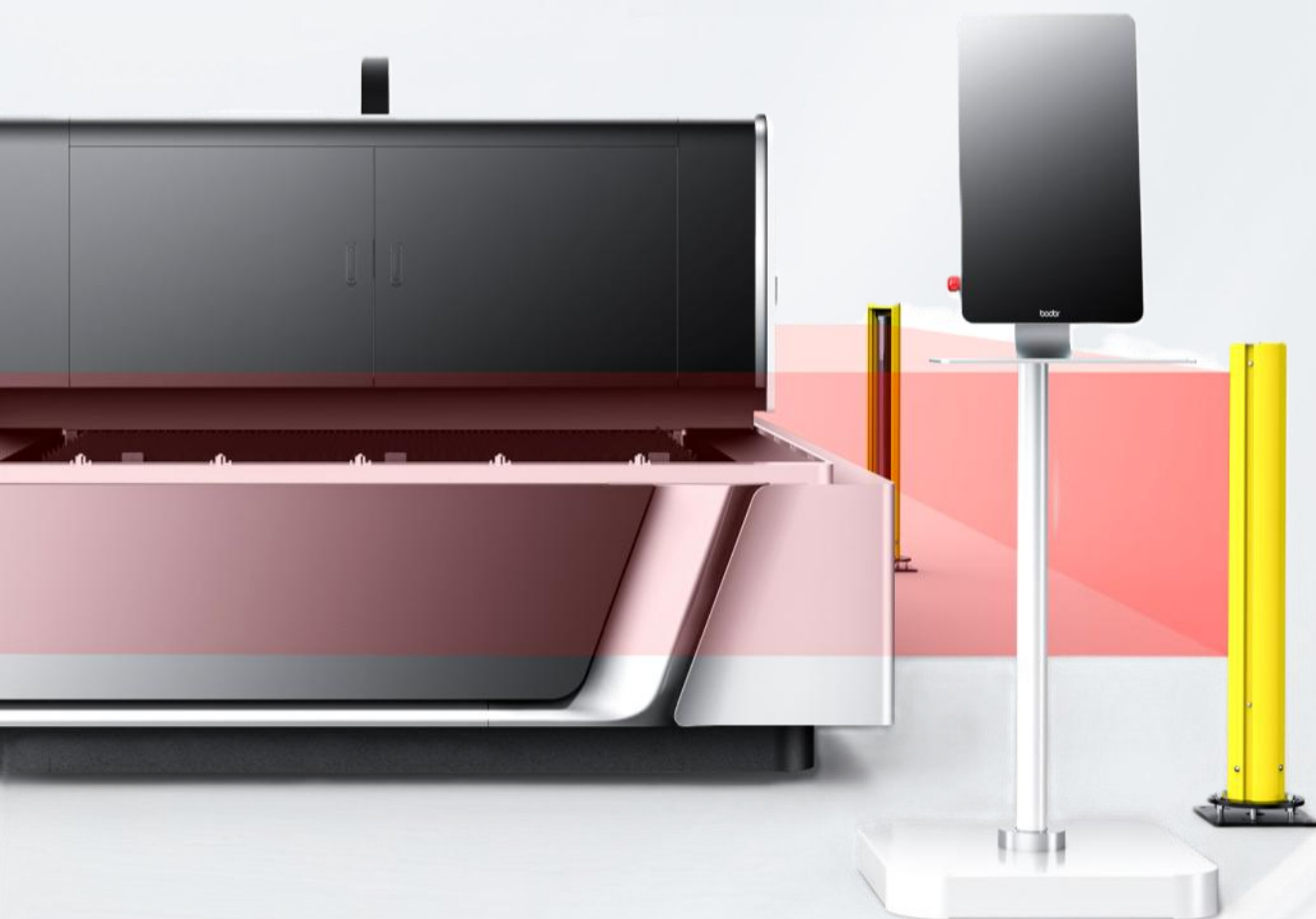


A Series Technical Solutions

All-around sheet fiber laser metal cutting machine



Equipped with automatic functions of nozzle changing
and one-click processing,
P-Series is competent for all cutting demands.

