

# M SERIES

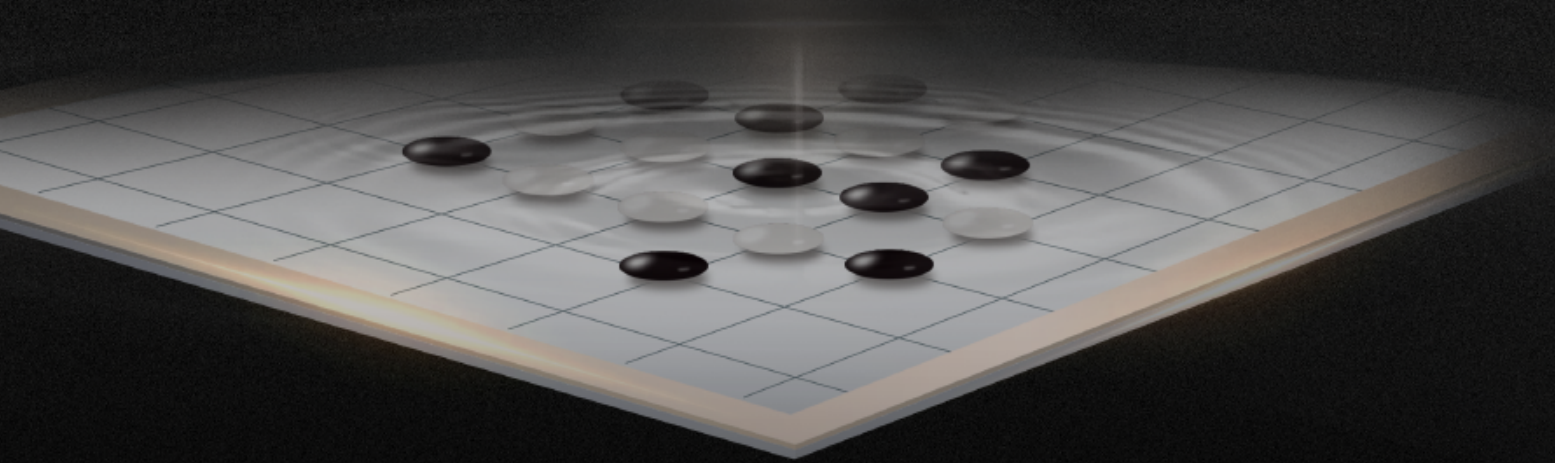
FLAGSHIP LASER METAL TUBE CUTTING MACHINE

