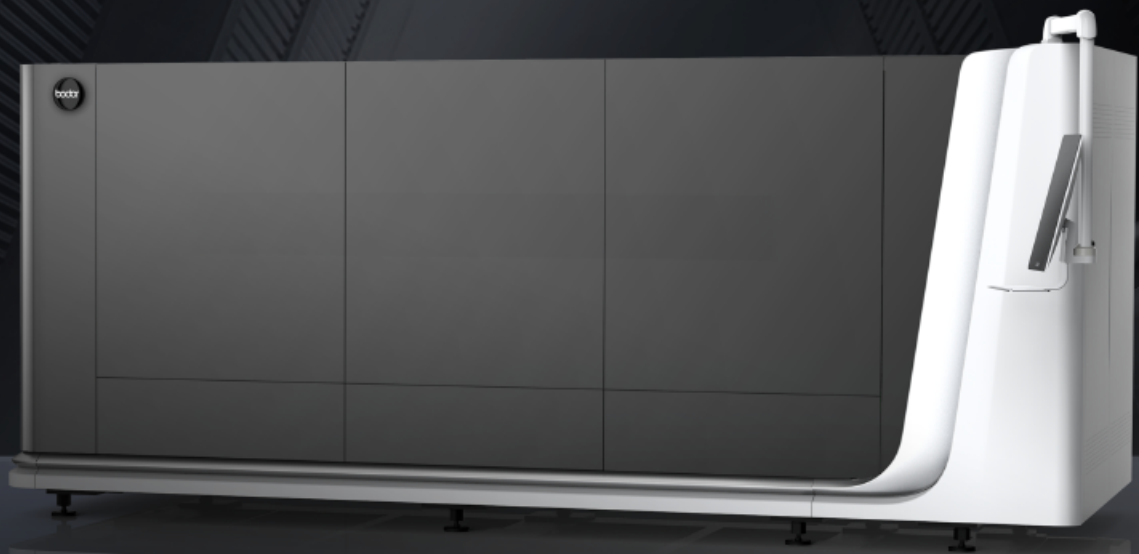
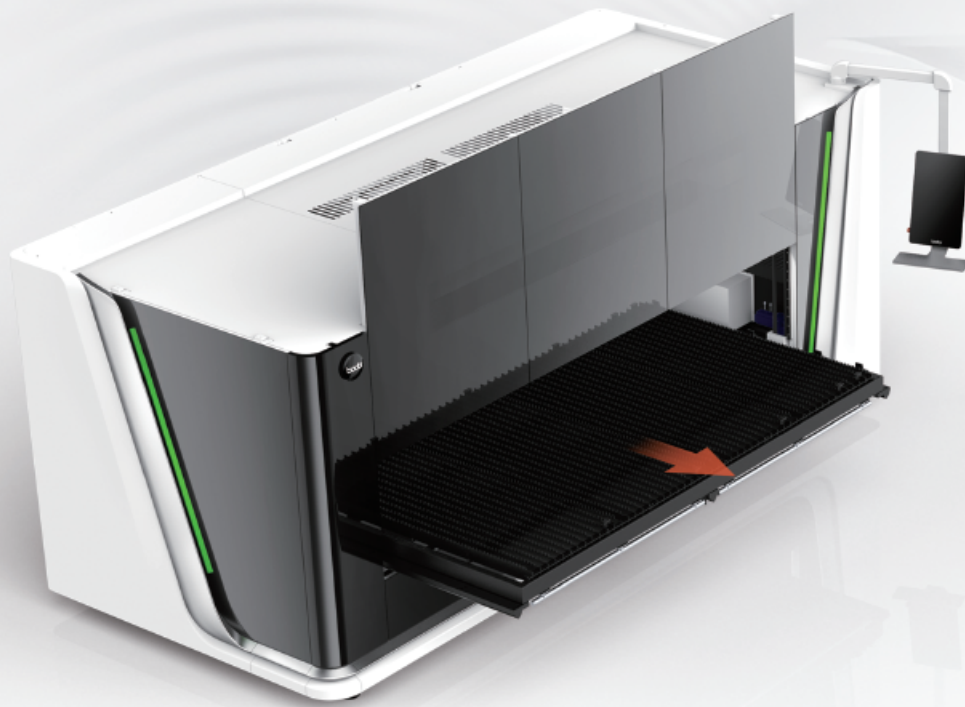


