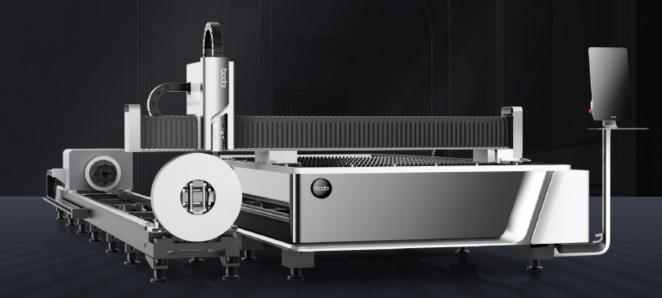


AT SERIES

ENTRY-LEVEL FIBER LASER METAL SHEET&TUBE CUTTING MACHINE

(1.5kW-6kW)



For more information, please go to the website: www.bodor.com



INTRODUCTION

Now the company has more than 2,000 employees from more than 20 countries around the world. Headquartered in Jinan, China, Bodor sets up 9 oversea subsidiaries, respectively in the US, India, Hungary, Turkey, Brazil, Mexico, Japan, South Korea, and Germany. The global footprint of Bodor has now covered over 180 countries and regions on six continents, building a complete sales channel and service network around the world to provide global customers with the best laser cutting application solutions.

51000m²

7000+

2000+

Production Base

Delivery Capability

Global Employees







COMPANY HISTORY

2018

Won award of Reddot

2017

Launched BodorPro , BodorGenius

2016

Luanched the high power series S

2021.12

Sales of 10kW+ machines reaches 1000 units

2021.5

World premier of 22000W laser together, unique in the world

2021.4

Won two iF design awards with Dream-series and A2.0-Series

Dare to DREAM **Bodor Never Stop**

>2008

2008 10

Company established

>2016-2018

>2021

>2010-2015

> 2019-2020

>2022-Present

2010

Started International business with CE, FDA qualified

2013

Bodor Laser first fiber laser cutting machines launched

2015

"Bodor" trademark registered in over 140 countries

2019

Won iF design award

World premier of 25000W and 30000W laser cutting machines

2020

World premier of 40000W laser cutting machines

2022.3

Launched the category creator— Laser Scanning Cutting Machine



GLOBAL NETWORK



ULTRA-HIGH POWER CAPABILITY

World premier

World premier of 25000w, 30000w, 40000w and world unique 22000w laser cutting machine.

• Sales record(Until 31th, Dec. 2021)

Choice of 1000 companies worldwide on 10kW+ laser cutting machines, in 46 different countries and regions

No. 1

Leading sales volume of 10kW+ laser cutting machines



R&D CAPABILITY



- Strong R&D team lead by the drafter of National Standards for CNC laser cutting machines
- Over 200 R&D Technicians, the R&D level is in line with international standards
- 10 subdivision platforms, including plate cutting, pipe cutting, application engineering, etc.
- 2 core R&D Centers in China and 4 overseas Technology Centers
- More than 200 patent certificates, 5 international awards, 22 industry awards

200+

R&D Team

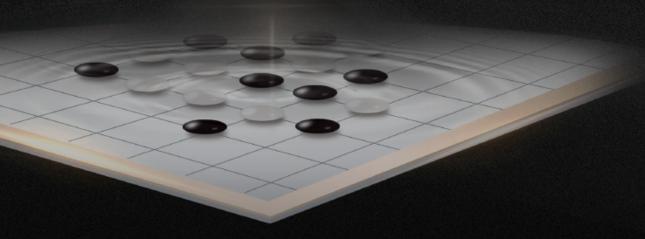
Patents

R&D Platform



THE BLACK GO CHESS





Black Go chess — inspired by Go

Circular — endless loop, endless exploration

Black — derived from obsidian crystal, steady and deep





BODOR THINKER



Advantages

• High-end intelligent system, stable and reliable, easy to setup and debug, keep safe in production, rich in functions, and excellent in performance. It supports modular, personalized, automated, and informationized solutions.



