

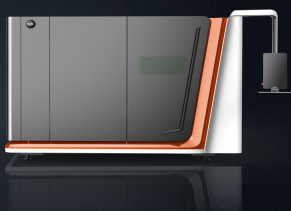


## FIBER LASER CUTTING MACHINE

P4 photo

Laser Power

12kw



Freight&Tariff

Included

Installation & Training Cost

Included

Transportation

By Sea

Items included

Safety light curtain;  
Flow box & laser head filter;  
Air Compressor;  
Fume Filter with Spark Arrester;  
Bodor Nesting software;  
Consumable package;  
On-site installation, commissioning and training;  
One year on-site service.

Loading Container

1\*40'FR

Warranty

Five years warranty for laser head/laser source/laser software;  
Three years warranty for whole machine;  
One year free labor.

### Basic Parameter

Working area

4000mm\*2000mm ( $\approx 13' \times 6.5'$ )

Max. linkage speed

200m/min (656'/min)

Intelligent Function	
One-click processing	Yes
Visual collision detection	Yes
Remnant Typesetting	Yes
One-second edge search	Yes
Bodor Lightning perforation technology	Yes
High Speed Cutting Expert Database	Yes
Automatic nozzle changer	8 Nozzles
Automatic nozzle cleaning	Yes
Touchscreen Display	Yes
Air pressure intelligent control	12KW and above
Automatic adjustment of cutting gas pressure	O <sub>2</sub> 、N <sub>2</sub> 、air
Gas filtration alarm device	12KW and above
Auto-focus of laser head	Yes
Laser cutting technology expert database	Yes
Ergonomic Remote Control (Bodor Mango®)	Yes
Active anti-collision function	Yes
Intelligent over-heat adaptation	12KW and above
Intelligent anti-shake	Yes
High quality Cutting Expert Database	Yes
Mineral casting anti burning	Yes
Anti-slag Protection	Yes
Gas-saving steady flow nozzle	Yes
Intelligent maintenance reminder	Yes
WIFI internet connection	Yes
Bodor Cloud sevice	Yes

## Performance

Requirements for sheet	Plate thickness $\geq$ 0.8mm
Max. acceleration	4.0G
Table load bearing	2510kg
Machine overall dimensions	11599mm*3380mm*2718mm
Overall weight	9090kg
Z axis travel	370mm ( $\approx$ 14.6")
Positioning accuracy	$\pm$ 0.05mm/m
Repositioning accuracy	0.03mm
$\Phi$ 30mm roundness	$\leq$ 0.15mm
<input type="checkbox"/> 30mm adjacent side dimension difference	$\leq$ 0.06mm
<input type="checkbox"/> 190mm adjacent side dimension difference	$\leq$ 0.15mm
<input type="checkbox"/> 190mm diagonal size difference	$\leq$ 0.20mm

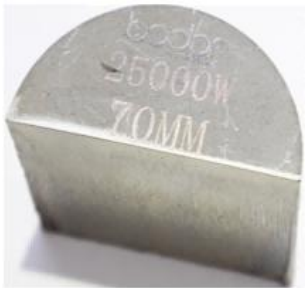
## Configuration

Laser source	BodorPower
Laser head	Bodor Genius
Machine bed	Tenon and mortise structure bed
Gantry Structure	Stretched Aluminum gantry
Linear Rails	Bodor
Rack	Bodor
X-axis、Y-axis、Z-axis、A-axis Servo motor and driver	Bodor
Protective Enclosure	Yes
Enhanced-partition Dust Removal	Yes
Control system	BodorThinker
Display size	21.5 inches
Door-open Protection	Yes
Intelligent alarm	Yes
Water Chiller	Yes
Centrifugal fan	Yes
Power Requirements	220V/440V/480V 60HZ 3PHASE (Up to Clients Power Requirement)
Total power capacity/current with 12KW source (380V)	54.54.3KW/103.3KW/103.1A (Rated) 31.1A (Rated) 31.9kWh (Average Power Consumption)