1.5kW-6kW





# THE BLACK GO CHESS



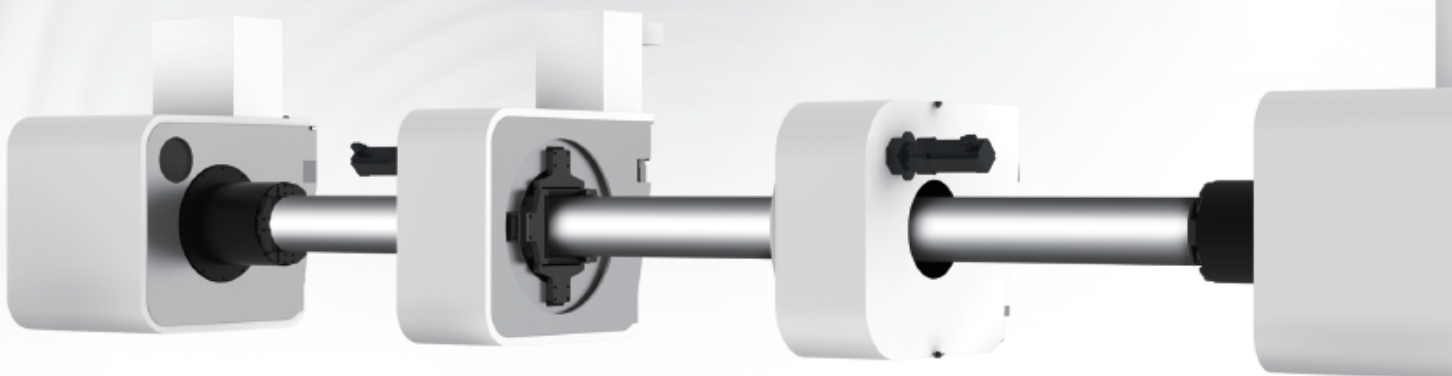
Black Go chess — inspired by Go

Circular — endless loop, endless exploration

Black — derived from obsidian crystal, steady and deep



# NO WASTE OF MATERIAL



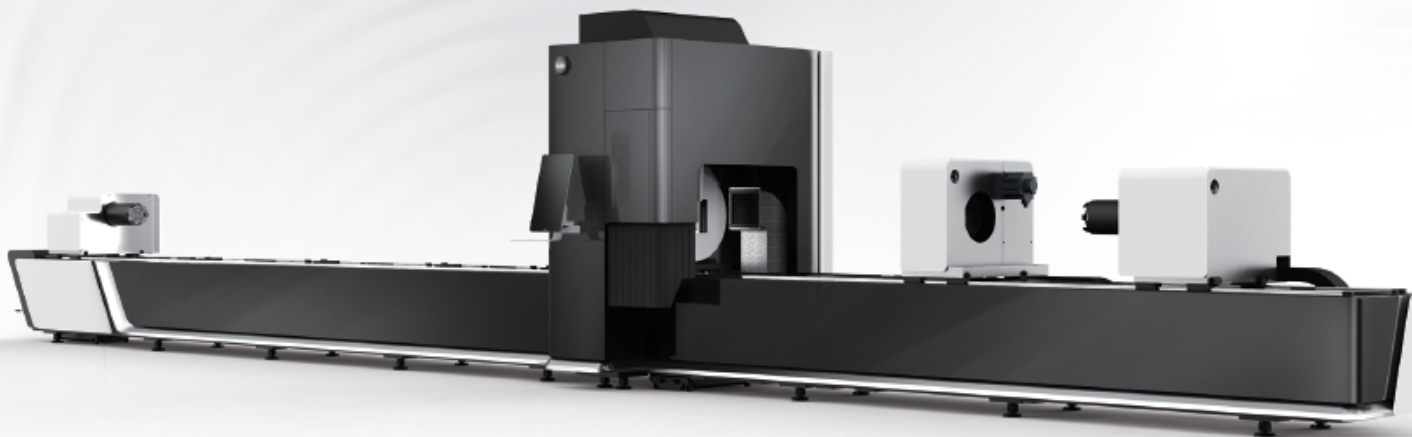
## Advantages

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- Equipped with four chucks, the cutting cost is saved without tube cutting scraps.



# FLAGSHIP LASER METAL TUBE CUTTING MACHINE



## Advantages

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- Maximum capacity, for all tube cutting demands;
- Various tube cutting lengths and unloading lengths are available with M-Series.



