

DAMA**GMDC - II**

HIGH SPEED CNC DRILLING / CUTTING MACHINE

DAMA**GMDC - II**

HIGH SPEED CNC DRILLING / CUTTING MACHINE

SPECIFICATION

Model	GMDC-II			
Effective work width	2500mm			
Effective work length	3000	6000	9000	12000
Machine space (W)	6000			
Machine space (L)	8000	11000	14000	17000
Plate thickness	6~60mm			
Loading capacity	3.0t	6.0t	9.0t	12t
X,XX axis driver system	1.3KW		1.8KW	
	AC servo motor / linear guide / rack			
Y1 axis driver system	1.3KW servo motor/ linear guide / rack			
Y2 axis driver system	0.85KW servo motor/ linear guide / rack			
Z1 axis driver system	1.8KW servo motor/ linear guide / ball screw			
CNC controller	SYNTEC SUPER 8/17" screen / industrial keyboard			

IN-FEED MECHANISM

X,XX axis feed rapid speed	12000 mm / min
X,XX axis material feeder speed	Max 6000 mm / min
Z axis rapid speed	6000 mm / min
Positioning accuracy	±0.1 / 1000 mm
Reproducibility accuracy	±0.05 mm

DRILLING

Spindle servo motor	Servo motor 30 HP
Spindle tapper	BT 50
Spindle rpm	200~2000 rpm
Drilling diameter capacity	φ 6~ φ 50
Tapping capacity	M8~M30
Tool length	170~300mm
Cooling system	Internal coolant mist & External coolant mist
ATC magazine	Stationary ATC
Chip cleaning mechanism	Standard
Chip collecting tank	Standard
Cutting dross collecting tank	Standard

CUTTING

Plasma model	HPR-130XD, HPR-260XD, HPR-400XD / cutting thickness up to 40mm
Plasma height sensor	Hpertherm ArcGlide
Flame cutting system	Auto ignition / capacitive height sensor / cutting thickness 60mm
Nesting software	SIGMA NEST X1

OPTION

Marking torch	Zinc powder marking torch
Scribe marking	Spindle scribe
Filter system	Fan motor 10HP
Out-Feed Mechanism	Customizable
Work-piece carrier	1HP motor / Carrier size: 600 mm (W) X 4500 mm (L)



- Drilling/Cutting one machine
-Multi-use
- Parts not need move
-Save time and cost
- Parts processing efficiency
-Increase greatly

**DAMA TECH CO., LTD**

No. 18, Gong Yeh 33 Road, Taichung Industrial Part, Taichung
City, 40768, Taiwan
TEL: 886-4-2359-4959 E-mail: damatech@dama.com.tw
FAX: 886-4-2359-4958 Website: http://www.dama.com.tw

FEATURES

1. GMDC-II is a high speed drilling/cutting machine equipped with high precision BT50 spindle and plasma/flame cutting torches. Zinc powder marking torch and spindle scribing are optional to GMDC-II as well. GMDC-II fulfills the needs of drilling, tapping, cutting, marking and scribing on one machine to save processing time.

2. GMDC-II is a high CB (Cost-Benefit) ratio machine.

- The total processing efficiency is 2.5 times higher by comparing to individual drilling machine and cutting machine.
- Lowering the cost from making work table and foundation.
- The capacity and cost of fume filter are just half of standard fume suction table.
- Quick machine installation allows user get into production in a short time.

3. GMDC-II has strong gantry structure and stable saddles to be equipped on various automatic mechanisms.

- Chip cleaning mechanism under gantry, chip collecting mechanism and dross collecting tank under work table offers the best solution of cleaning chip and dross.
- Rapid part-drop incline table is designed with safety sensor to ensure the parts drop totally.



Chip brush



Part drop incline table

5. BT50 precision spindle with 30HP servo motor.

- Spindle speed is up to 2000 rpm. Drilling diameter ranges from $\phi 6$ mm to $\phi 50$ mm.
- Internal coolant mist and external coolant mist could be applied with different tools.
- Hold Down Mechanism offers steady drilling condition under high speed by stabilizing the plate.
- ATC (auto tool changer) makes the processing more convenient.



