

FIBER LASER CUTTING MACHINE

Laser Power	
3kw	
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

K-Loader2-65 (Automation)	
K-Trans2-65 (Automation)	
Fume Filter	
Air Compressor	

Basic Parameter

Tube cross-sectional shape	Round, square, rectangular, oval, rounded rectangular, Angle steel, channel steel and other tubes
Tube size range	Round tube: $\varphi 8 - \varphi 230\text{mm}$ Square tube: $\square 8 - \square 230\text{mm}$ Rectangular tube: $230\text{mm} \geq \text{Side length} \geq 8\text{mm}$ I-beam: 10#-14#
Maximum machinable tube length	6500mm ($\approx 21'$)

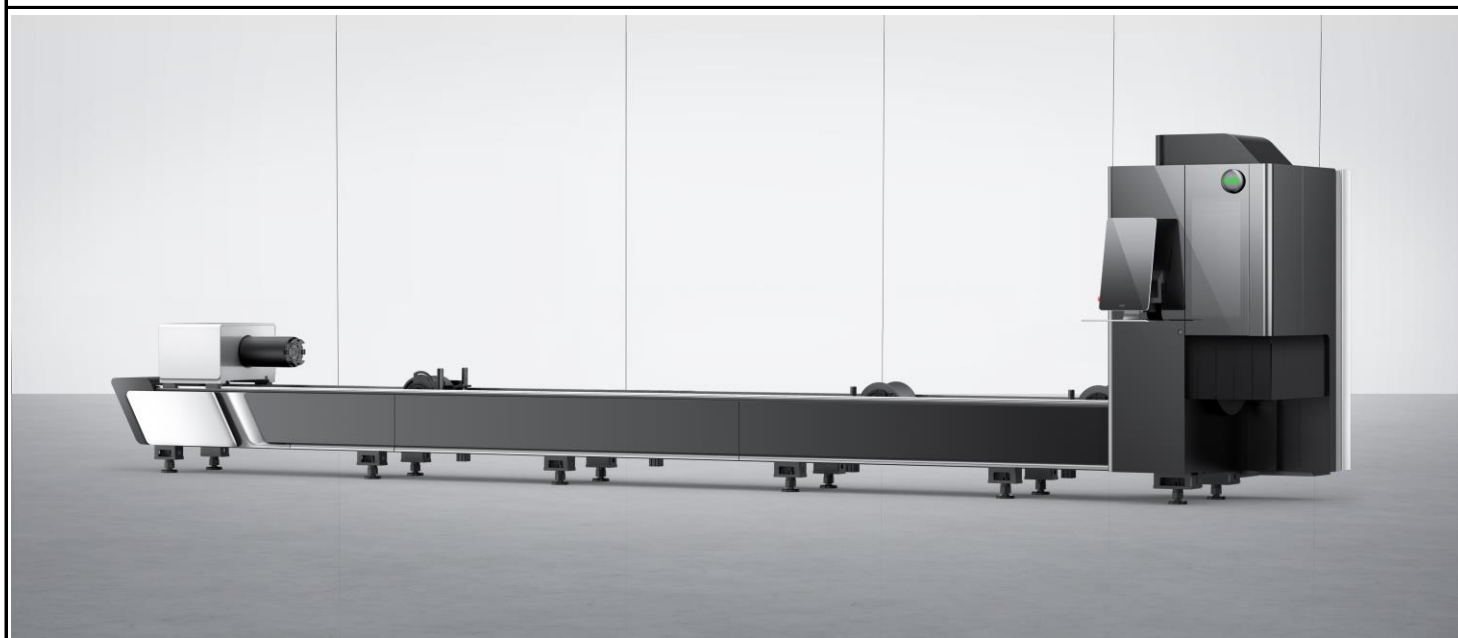
Intelligent Function

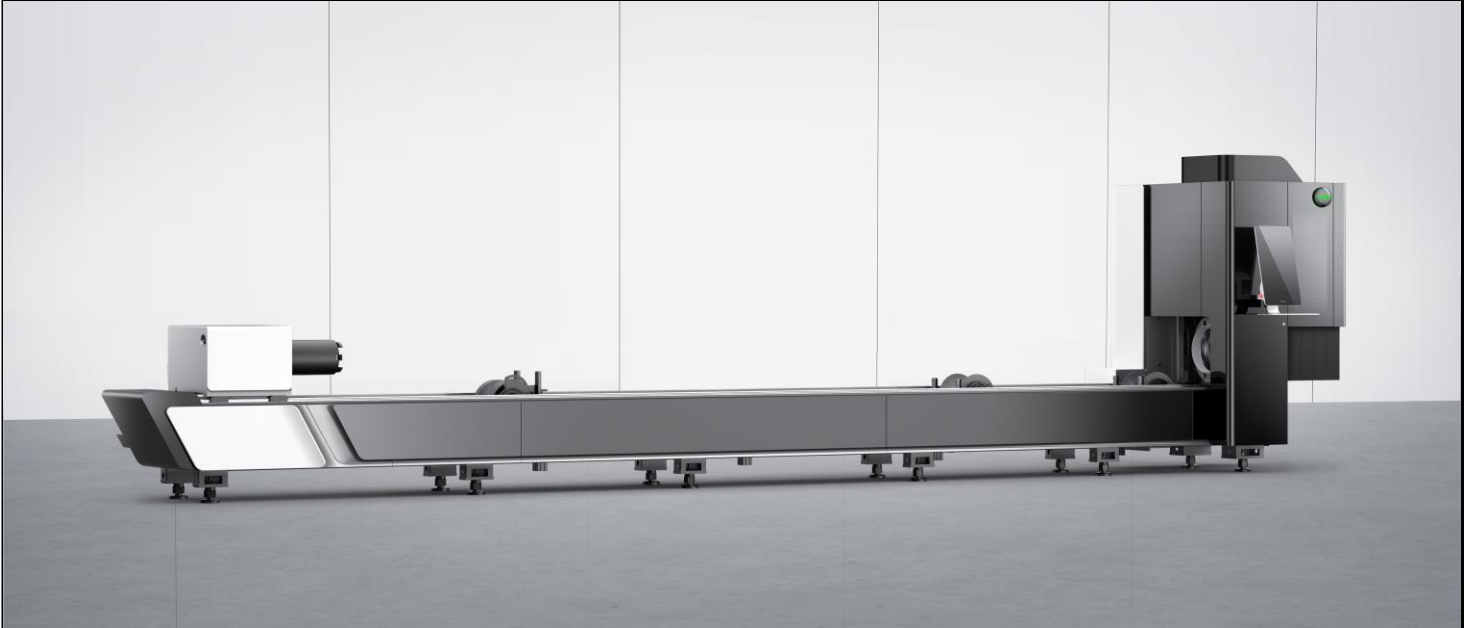
Bodor Lightning perforation technology	Yes
High Speed Cutting Expert Database	Yes
Automatic tube inspection	Edge-seeking, center-finding
Cutting gas automatic pressure regulation function	O ₂
Touch screen control	No
Automatic focusing function of laser head	Yes
Laser cutting technology database	Yes
Over edge protection	Yes
Active obstacle avoidance function	Yes
Angle steel, channel steel cutting	Yes
Anti-slag Protection	Yes
Gas-saving steady flow nozzle	Yes
Intelligent maintenance reminder	Yes