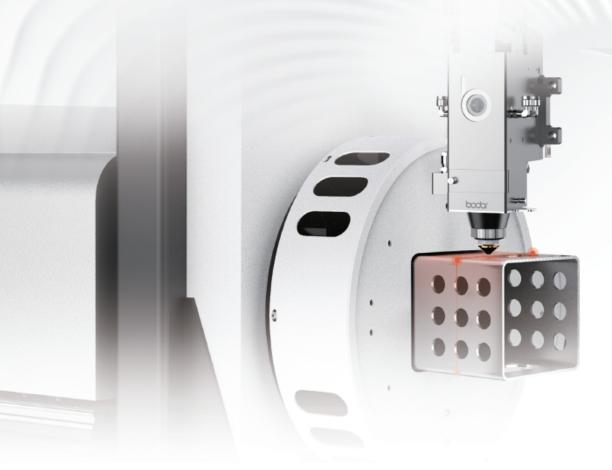




- By optimizing the servo algorithm, predicting the obstacles and exerting the optimal performance of the motor can ensure the stability of the cutting process and the sensitivity and speed of the idle motion process;
- When an obstacle is detected, the Z axis responds at a very high speed and avoids obstacles.
- Avoid to interfering cutting caused by the tilted cutting piece and effectively solve the problem of collision of laser head during the thin plate cutting process.



AUTOMATIC TUBE DETECTION



Advantages

• Optimized edge searching method and algorithm guarantee higher cutting precision and better steadiness.



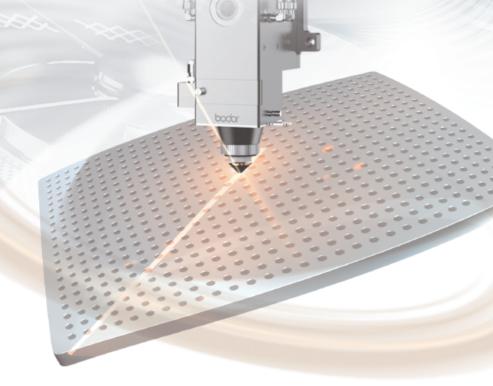
INTELLIGENT ANTI-SHAKE OF SHEET EDGE



- Avoid the danger of cutting head stall caused by plate shake, keep continuous and high-effective cutting.
- Ensure continuous processing consistency of materials without repeated modification of processing drawings.
- Intelligent identification of various sheet specifications, improve the dynamic performance of the cutting head and quick response.



BODOR LIGHTNING PERFORATION TECHNOLOGY



- The lightning rapid perforation process reduces perforation time by 90%.
- The perfect combination of lightning rapid perforation process and BodorGenius ensures the laser head complete the whole perforation process during its moving fall.
- No additional action and time to be taken when cutting sheets with medium thickness.



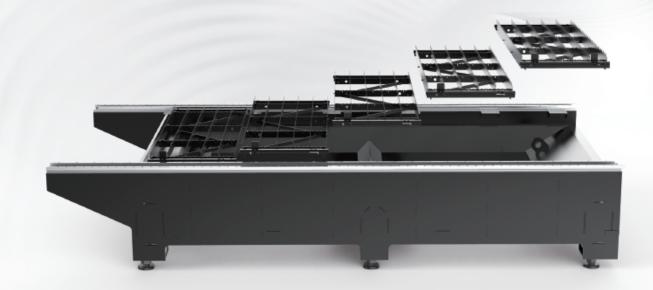
PNEUMATIC CHUCK



- Quick clamping improves the work efficiency.
- The clamping force is large, stable and adjustable.
- Strong safety and reliability.



MORTISE-AND-TENON TYPE PLATE WELDED SEGMENTED BED



- Using Chinese traditional tenon-and-mortise structure to provide stronger bearing capacity.
- Solder joint fixing and structural bearing ensure long-standing operation stability.
- Welded structure improves shock absorption effect, lowering deviation caused by shock, offering more accurate cutting.
- Brand new modular platform solves deformation problem caused by heat and facilitates parts replacement.