i SERIES

ULTRA-PRECISE LASER CUTTING MACHINE



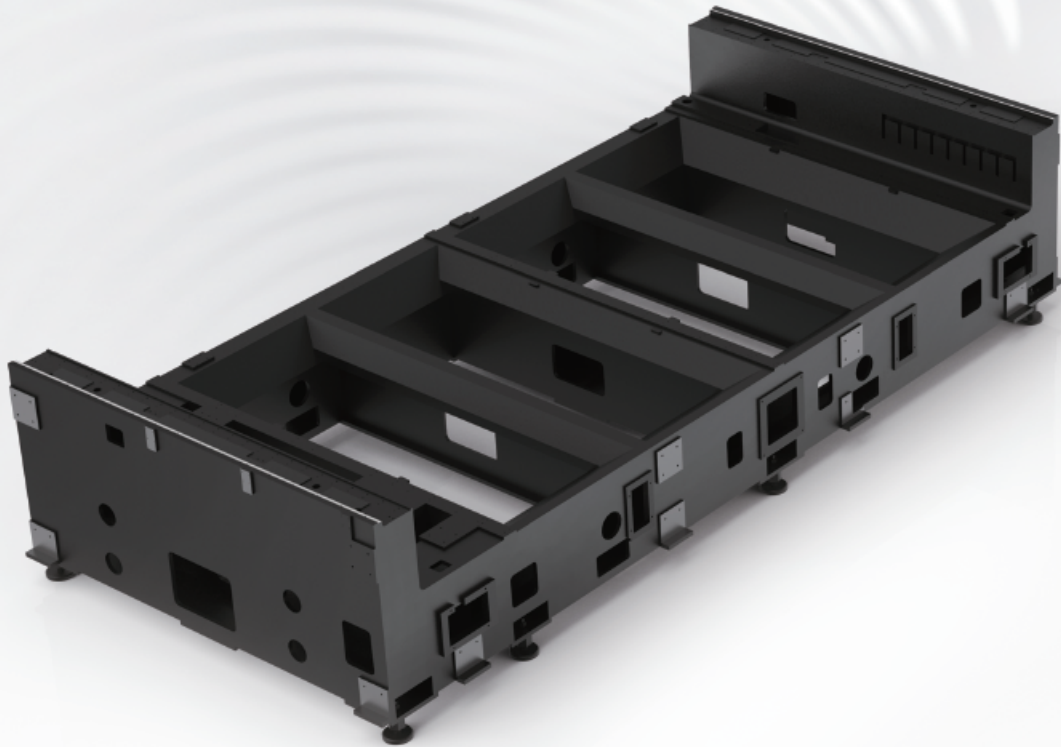
SMALL IN SIZE, MORE IN FLEXIBILITY



Advantages

- The compact design with small space occupation
- Full enclosed protection and isolated work area completely isolate smoke and laser radiation.
- Side door opening, the table can be stretched out, easy to operate.
- Single-phase power supply can ensure the normal operation of equipment, which makes it more convenient to connect, it could work in various places.

