

PG

Series

Full-Protective Sheet Laser Cutting Machine

1,500W-40,000W



#01 High Speed

#02 High Protection

#03 High Precision

● **Powerful Thick Plate Cutting, Beyond Imagination**
High-power Thick Plate Cutting Technology

● **Bus System, Intelligent and Efficient**
Intelligent Bus Control System

● **Over all Processing, Intelligent and Efficient**
Intelligent Dispatch, Well-coordinated

Advanced Heat-Resistant Design #1

The machine bed uses mineral fireproof materials to significantly reduce the risk of heat distortion during heavy-duty processing, extending the equipment's service life.



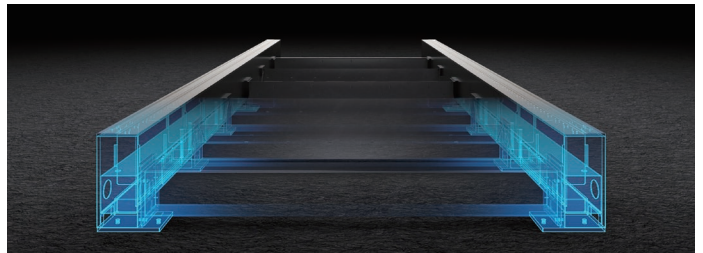
Adaptive Anti-Collision Sensing #2

Equipped with intelligent sensing to actively detect and avoid unexpected obstacles during operation, preventing collisions between the cutting head and workpiece, enhancing equipment safety and reducing maintenance costs.



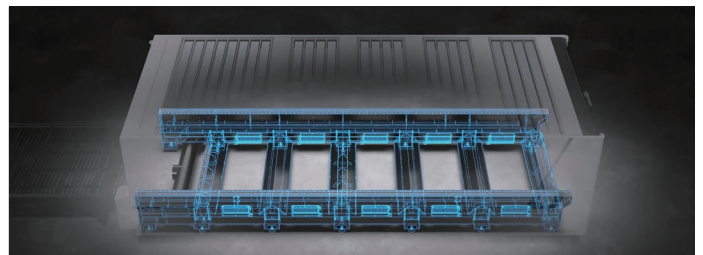
High-Rigidity Structure #3

Upgraded structural design with anti-burning features effectively reduces thermal deformation. Ensures smoother high-speed motion and long-term cutting precision for efficient, stable production.



Upgraded Dual-Beam Bed Structure for Maximum Durability #4

The dual-beam frame design enhances overall machine rigidity and torsional resistance, improving long-term stability. Resists deformation during extended high-speed or heavy-load cutting, ensuring precision and durability for thick sheet applications.



Technical Parameters	PG3015	PG4020	PG6020	PG6025
Power	1500W - 12000W	1500W - 40000W	1500W - 40000W	1500W - 40000W
Max.running speed	115m/min	120m/min	120m/min	120m/min
Max.acceleration	1.5G	1.5G	1.5G	1.5G
Positioning accuracy	±0.03mm/m	±0.03mm/m	±0.03mm/m	±0.03mm/m
Repositioning accuracy	±0.02mm	±0.02mm	±0.02mm	±0.02mm

BOCI(BOCHU) Laser Cutting Head



Cutting Head Model	Supported Power Level	Fiber Interface	Focal Length (mm)
BLT310	≤3kW	QBH, EOC	150, 200
BLT421 / BLT421S	≤8kW	QBH, EOC	150, 200
BLT442	≤15kW	Q+, QD, QBH, ADD	200
BLT663H	≤20kW	Q+, QD, QBH, ADD	200
BLT683H	≤30kW	Q+, ADD	200, 300
BLT6103H	≤40kW	Q+, QD, QBH, ADD	300

Features:

1. Collision Protection

Easier Maintenance : The cutting head is designed with collision protection, effectively reducing the return-to-factory rate. No need for after-sales visits, as customers can replace parts themselves, resulting in lower maintenance costs.

2. Protective Lens Temperature Monitoring

Enhances Processing Stability: Real-time monitoring of the protective lens temperature. When contamination of the protective lens is detected, the system promptly stops the laser and alerts the user, effectively reducing poor cutting quality caused by lens contamination.

3. Accurate Focusing

Faster Focusing Speed : Reduces the waiting time for focus adjustments, providing customers with a smoother cutting experience and making processing more efficient.

4. Bevel Cutting

One-Step Formation : Equipped with AB swing axis, it supports cutting V, Y, X, and other types of bevels. It can form bevels of up to $\pm 45^\circ$ in one step, reducing the number of processing steps and increasing efficiency.

5. Closed-Loop Monitoring

Smarter and More Efficient : Equipped with multiple sensors, it provides real-time intelligent closed-loop monitoring, quickly diagnosing issues and providing early warnings.

6. Full-Body Water Cooling

More Stable Cutting : The water cooling design covers 90% of the optical path of the cutting head, making the cutting process more stable.

7. Gas Pressure Monitoring

Enhances Processing Stability : Real-time monitoring of gas flow output during the cutting process effectively reduces the impact of insufficient or excessive gas pressure on the quality of the cut surface.



Fiber Lasers



Maxphotonics brings expertise to every fiber laser we engineer - ensuring performance, consistency, reliability, and cost-efficiency in even the most demanding environments.

Our solutions drive industrial success while optimizing your operational costs across a wide range of applications.

Maxphotonics ผู้นำด้านไฟเบอร์เลเซอร์ ที่ให้ทั้งพลัง ความแม่นยำ และความเสถียรในทุกการใช้งาน ออกแบบมาเพื่อรองรับงานอุตสาหกรรมหนัก พร้อมประสิทธิภาพที่สม่ำเสมอในทุกสภาพการทำงาน ช่วยเพิ่มกำลังการผลิต ลดต้นทุน และยกระดับคุณภาพงานตัดให้เหนือกว่า เทคโนโลยีที่เชื่อถือได้ พร้อมตอบโจทย์ทุกความต้องการของโรงงานยุคใหม่ เลือก Maxphotonics เพื่อประสิทธิภาพสูงสุดและความคุ้มค่าในระยะยาว