Commercial quotation

Model	A6 Plus	
Working area	6100mm*2500mm (approx. 20.01'*8.2')	
Laser power	12000W	
DDP Price		
Description	New machine A6Plus with 12kW Bodor Power laser source, # Dust collector with sparkle arrestor*1 # Chiller*1 # Transformer*1 # Safety light curtain*1 # Cutting head filter*1 # Flow box*1 # Consumables package # Installation, training and commissioning # 3-year warranty for main parts, 5-year warranty for laser source, head and Control system 1-year free labor for on-site service	
Optional items	22kW Air Compressor with filters group (included in total price)	POR
	Dust collector (included in total price)	POR
	Spare Laser Head 12kW	POR
Lead time	Production cycle: 80 days from deposit Delivery cycle: 60 days from full payment	
Validity of offer	20 days	
Payment term	30% as deposit, full payment before shipment	

Function & Main parameters list

Model		A6Plus
Basic parameter	Maximum loading size	6500mm*2500mm (≈21.33'x8.2')
	Max. linkage speed	100m/min (328ft/min)
	Max. acceleration	1.5 G
	Table load bearing	3595kg/7925.62lb (30mm/1.118" full size CS plate)
	Machine overall dimensions	9083mm × 4491mm × 1960mm (29.8'*14.73'*6.43')
	Overall weight	6100kg (13448.2 lb)
Intelligent function	Bodor Lightning perforation technology	•
	High Speed Cutting Expert Database	•
	Remnant Typesetting	•
	Air pressure intelligent control	•
	Automatic adjustment of cutting gas pressure	O2、N2、Air
	Gas filtration alarm device	•
	Auto-focus of laser head	•
	Laser cutting technology expert database	•
	Ergonomic Remote Control (Bodor Mango®)	•
	Active anti-collision function	•
	Intelligent over-heat adaptation	•
	Intelligent anti-shake of sheet edge	•
	High quality Cutting Expert Database	•
	Anti-slag Protection	•
	Mineral casting anti burning	•
	Gas-saving steady flow nozzle	•
	Automatic lubrication	•

Performance & Configurations

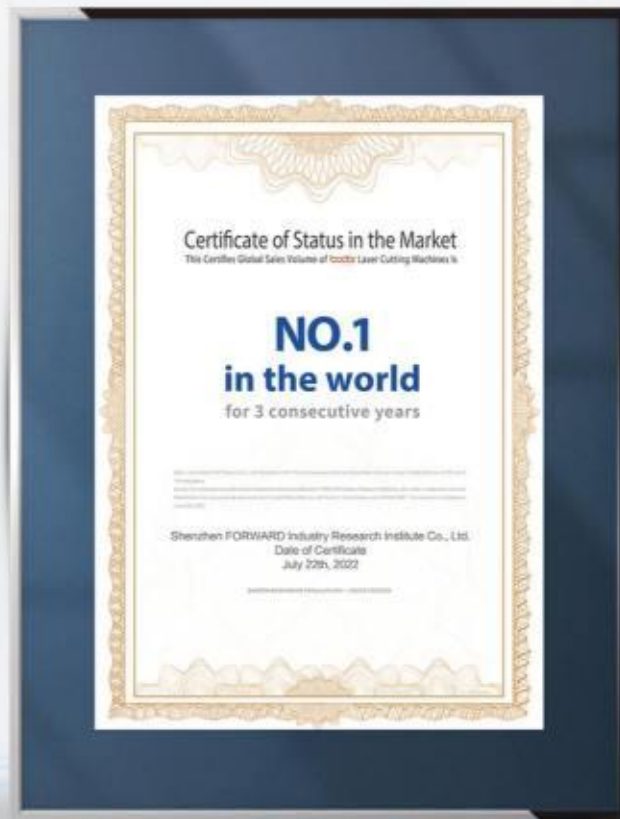
Model			A6Plus
Performance	Requirements for raw material		Plate thickness≥0.8mm(0.0315")
	Z axis travel		100mm (≈0.328")
	Positioning accuracy		±0.05mm/m(0.00196")
	Repositioning accuracy		±0.03mm(0.001181")
	φ30mm roundness		≤0.15mm (0.00591")
	□30mm adjacent side dimension difference		≤0.06mm (0.00236")
	□190mm adjacent side dimension difference		≤0.15mm (0.00591")
	□190mm diagonal size difference		≤0.20mm (0.00787")
Configurations	Optical system	Laser head	Bodor Genius
		Laser source	BodorPower
	Mechanical system	Machine bed	Tenon and mortise structure bed
		Gantry structure	Stretched Aluminum gantry
		X-axis、Y-axis、Z-axis Servo motor and driver	Bodor
		Linear Rails	Bodor
		Rack	Bodor
	Electrical system	Control system	BodorThinker
		Display size	21.5 inches
		Door-open Protection	●
		Intelligent alarm	●
		File format	dxf、dwg、plt、lxd、cnc、txt、gen
	Peripheral system	Water Chiller	●
		Dust-removing equipment	Dust collector
		Beam Camera	●
Whole machine power/current/Average Power with 12kW source			55.7KW/105.8A (rated) 33.3kw·h (avg.)

