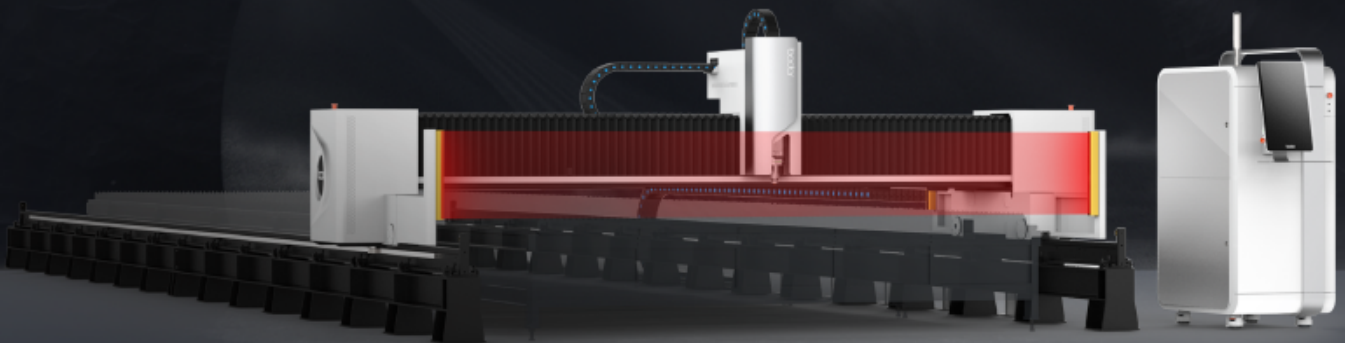


G SERIES

LARGE FORMAT LASER CUTTING MACHINE WITH LIGHT RAIL BED

6kW/12kW/20kW/22kW/30kW/40kW



ULTRA-LARGE FORMAT



$12 + 4 \times N$

(The modular bed length reaches a maximum of 24M.)

Advantages

- Various sizes are available with a maximum of 24500mm*3200mm thanks to the sectional modules of machine bed with uniform stress distribution.
- Achieve overall machining of long workpieces, meet more cutting demands.

BODOR THINKER



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 informatized solutions.

INTELLIGENT FUCTIONS



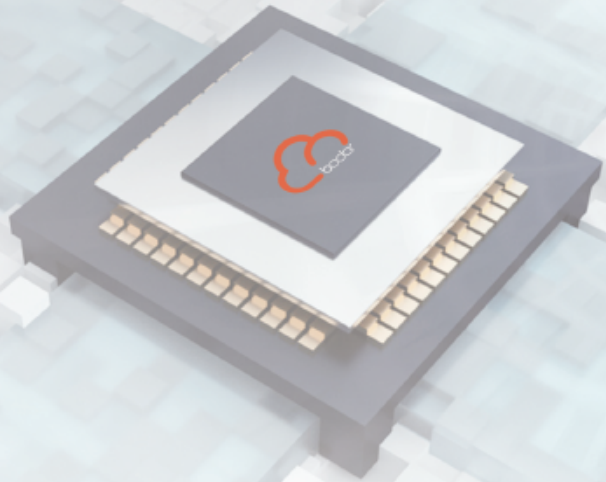
Intelligent Anti-collision of Laser Head

- 360°radar system can detect any obstacles in advance, and Z axis high-speed motion will be activated to immediately avoid obstacles, avoiding collisions.

Air Pressure Intelligent Control

- 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.

