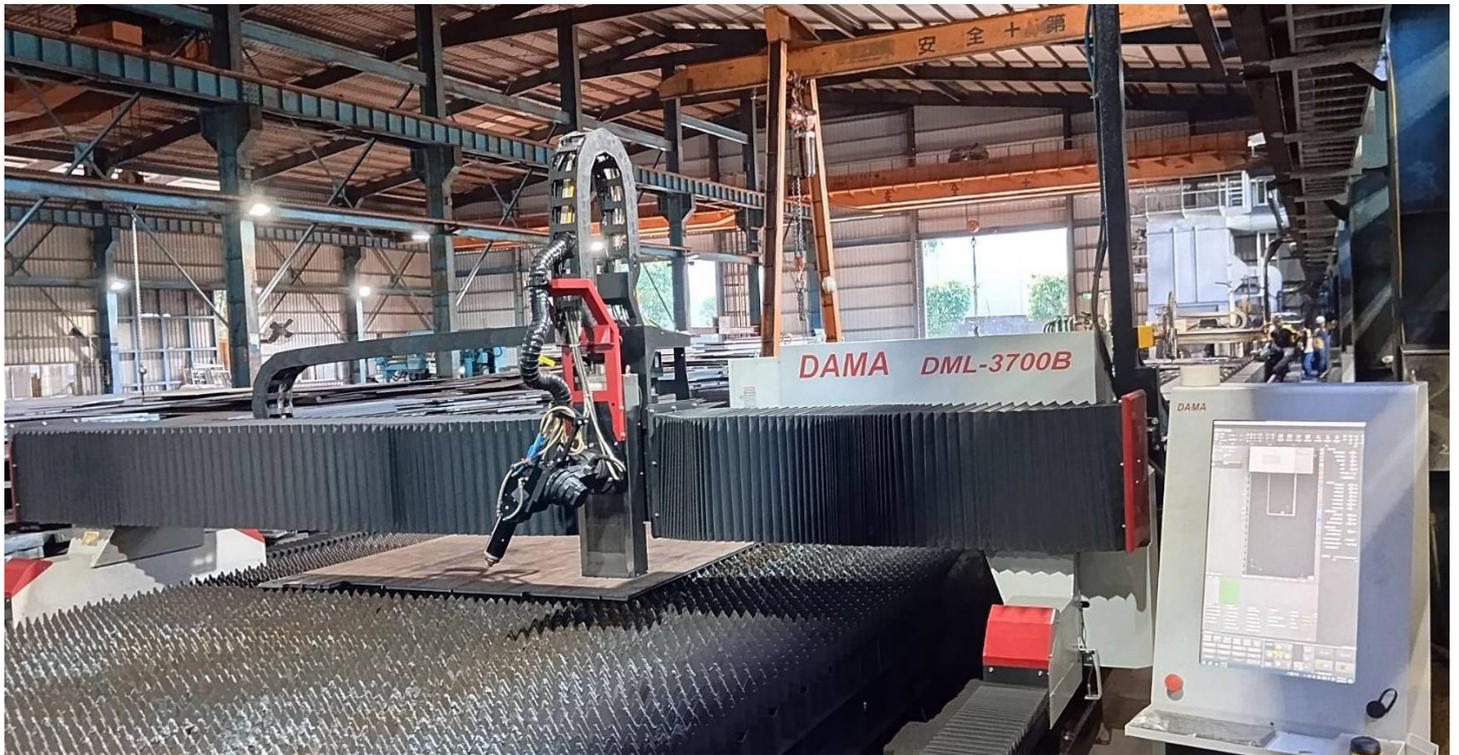


DAMA

Professional

DML Series CNC Laser Cutting Machine



Features

1. DML gantry beam is a welded steel plate structure that is annealed and processed for stability and deformation resistance.
2. Longitudinal Transmission: The machining rails integrate high-precision linear guides with a helical ground rack and pinion system, ensuring efficient and accurate movement.
3. Traverses transmission features a precision linear guide with a ground rack and pinion for rapid, accurate movement.
4. DML cutting machine can be tailored to fit the customer's current foundation and bed, helping to reduce time, effort, and expenses.
5. CNC adopted Bochu control system, known for its reliability and user-friendly operation.
6. The cutting head uses the BOCI BLT series, known for high performance and easy maintenance.
7. The bevel rotation axis uses Bochu AB axis and control system for straightforward operation.
8. DML Uses Maxphotonics or Racus laser host and Teyu chiller, stable and maintenance-free.
9. Transmission components feature a Yaskawa servo system, Taiwanese precision reducers, linear guides, and grinding gears for accurate performance.
10. DML uses Japanese SMC proportional valve regulates the gas control.
11. The cabinet box uses air conditioning to cool its components and ensure optimal machine performance.
12. DML features a cutting table made in Taiwan, equipped with partitioned dust removal for enhanced effectiveness.

Model	DML-2500B	DML-3100B	DML-3700B	DML-4000B
Effective Cutting Width	2500mm	3100mm	3700mm	4000mm
Machine Linear Guide Span	3500mm	4100mm	4800mm	5000mm
Effective Cutting Length	6M +X (according to customer needs)			
X, Y maximum speed	30 M/min			
X,Y positioning accuracy	±0.05 mm			
X, Y Repeatability	±0.02 mm			
MAX Acceleration	0.5G			
Laser Host POWER (W)	Maxphotonic or Racus fiber laser 20KW, 30KW, 40KW			
Laser Bevel Head	Bochu A,B axis			

CNC Controller: Bochu FSCUT9100, a professional CNC system designed for high-power laser plane bevel cutting

- Bochu FACut Plane Bevel Laser Cutting Control Software: Key functions
Visual calibration, Pendulum length correction, Parameter adjustment, and Custom PLC and program simulation. It also manages bevel cutting processes, such as deformation compensation, steel plate slope measurement and secondary blanking.
