

FIBER LASER CUTTING MACHINE

Laser Power

12kw

Freight&Tariff

Included

Installation & Training Cost

Included

Transportation

By Sea

Loading Container

3*40'GP+3*40'OT+1*20'GP

Payment Terms

30% down payment, 70% before shipment.

Warranty

Three years limited warranty for main parts. One year free labor.

Optional

M-Loader500-120

Fume Filter

Air Compressor

Bevel Cutting

Weld Recognition

Basic Parameter

Tube size range

Round tube: $\Phi 60$ - $\Phi 530$ mm
Square tube: $\square 60$ - $\square 530$ mm
Rectangular tube: $60\text{mm} \leq \text{Side length} \leq 530\text{mm}$
I-beam: 10#-40#

Maximum machinable tube length

12000mm ($\approx 39'$)

Maximum tube weight

3000kg

Intelligent Function

Automatic positioning

Yes

Bodor Lightning perforation technology

Yes

High Speed Cutting Expert Database

Yes

Servo roller

Yes

Unloading assist

Yes

Cutting gas automatic pressure regulation function

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Touch screen control

Yes

Manual / Automatic control modes

Yes

Variable frequency control of feeding speed

Yes

Automatic focusing function of laser head

Yes

Laser cutting technology database

Yes

Bevel cutting

Yes

Over edge protection

Yes

Active collision prevention

Yes (Not available when optional bevel cutting)

Cutting Angle Steel and Channel Steel

Yes

Gas-saving steady flow nozzle	Yes
Out-of-material alarm	Yes
Intelligent maintenance reminder	Yes
BodorCloud service	Yes
WiFi internet connection	Yes

Performance

Tube cross-sectional shape	Round tube, square tube, rectangular tube, angle steel, channel steel, H-beam, etc.
Requirements for tubes	3mm-20mm tube wall thickness
Maximum tube length	12000mm ($\approx 39'$)
Shortest remaining material	No waste of materials
Dimensions	39000kg
Overall weight	33000mm×4800mm×3400mm ($\approx 108.3'$ × $15.8'$ × $11.2'$)
Positioning accuracy	± 0.05 mm/m
Repositioning accuracy	± 0.03 mm/m
Max. Chuck rotating speed	40r/min
X axis maximum speed	35m/min
Y axis maximum speed	35m/min
X maximum acceleration	0.5G
Y maximum acceleration	0.5G
Z axis maximum speed	25m/min

