

K SERIES

TUBE LASER CUTTING MACHINE

1kW-6kW





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

200+

R&D Team

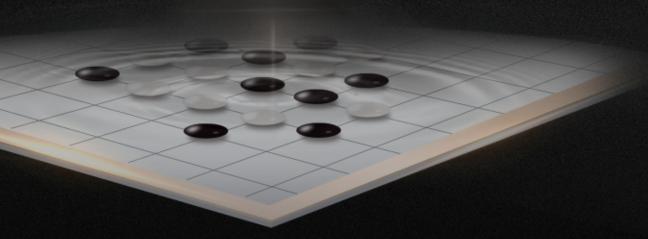
Patents

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





SMALL AND SMART



- Compact design, easy to operate, specially tailored for new users in the market
- Customized sheet metal material, stable and durable, high space utilization
- Widely used in different industries, such as guardrails, fitness equipment, shelves, crafts processing, small home appliances, and lighting etc.



BODORTHINKER

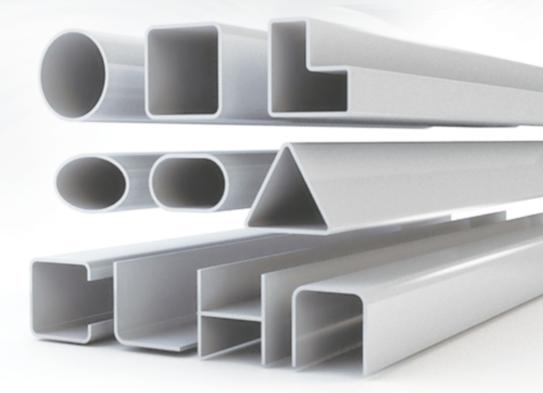


Advantages

• 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.



APPLICABLE FOR VARIABLE TYPES OF TUBE



- K Series is applicable for different kinds of tubes, such as round, square, rectangle, triangle, I-beam etc.
- The dedicated control system of tube cutting machine integrated with the most advanced technology, can cut angle steel and channel steel directly without nesting and zero-returning.



BODORNEST TUBE



Advantages

• The system, presenting convenient layout and processing all the time even when offline, applies to groove steel, I-shaped steel, and other special-shaped tubes and is accessible for third-party machine tools.



AUTOMATIC TUBE DETECTION



Advantages

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



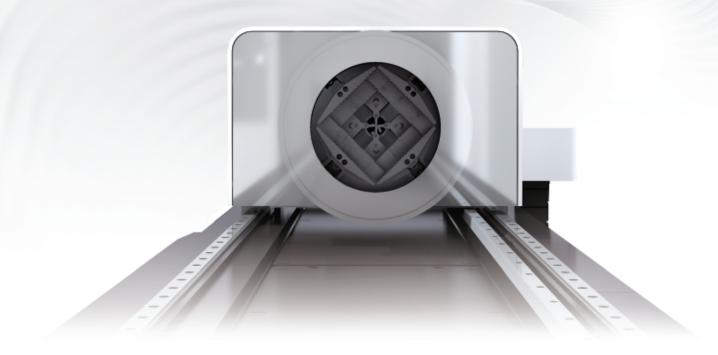
BodorGeniusT

• The specialized design of slender nozzle allows the machine to avoid interference and cut various types of tubes.