- Human-Machine Operation Interface: 27-inch touch screen and a handheld remote-control box.
- The system handles motion control for the x, y1, y2, z, A and B axes, as well as laser and cutting gas management.
- It can read DXF files exported from CAD software.
- Cutting Program Input: Supports USB ports and WIFI.

The BOCI BLT-4XX series intelligent laser cutting head

- Closed-Loop Monitoring
- Collimation Focusing
- Nozzle Cooling
- Sensor Cooling
- Protective Mirror Temperature Check
- Cutting gas pressure Monitoring
- Pan-Plug Seal Failure Detection
- Anti-Collision Protection
- Built-In Capacitive Amplifier
- BLT-462(20KW)
- BLT482(30KW)
- BLT4801(40KW)

Nesting Software CypNest professional nesting software supports CAD/Tekla part import, bevel editing, and mixed nesting of straight-cut bevel parts, greatly simplifying the process of drawing→ nesting→ machining.

Chiller & Voltage Regulator Standard equipment (Teyu CWFL series water chiller and Topwell voltage regulator)

Dust Collector **Optional:** According to customer needs

Air Compressor **Optional:** The fiber laser special air compressor includes freeze dryer, suction dryer and filter (output pressure 16Kg/cm²).

Auxiliary Gas O₂(Carbon steel),N₂(stainless steel),Air(Carbon & Stainless steel)

Power Supply Requirements Match according to the wattage of the laser

Batch production thickness (mm)	1	2	3	4	5	6	8	10	12	14	16	18	20	22	25	30	35	40	45	50	60	70	80	90	100
6000W	Carbon Steel	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Stainless Steel	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12000W	Carbon Steel	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Stainless Steel	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20000W	Carbon Steel	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Stainless Steel	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
30000W	Carbon Steel	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Stainless Steel	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
40000W	Carbon Steel	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Stainless Steel	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

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