# BODOR THINKER

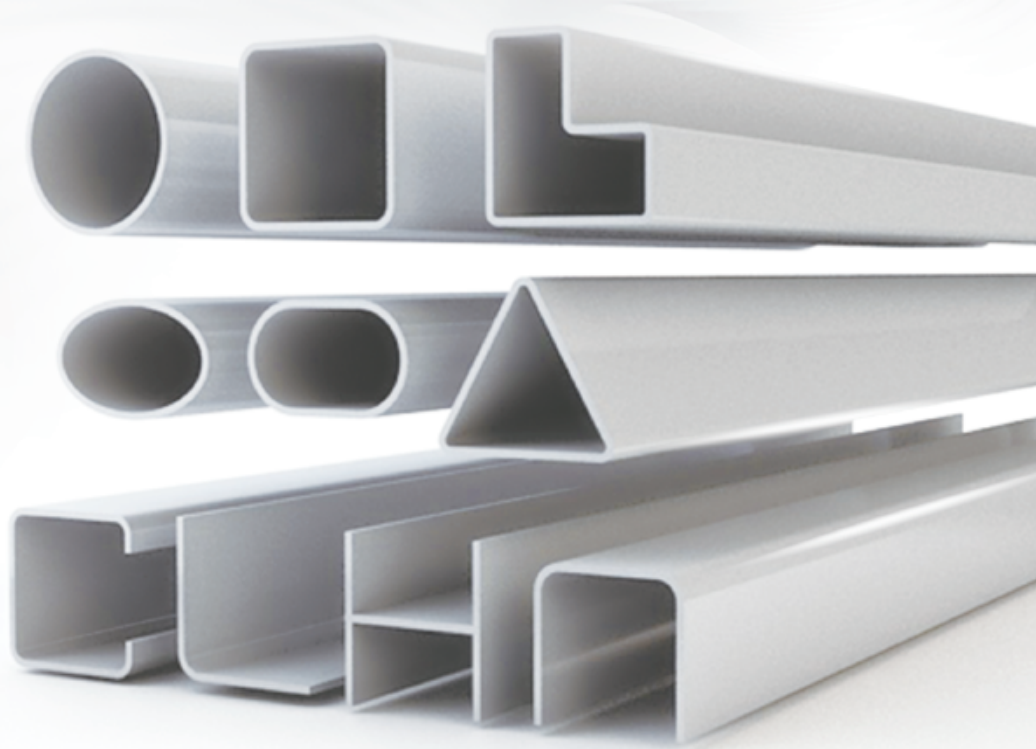


## Advantages

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- High-end intelligent system, stable and reliable, easy to setup and debug, keep safe in production, rich in functions, and excellent in performance. It supports modular, personalized, automated, and informationized solutions.

# APPLICABLE FOR VARIABLE TYPES OF TUBE



## Advantages

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- T Series is applicable for different kinds of tubes, such as round, square, rectangle, triangle, I-beam etc.
- The dedicated control system of tube cutting machine integrated with the most advanced technology, can cut angle steel and channel steel directly without nesting and zero-returning.