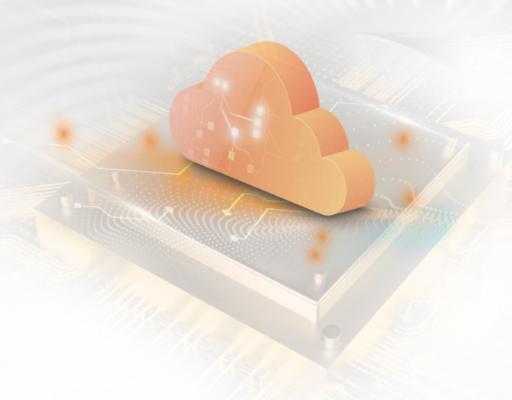
BODOR GENIUS



- The lightweight design ensures excellent acceleration performance and cutting speed.
- Excellent design in air flow and water-cooling structure enables the laser-head to continuously and efficiently operate at high power.
- Built-in drive unit, adjustment accuracy of 0.05mm.
- Collimation mirrors and focus mirrors are all using composite lenses, which can obtain the optimal optical quality and cutting effect.
- Distance detection device has no drift, ensures rapid reaction.



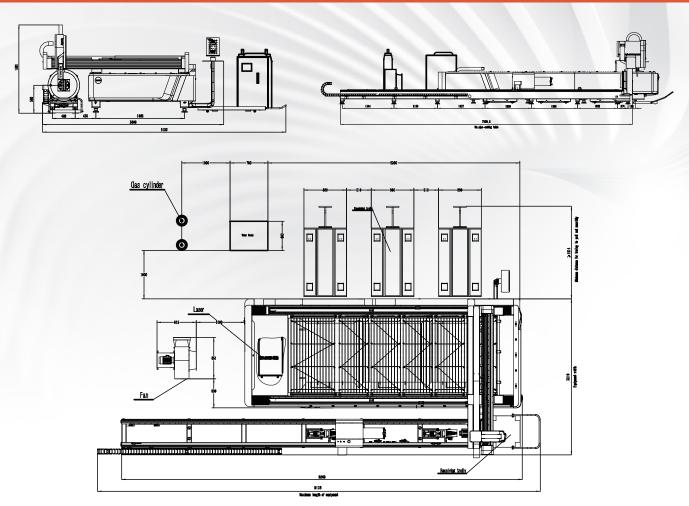
BODOR CLOUD



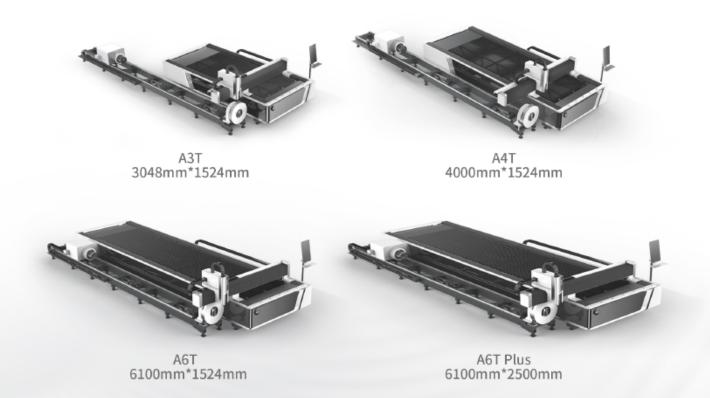
- Daily equipment status management (processing data, report forms)
- Alarm and maintenance reminder
- Cloud transmission for processing programs
- Remote online service access with one key
- Real-time information of the latest cutting process



Layout



The above layout drawings and figures are for referrence only, the actual drawing shipped with machine prevails.