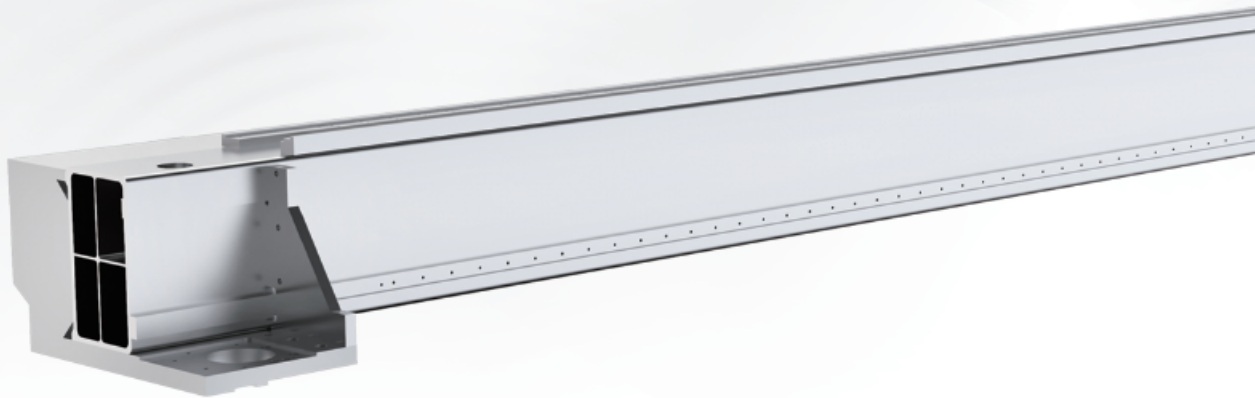
CAST IRON BED



Advantages

- Pouring mold, clone production; integrally formed, reject splicing
- The usage of flake graphite with the lowest tensile strength of 200MPa gives the whole equipment strong shock absorption, wear resistance, high hardness, high carbon content, high compressive strength.
- Low notch sensitivity and thermal sensitivity of cast iron bed reduces the loss of equipment in using, keeps the precision of cutting unchanged and no deformation in its life cycle.

CAST ALUMINUM CROSSBEAM



Advantages

- Integral pressure casting by steel mold makes it light, flexible and efficient
- The light weight and strong rigidity of aluminum alloy are suitable for high speed movement during processing, and the high flexibility is beneficial to high-speed cutting of various graphics.
- Light crossbeam offers high operation speed, improving efficiency and ensuring quality.

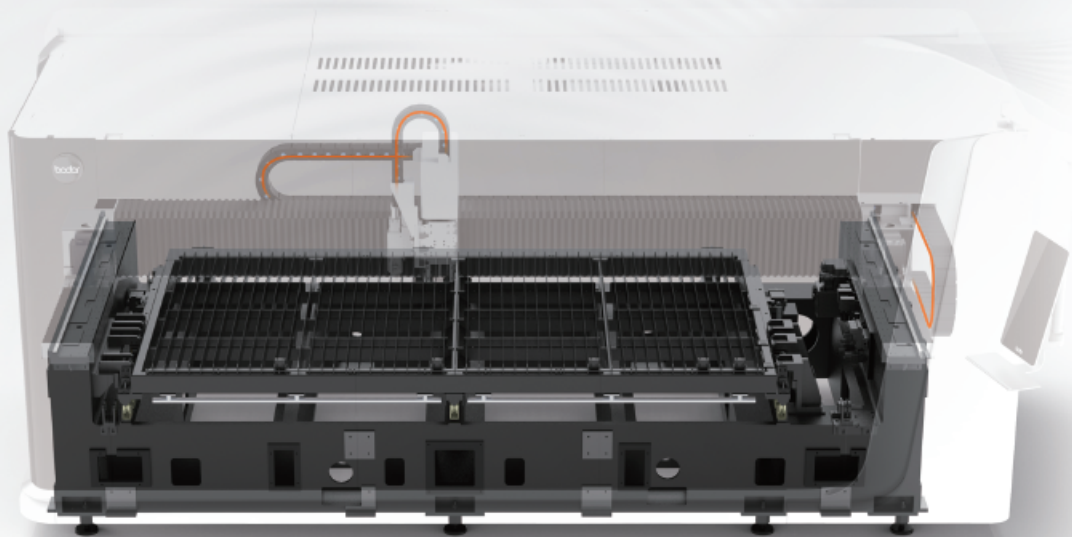
BODORPRO CONTROL SYSTEM



Advantages

- Integration of CAD and CAM can directly identify drawings and nest
- Good adaptability, support G code(NC)、DXF、PLT、ENG and other file formats
- The cutting speed and duty cycle can be adjusted to improve the perforation quality
- The imported drawings can be preprocessed

INTELLIGENT FUNCTIONS



Automatic lubrication system

- Automatic lubrication system provides timing and ration lubricating oil for equipment to ensure its normal and high speed operation, and owns functions of abnormal alarm and liquid level alarm. The system greatly enhances cutting accuracy and effectively extends service life of transmission mechanism.