# AUTOMATIC TUBE DETECTION

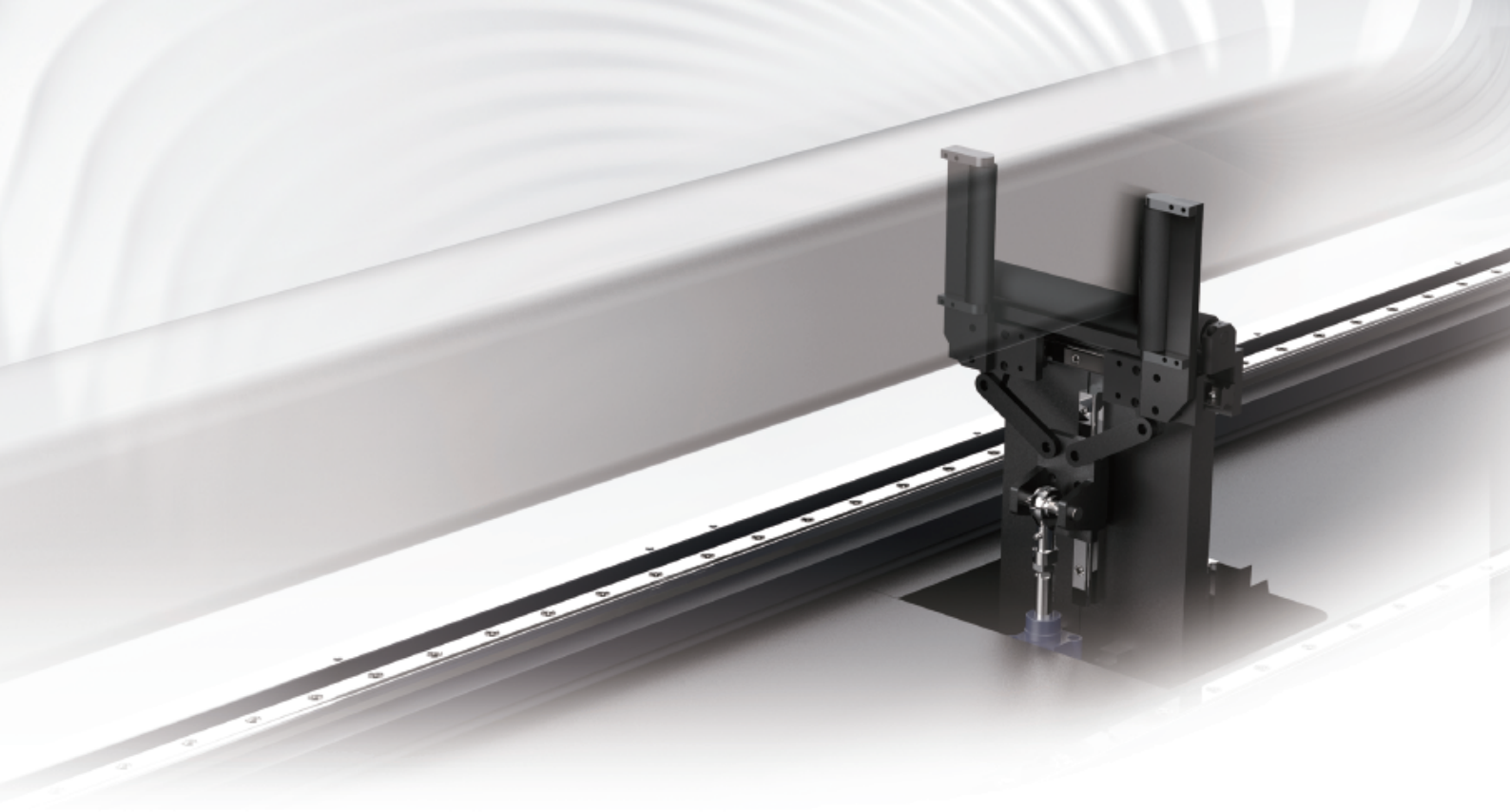


## Advantages

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- Optimized edge searching method and algorithm guarantee higher cutting precision and better steadiness.

# SERVO FOLLOW-UP ROLLER



## Advantages

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- The servo rollers precisely follow up the motion of tubes while cutting, ensuring that square tubes, rectangular tubes, and other tubes with opening structures like channel steel get precise processing.
- The servo follow-up turnover unloading device effectively guarantees the support for long tubes and improves cutting precision. When cutting is finished, the device can achieve automated unloading.



