

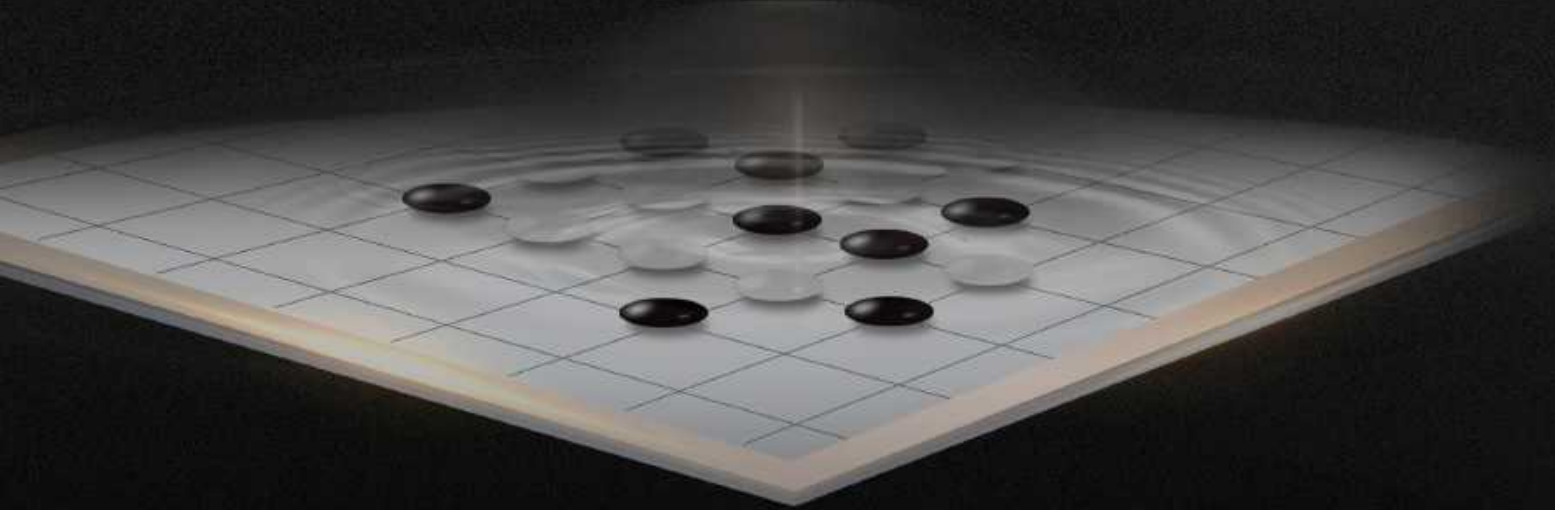
T SERIES

TUBE LASER 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



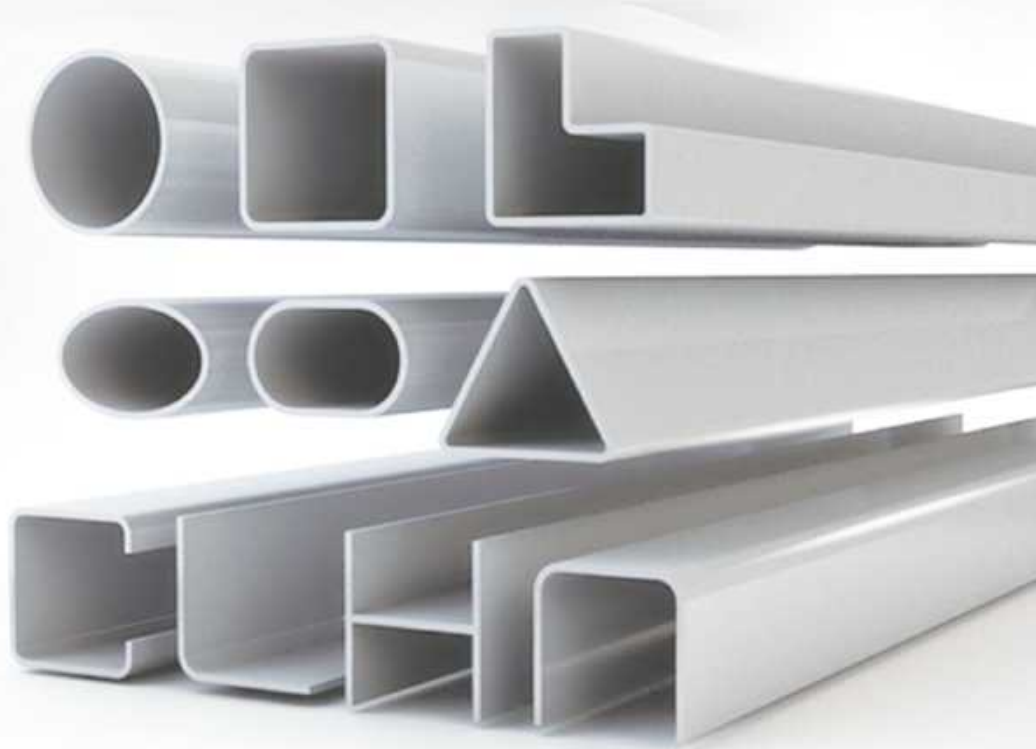
BODOR THINKER 3.0



Advantages

- 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

- 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.