Configuration

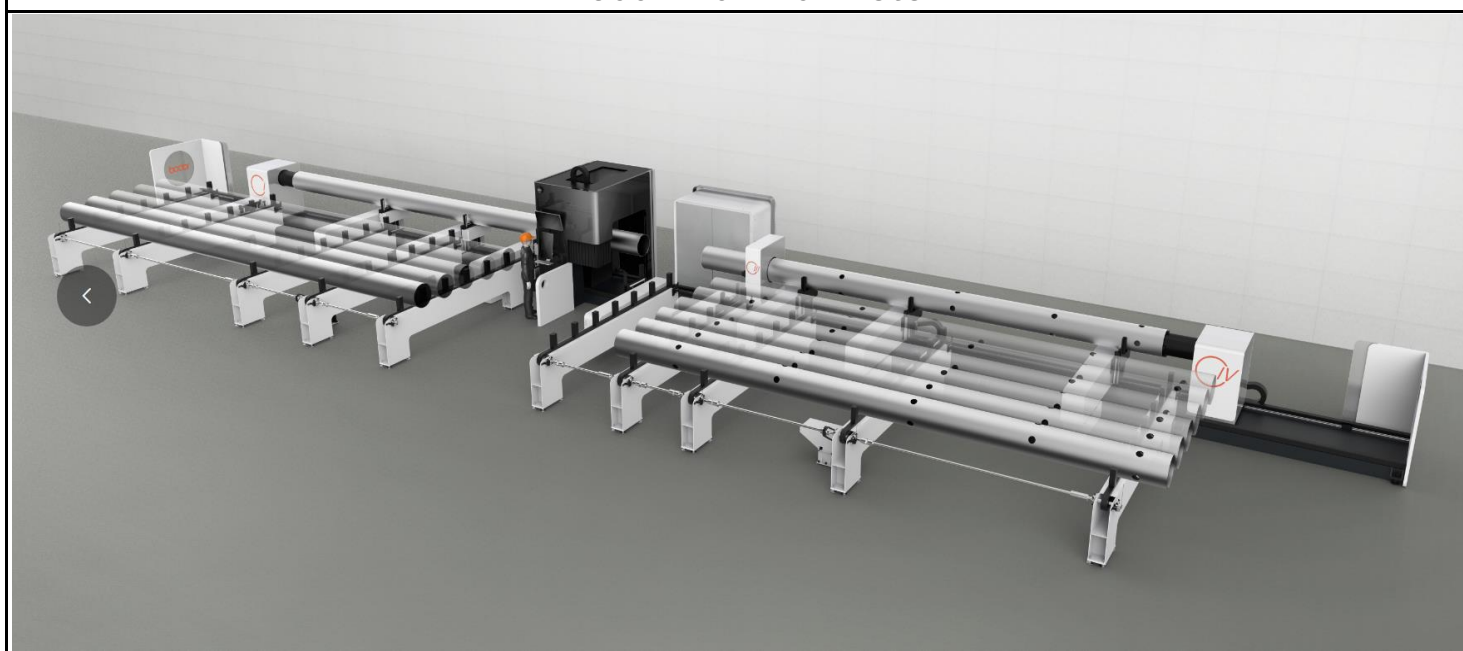
Laser source	BodorPower
Laser head	BodorGenius T
Chuck drive types	Pneumatic chuck
Number of chucks	4
Linear Rails	Bodor
Rack	Bodor
X-axis、Y-axis、Z-axis、A-axis Servo motor and driver	Bodor
Control system	BodorThinker Tube
Special typesetting software for cutting tube machine	BodorNest Tube V1.5
Display size	21.5 inches
File format	IGS
Water Chiller	Yes
Dust removal	Centrifugal fan
Total power capacity/current with 12KW source (380V)	241kVA/305A
Total power capacity/current with 6KW source (380V)	208kVA/263A