BodorCloud sevice	Yes	
WIFI internet connection	Yes	
Performance		
Requirements for tubes	Diameter < φ 50mm Diameter \geq φ 50mm	thickness \geq 1.2mm; Wall thickness \geq 2.5% of Diameters of tubes
Shortest remaining material	70mm (\approx 2.8") 450mm (Optional open type pipe special claw)	
Dimensions	9347mm \times 1872mm \times 2286mm (\approx 30.7'x6.2'x7.5')	
Maximum tube weight	300Kg 46Kg/m	
Overall weight	2450kg	
Positioning accuracy	0.05mm/m	
Repositioning accuracy	0.03mm	
Max. Chuck rotating speed	90r/min	
X axis maximum speed	90m/min	
Y axis maximum speed	60m/min	
X maximum acceleration	1G	
Y maximum acceleration	1G	
Z axis maximum speed	\geq 50m/min	
Configuration		
Processing precision (<input type="checkbox"/> 38mm stainless steel square tube)	Φ 20mm roundness	\leq 0.15mm
	<input type="checkbox"/> 20mm square diagonal size difference	\leq 0.20mm
	<input type="checkbox"/> 20mm square position size difference	\leq 0.50mm
Laser source	BodorPower	
Laser head	BodorGenius T	
Chuck drive types	Pneumatic chuck	
Waste Trolley	Yes	
Standard tube support holder	Yes	
Linear Rails	Bodor	
Rack	Bodor	
X-axis, Y-axis, Z-axis, A-axis Servo motor and driver	Bodor	
Control system	BodorThinker Tube	
Display size	21.5 inches	
Intelligent alarm	Yes	
Intelligent LED alert lights	Yes	
File format	IGS, DXF, G Code	
Water Chiller	Yes	
Dust removal	Centrifugal fan	
Total power capacity/current with 6KW source (380V)	50KVA/76A	
Total power capacity/current with 3KW source (380V)	34.3KVA/52A	
K-Loader2-65		
Adaptive length	6500mm (\approx 21')	
One-click setting	Yes	
Lack of material alarm	Yes	

Add tube midway	Yes	
Automatic loading	Yes	
Host security interlock	Yes	
Tube type	Round tube	Yes
	Square tube	Yes
	Rectangular tube	Yes
Tube size range	Round tube	Φ25 - Φ230mm
	Square tube	□25 - □160mm
	Rectangular tube	230mm ≥ Side length ≥ 25mm, Circumscribed circle diameter ≤ 230mm
Maximum tube weight	300KG	
Tube loading length range	5000mm-6500mm (≈ 16.4'-21')	
Maximum load capacity of storage bin	1800kg	
Location number	Distributed arrangement	
Module dimensions	7654mm*2300mm*942mm (≈ 25'x7.5'x3')	
Weight	1000kg	
Total power capacity/current (380V)	3KVA/6.9A	