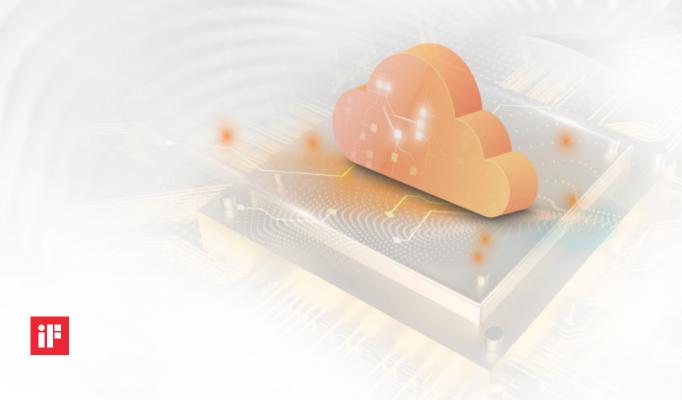
PNEUMATIC CHUCK



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

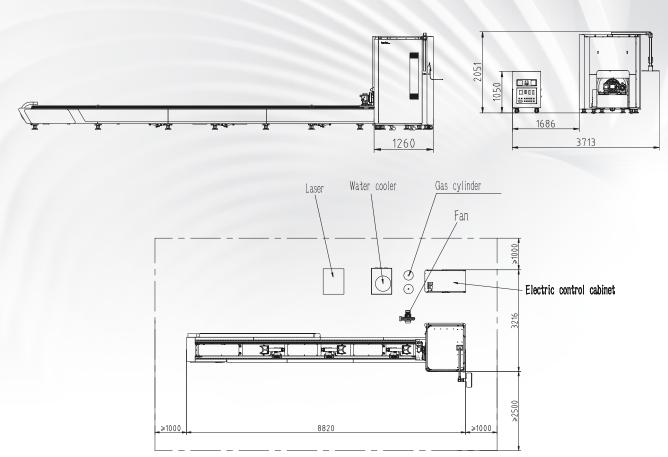


BODOR CLOUD



- 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





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





Technical Data

ITEM	K350	K230	K120		
Tube cross-sectional shape	Round, square, rectangular, oval, rounded rectangular, Angle steel, channel steel and other tubes				
Tube size range	Round tube: φ20-φ350mm Square tube: □20-□250mm Rectangular tube: 300mm≥Side length≥20mm Circumscribed circle diameter≤350mm	Round tube: φ20-φ230mm Square tube: □20-□230mm Rectangular tube: 170mm≥Side length≥20mm, Circumscribed circle diameter≤230mm	Round tube: φ10-φ120mm Square tube: □10-□110mm Rectangular tube: 120mm≥Side length≥10mm Circumscribed circle diameter≤165mm		
Maximum machinable tube length	6300mm	6300mm	6500mm		
Maximum tube weight	300Kg 50kg/m	200Kg 33.4Kg/m	80Kg 13.3Kg/m		
Max. Chuck rotating speed	75r/min	75r/min	130r/min		
X axis maximum speed	30m/min	30m/min	100m/min		
Y axis maximum speed	60m/min	60m/min	60m/min		
X maximum acceleration	1G	1G	0.8G		
Y maximum acceleration	1G	1G	0.8G		
Z axis maximum speed	≥50m/min	≥50m/min	≥60m/min		
Dimensions	8820×3500×2100mm	8800×3200×2100mm	8649×1398×1811mm		
Overall weight	3650kg	3450kg	1730kg		
Positioning accuracy	0.05mm	0.05mm	0.05mm		
Repositioning accuracy	accuracy 0.03mm		0.03mm		
Total power capacity/current with 6KW source	51.5KVA/78.2A	50KVA/76A	45.5KVA/69A		
Total power capacity/current with 3KW source	35.8KVA/54.3A	34.5KVA/52.5A	31.2kVA/47.4A		
Total power capacity/current with 2KW source	27KVA/41.1A	25.6KVA/39A	22.5kVA/34.18A		
Total power capacity/current with 1.5KW source	33.3KVA/50.5A	32KVA/48.5A	28.7kVA/43.6A		

Configuration And Components

laser head	Bodor Genius T			
Laser source	Bodor Power			
Chuck	pneumatic chuck			
Waste Trolley		×		
Standard tube support holder	•			
Linear Rails	bodor			
Rack	bodor			
X-axis、Y-axis、Z-axisServo motor and driver	Bodor			
Control system	Bodor Thinker			
Display size	21.5 inches			
Water Chiller	•			
Dust removal	Centrifugal fan Centrifugal fan × K120(GB)			

Additional options

Blanking support (tube)	○K120、K230	Integrated compressed air system	0
BodorNest Tube		Electric cabinet with air conditioner	○K120
T-Loader eco	○K120、K230	Adding air conditioner for laser source	0
T-Loader eco	0	Bodor MES (Digital Factory Management System)	0

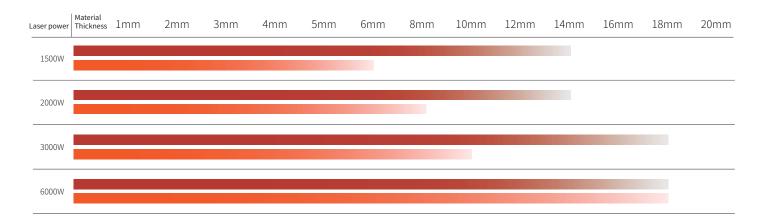


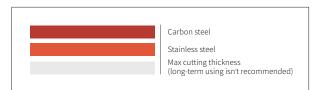
Tube Cutting Parameters

		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
Stainless steel	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
	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

