	170~300mm		
Drilling diameter capacity	φ 6~ φ 50		
Rigid tapping capacity	M8~M24		
DXF file transfer software	DXF convert to CNC G,M,S,F codes and optimum drilling path		
Automatic lubrication unit	For liner slider lubrication		
Rails extension unit (OPTION)	3000mm/unit		

This information is subject to change without prior notice.