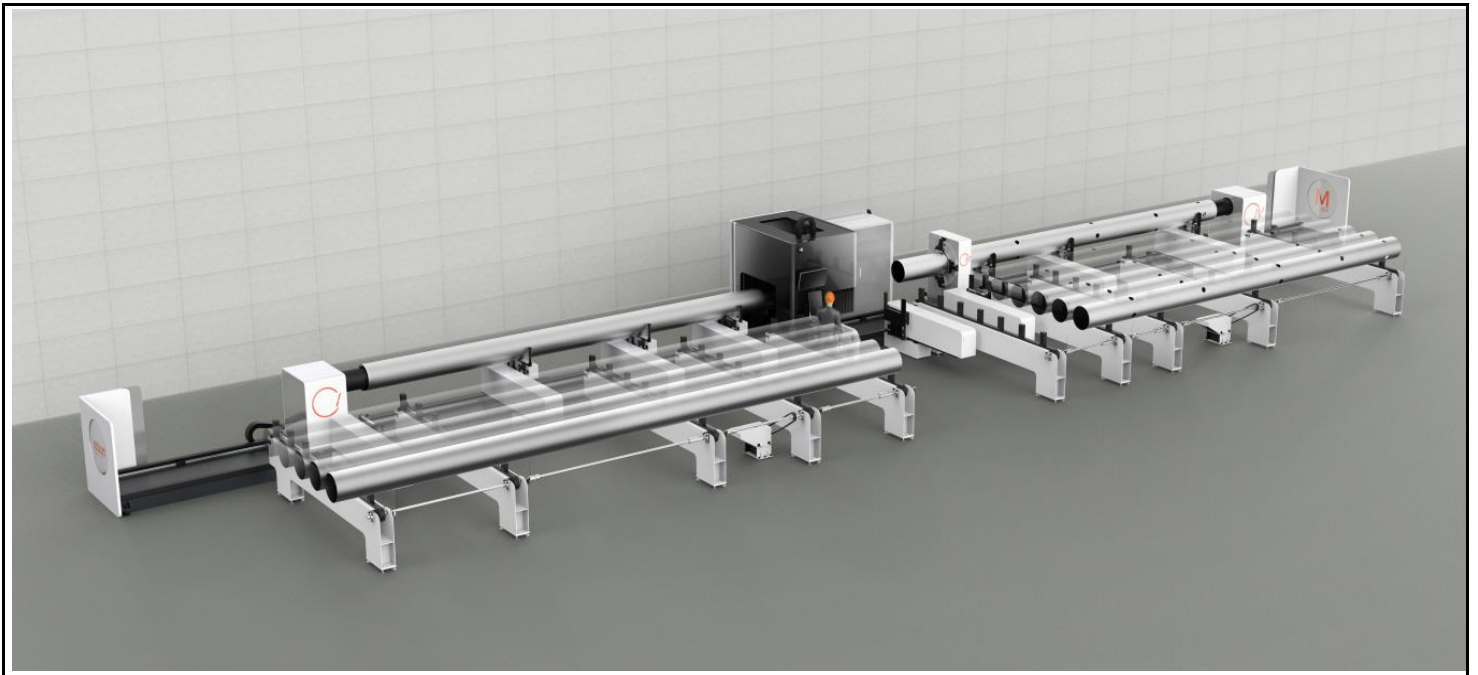
M-Loader500-120

Adaptive length	12000mm ($\approx 39'$)
One-click setting	Yes
Lack of material alarm	Yes
Add tube midway	Yes
Automatic loading	Yes
Anti-scratch tube	Yes

Host security interlock		Yes
Tube type	Round tube	Yes
	Square tube	Yes
	Rectangular tube	Yes
	Channel tube	Yes
	H-tube	Yes
Tube size range	Round tube	Φ60 - Φ500mm
	Square tube	□60 - □350mm
	Rectangular tube	350mm ≥ Side length ≥ 60mm
	Channel tube	320mm ≥ Side length ≥ 60mm
	H-tube	320mm ≥ Side length ≥ 60mm
Maximum tube weight		1600kg
Tube loading length range		Loading: 3500-12000mm (≈ 11.5' - 39') Unloading: ≤ 12000mm (39') Due to the long overhang of some length tubes, the overhang is large
Maximum load capacity of storage bin		9.6t
Location number		11 (φ<90) 6(φ>90)
Module dimensions		Loading: 9300*4700mm*1300mm (≈ 30.5'*15.4'*4.3') Unloading: 11000mm*4700mm*1300mm (≈ 36'*15.4'*4.3')
Weight		Loading: 700kg Unloading: 750kg
Total power capacity/current (380V)		6KVA/27.8A