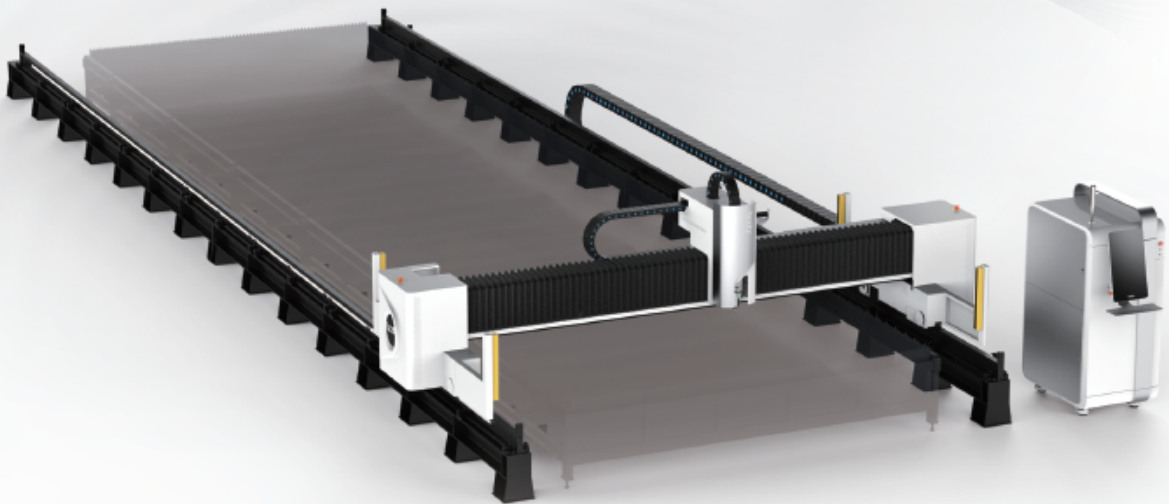
HIGH SPEED CUTTING EXPERT DATABASE



Advantages

- Including data for various cutting technologies, such as carbon steel oxygen fast cutting (COF), carbon steel Economic fast cutting (CEF), Low Pressure Nitrogen fast cutting (LNF), etc.
- For COF, the speed is doubled without changing the cutting quality when cutting thick plate
- For LNF, the nitrogen pressure reduces to 4 bar when cutting 10mm stainless steel, the cutting speed can be improved at least 10%.

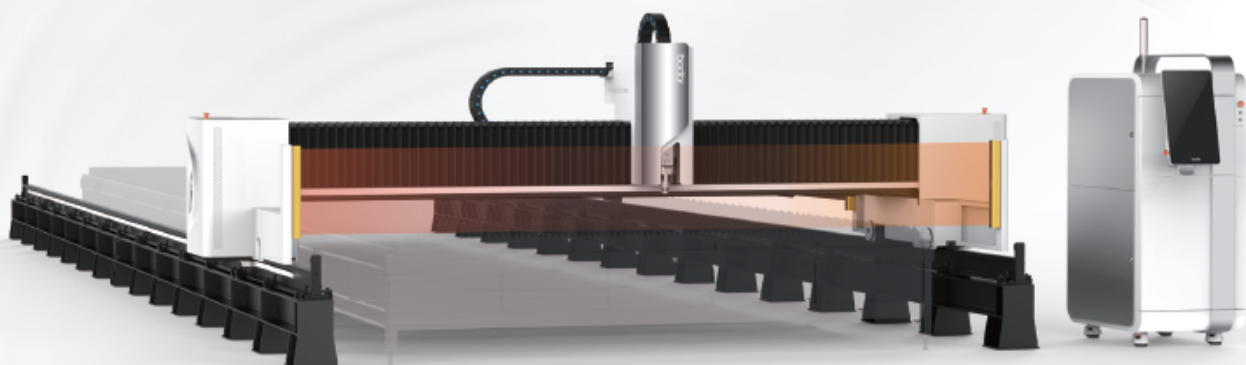
LIGHT RAIL BED



Advantages

- Light rail type bed with sectional structure, featuring flexible installation, easy maintenance and convenient transportation;
- The bed is separated from the table, ensuring the strength and stability by effectively preventing the bed from being deformed by heat;
- The working table is optional and can be configured according to user's need.

PROTECTIVE LIGHT CURTAIN

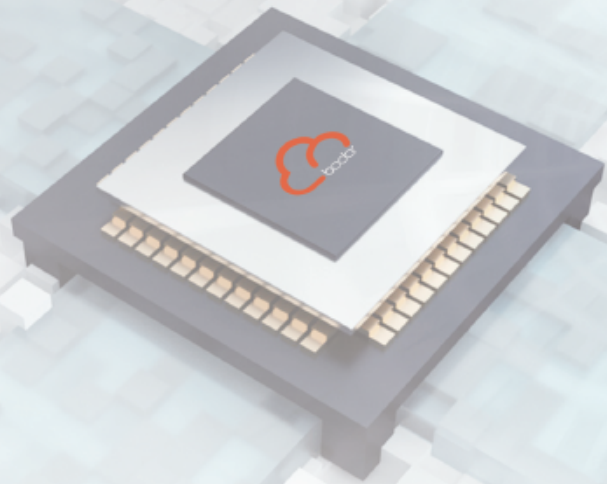


Advantages

- Two pairs of light curtains on the crossbeam, the machine stops running once the obstacle is detected between the two curtains.
- Greatly improve the safety of equipment use and personnel safety by automatically detecting the movement range of the crossbeam and cutting parts.