Intelligent travel protection

- Automatically monitor operation range of crossbeam and cutting parts, keeping operation within machining range. Double guarantees of fixed limitation greatly improve equipment and personal safety, minimizing the using risks.

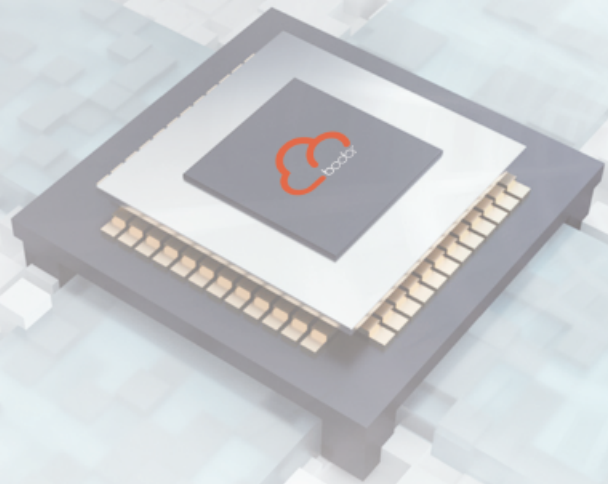
INTELLIGENT FUNCTIONS



A new generation of safety following module

- Laser head keeping distance with work piece in cutting process can reduce collision risks. It will stop cutting when colliding plate. The safety following module reduces accident rate and improves cutting performance.

INTELLIGENT FUNCTIONS



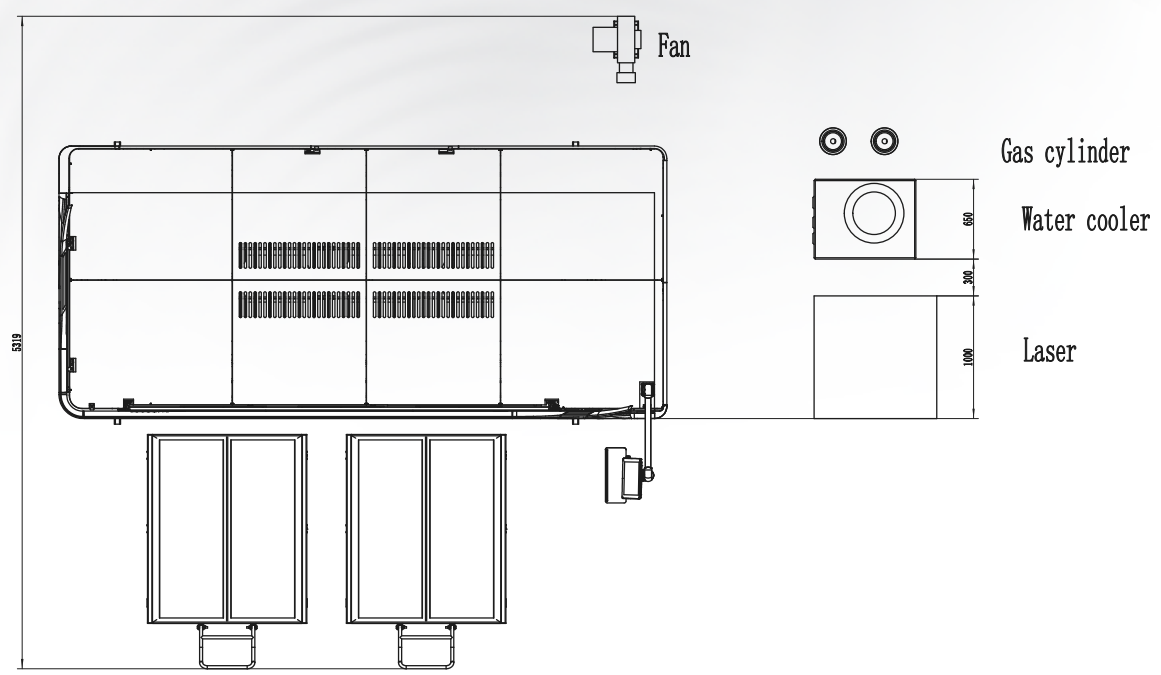
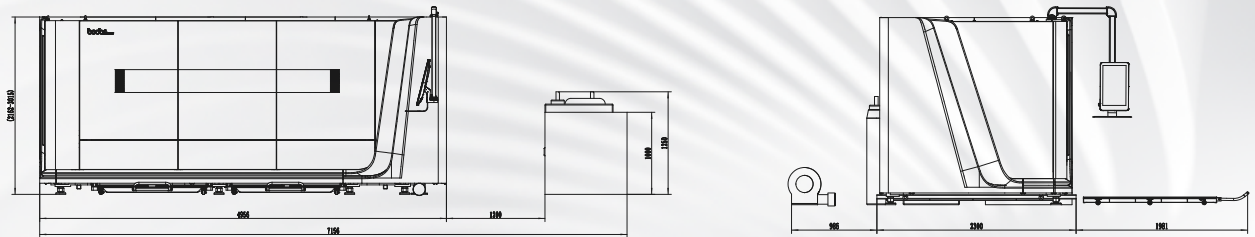
Intelligent alarm system