M500-120-120 Photo

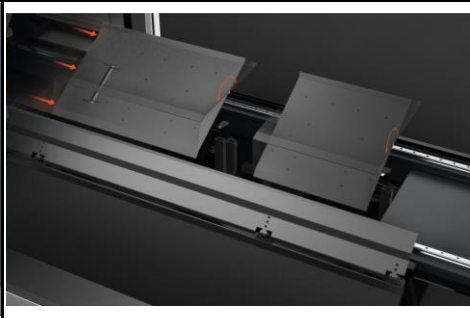




Key Configuration Photos



Pneumatic chuck



Following servo feeding bracket



21.5 inches Display



BodorPower Laser Source



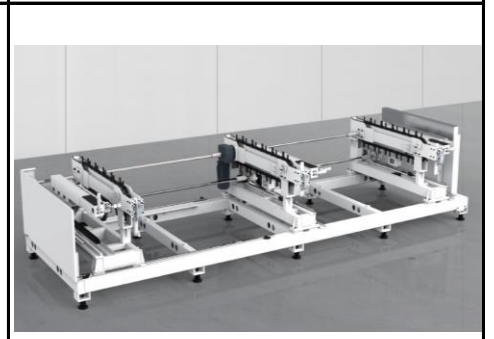
BodorGenius Laser Cutting Head

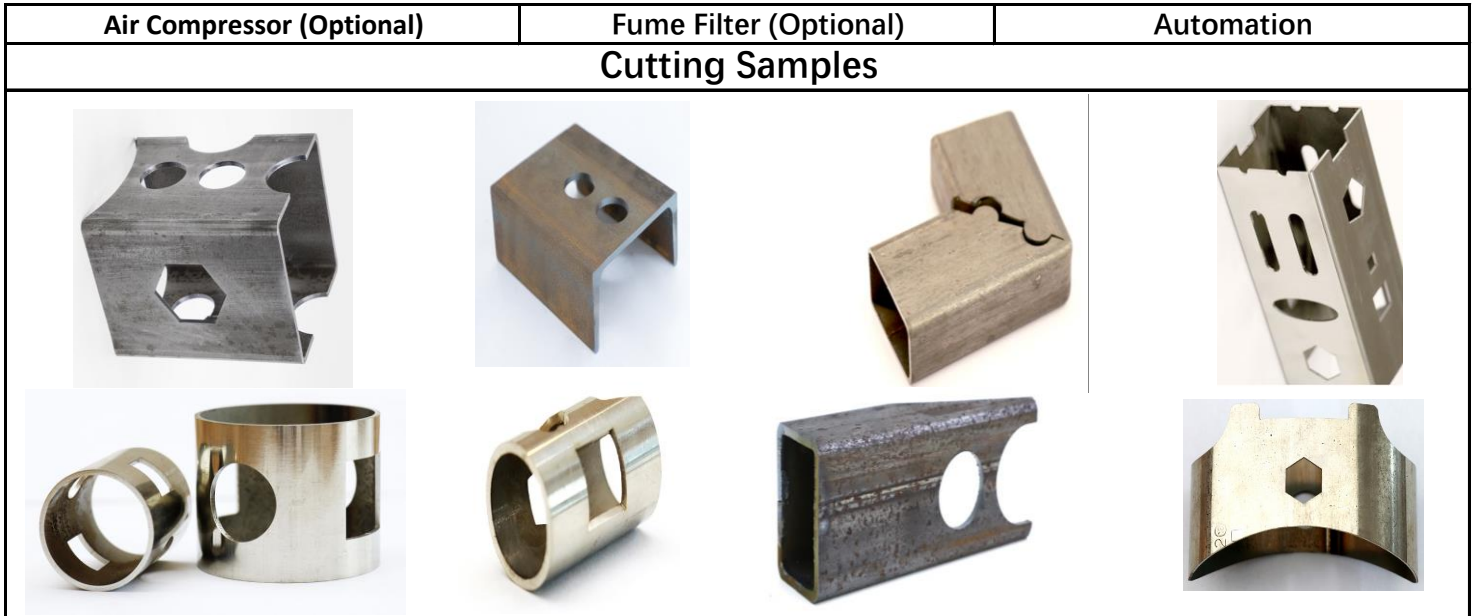


BodorThinker Tube



Air compressor







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			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	speed m/min		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")
Stainless steel	12kw			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	speed m/min		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							



ABOUT BODOR	
<p>A company of over 2,000 people only focusing on fiber laser cutting machines.</p> <p>Local Sales & Engineer Service team in American.</p> <p>Over 150 backbone researchers only into laser field.</p> <p>Bodor Super Factory covers over 60, 000 m².</p>	Leading Manufacturer

<p>Exports of fiber laser cutting machine are No.1 in China. Users of over 150 countries are happy with Bodor.</p>	World Brand
<p>Bodor gains patents and certifications (CSA, cTUVus, CE, FDA, ISO 9001, BV, SGS, etc.)</p> 	
<p>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+.</p> 	

Bodor China



Bodor USA