BODORGENIUS LASER HEAD

(RANGE FROM 6KW TO 22KW)



Advantages

- The light-weight design ensures excellent acceleration performance and cutting speed.
- Excellent design in air flow and water-cooling structure enables the laser-head to continuously and efficiently operate at high power.
- Built-in drive unit, the automatic focus adjustment range is +10~ -12 mm, adjustment accuracy of 0.05mm.
- Collimation mirrors and focus mirrors are all using composite lenses, which can obtain the optimal optical quality and cutting effect.
- Distance detection device has no drift, ensures rapid reaction.

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

Technical Data

ITEM	G24	G20	G16	G12
Working area	24500mm*3200mm	20500mm*3200mm	16500mm*3200mm	12500mm*3200mm
Max. linkage speed	50m/min	50m/min	50m/min	50m/min
Max. acceleration	0.5G	0.5G	0.5G	0.5G
Table load bearing	34000KG	28000KG	23000KG	17000KG
Distance between rails	4300mm	4300mm	4300mm	4300mm
Machine overall dimensions	27150*4600*2200	22850*4600*2200	18550*4600*2200	14250*4600*2200
Overall weight	4640kg	4260kg	3880kg	3500kg
Z axis travel	135mm	135mm	135mm	135mm
Positioning accuracy	0.1mm/m	0.1mm/m	0.1mm/m	0.1mm/m
Repositioning accuracy	0.1mm/m	0.1mm/m	0.1mm/m	0.1mm/m
Total power capacity/current with 40KW MAX source	x	x	268.6KVA/408.1A	266.1KVA/404.3A
Total power capacity/current with 30KW MAX source	x	x	208.6KVA/317A	206.1KVA/313.2A
Total power capacity/current with 22KW source	x	x	130.8KVA/200.1A	143.5KVA/219.5A
Total power capacity/current with 20KW source	157.9KVA/239.9A	152.4KVA/231.5A	127.8KVA/194.1A	140.5KVA/213.5A
Total power capacity/current with 12KW source	114.0KVA/173.2A	108.5KVA/164.9A	99.1KVA/150.6A	96.6KVA/146.8A
Total power capacity/current with 6KW source	79.3KVA/120.4A	73.8KVA/112.1A	64.4KVA/97.8A	61.9KVA/94A

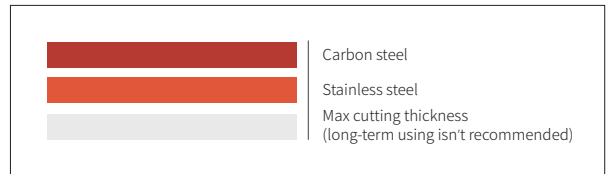
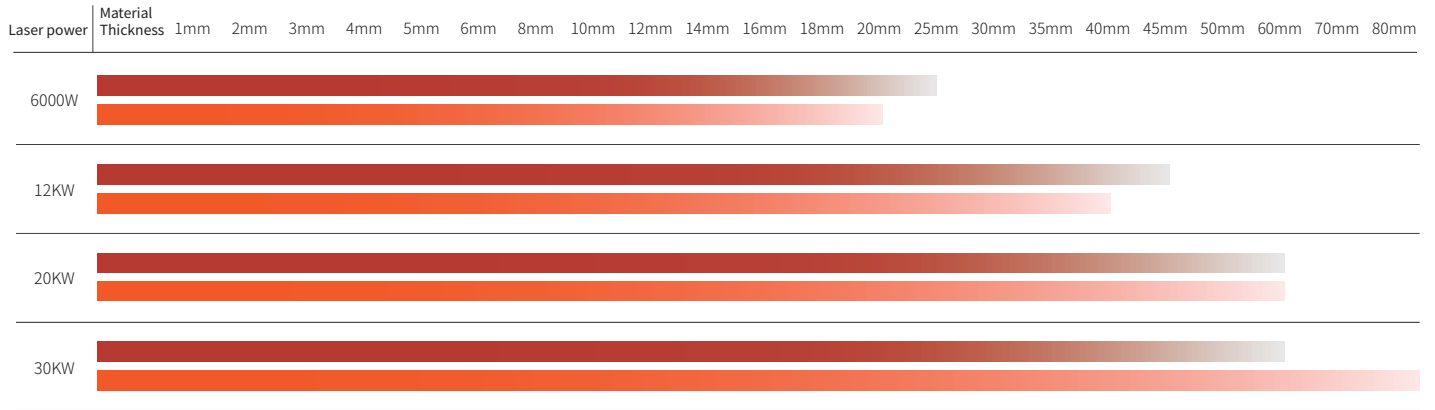
Configuration And Components

