


FIBER LASER CUTTING MACHINE

K1-65 Photo	Laser Power	
	3kw	

Fume Filter	Included
Air Compressor	Included
Freight&Tariff	Included
Installation & Training Cost	Included
Transportation	By Sea
Loading Container	1*40'HQ
Payment Terms	50% down payment, 50% before shipment.
Warranty	Three years limited warranty for main parts. One year free labor.

Basic Parameter

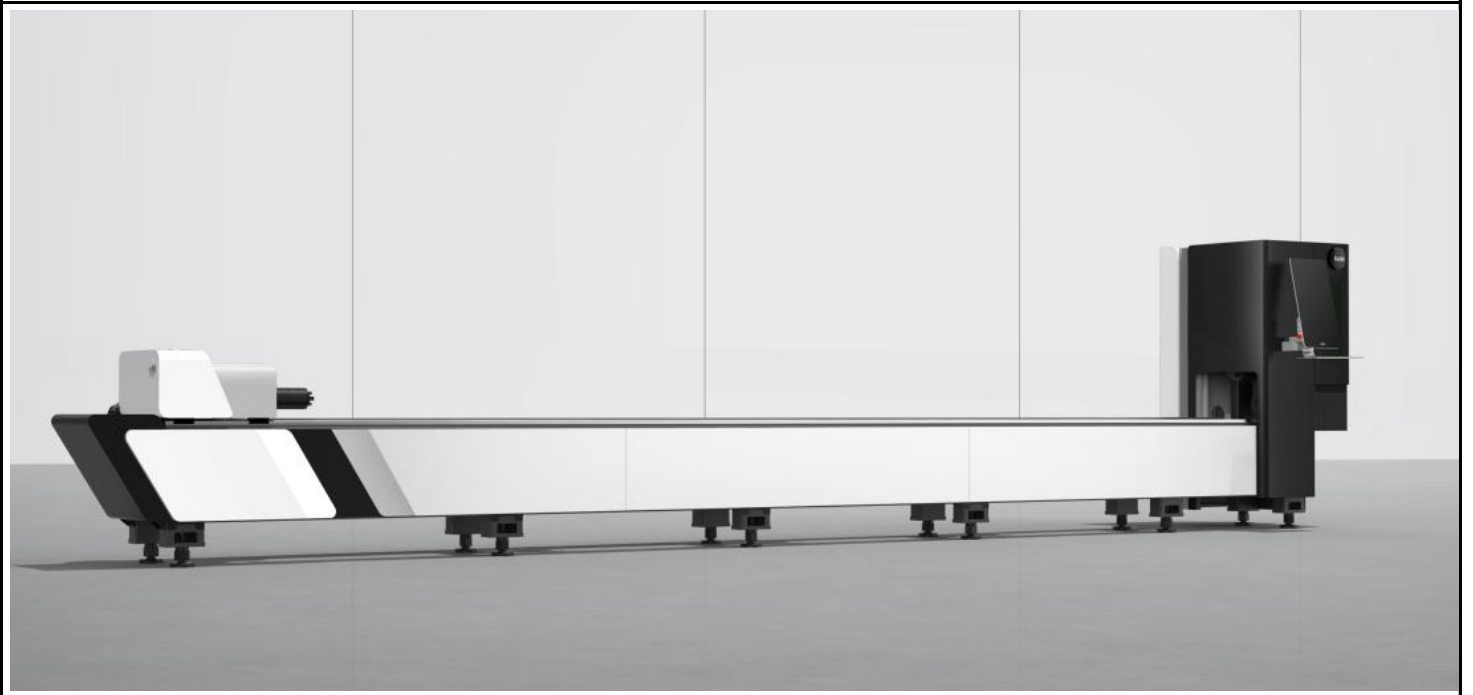
Tube cross-sectional shape	Round, square, rectangular, oval, rounded rectangular, Angle steel, channel steel and other tubes
Tube size range	Round tube: $\phi 6$ - $\phi 120$ mm ($\phi 0.24$ - $\phi 4.72$ in) Square tube : $\square 6$ - $\square 110$ mm ($\square 0.24$ - $\square 4.33$ in) Rectangular tube: 110 mm(4.33 in) \geq Side length ≥ 6 mm (0.24in) Angle/Channel steel: Longest side ≤ 80 mm(3.15 in)
Maximum machinable tube length	6500mm ($\approx 21'$)

