

SERIES

COMPACT LASER CUTTING MACHINE

(1.5kW-12kW)



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.

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

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





SMALL IN SIZE, MORE IN FLEXIBILITY



- The compact design with small space occupation
- Full enclosed protection and isolated work area completely isolate smoke and laser radiation.
- Single-phase power supply can ensure the normal operation of equipment, which makes it more convenient to connect, it could work in various places.



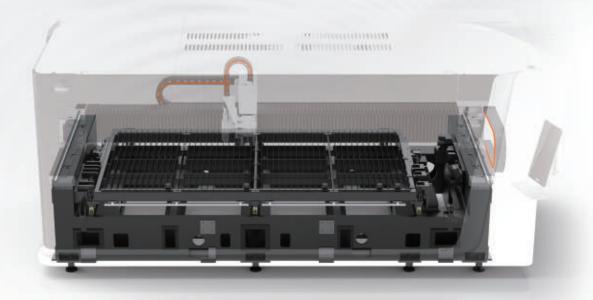
SELF-DEVELOPED CONTROL SYSTEM



- Bodor Laser independent research and development system, perfect combination with BodorGenius laser head, brings to customers upgraded cutting technology and efficiency.
- BodorThinker
 - Integration of CAD and CAM can directly identify drawings and nest
 - Good adaptability, support G code(NC). DXF. PLT. ENG and other file formats
 - The newly added batch processin function, in conjunction with the processing database, makes it more convenient in batch cutting.
 - The updated CAM logic and more open CAM function make it more convenient to change drawings, use more comprehensively, and easier to cut.



INTELLIGENT FUNCTIONS



Automatic lubrication system

• Automatic lubrication system provides timing and ration lubricating oil for equipment to ensure its normal and high speed operation, and owns functions of abnormal alarm and liquid level alarm. The system greatly enhances cutting accuracy and effectively extends service life of transmission mechanism.

Intelligent travel protection

• Automatically monitor operation range of crossbeam and cutting parts, keeping operation within machining range. Double guarantees of fixed limitation greatly improve equipment and personal safety, minimizing the using risks.



INTELLIGENT FUNCTIONS

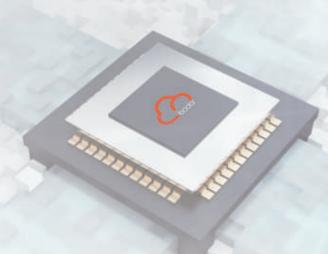


A new generation of safety following module

• Laser head keeping distance with work piece in cutting process can reduce collision risks. It will stop cutting when colliding plate. The safety following module reduces accident rate and improves cutting performance.



INTELLIGENT FUNCTIONS



Intelligent alarm system

- The system will start full abnormal alarm and push it to the interface through control center when equipment is abnormal.
- Finding equipment abnormal in advance and reducing hidden dangers can multiply improve the equipment troubleshooting efficiency.

Various intelligent sensor modules

• Various intelligent sensor modules to improve safety and device protection



ELECTRIC VERTICAL DOOR & PULL-OUT TABLE



- Side door design; Easy, fast opening and closing with just one finger's press
- The new manual pull-out table design and optional electric table make operation experience fresh and satisfying. (Available only for 17)



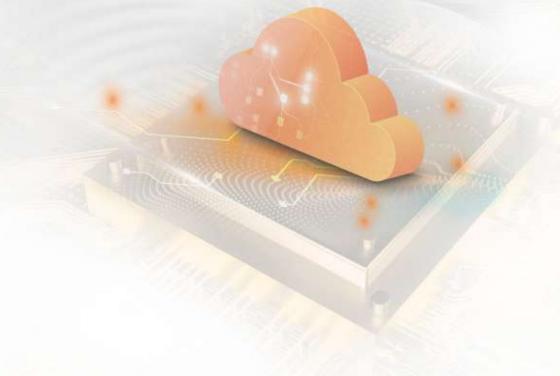
STRETCHED ALUMINUM GANTRY(i5)



- Integral pressure casting by steel mold makes it light, flexible and efficient
- The light weight and strong rigidity of aluminum alloy are suitable for high speed movement during processing, and the high flexibility is beneficial to high-speed cutting of various graphics.
- Light crossbeam offers high operation speed, improving efficiency and ensuring quality.