Cutting Parameters (12kW)

Cutting Speed (m/min)			
Power	12kW		
Thickness	Carbon steel		Stainless
	O2	Air	N2
3mm (10GA)	3—4.5	25—35	15—22
6mm (1/4")	2.3—3.3	13—17	12—15
10mm (3/8")	1.6—2.7	5—7	6—8
12mm (1/2")	1.2—2.1	3—5	4—5.5
16mm (5/8")	1—1.7	2—3	2.2—2.8
20mm (3/4")	0.6—1.5	0.6—1.2	1—1.6
25mm (1")	0.5—1.2		0.5—0.8
30mm (1.18")	0.3—1		0.3—0.6
35mm (1.38")	0.3—0.7		0.3—0.5
40mm (1.57")	0.2—0.4		0.3—0.5
45mm (1.77")	0.4--0.8		0.2—0.4

Bodor Laser Ranking

No.1 Globally By Sales Volume



Source: The ranking serves as the result of independent research by Shenzhen FORWARD Industry Research Institute Co., Ltd., which is measured in terms of Global Sales Volume covered all sales channels of Laser Cutting Machine with Power of 1kW and above from 2019 to 2025. The research is completed on 1st Apr., 2026.

Company strength



51000
m² perfactory

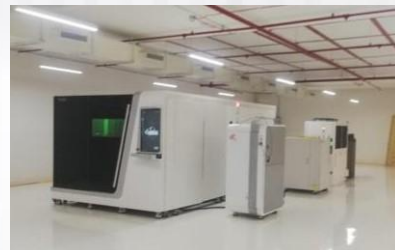
20000
Customers

10000+
Sets/year

180
Countries

10+
Global branches

Bodor Overseas Service Center



R & D STRENGTH

Bodor R&D team owns authoritative developing center, innovating center, laser application research institution in the industry. Many leapfrog and breaking-through developments of Bodor's technology and product iteration generate in its five technology R&D centers, respectively in China, Germany, the US, Japan, and India, helping Bodor win many domestic and international awards, certifications, and high recognition on the laser industry and market.



Ultra-High Power Capability



Cumulative **1800+** units of **10kW+** machines sold,
in **50** different countries and regions

Brand Honors

Won the German **IF Award** at the International Industry Awards in **2019**

Won the German **Red Dot Award** at the International Industry Awards in **2018**

International awards **10+**
industry awards **50+**
patent certificates **130+**



A series

Single-platform plate fiber laser cutting machine Economical model



- **EtherCAT bus control:** advanced system in the industry, more accurate control, faster response, and higher processing efficiency.
- **Independently developed BodorThinker system:** third generation bus system with excellent performance and greatly reduced system failure.
- **New Bodor style design:** international IF design award winner. Classic and iconic design of Bodor products is distinguishable in the market.
- **Second generation mortise and tenon plate welded bed:** The newly upgraded second generation mortise and tenon welded bed designed with the optimal force point and support structure by finite element analysis. Workpiece deformation during loading is significantly reduced to ensure the long-term stable operation of the equipment.
- **Super high-pressure tensile aluminum crossbeam:** industry-leading technology, faster dynamic response performance.
- **New generation modular table:** ready to use, convenient and fast.
- **Remainig material cutting:** : Remainig material cutting: easy graphic snap, remaining material reuse improves the plate utilization and saves the cost

Laser head active anti-collision function

- With optimized auto-following algorithm, the laser head is able to anticipate obstacles and achieve the best performance of motor, which both ensure a stable cutting process and speedy, sensitive air movement.
- Z-axis responds at high speed to avoid the detected obstacle, which effectively prevent the potential interference and laser head collision that caused by the distorted cutting parts during batch cutting of thin plates.