K2-65 Photo

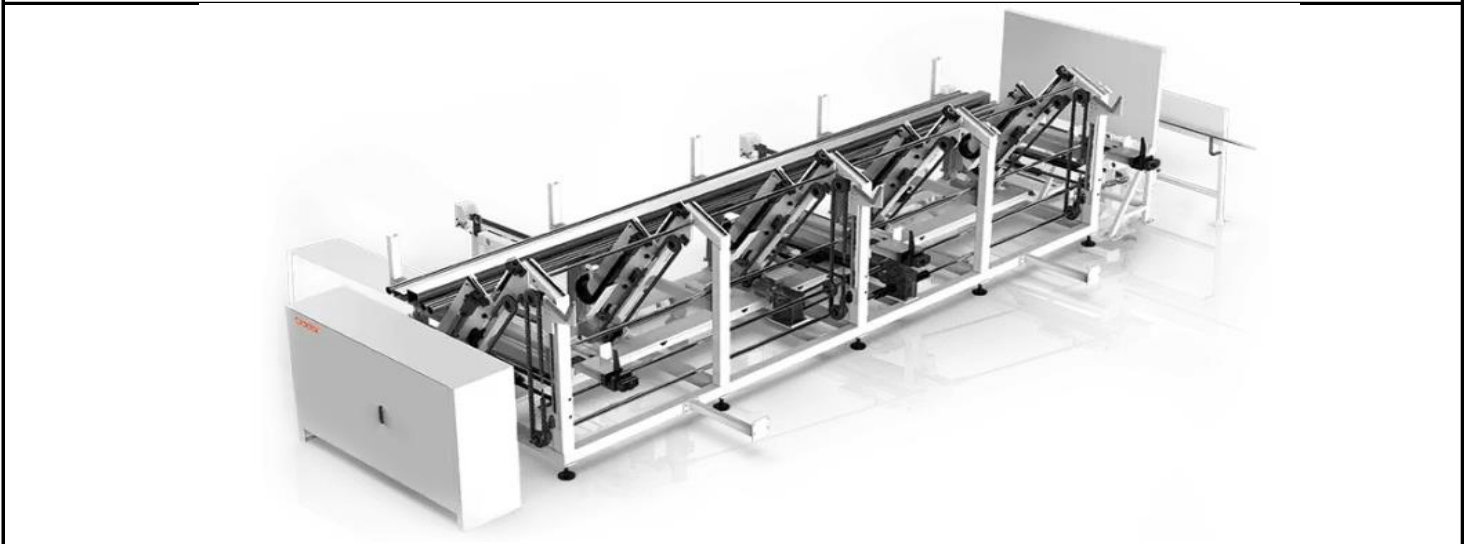




K-Loader2-65



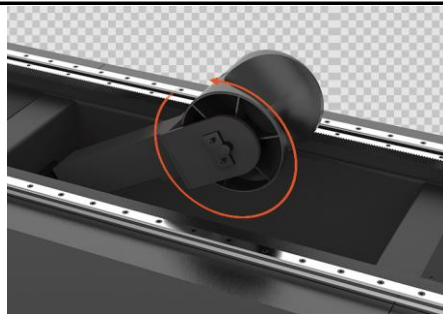
K-Trans2-65



Key Configuration Photos



Pneumatic chuck



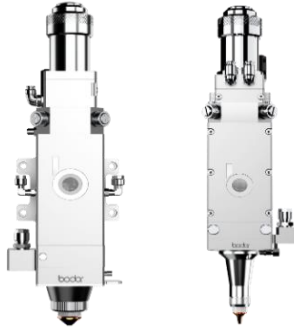
Standard tube support holder



21.5 inches Display



BodorPower Laser Source



BodorGenius Laser Cutting Head



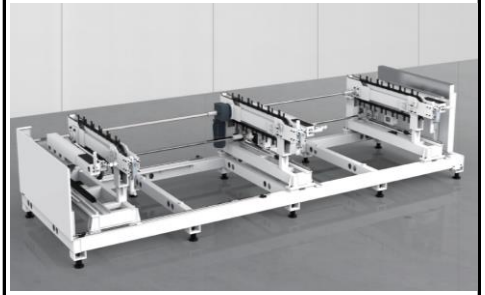
BodorThinker Tube



Air Compressor (Optional)



Fume Filter (Optional)



Automation (Optional)

Cutting Samples



Cutting Parameters

		Power	Thickness (mm)	1	2	3	4	5	6 (1/4")	8	10	12 (1/2")	14	16	18 (3/4")	20
Carbon steel	12kw	speed m/min		18--21	15-20	4--6	3.3--4.5	3.5--4.3	2.7--4	2.5--3.5	1.8--2.5	1.5--2	1.2--1.8	1--1.5	0.8--1	0.5--0.8
	6000W			18--21	15-20	3.8--5.5	3.2--4.3	3--4	2.5--3.5	2--3	1.3--2.2	1.2--1.7	0.9--1.3	0.6--1.1	0.5--0.7	
	3000W			18--21	10--12	3.5--5	3--3.8	2.6--3.2	1.9--2.4	1.6--2	1.2--1.6	0.9--1.3	0.8--1	0.6--0.9	0.5--0.6	
	1500W			17--19	6--8	2.5--3.5	2.3--2.8	1.8--2.4	1.4--1.8	1--1.4	0.8--1.1	0.6--0.9	0.5--0.6			
		Power	Thickness (mm)	1	2	3	4	5	6 (1/4")	8	10	12 (1/2")	14	16	18 (3/4")	20
Stainless steel	12kw	speed m/min		23--28	20--22	8--12	12--14	7--9	6--8	3--4	1.5--2.5	1--2	0.8--1.5	0.6--1	0.6--0.8	0.4--0.5
	6000W			23--28	20--22	8--10	9--12	6--8	4--5.5	2--3	1--1.5	0.5--1	0.4--0.7	0.2--0.4	0.2--0.4	
	3000W			23--28	14--18	4.2--5.4	2.8--3.6	1.8--2.4	1--1.5	0.8--1.2	0.4--0.6					
	1500W			15--20	9--12	2--3	1.2--1.5	0.6--0.9	0.5--0.6							

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.

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

Leading Manufacturer

World Brand



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