# PNEUMATIC CHUCK



## Advantages

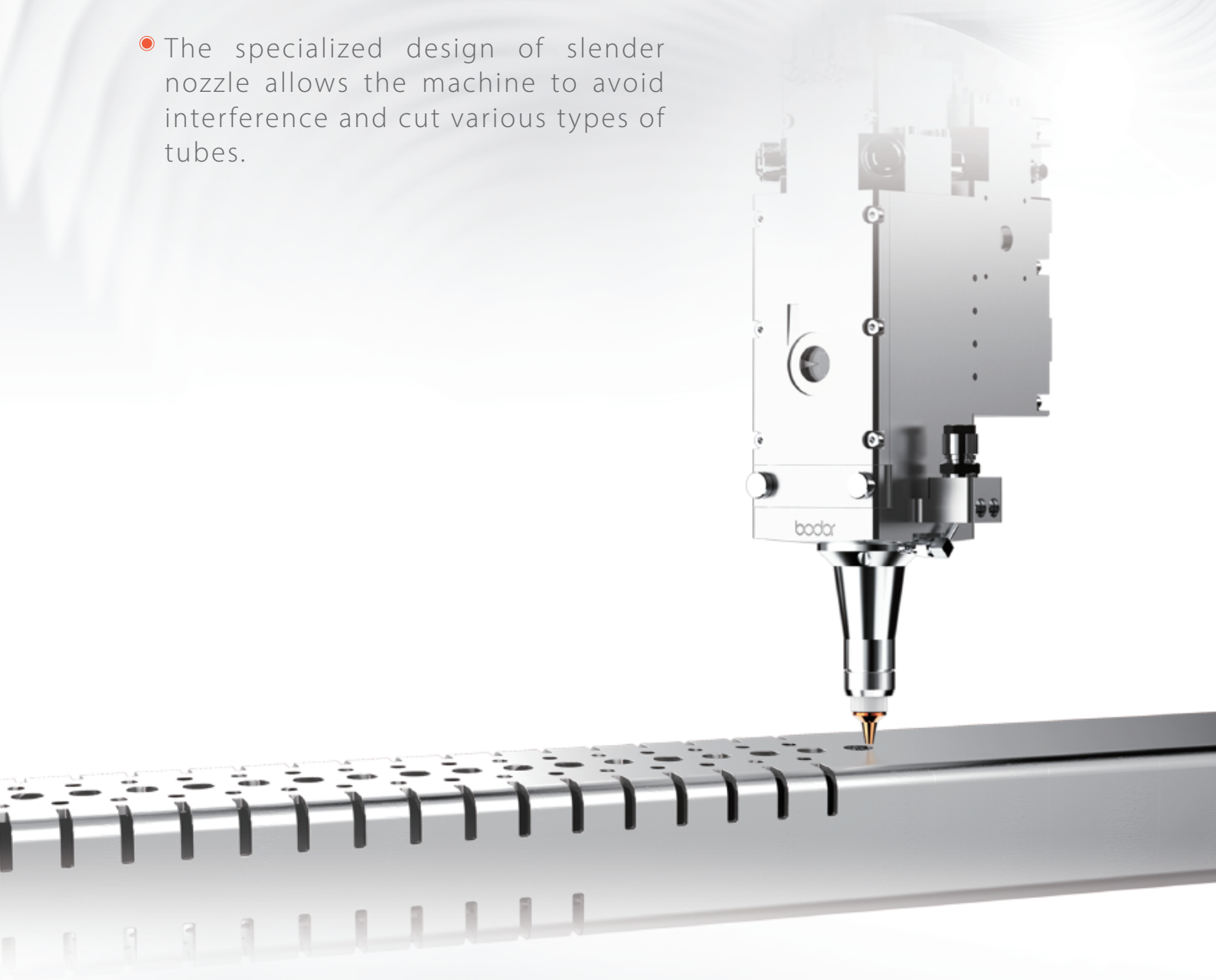
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- Quick clamping improves the work efficiency.
- The clamping force is large, stable and adjustable.
- Strong safety and reliability.

# BodorGeniusT

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- The specialized design of slender nozzle allows the machine to avoid interference and cut various types of tubes.





# BODOR CLOUD

## Advantages

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- Daily equipment status management ( processing data, report forms )
- Alarm and maintenance reminder
- Cloud transmission for processing programs
- Remote online service access with one key
- Real-time information of the latest cutting process