P4 Photo



Cutting Samples



## Key Configuration Photos



**Mortise-and-tenon welding structure machine bed**



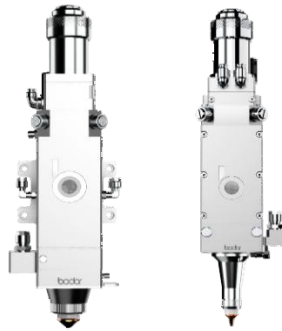
**Stretched Aluminum Gantry**



**21.5 inches Display**



**BodorPower Laser Source**



**BodorGenius Laser Cutting Head**



**BodorThinker Control System**



**Air Compressor (Optional)**



**Fume Filter (Optional)**



**Automation (Optional)**



## Cutting Parameters

		Power	Thickness (mm)	1	2	3(1/8")	4	5	6(1/4")	8	10	12(1/2")	14	16	18	20	25(1")	30	35	40	45	50(2")	60	70	80	90	100(4")	110
Carbon steel (Q235A) Q2	speed m/min	50kw		9-11	5-7.5	3.5-5.5	3.5-5	3.3-4.8	3-4.5	2.5-3.6	2.2-2.8	1.6-2.1	1.6-2.0	1.5-2.0	1.4-2.0	1.5-1.9	1.0-1.6	1.1-1.4	0.9-1.1	1.0-1.2	0.9-1.1	0.6-1.0	0.4-0.8	0.3-0.5	0.2-0.3	0.2-0.3	0.1-0.2	
		30kw		9-11	5-7.5	3.5-5.5	3.5-5	3.3-4.8	3-4.5	2.5-3.6	2.2-2.8	1.6-2.1	1.6-2.0	1.5-2.0	1.4-2.0	1.5-1.9	1.0-1.6	1.1-1.4	0.9-1.1	0.8-1.0	0.5-0.9	0.4-0.8	0.2-0.6	0.2-0.3	0.2-0.3	0.1-0.2		
		22kw		9-11	5-7.5	3.5-5.5	3.5-5	3.3-4.8	3.0-4.2	2.5-3.5	2.0-2.7	1.6-2.1	1.5-2.0	1.4-2.0	1.4-2.0	1.5-1.9	1.0-1.6	0.8-1.4	0.6-1	0.5-0.9	0.3-0.5	0.2-0.5	0.2-0.3	0.1-0.3				
		12kw		9-11	5-7.5	3.5-5.5	3.5-5	3.3-4.8	3.0-4.2	2.5-3.5	2.2-2.7	1.2-2.1	1.7-1.9	1.2-1.7	1.0-1.8	0.6-1.5	0.5-1.2	0.3-1.0	0.3-0.7	0.2-0.4	0.2-0.3	0.15-0.25						
		6000W		8-10	5-7.5	3.5-5	3.0-4.5	3.0-4.2	2.5-3.5	2.2-3.2	1.8-2.5	1.2-2.1	1.2-1.8	0.8-1.5	0.6-1.2	0.5-0.8	0.3-0.55	0.2-0.3										
		3000W		8.0-10	5.5-7.5	3.0-4.0	2.8-3.5	2.6-3.2	2.5-2.6	1.6-1.8	1.4-1.6	1.0-1.4	0.8-0.9	0.7-0.8	0.6-0.7	0.5-0.6												
		Power	Thickness (mm)	1	2	3(1/8")	4	5	6(1/4")	8	10	12(1/2")	14	16	18	20	25(1")	30	35	40	45	50(2")	60	70	80	90	100(4")	110
Stainless steel (201) #2	speed m/min	50kw		72-100	60-75	45-65	35-45	30-35	25-30	25-30	18-22	16-18	11-15	11-13	9-11	8-10	6-7	4-5	2.8-3.5	2-2.5	1-1.5	0.6-1	0.4-0.6	0.35-0.5	0.2-0.4	0.2-0.3	0.1-0.2	0.1-0.2
		30kw		72-100	50-75	38-55	30-40	25-32	20-29	15-20	12-17	9-14	7-11	5-9	3-8	3-7	2-4.5	1.5-3.2	1.0-1.5	0.8-1.7	0.6-1.0	0.25-0.5	0.2-0.3	0.17-0.3	0.15-0.3	0.1-0.2	0.07-0.1	0.07-0.1
		22kw		72-100	50-75	38-55	25-35	24-32	20-25	15-19	10-13.5	8.0-10	6.0-8.5	4.0-6.0	3.0-3.5	2.0-3.0	1.5-2.2	1.2-1.5	0.4-0.8	0.3-0.6	0.2-0.6	0.2-0.5	0.1-0.3	0.1-0.3	0.1-0.3	0.1-0.2		
		12kw		70-85	40-66	35-45	20-32	18-25	12-15	8-12	6.0-8.0	4.0-5.5	3.0-5.0	2.2-2.8	1.2-2.0	1.0-1.6	0.5-0.8	0.3-0.6	0.3-0.5	0.3-0.5	0.2-0.4	0.1-0.2						
		6000W		42-52	20-33	15-22	10-15	7.0-12	4.8-9.0	3.0-4.0	1.6-2.5	0.8-1.5	0.6-1.2	0.5-1.0	0.4-0.8	0.3-0.6	0.2-0.4											
		3000W		30-55	12-30	6.0-10.0	4.0-6.0	3.0-5.0	2.0-3.2	1.0-1.8	0.5-0.85	0.4-0.5																