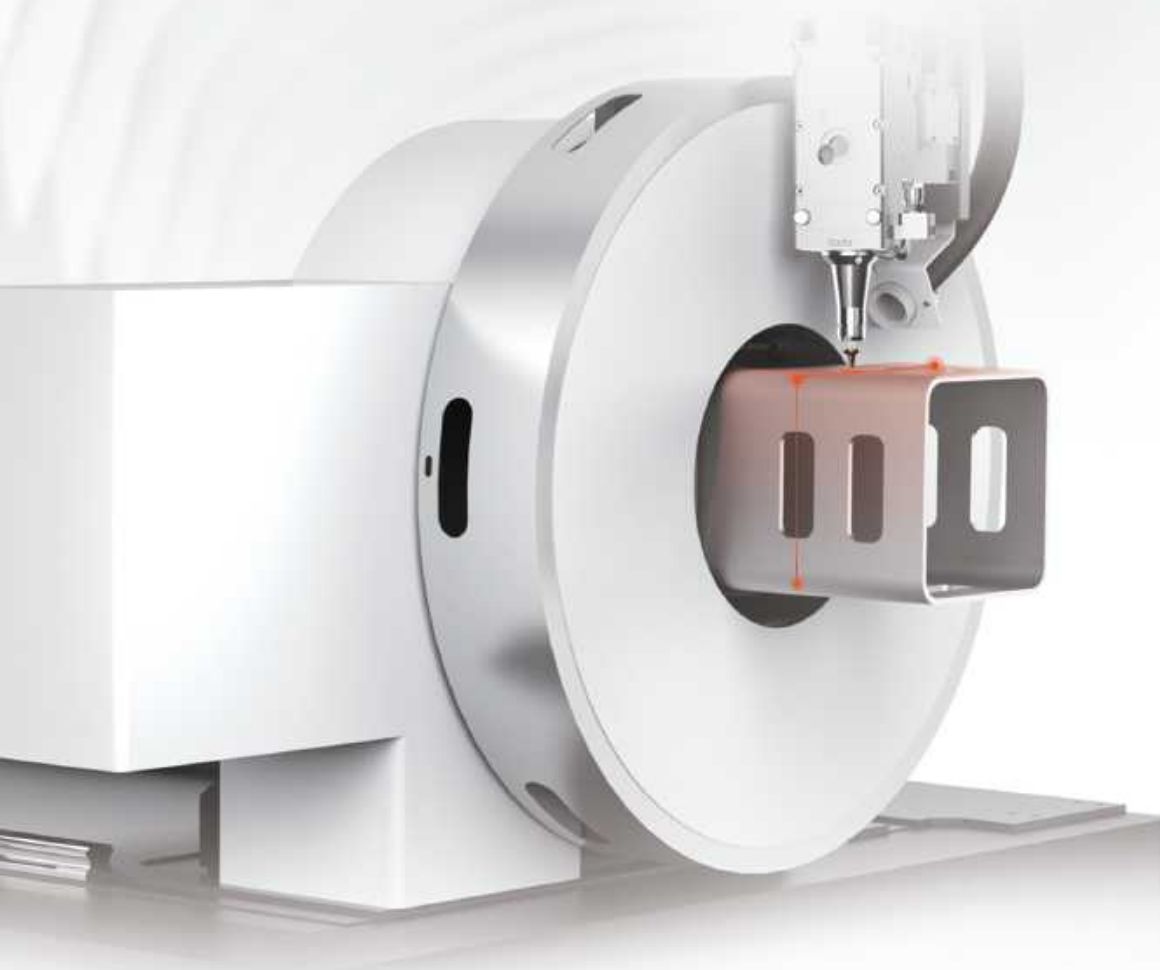
BODORNEST TUBE



Advantages

- The system, presenting convenient layout and processing all the time even when offline, applies to groove steel, I-shaped steel, and other special-shaped tubes and is accessible for third-party machine tools.