## Technical Data

ITEM	M230	M350
Tube cross-sectional shape	Round tube, square tube, rectangular tube, angle steel, channel steel, H-beam, etc.	
Tube size range	Round tube $\Phi 20\text{-}\Phi 230\text{mm}$ Square tube $\square 20\text{-}\square 160\text{mm}$ Rectangular tube: $170\text{mm} \geq \text{Side length} \geq 20\text{mm}$ , Circumscribed circle diameters $\leq 230\text{mm}$	Round tube $\Phi 20\text{-}\Phi 350\text{mm}$ Square tube $\square 20\text{-}\square 350\text{mm}$ Rectangular tube: $300\text{mm} \geq \text{Side length} \geq 20\text{mm}$ , Circumscribed circle diameters $\leq 350\text{mm}$
Maximum machinable tube length	6500mm	9200mm
Maximum tube weight	200Kg	500kg
Max. Chuck rotating speed	110r/min	75r/min
X axis maximum speed	110m/min	80m/min
Y axis maximum speed	60m/min	60m/min
X maximum acceleration	1G	1G
Y maximum acceleration	0.6G	0.6G
Z axis maximum speed	60m/min	60m/min
Dimensions	15200mmX2410mmX2750mm	24500mmx2000mmx3100mm
Overall weight	10000kg	18000kg
Positioning accuracy	0.06mm	0.06mm
Repositioning accuracy	0.04mm	0.04mm
Total power capacity/current with 6KW source	93.7KVA/142.3A	103.7KVA/162.3A
Total power capacity/current with 3KW source	77.9KVA/118.4A	87.9KVA/138.4A
Total power capacity/current with 2KW source	69.2KVA/105.2A	79.2KVA/125.2A
Total power capacity/current with 1.5KW source	75.4KVA/114.6A	85.4KVA/134.6A

## Configuration And Components

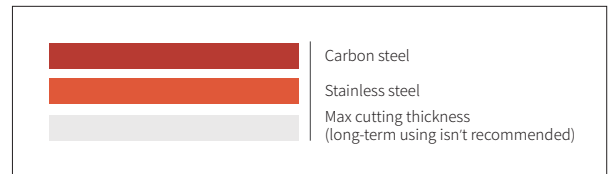
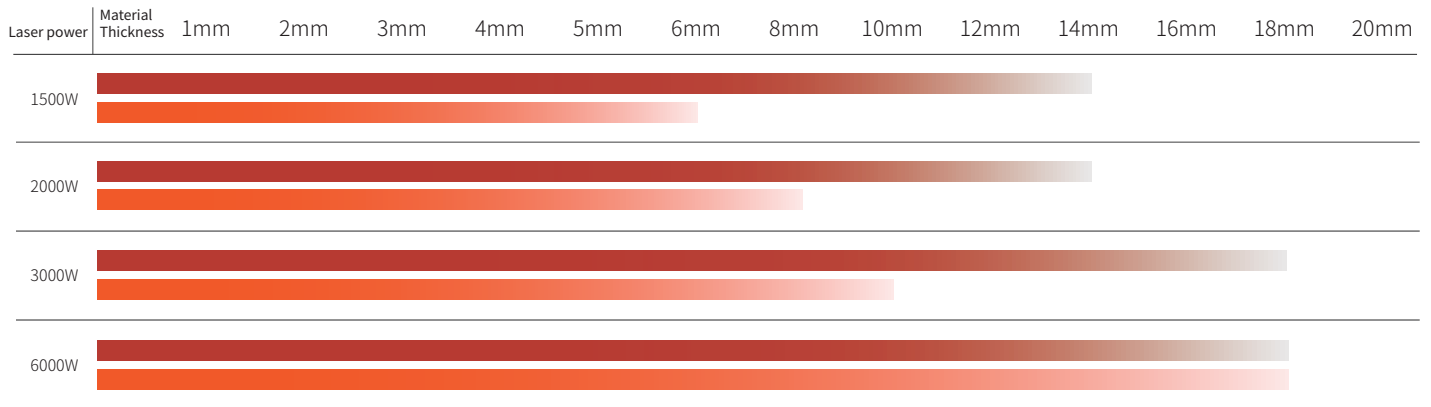
laser head	Bodor Genius T
Laser source	Bodor Power
Chuck	Pneumatic chuck
Linear Rails	Bodor
Rack	Bodor
"X-axis、Y-axis、Z-axis、A-axis Servo motor and driver"	Bodor
Control system	Bodor Thinker
Display size	21.5 inches
Water Chiller	●
Dust removal	Centrifugal fan