Intelligent Function

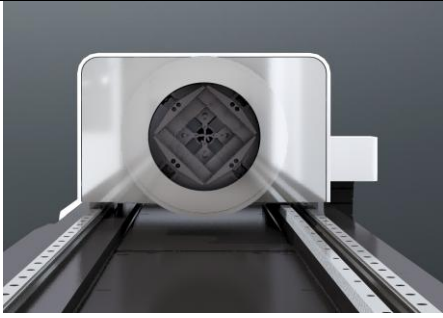
Bodor Lightning perforation technology	Yes
High Speed Cutting Expert Database	Yes
Automatic tube inspection	Edge-seeking, center-finding
Cutting gas automatic pressure regulation function	O ₂
Touch screen control	No
Automatic focusing function of laser head	Yes
Laser cutting technology database	Yes
Over 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 service	Yes	
WIFI internet connection	Yes	
Performance		
Requirements for tubes	Diameter < $\varnothing 20\text{mm}$ ($\varnothing 3/4\text{in}$) : Wall thickness $\geq 0.8\text{mm}$; Diameter $\geq \varnothing 20\text{mm}$ ($\varnothing 3/4\text{in}$): Wall thickness $\geq 2.5\%$ of diameter. (Toolings required for tubes with thinner wall thickness)	
Shortest remaining material	40mm ($\approx 1.58''$)	
Dimensions	8992mm \times 1595mm \times 2059mm (29.5ft \times 5.2ft \times 6.8ft)	
Maximum tube weight	80Kg(176.37lb) or 13.3Kg/m(8.94lb/ft)	
Overall weight	1800kg	
Positioning accuracy	$\pm 0.03\text{mm/m}$	
Repositioning accuracy	$\pm 0.03\text{mm/m}$	
Max. Chuck rotating speed	135r/min	
Max. no-load moving speed	103m/min	
Configuration		
Processing precision ($\square 38\text{mm}$ stainless steel square tube)	$\Phi 20\text{mm}$ roundness	$\leq 0.15\text{mm}$
	<input type="checkbox"/> 20mm square diagonal size difference	$\leq 0.20\text{mm}$
	<input type="checkbox"/> 20mm square position size difference	$\leq 0.40\text{mm}$
Laser source	BodorPower	
Laser head	BodorGenius T	
Chuck drive types	Pneumatic chuck	
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 3KW source (380V)	15.84Kw/35.01A	

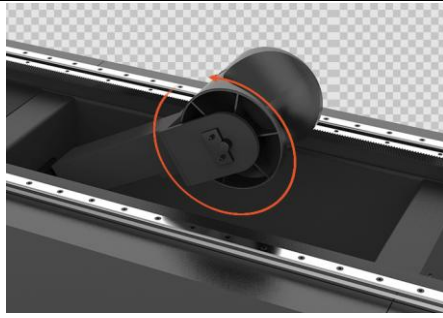
K1-65 Photo



Key Configuration Photos



Pneumatic chuck



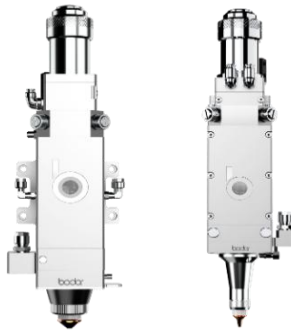
Standard tube support holder



21.5 inches Display



BodorPower Laser Source



BodorGenius Laser Cutting Head



BodorThinker Tube

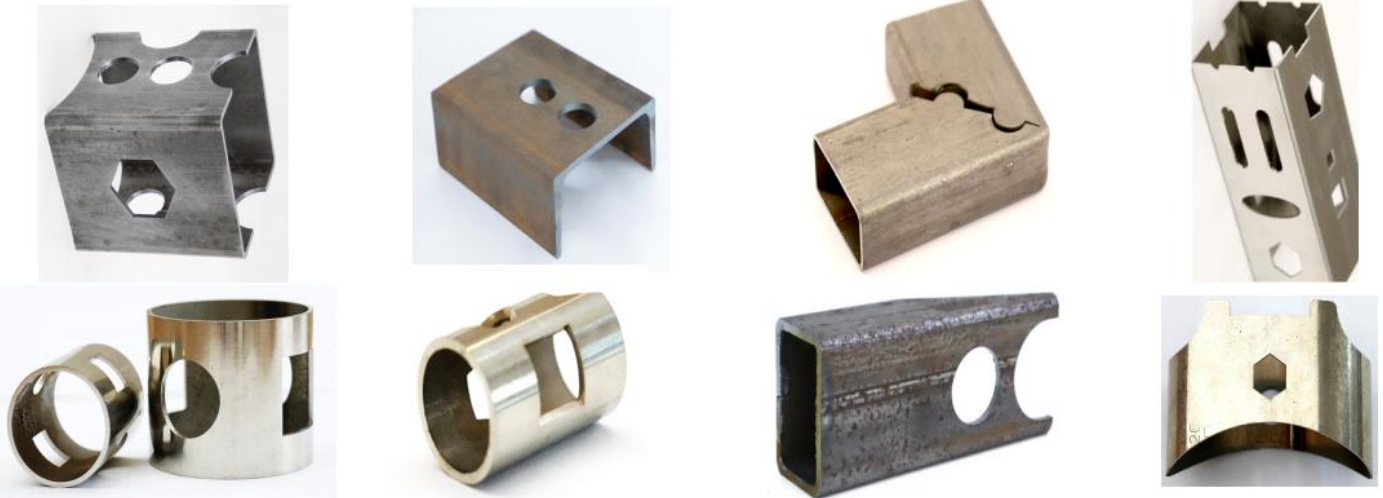


Air Compressor (Included)



Fume Filter (Included)

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	Thickness (mm)	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	Thickness (mm)	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.)



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