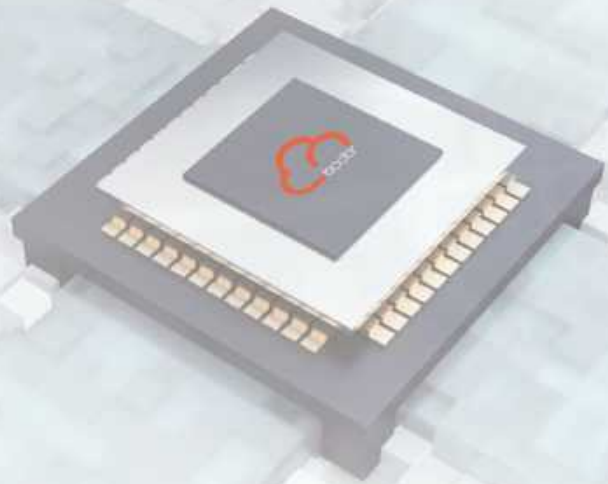
AUTOMATIC TUBE DETECTION



Advantages

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

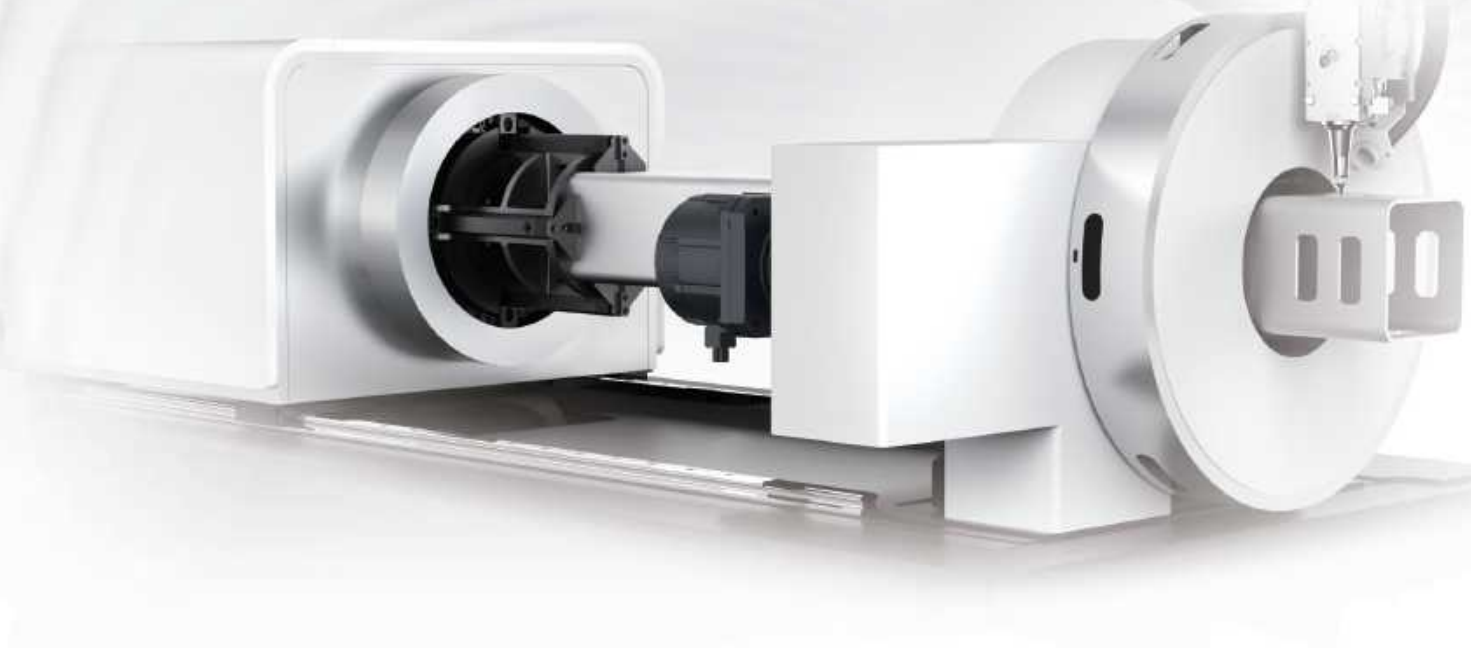
AIR PRESSURE INTELLIGENT CONTROL



Advantages

- Accurate monitoring of gas pressure, full closed-loop control, ensures stability of cutting and reduces production cost.
- The operation is simplified with no need of manual calibration, and improve the sensitivity and accuracy of air pressure changes through machine autonomous learning.

INTELLIGENT ELECTRIC CHUCK



Advantages

- CNC clamping system with interface of claw clamping technics to facilitate adjustment of claw position and torque.
- Ensure no deformation when clamping thin-walled pipe, no loose when clamping thick-walled pipe.
- The mechanical self-locking of the clamping drive structure, ensures no loose even during power-off.

BodorGeniusT

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



SNAIL ROLLER



Advantages

- The roller prevents tubes from shaking from side to side effectively.
- The lift cylinder runs quickly and cutting efficiency improves.

BLANKING RACK



Advantages

- During cutting process, provide auxiliary support for the workparts according to pipe length.
- Intelligent cutting, wastes receiving and automatically flip and unload the workpieces, make the operation more convenient and smart.
- Avoid of collision and scratches to the workpieces and laser head components when cutting off and blanking.