## Tube Cutting Parameters

		1000W	1500W	2000W	3000W	6000W
	Thickness (mm)	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min
Carbon steel	1	12--15	17--19	16--20	18--21	18--21
	2	5--7	6--8	8--10	10--12	15--20
	3	2--3	2.5--3.5	3.0--4.8	3.5--5	3.8--5.5
	4	2--2.4	2.3--2.8	2.8--3.5	3--3.8	3.2--4.3
	5	1--1.6	1.8--2.4	2.5--3	2.6--3.2	3--4
	6	1.1--1.4	1.4--1.8	1.8--2.2	1.9--2.4	2.5--3.5
	8	0.8--1.1	1--1.4	1.4--1.8	1.6--2	2--3
	10	0.6--0.9	0.8--1.1	1.0--1.3	1.2--1.6	1.3--2.2
	12	0.6--0.7	0.6--0.9	0.8--1	0.9--1.3	1.2--1.7
	14		0.5--0.6	0.6--0.7	0.8--1	0.9--1.3
	16				0.6--0.9	0.6--1.1
	18				0.5--0.6	0.5--0.7
20						
Stainless steel	1	12--16	15--20	20--24	23--28	23--28
	2	7--9	9--12	10--15	14--18	20--22
	3	2--2.5	2--3	3--4	4.2--5.4	8--10
	4	0.6--0.9	1.2--1.5	2--3	2.8--3.6	9--12
	5		0.6--0.9	1.2--1.6	1.8--2.4	6--8
	6		0.5--0.6	0.8--1.1	1--1.5	4--5.5
	8			0.5--0.6	0.8--1.2	2--3
	10				0.4--0.6	1--1.5
	12					0.5--1
	14					0.4--0.7
	16					0.2--0.4
	18					0.2--0.4
20						

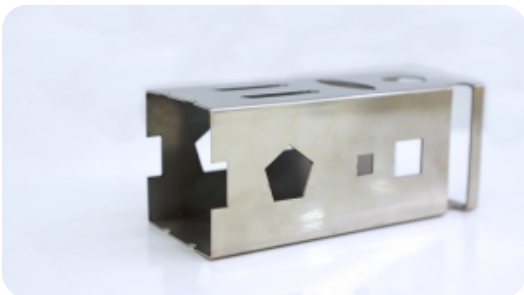
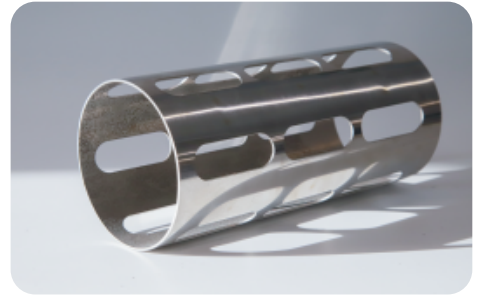
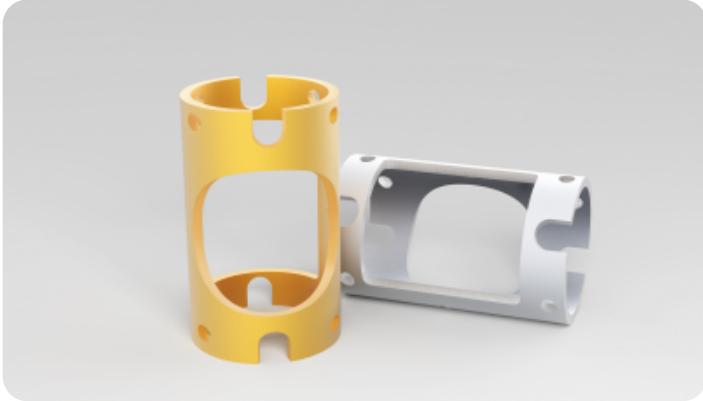