laser head	Bodor Genius
Laser source	Bodor Power
Machine bed	Segmented type rail lathe bed
Gantry structure	High strength welding beam
X-axis、 Y-axis、 Z-axis Servo motor and driver	Bodor
Linear Rails	Bodor
Rack	Bodor
Control system	BodorThinker
Display size	21.5 inches
Water Chiller	●

Cutting Parameters

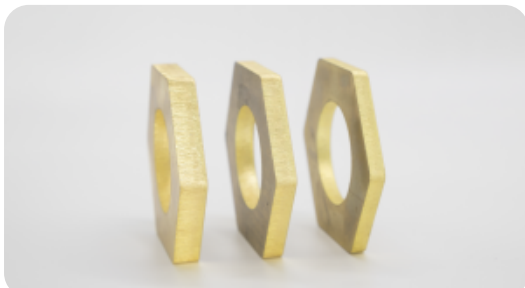
		1000W	1500W	2000W	3000W	6000W	12kW	20kW	30kW
	Thickness	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min
"Carbon steel (Q235A) O2"	1	8.0-10	8.0-10	8.0-10	8.0-10	8-10	9-11	9-11	9-11
	2	4.0-6.5	4.5-6.5	4.7-6.5	4.8-7.5	5-7.5	5-7.5	5-7.5	5-7.5
	3	2.4-3.0	2.6-4.0	3.0-4.8	3.3-5.0	3.5-5	3.5-5.5	3.5-5.5	3.5-5.5
	4	2.0-2.4	2.5-3.0	2.8-3.5	3.0-4.2	3.0-4.5	3.5-5	3.5-5	3.5-5
	5	1.5-2.0	2.0-2.5	2.2-3.0	2.6-3.5	3.0-4.2	3.3-4.8	3.3-4.8	3.3-4.8
	6	1.4-1.6	1.6-2.2	1.8-2.6	2.3-3.2	2.5-3.5	3.0-4.2	3.0-4.2	3.0-4.5
	8	0.8-1.2	1.0-1.4	1.2-1.8	1.8-2.6	2.2-3.2	2.5-3.8	2.5-3.9	2.5-3.9
	10	0.6-1.0	0.8-1.1	1.1-1.3	1.2-2.0	1.8-2.5	2.2-3.6	2.0-3.8	2.2-3.8
	12	0.5-0.8	0.7-1.0	0.9-1.2	1.0-1.6	1.2-2.1	1.2-3.5	1.6-3.7	1.6-3.7
	14		0.5-0.7	0.8-1.0	0.9-1.2	1.2-1.8	1.7-3.3	1.5-3.6	1.6-3.6
	16			0.6-0.8	0.7-1.0	0.8-1.5	1.2-3.1	1.4-3.5	1.5-3.5
	18			0.5-0.7	0.6-0.8	0.6-1.2	1.0-2.7	1.4-3.4	1.4-3.4
	20				0.5-0.8	0.5-0.8	0.6-2.4	1.5-3.3	1.5-3.3
	25					0.3-0.55	0.5-1.6	1.0-2.8	1.0-2.8
	30						0.3-1.0	0.8-2.0	1.2-2.0
	35						0.3-0.7	0.6-0.9	0.9-1.1
40						0.2-0.4	0.5-1.0	0.8-1.0	
45						0.2-0.3	0.3-0.5	0.5-0.8	
50							0.2-0.5	0.4-0.6	
60							0.2-0.4	0.2-0.4	
"Stainless steel (201) N2"	1	18-25	20-27	24-50	30-35	42-52	70-85	72-100	72-100
	2	5-7.5	8.0-12	9.0-15	13-21	20-33	40-66	50-75	50-75
	3	1.8-2.5	3.0-5.0	4.8-7.5	6.0-10	15-22	35-45	38-55	38-55
	4	1.2-1.3	1.5-2.4	3.2-4.5	4.0-6.0	10-15	20-32	25-33	30-35