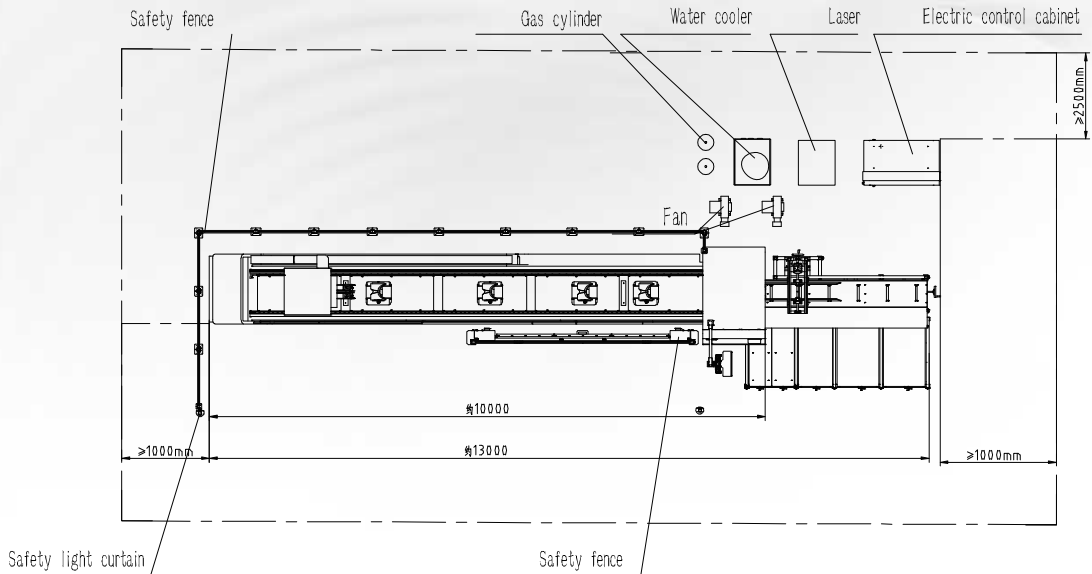
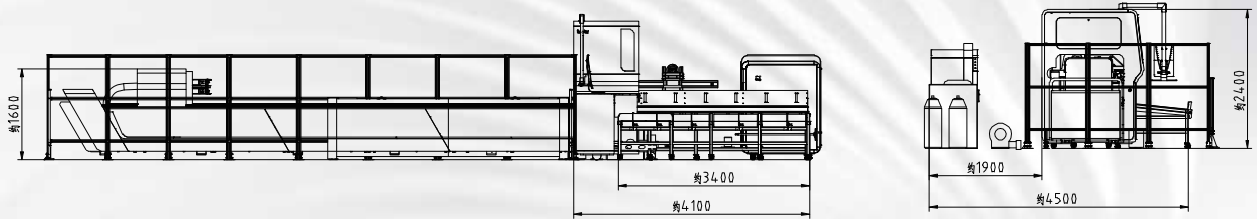
BODOR CLOUD



Advantages

- 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

Layout



The above layout drawings and figures are for reference only, the actual drawing shipped with machine prevails.



T230
13500×3200×2500mm



T360
13500×3500×2500mm



T230(9.2M)
16000×3200×2500mm

Technical Data

ITEM	T360	T230	T230(9.2m)
Tube cross-sectional shape	Round, square, rectangular, oval, rounded rectangular, Angle steel, channel steel and other tubes		
Tube size range	Round tube: $\Phi 20\text{-}\Phi 360\text{mm}$ Square tube: $\square 20\text{-}\square 254\text{mm}$ Rectangular tube: $300\text{mm} \geq \text{Side length} \geq 20\text{mm}$ Circumscribed circle diameter $\leq 360\text{mm}$	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 diameter $\leq 230\text{mm}$	"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 diameter $\leq 230\text{mm}$
Maximum machinable tube length	6500mm	6500mm	9200mm
Maximum tube weight	400Kg 61kg/m	200Kg 30Kg/m	200Kg 21.7Kg/m
Max. Chuck rotating speed	100r/min	120r/min	120r/min
X axis maximum speed	100m/min	100m/min	100m/min
Y axis maximum speed	95m/min	95m/min	95m/min
X maximum acceleration	1G	1G	1G
Y maximum acceleration	1G	1G	1G
Z axis maximum speed	$\geq 60\text{m/min}$	$\geq 60\text{m/min}$	$\geq 60\text{m/min}$
Dimensions	13500x3500x2500mm	13500x3200x2500mm	16000x3200x2500mm
Overall weight	7500kg	6700kg	6800kg
Positioning accuracy	0.05mm	0.05mm	0.05mm
Repositioning accuracy	0.03mm	0.03mm	0.03mm
Total power capacity/current with 6KW source	74.5KVA/113.1A	64.6KVA/98.2A	62.6KVA/93.9A
Total power capacity/current with 3KW source	58.7KVA/89.2A	48.9KVA/74.3A	47.1KVA/70.6A
Total power capacity/current with 2KW source	50KVA/75.9A	40.2KVA/61A	39.6KVA/59.4A
Total power capacity/current with 1.5KW source	56.2KVA/85.4A	46.4KVA/70.5A	46.3KVA/69.5A