		Power	Thickness (mm)	1	2	3(1/8")	4	5	6(1/4")	8	10	12(1/2")	14	16	18	20	25(1")	30	35	40	45	50(2")	60	70	80	90	100(4")	
Aluminum #2	speed m/min	50kw		70-100	40-70	35-60	30-45	22-35	18-32	12-23	7-16	4.5-12	3-8	2.5-6	1.8-2.2	1.5-2	0.8-1.5	0.6-1.2	0.4-0.9	0.4-0.6	0.4-0.5	0.3-0.4	0.2-0.4	0.1-0.3	0.1-0.3	0.1-0.2	0.1-0.2	
		30kw		70-100	40-70	35-60	30-45	22-35	18-32	12-23	7-16	4.5-12	3-8	2.5-6	1.8-2.2	1.5-2	0.8-1.5	0.6-1.2	0.4-0.9	0.4-0.6	0.4-0.5	0.3-0.4	0.2-0.4	0.1-0.3	0.1-0.3	0.1-0.2	0.1-0.2	
		22kw		70-100	40-70	35-60	30-43	22-35	18-28	12-20	7.0-12.0	4.5-6.5	3.0-4.0	2.5-3.5	1.8-2.2	1.5-2.0	0.8-1.5	0.6-1.2	0.4-0.9	0.3-0.5	0.3-0.4	0.2-0.4	0.2-0.4	0.1-0.3				
		12kw		60-85	38-50	30-40	20-30	15-25	10-15	7.0-12	4.5-8.0	4.0-5.0	1.8-2.7	1.5-2.5	1.0-1.8	0.9-1.5	0.6-0.9	0.3-0.8	0.3-0.6	0.3-0.4	0.2-0.3	0.1-0.2						
		6000W		42-55	20-40	15-25	9.5-12	5.0-8.0	3.8-5.0	2.0-2.5	1.0-1.5	0.8-1.3	0.9-1.2	0.5-0.8	0.5-0.7	0.5-0.7	0.3-0.5											
		3000W		25-30	13-20	6.5-7.5	3.5-5.0	2.5-3.5	1.5-2.5	0.7-1.0																		
		Power	Thickness (mm)	1	2	3(1/8")	4	5	6(1/4")	8	10	12(1/2")	14	16	18	20	25(1")	30	35	40	45	50(2")	60	70	80	90	100(4")	
Brass #2	speed m/min	50kw		65-75	40-60	30-45	25-38	22-31	15-25	12-18	8-14	5-10	4.5-8.5	4-8.5	3-5.5	2-4	1.5-3	1-1.5	0.5-1	0.5-0.8								
		30kw		65-75	40-60	30-45	25-38	22-31	15-25	12-18	8-14	5-10	4.5-8.5	4-8.5	3-5.5	2-4	1.5-3	1-1.5	0.5-1	0.5-0.8								
		22kw		65-75	40-60	25-40	20-35	20-28	12-20	9.0-12	6.0-10	3.0-4.5	1.8-4.0	1.5-3.0	1.0-2.5	0.4-2.0	0.3-0.5	0.2-0.4	0.1-0.2									
		12kw		55-65	38-42	18-30	15-20	10-15	6.0-8.0	5.0-7.0	4.5-6.0	2.4-4.0	0.8-1.5	0.6-1.2	0.4-0.6	0.3-0.5												
		6000W		35-45	20-30	12-18	8.0-12.0	6.0-8.0	3.0-6.5	1.6-2.2	0.8-1.2	0.3-0.5	0.3-0.5															
		3000W		20-30	6.0-10	3.0-8.0	2.5-4.0	1.5-2.0	1.0-1.8																			

## Packing Photos



Packing in Factory



In Container



In Container Yard

## ABOUT BODOR

A company of over 2,000 people only focusing on fiber laser cutting machines.

Local Sales & Engineer Service team in American.

Over 150 backbone researchers only into laser field.

Bodor Super Factory covers over 60, 000 m<sup>2</sup>.

Exports of fiber laser cutting machine are No.1 in China.

Users of over 150 countries are happy with Bodor.

Bodor gains patents and certifications (CSA, cTUVus, CE, FDA, ISO 9001, BV, SGS, etc.)



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.

Won the China Red Star Design Award, National High-tech Zone Gazelle Enterprise in 2016.

International awards 10+; industry awards 50+; patent certificates 130+.



**Leading Manufacturer**

**World Brand**

**Honors**



Bodor China



Bodor USA

