

FIBER LASER CUTTING MACHINE

Laser Power

3kw

Centrifugal Fan	Included
Freight&Tariff	Included
Installation & Training Cost	Included
Transportation	By Sea
Loading Container	1*40'HQ
Payment Terms	30% down payment, 70% before shipment.
Warranty	Three years limited warranty for main parts. One year free labor.

Optional

Fume Filter	
Air Compressor	

Basic Parameter

Working area	6100mm*2500mm
Max. linkage speed	100m/min (328ft/min)
Tube size range	Round tube: $\phi 20-\phi 230\text{mm}$ Square tube : $\square 20-\square 230\text{mm}$ Rectangular tube: $230\text{mm} \geq \text{Side length} \geq 20\text{mm}$
Pneumatic chuck maximum load	200kg 33.4kg/m

Intelligent Function

Bodor Lightning perforation technology	Yes
High Speed Cutting Expert Database	Yes
Automatic adjustment of cutting gas pressure	6kW and below: O ₂ above 6kW: O ₂ , N ₂ , air
Automatic tube inspection	Edge-seeking, center-finding
Auto-focus of laser head	Yes
Laser cutting technology expert database	Yes
Ergonomic Remote Control (Bodor Mango®)	Yes
Active anti-collision function	Yes
Angle steel, channel steel cutting	Yes
High quality Cutting Expert Database	Yes
Anti-slag Protection	Yes
Mineral casting anti burning	Yes
Linear rail self-lubrication	Yes
Gas-saving steady flow nozzle	Yes
Automatic lubrication	Yes
Intelligent maintenance reminder	Yes

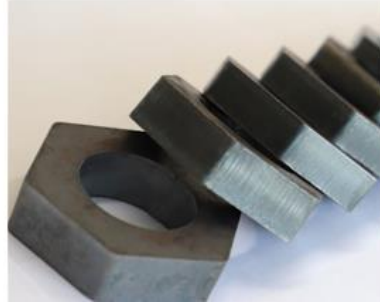
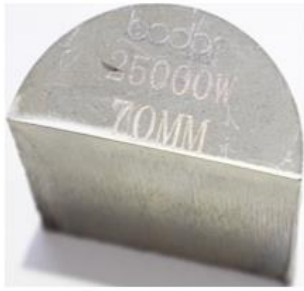
WIFI internet connection	Yes	
Bodor Cloud service	Yes	
Performance		
Operating parameters of board machine	Table load bearing	3000kg
	Machine overall dimensions	8641*4879*2103mm
	Overall weight	6000kg
	Z axis travel	100mm
	Max. acceleration	1.5G
	Positioning accuracy	±0.05mm/m
	Repositioning accuracy	±0.03mm
Operation parameters of pipe cutting	Requirements for tubes	Diameter < φ50mm Wall thickness of tubes ≥ 1.2mm; Diameter ≥ φ50mm Wall thickness ≥ 2.5% of Diameters of tubes
	Min. tube material surplus	150mm 520mm (Optional open type pipe special claw)
	W axis rotation angle	Unlimited n*360
	Max. rotational speed of W axis	60RPM
	A-T6U axis positioning accuracy	0.05mm
	A-T6U axis repositioning accuracy	0.03mm
	Z axis travel	315mm
	U axis maximum moving speed	25m/min
	<input type="checkbox"/> 20mm square position size difference	≤ 0.50mm
Configuration		
Laser source	Bodor Power	
Laser head	BodorGenius	
Machine bed	Mortise-and-tenon structure bed	
Chuck drive types	pneumatic chuck	
Max. length of tube	6m	
Linear Rails	Bodor	
Rack	Bodor	
X-axis, Y-axis, Z-axis, A-axis Servo motor and driver	Bodor	
Integral aluminum cantilever for high pressure steel mould casting	Yes	
Control system	Bodor Thinker	
Display size	21.5 inches	
Acceptable file formats, sheet cutting	G file, DXF, DWG, PLT, ENG	
Acceptable file formats, pipe/tube cutting	IGS	
Intelligent alarm	Yes	
Water Chiller	Yes	

Power Requirements	220V/440V/480V 60HZ 3PHASE (Up to Clients Power Requirement)
Total power capacity/current with 6KW source (380V)	50.6KVA/76.9A
Total power capacity/current with 3KW source (380V)	44.3KVA/67.2A

A6T Plus 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)	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) O2	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												
Stainless steel (201) N2	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																
Aluminum N2	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																		
Brass N2	50kW	65-75	40-60	30-45	25-38	22-31	15-25	12-18	8-14	5-10	4.5-8.5	4-6.5	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	4-6.5	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 m².

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

Users of over 150 countries are happy with Bodor.

Leading Manufacturer

World Brand

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+.



Honors

Bodor China



Bodor USA