- The system will start full abnormal alarm and push it to the interface through control center when equipment is abnormal.
 - Finding equipment abnormal in advance and reducing hidden dangers can multiply improve the equipment troubleshooting efficiency.
-

Various intelligent sensor modules

- Various intelligent sensor modules to improve safety and device protection

Layout



machine front

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



i7
3048mm*1524mm



i5
1000mm*1500mm

Technical Data

ITEM	i7	i5
Working area	3048*1524mm	1000*1500mm
Max. linkage speed	100m/min	60m/min
Max. acceleration	1.0G	0.6G
Table load bearing	900kg	250kg
Machine overall dimensions	4960x2280x2200	3630x2200x1940
Overall weight	7500kg	3000kg
Z axis travel	120mm	70mm
Positioning accuracy	±0.05mm	±0.05mm
Repositioning accuracy	±0.03mm	±0.03mm
Total power capacity/current with 3KW source	50.7KVA/77A	39.4KVA/59.8A
Total power capacity/current with 2KW source	39.6KVA/60.2A	28.3KVA/43A
Total power capacity/current with 1.5KW source	39.3KVA/59.7A	single-phase:28KVA/73.5A three-phase:38VA/42.5A

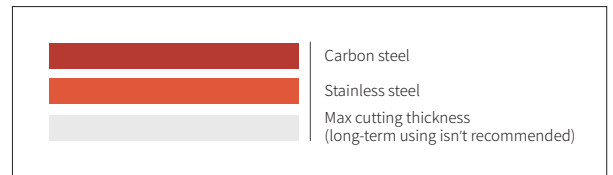
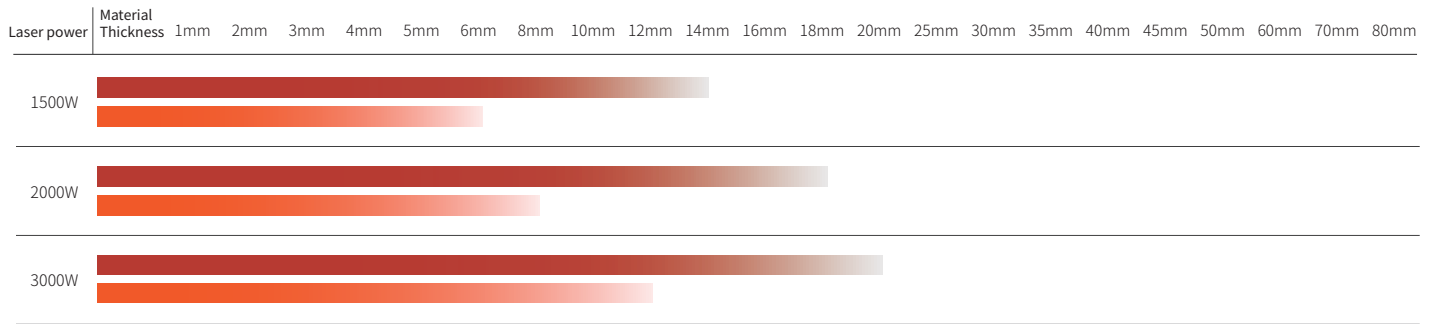
Configuration And Components