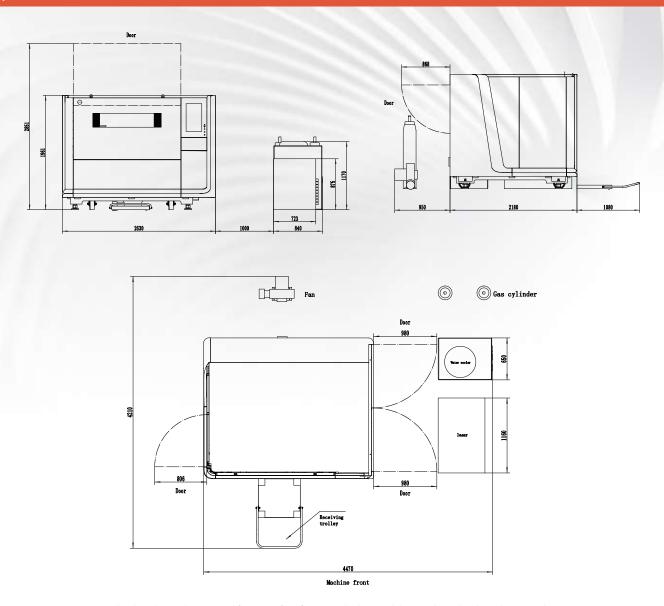
BODOR CLOUD



- 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	i7	i5
Working area	3048*1524mm	1000*1500mm
Max. linkage speed	100m/min	100m/min
Max. acceleration	1.5G	1.5G
Table load bearing	900kg	250kg
Machine overall dimensions	4955×2320×2200	2820×2180×1995
Overall weight	4980kg	2000kg
Z axis travel	120mm	100mm
Positioning accuracy	±0.05mm	±0.05mm
Repositioning accuracy	±0.03mm	±0.03mm
Total power capacity/current with 12kW source	96.1kVA 146.1A	×
Total power capacity/current with 6kW source	57.5kVA 87.3A	49.3KVA/75A
Total power capacity/current with 3kW source	51.1KVA/77.7A	43KVA/65.3A
Total power capacity/current with 2kW source	50.1KVA/76.2A	42KVA/63.8A
Total power capacity/current with 1.5kW source	39.8KVA/60.4A	single-phase: 31.6KVA/143.8A three-phase: 30.8KVA/48.1A

Configuration And Components

laser head	Bodor Genius				
Laser source	Bodor Thinker				
Machine bed	Mortise-and-tenon type plate welded segmented bed				
Bed functions	Easy-access sliding bed	Stationary bed (optional pneumatic sheet-clamping)			
X-axis、Y-axis、Z-axisServo motor and driver	Bodor				
Linear Rails	Bodor				
Rack	Bodor				
Protective Enclosure	•				
Control system	BodorThinker				
Display size	21.5 inches				
Water Chiller		•			
Dust removal	Centrifugal fan				

Additional options

Laser protective glasses	0	Voltage regulator (Including 10m power line)	0
Integrated compressed air system		laser fume filter (Made in China)	0
125mm focus distance laser head (3-4kw)		Nitrogen proportional valve	0
Electric countertop	i7()	BodorNest	0
Bodor MES		Mixed gas cutting function	0
security light curtains		Double pneumatic clamping table	i5O

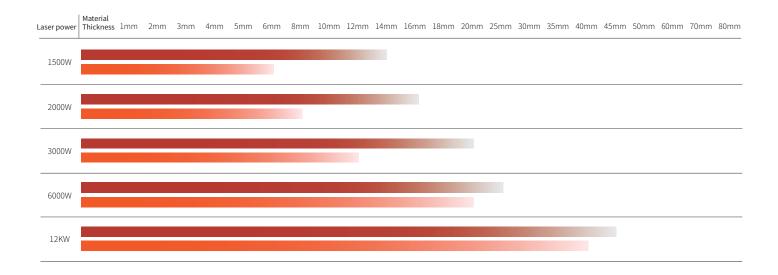


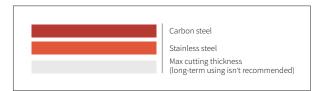
Cutting Parameters

		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
	2	4.55.5	4.55.5	4.06.0	5.57.5	57.5	57.5	57.5	57.5	57.5
	3	2.43.0	2.53.4	3.04.0	3.0-4.0	3.55	3.55.5	3.55.5	3.55.5	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 6	1.6-1.8 1.2-1.3	2.02.5 1.61.8	2.22.8 1.8-2.3	2.6-3.2 2.5-2.6	3.04.2 2.53.5	3.34.8 3.04.2	3.34.8 3.04.2	3.34.8 3.04.2	3.34.8 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	0.0-0.8	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) O2"	16			0.6-0.75	0.7-0.8	0.81.5	1.23.1	1.23.5	1.43.7	1.53.7
	18				0.6-0.7	0.61.2	1.02.7	1.23.0	1.43.6	1.43.6
	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 40						0.30.7 0.20.4	0.40.7 0.30.5	0.61.0 0.51.1	0.92.2 0.8-1.7
	45						0.20.3	0.20.5	0.30.6	0.50.8
	50						0.2 0.3	0.2 0.5	0.20.6	0.40.6
	60								0.20.5	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	4.05.5	4.06.0	6.09	812
"Stainless steel	14					0.61.2 0.51.0	3.05.0 2.22.8	3.55.5 2.53.0	5.07.0 3.05.0	610.5 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					0.0 0.0	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							0.10.5	0.20.5	0.25-0.5
	60							0.10.2	0.1-0.3	0.2-0.3
	70									0.17-0.3
	80	0.40	40.45	45.05	05.00	40.55	00.05	70.400	70.400	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 4	0.7-1.1	2.0-2.6 1.0-1.4	4.0-8.0 2.5-3.0	6.5-7.5 3.5-5.0	1525 9.512	3040 2030	3545 3040	3560 3043	3560 3045
	5		0.5-0.7	1.2-2.5	2.5-3.5	5.08.0	1525	2030	2235	22340
	6		0.5-0.1	0.6-0.9	1.5-2.5	3.85.0	1015	1524	1828	1832
	8			0.0 0.5	0.7-1.0	2.02.5	7.012	8.012.0	1220	1223
II A La constitue com	10				3.1 1.0	1.01.5	4.58.0	5.0-9.0	7.012.0	7.016
"Aluminum	12					0.81.3	4.05.0	4.06.0	4.56.5	4.512
N2"	14					0.91.2	1.82.7	2.5-3.2	3.04.0	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
"Brass N2"	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	6.08.0	1015	1520	2028	2030
	6				1.01.8	3.06.5	6.08.0	815	1220	1222
	8					1.62.2	5.07.0	8.010.0	9.012	9.015
	10					0.81.2	4.56.0	5.06.5	6.010	6.013
	12 14					0.30.5	2.44.0 0.81.5	2.84.2 1.01.8	3.04.5 1.84.0	5.010 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						0.1-0.0	0.40.6	0.42.0	1.22.0
	25								0.30.5	0.50.8



Cutting Capacity





Above data is only for reference

Cutting Samples





