Technical Data

ITEM	A6T Plus	A6T	A4T	A3T	
Working area	6100mm*2500mm	6100mm*1524mm	4000mm*1524mm	3048mm*1524mm	
Max. linkage speed	100m/min	100m/min	100m/min	100m/min	
Max. acceleration	1.5G	1.5G	1.5G	1.5G	
Table load bearing	3000kg	1459kg (1-3kw) 1824kg (6kw)	957kg (1-3kw) 1196kg (6kw)	583kg (1-2kw) 729kg (3kw) 911kg (6kw)	
Machine overall dimensions	8641*4879*2103mm	8641*3870*1858mm	8641*3870*1861mm	8641*3870*1861mm	
Overall weight	±7000kg	5300kg	4300kg	3900kg	
Z axis travel	315mm	315mm	315mm	315mm	
Positioning accuracy	±0.05mm	±0.05mm	±0.05mm	±0.05mm	
Repositioning accuracy	±0.03mm	±0.03mm	±0.03mm	±0.03mm	
Total power capacity/current with 3KW source	50.6KVA/76.9A	50.6KVA/76.9A	50.6KVA/76.9A	50.6KVA/76.9A	
Total power capacity/current with 3KW source	44.3KVA/67.2A	44.3KVA/67.2A	44.3KVA/67.2A	44.3KVA/67.2A	
Total power capacity/current with 2KW source	33.2KVA/50.4A	33.2KVA/50.4A	33.2KVA/50.4A	33.2KVA/50.4A	
Total power capacity/current with 1.5KW source	32.9KVA/49.9A	32.9KVA/49.9A	32.9KVA/49.9A	32.9KVA/49.9A	

Configuration And Components

laser head	Bodor Genius				
Laser source	Bodor Power				
Machine bed	Mortise-and-tenon type plate welded segmented bed				
Gantry structure	Pneumatic chuck				
X-axis、 Y-axis、 Z-axisServo motor and driver	BODOR				
Linear Rails	BODOR				
Rack	BODOR				
Control system	Bodor Thinker				
Display size	21.5 inches				
Water Chiller	•				

Additional options

Laser protective glasses	0	Voltage regulator (Including 10m power line)	0
Integrated compressed air system		laser fume filter (Made in China)	0
centrifugal fan		Security light curtains	0
iCleaner		BodorNest Tube	0
Bodor MES		BodorGenius T	×