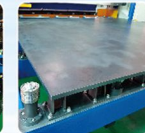
Spindle and hold down mechanism

4. In-feed mechanism uses dual servo motor and four sets of high clamping force vises.

- The vises are able to clamp plate up to 12 tons and having fall-off detector.
- In-feed mechanism not only offers plate auto aligning function but also does auto clamping which makes loading plate easier.
- In-feed mechanism offers auto speed switching under the condition with/without plate to ensure the certainty of clamping.
- The length of in-feed and out-feed mechanism are both customizable.



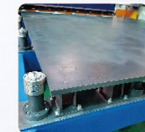
Hydraulic high clamping force vises.



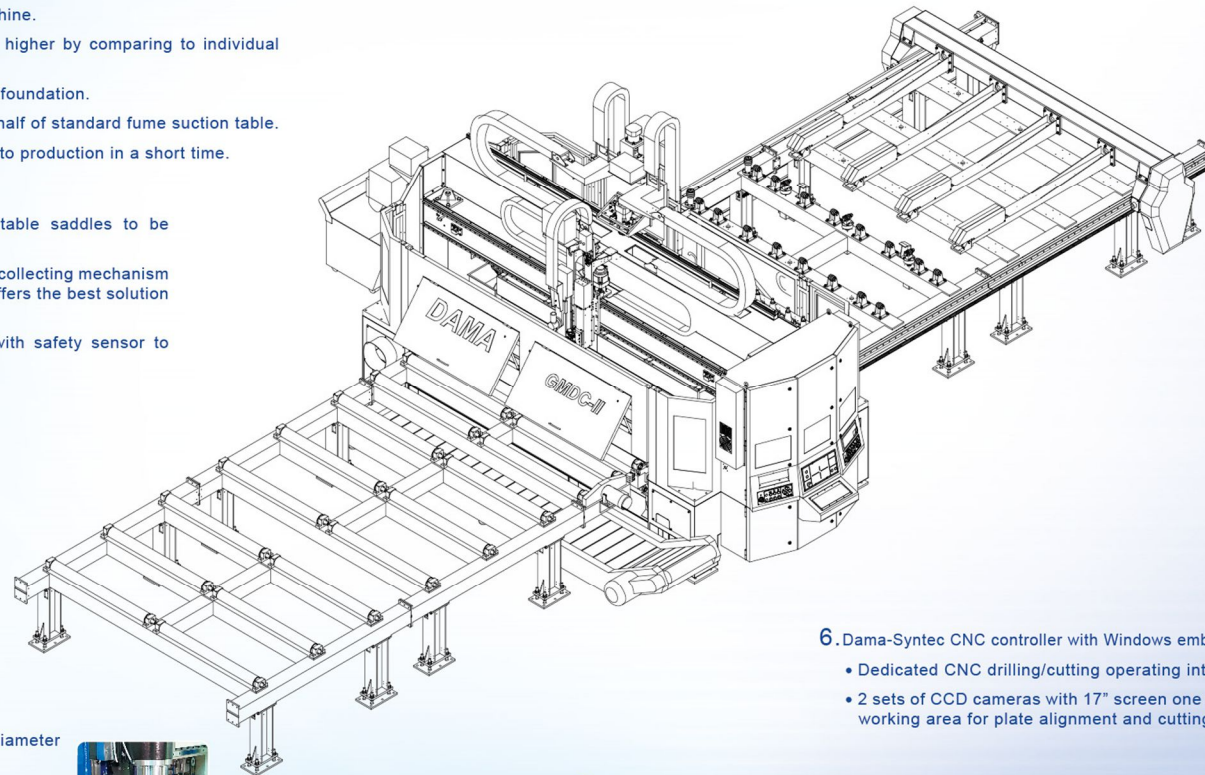
Sheet plate loading



Auto aligning during sheet plate load



Sheet plate align finished



6. Dama-Syntec CNC controller with Windows embedded and 17" screen.

- Dedicated CNC drilling/cutting operating interface.
- 2 sets of CCD cameras with 17" screen one for each are attached in working area for plate alignment and cutting condition observation.

7. SIGMA NEST X1 Drilling/Cutting Nest Software.

- For small work-pieces, cutting one by one or section by section after drilling are both available.
- For large work-pieces, drilling would be executed and then cutting.
- Supported formats includes DXF, DWG and DSTV.