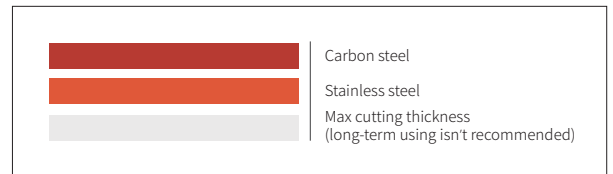
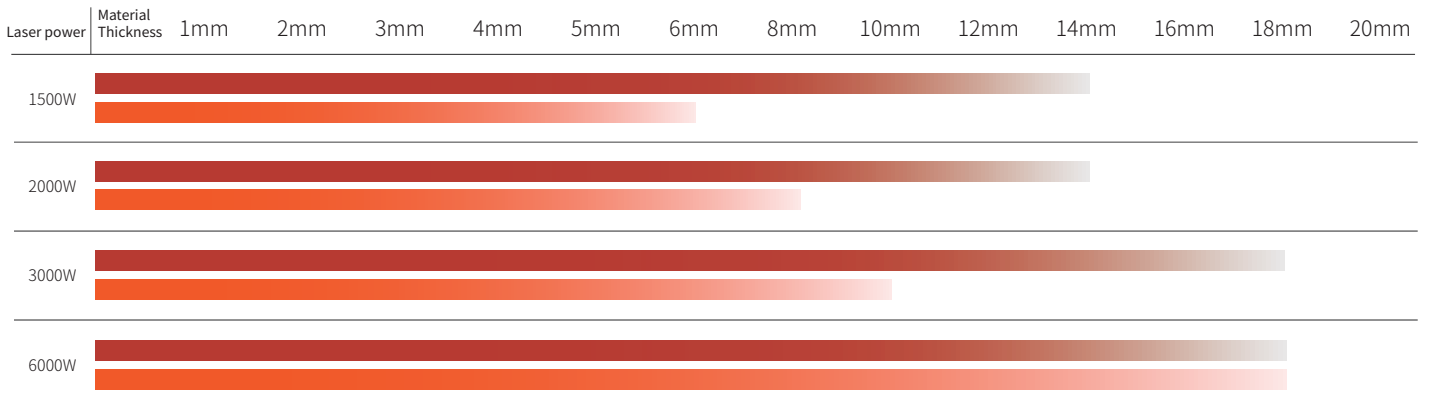
Configuration And Components

laser head	Bodor Genius T
Laser source	Bodor/IPG
Chuck	NC electric chuck
Standard blanking rack	●
Linear Rails	Made in Taiwan
Rack	bodor
"X-axis, Y-axis, Z-axis, A-axis Servo motor and driver"	Japan Yaskawa
Control system	Bodor Thinker 3.0
Display size	21.5 inches
Electrical proportional valve	Japan SMC/Germany AVENTICS
O2 Cutting gas control valve	Japan SMC
N2 Cutting gas control valve	Japan SMC
Water Chiller	●
Dust removal	Centrifugal fan

Tube Cutting Parameters

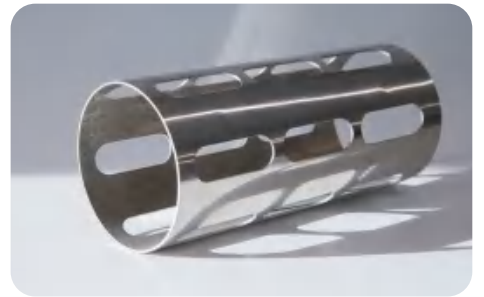
		1000W	1500W	2000W	3000W	6000W
	Thickness (mm)	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min
Carbon steel	1	12--15	17--19	16--20	18--21	18--21
	2	5--7	6--8	8--10	10--12	15-20
	3	2--3	2.5--3.5	3.0--4.8	3.5--5	3.8--5.5
	4	2--2.4	2.3--2.8	2.8--3.5	3--3.8	3.2--4.3
	5	1--1.6	1.8--2.4	2.5--3	2.6--3.2	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
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						