Cutting Parameters

		1000W	1500W	2000W	3000W	6000W	12kW	15kW	22kW	30kW
	Thickness	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min
-	1	8.010	8.010	8.010	8.010	810	911	911	911	911
	3	4.55.5 2.43.0	4.55.5 2.53.4	4.06.0 3.04.0	5.57.5 3.0-4.0	57.5 3.55	57.5 3.55.5	57.5 3.55.5	57.5 3.55.5	57.5 3.55.5
	4	1.8-2.2	2.12.4	2.8-3.3	2.8-3.5	3.04.5	3.55	3.55	3.55	3.55
	5	1.6-1.8	2.02.5	2.22.8	2.6-3.2	3.04.2	3.34.8	3.34.8	3.34.8	3.34.8
	6	1.2-1.3	1.61.8	1.8-2.3	2.5-2.6	2.53.5	3.04.2	3.04.2	3.04.2	3.04.5
	8	0.6-0.8	1.01.2	1.2-1.7	1.6-1.8	2.23.2	2.53.8	2.53.8	2.53.9	2.53.9
	10		0.70.9	1.0-1.2	1.4-1.6	1.82.5	2.23.6	2.23.6	2.03.8	2.23.8
	12		0.70.8	0.8-1.0	1.0-1.4	1.22.1	1.23.5	1.23.6	1.63.8	1.6-3.8
'Carbon steel	14		0.50.7	0.6-0.85	0.8-0.9	1.21.8	1.73.3	1.53.5	1.53.8	1.6-3.8
(Q235A)	16 18			0.6-0.75	0.7-0.8 0.6-0.7	0.81.5 0.61.2	1.23.1 1.02.7	1.23.5 1.23.0	1.43.7 1.43.6	1.53.7 1.43.6
02"	20				0.5-0.6	0.50.8	0.62.4	1.22.7	1.53.5	1.53.5
	25					0.30.55	0.51.6	0.81.8	1.0-3.0	1.0-3.1
	30						0.31.0	0.61.4	0.82.2	1.2-2.6
	35						0.30.7	0.40.7	0.61.0	0.92.2
	40						0.20.4	0.30.5	0.51.1	0.8-1.7
	45						0.20.3	0.20.5	0.30.6	0.50.8
	50 60								0.20.6 0.20.5	0.40.6 0.20.4
	1	18-20	20-30	2450	30-55	4252	7085	72100	72100	72100
	2	5.0-7.0	8.0-16	9.0-17	12-30	2033	4066	4570	5075	5075
	3	2.2-4.0	3.0-5.5	4.0-7.0	6.0-10.0	1522	3545	3850	3855	3855
	4	1.2-2.3	1.5-3.2	3.2-4.0	4.0-6.0	1015	2032	2535	2533	30-35
	5		0.7-1.5	2.0-2.7	3.05.0	7.012	1825	2030	2230	2532
	6		0.7-1.3	1.2-1.8	2.0-3.2	4.89.0	1215	15.025.0	1725	18-26
	8			0.7-1.2	1.0-1.8	3.04.0	812	8.012.0	1218	15-20
	10				0.5-0.85	1.62.5	6.08.0	6.010.0	8.012.0	1215
	12				0.4-0.5	0.81.5 0.61.2	4.05.5 3.05.0	4.06.0 3.55.5	6.09 5.07.0	812 610.5
Stainless steel	14 16					0.51.0	2.22.8	2.53.0	3.05.0	59
(201)	18					0.40.8	1.22.0	1.22.2	1.84.2	36.5
N2"	20					0.30.6	1.01.6	1.31.8	1.53.3	24.7
	25						0.50.8	0.61.2	1.52.0	1.8-2.5
	30						0.30.6	0.51.0	1.01.5	1.51.8
	35						0.30.5	0.40.8	0.40.8	1.0-1.5
	40						0.30.5	0.30.6	0.30.6	0.6-1.3
	45							0.20.5	0.20.6	0.8-1.0
	50 60							0.10.5 0.10.2	0.20.5 0.1-0.3	0.25-0.5 0.2-0.3
	70							0.10.2	0.1-0.5	0.17-0.3
	80									0.15-0.3
	1	8-10	10-15	15-25	25-30	4255	6085	70100	70100	70100
	2	2.8-3.6	5.0-7.0	7-10	13-20	2040	3850	4055	4070	4070
	3	0.7-1.1	2.0-2.6	4.0-8.0	6.5-7.5	1525	3040	3545	3560	3560
	4		1.0-1.4	2.5-3.0	3.5-5.0	9.512	2030	3040	3043	3045
	5		0.5-0.7	1.2-2.5	2.5-3.5	5.08.0	1525	2030	2235	22340
	6			0.6-0.9	1.5-2.5	3.85.0	1015	1524	1828	1832
	8				0.7-1.0	2.02.5	7.012	8.012.0	1220	1223
"Aluminum	10					1.01.5	4.58.0	5.0-9.0	7.012.0	7.016
N2"	12 14					0.81.3 0.91.2	4.05.0 1.82.7	4.06.0 2.5-3.2	4.56.5 3.04.0	4.512 3.08.0
	16					0.50.8	1.52.5	2.03.0	2.53.5	2.56
	18					0.50.7	1.01.8	1.51.9	1.82.2	1.82.2
	20					0.50.7	0.91.5	1.31.8	1.52.0	1.52.0
	25						0.60.9	0.61.2	0.81.5	0.81.5
	30						0.30.8	0.51.0	0.61.2	0.61.2
	35						0.30.6	0.30.8	0.40.9	0.40.9
	40						0.30.4	0.30.5	0.30.5	0.40.6
	1	6.010	8.013	10-16	2030	3545	5565	60-70	65-75	65-75
	2	2.8-3.2	3.04.5	5.06.0	6.010	2030	3842	4045	4060	4060
	3		1.52.5	2.57.0	3.08.0	1218	1830	2035	25-40	25-40
	4		0.8-1.2	1.8-3.0	2.5-4.0	8.012.0	1520	1830	2035	2035
	5				1.52.0 1.01.8	6.08.0	1015 6.08.0	1520 815	2028 1220	2030 1222
	8				1.01.8	3.06.5 1.62.2	5.07.0	815	9.012	9.015
"Brass	10					0.81.2	4.56.0	5.06.5	6.010	6.013
N2"	12					0.30.5	2.44.0	2.84.2	3.04.5	5.010
	14						0.81.5	1.01.8	1.84.0	3.07.0
	16						0.61.2	0.81.5	1.53.0	1.53.0
	18						0.40.6	0.60.8	1.02.5	1.22.5
	20							0.40.6	0.42.0	1.22.0
	25								0.30.5	0.50.8
	30									0.40.6