	5	0.6-0.7	0.7-1.3	2.0-2.8	3.0-5.0	7.0-12	18-25	22-30	25-32
	6		0.7-1.0	1.2-2.0	2.0-4.0	4.8-9.0	12-15	17-25	18-26
	8			0.7-1.0	1.5-2.0	3.0-4.0	8-12	12-18	15-20
	10				0.6-0.8	1.6-2.5	6.0-8.0	8.0-12.0	12-15
	12				0.4-0.6	0.8-1.5	4.0-5.5	6.0-8.5	8-12
	14					0.6-1.2	3.0-5.0	5.0-7.0	6-10.5
	16					0.5-1.0	2.2-2.8	3.0-5.0	5-9
	18					0.4-0.8	1.2-2.0	1.8-2.7	3-6.5
	20					0.3-0.6	1.0-1.6	1.5-3.2	2-4.7
	25						0.5-0.8	1.5-2.0	1.8-2.5
	30						0.3-0.6	1.0-1.5	1.5-1.8
	35						0.3-0.5	0.4-0.8	1.0-1.5
40						0.3-0.5	0.3-0.6	0.6-1.3	
45							0.2-0.6	0.8-1.0	
50							0.2-0.5	0.25-0.5	
60							0.1-0.3	0.2-0.3	
70								0.17-0.3	
80								0.15-0.3	
"Aluminum N2"	1	6.0-10	10-20	20-30	25-38	42-55	60-85	70-100	
	2	2.8-3.6	5.0-7.0	10-15	10-18	20-40	38-50	40-70	
	3		2.0-4.0	5.0-7.0	6.5-8.0	15-25	30-40	35-60	
	4		1.0-1.5	3.5-5.0	3.5-5.0	9.5-12	20-30	30-43	
	5			1.8-2.5	2.5-3.5	5.0-8.0	15-25	20-32	
	6			1.0-1.5	1.5-2.5	3.8-5.0	10-15	15-26	
	8				0.7-1.0	2.0-2.5	7.0-12	10-18	
	10				0.4-0.7	1.0-1.5	4.5-8.0	6.0-10.0	
	12					0.8-1.3	4.0-5.0	4.0-6.0	
	14					0.9-1.2	1.8-2.7	2.2-3.2	
	16					0.5-0.8	1.5-2.5	2.0-3.0	
	18					0.5-0.7	1.0-1.8	1.5-2.0	
	20					0.5-0.7	0.9-1.5	1.3-1.8	
	25						0.6-0.9	0.6-1.2	
	30						0.3-0.8	0.5-1.0	
	35						0.3-0.6	0.3-0.8	
40						0.3-0.4	0.3-0.5		
"Brass N2"	1	6.0-10	8.0-13	12-18	20-35	35-45	55-65	65-75	
	2	2.8-3.6	3.0-4.5	6.0-8.5	6.0-10	20-30	38-42	40-60	
	3		1.5-2.5	2.5-4.0	4.0-6.0	12-18	18-30	25-40	
	4		1.0-1.6	2.0-3.0	3.0-5.0	8.0-12.0	15-20	20-35	
	5			0.9-1.2	1.5-2.0	6.0-8.0	10-15	18-25	
	6				1.0-1.8	3.0-6.5	6.0-8.0	10-18	
	8					1.6-2.2	5.0-7.0	8.0-10.0	
	10					0.8-1.2	4.5-6.0	5.0-9.0	
	12					0.3-0.5	2.4-4.0	2.8-4.2	
	14						0.8-1.5	1.5-5.0	
	16						0.6-1.2	1-2.4	
	18						0.4-0.6	0.8-2.2	
	20							0.4-2.0	
25							0.3-0.5		