Self-developed optic fibre laser



- Bodor's laser has a conversion rate of up to 35%, which is significantly higher than its domestic general counterparts' 25% and far higher than CO2 lasers' 5–10% electro-optical conversion rate. As a result, power consumption and operating costs can be significantly reduced, and the productivity will be improved.
- Unlike CO2 laser, fiber laser does not consume laser-generating CO2 gas and other auxiliary gases (such as helium, nitrogen, etc.) Adopting semiconductor modular and redundant design, fibre laser has compact structure with no optical lens in the resonant cavity. Simpler repair and maintenance, lower failure rate and lower operating cost
- The central wavelength of an optical fiber laser is 1080 nm, or one-tenth the wavelength of a CO2 laser. The processing costs are lowered to a minimum since the output beam has superior quality, a larger power density, and is easier to absorb by metal materials.
- Optical fibre laser transmitted through the whole machine with simple optical path, stable structure. external optical path is maintenance-free.

Remaining material typesetting



- Easy snapshot graphics output can be completed through the phone open. More convenient
- Integrated system, program support running on cutting software. Software Automatic nesting is on once the processing is completed.
- Easy to operate, no hassles of repeated measurement. auto-identification and auto-correction can be achieved through brief reference.
- Greater adaptability to cope customers' more complex production scenarios.

Applicable to industries

Steel bridge

Pressure vessel

Special vehicle

Mining machinery

Construction machinery

Hardware

Ship container

...



Cutting sample

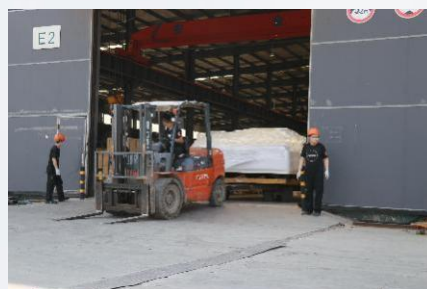
Bodor laser uses advanced cutting technology, and the cutting sample has a neat cut surface, a smooth bottom, no burrs, no slag, and no secondary processing. Perfectly realize the cutting requirements of carbon steel extreme cutting, thick plate extreme small hole cutting, and carbon steel thick plate sharp corner-cutting.



Production and R&D Center



Overseas Shipping



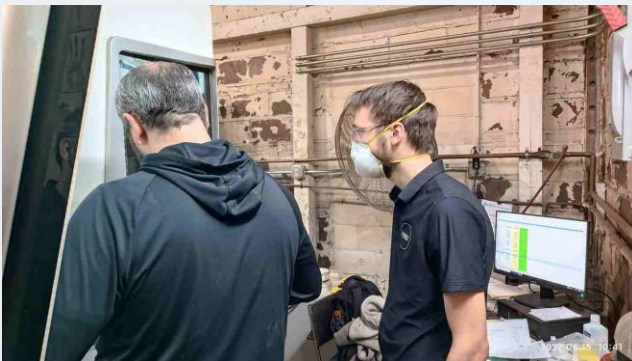
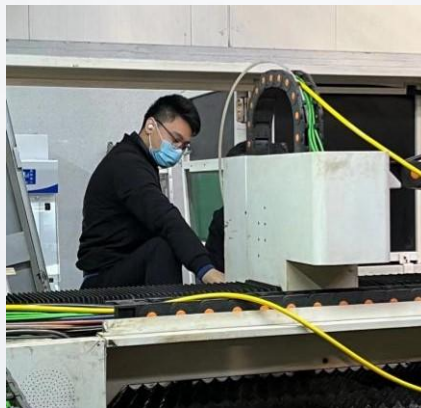
Bodor & Maersk



In December 2021, the signing ceremony of Bodor & Maersk strategic cooperation was held in Shanghai.



7×24 Service Team



7×24 Service Team