For more information, please go to the website: www.bodor.com

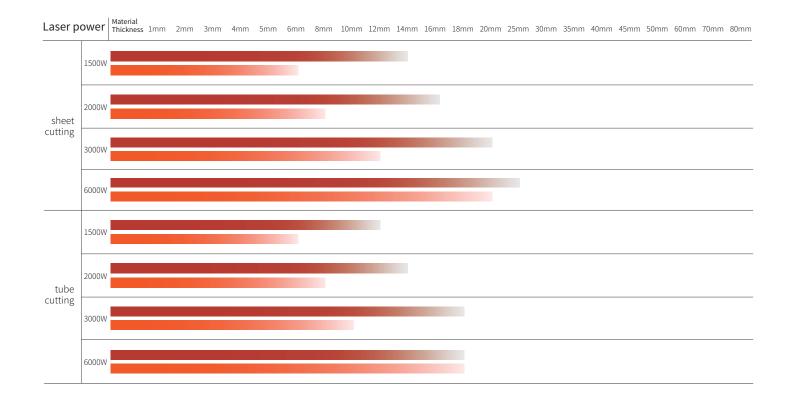


Tube Cutting Parameters

		1000W	1500W	2000W	3000W	6000W	12kW
	Thickness (mm)	speed m/min					
	1	1215	1719	1620	1821	1821	1821
	2	57	68	810	1012	15-20	15-20
	3	23	2.53.5	3.04.8	3.55	3.85.5	46
	4	22.4	2.32.8	2.83.5	33.8	3.24.3	3.34.5
	5	11.6	1.82.4	2.53	2.63.2	34	3.54.3
	6	1.11.4	1.41.8	1.82.2	1.92.4	2.53.5	2.74
Carbon steel	8	0.81.1	11.4	1.41.8	1.62	23	2.53.5
	10	0.60.9	0.81.1	1.01.3	1.21.6	1.32.2	1.82.5
	12	0.60.7	0.60.9	0.81	0.91.3	1.21.7	1.52
	14		0.50.6	0.60.7	0.81	0.91.3	1.21.8
	16				0.60.9	0.61.1	11.5
	18				0.50.6	0.50.7	0.81
	20						0.50.8
	1	1216	1520	2024	2328	2328	2328
	2	79	912	1015	1418	2022	2022
	3	22.5	23	34	4.25.4	810	812
	4	0.60.9	1.21.5	23	2.83.6	912	1214
	5		0.60.9	1.21.6	1.82.4	68	79
	6		0.50.6	0.81.1	11.5	45.5	68
Stainless steel	8			0.50.6	0.81.2	23	34
	10				0.40.6	11.5	1.52.5
	12					0.51	12
	14					0.40.7	0.81.5
	16					0.20.4	0.61
	18					0.20.4	0.60.8
	20						0.40.5



Cutting Capacity





Above data is only for reference



Cutting Samples

















