



FIBER LASER CUTTING MACHINE

P3 photo	Laser Power	
	12kw	
Freight&Tariff	Included	
Installation & Training Cost	Included	
Transportantion	By Sea	
Loading Container	2*40'HQ	
Payment Terms	30% down payment, 70% before shipment.	
Warranty	Three years limited warranty for main parts. One year free labor.	
Optional		
iTrans (Automation)		
Fume filter		
Air Compressor	For 6kw laser	
	For 12kw laser	
Basic Parameter		
Working area	3048mm*1524mm (5'x10')	
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	6KW below: O ₂ 6KW and above: O ₂ , N ₂ , 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 service	Yes
Performance	
Requirements for sheet	Plate thickness ≥ 0.8mm
Max. acceleration	4.0G
Table load bearing	1090kg (3kw) 1450kg (≥ 6kw)
Machine overall dimensions	8840mm*2240mm*2520mm (≈ 29'x7.3'x8.3')
Overall weight	6500kg
Z axis travel	350mm (≈ 14")
Positioning accuracy	±0.05mm/m
Repositioning accuracy	0.02mm
Φ30mm roundness	≤ 0.15mm
□30mm adjacent side dimension difference	≤ 0.06mm
□190mm adjacent side dimension difference	≤ 0.15mm
□190mm diagonal size difference	≤ 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 60KW source (380V)	326.8KVA/496.5A
Total power capacity/current with 30KW source (380V)	192.3KVA/292.1A
Total power capacity/current with 24KW source (380V)	157.3kVA/238.9A
Total power capacity/current with 22KW source (380V)	149.8KVA/227.5A
Total power capacity/current with 12KW source (380V)	102.3KVA/155.4A
Total power capacity/current with 6KW source (380V)	63.6KVA/96.6A
Total power capacity/current with 3KW source (380V)	59.1KVA/89.8A
iTrans	
Working area	3000mm*1500mm (9.84' x 4.92')
Automatic Material Splitting	Yes
Adjustable suction cup frame	Yes
Material height identification	Yes
Bed position detection	Yes
Detection function of sheet metal	Yes
Automatic loading	Yes
Automatic blanking	Yes
Host security interlock	Yes
Table exchange interlock	Yes
Thickness measuring device	Yes
Intelligent Sheet Corner Separation	Yes
Maximum thickness of feeding plate	25mm (\approx 1")
Number of laser cutting (host) machines connected	1
Maximum feeding plate size	3000mm*1500mm (9.84' x 4.92')
Minimum loading sheet size	1000mm*1000mm (\approx 3.3'x3.3')
Maximum loading weight	900Kg
Minimum thickness of the feeding plate	0.8mm
Finished product trolley maximum load	3T

Maximum height of finished sheet	260mm (≈10")
V-type guide mechanism for whole process	Yes
Module dimensions	10000mm*8500mm*2600mm (≈32.8'x27.9'x8.5')
Total power capacity/current (380V)	11.25KVA/17.1A
Weight	4800kg
Continuous reloading time	110s
Operation method	Touch screen operation

P3 Photo





iLoader



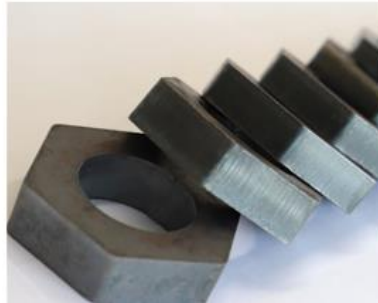
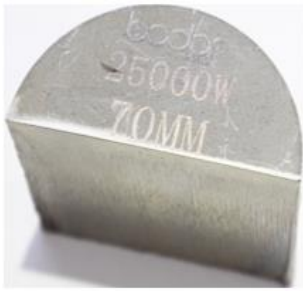
iTrans



iTrans Tower



Cutting Samples



Key Configuration Photos



Mortise-and-tenon welding structure machine bed

Stretched Aluminum Gantry

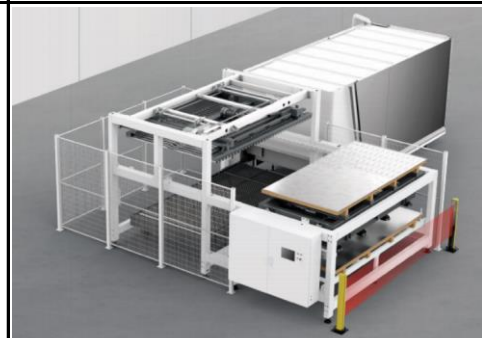
21.5 inches Display



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	50kw	speed m/min	9-11	5-7.5	3.5-6.5	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	3.5-6.5	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	3.5-6.5	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	3.5-6.5	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	50kw	speed m/min	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")	110
Aluminum #2	50kw	speed m/min	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	4.5-6.0	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")	110
Brass #2	50kw	speed m/min	65-75	40-60	30-45	25-38	22-31	15-25	12-18	8-14	5-10	4.5-6.5	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	4.5-6.5	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	3.0-6.0	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