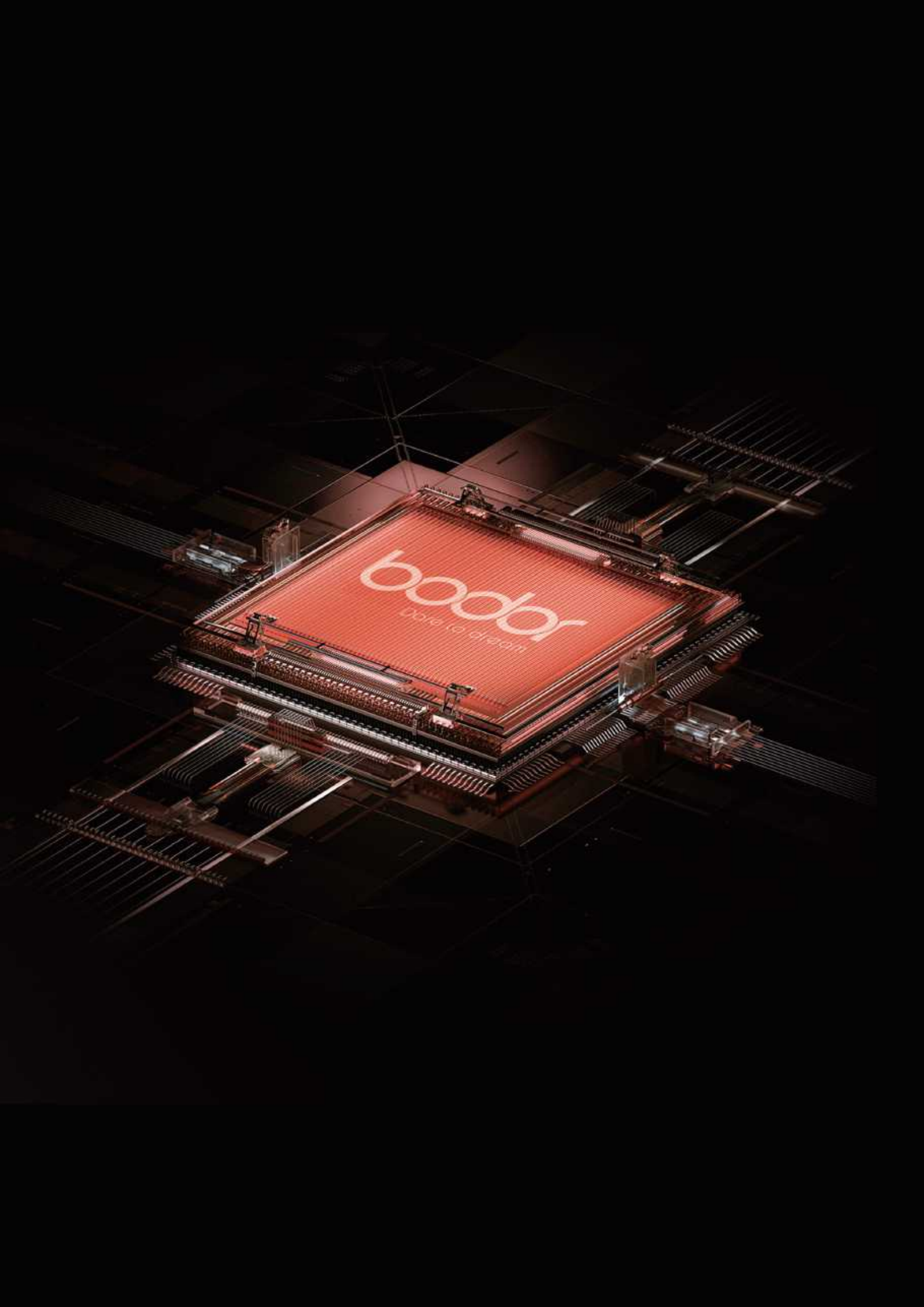
Cutting Capacity



Above data is only for reference

Cutting Samples





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care le dream