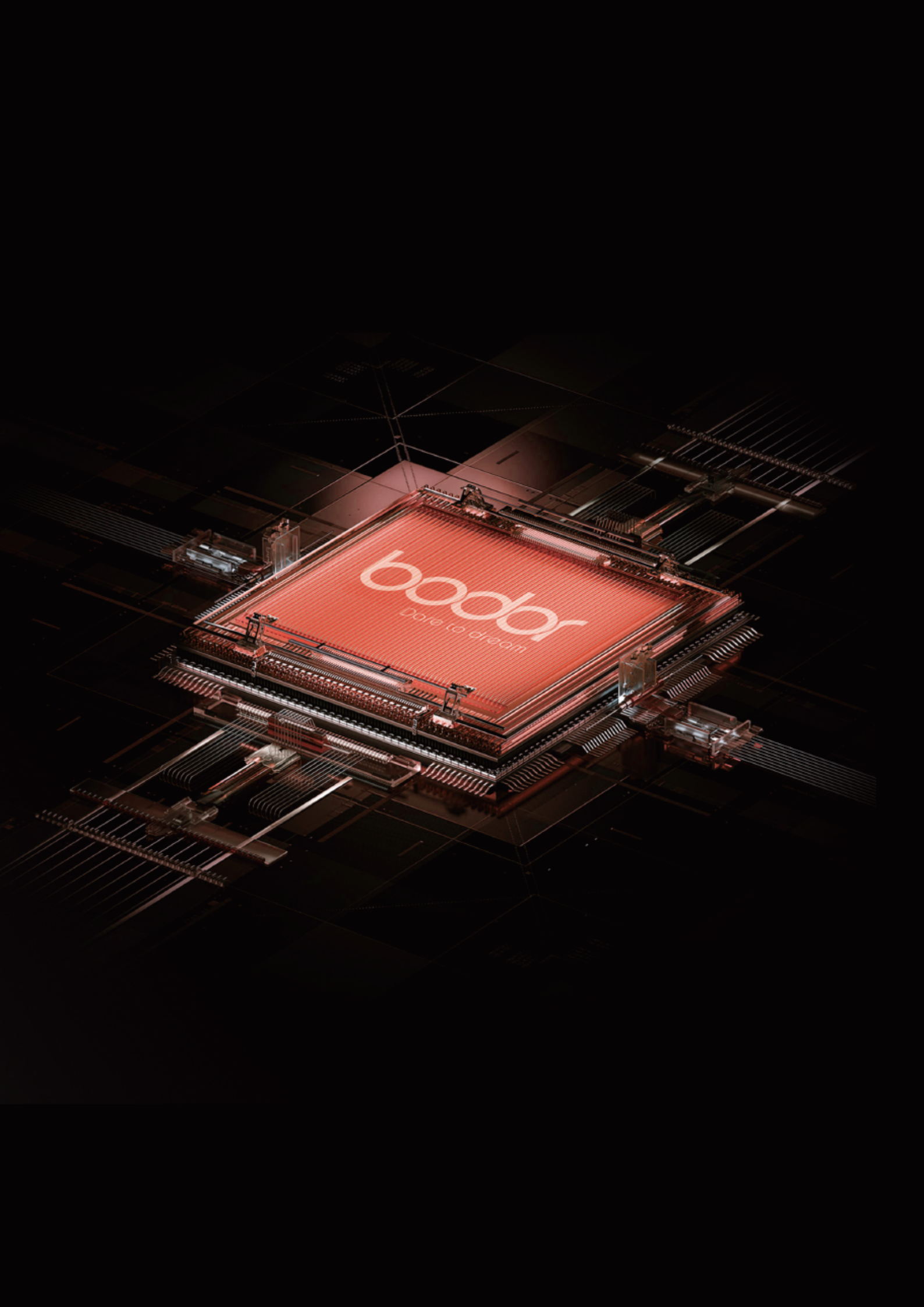
Cutting Capacity



Above data is only for reference

Cutting Samples





boddor
Care to dream