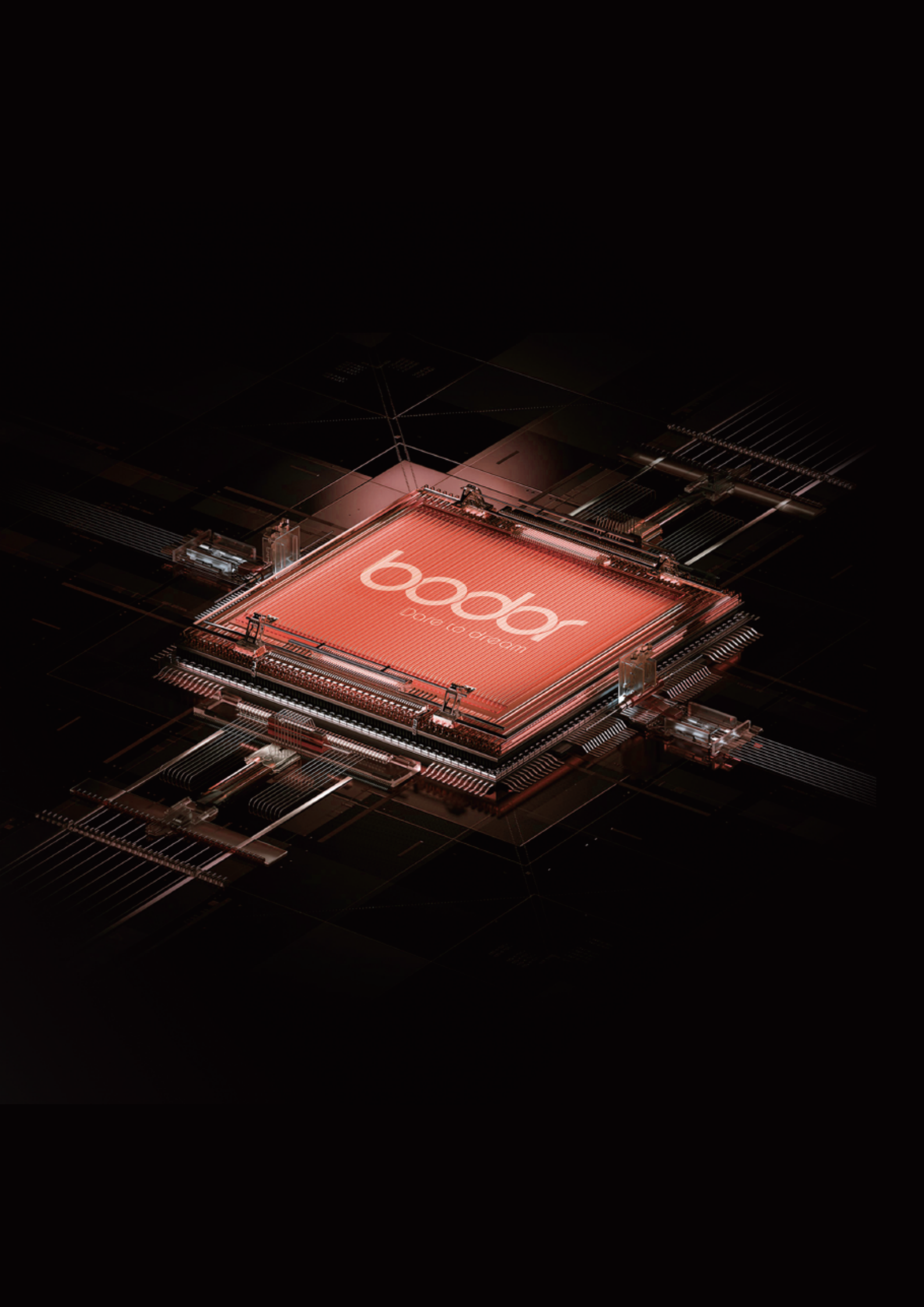
## Cutting Capacity



Above data is only for reference

Cutting Samples





boddor  
Care to dream