laser head	BodorGenius	
Laser source	MAX/IPG	
Machine bed	Cast iron bed	
Bed functions	Easy-access sliding bed	Stationary bed (optional pneumatic sheet-clamping)
X-axis、 Y-axis、 Z-axis Servo motor and driver	Japan Yaskawa	
Linear Rails	Made in Taiwan	
Leadscrew	Made in Taiwan	
Protective Enclosure	●	
Control system	BodorPro 2.0	
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	

Cutting Parameters

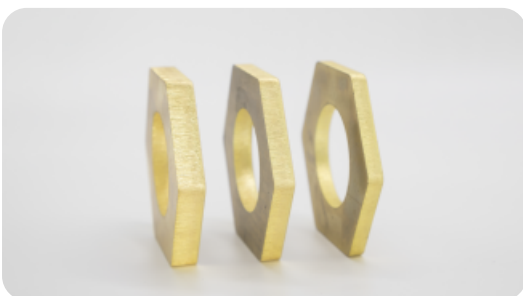
	Thickness	1000W speed m/min	1500W speed m/min	2000W speed m/min	3000W speed m/min	6000W speed m/min	12kW speed m/min	15kW speed m/min	20kW speed m/min	30kW speed m/min
"Carbon steel (Q235A) O2"	1	8.0-10	8.0-10	8.0-10	8.0-10	8-10	9-11	9-11	9-11	9-11
	2	4.0-6.5	4.5-6.5	4.7-6.5	4.8-7.5	5-7.5	5-7.5	5-7.5	5-7.5	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	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	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	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	3.0-4.2	3.0-4.2
	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	2.5-3.8	2.5-3.8	2.5-3.8
	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	2.2-3.6	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	1.2-3.6	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	1.5-3.5	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	1.2-3.5	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	1.2-3.0	1.4-3.4	1.4-3.4
	20				0.5-0.8	0.5-0.8	0.6-2.4	1.2-2.7	1.5-3.3	1.5-3.3
	25					0.3-0.55	0.5-1.6	0.8-1.8	1.0-2.8	1.0-2.8
	30						0.3-1.0	0.6-1.4	0.8-2.0	1.2-2.0
	35						0.3-0.7	0.4-0.7	0.6-0.9	0.9-1.1
40						0.2-0.4	0.3-0.5	0.5-1.0	0.8-1.0	
45						0.2-0.3	0.2-0.5	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	72-100
	2	5-7.5	8.0-12	9.0-15	13-21	20-33	40-66	45-70	50-75	50-75
	3	1.8-2.5	3.0-5.0	4.8-7.5	6.0-10	15-22	35-45	38-50	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	25-35	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	20-30	22-30	25-32
	6		0.7-1.0	1.2-2.0	2.0-4.0	4.8-9.0	12-15	15.0-25.0	17-25	18-26
	8			0.7-1.0	1.5-2.0	3.0-4.0	8-12	8.0-12.0	12-18	15-20
	10				0.6-0.8	1.6-2.5	6.0-8.0	6.0-10.0	8.0-12.0	12-15
	12				0.4-0.6	0.8-1.5	4.0-5.5	4.0-6.0	6.0-8.5	8-12
	14					0.6-1.2	3.0-5.0	3.5-5.5	5.0-7.0	6-10.5
	16					0.5-1.0	2.2-2.8	2.5-3.0	3.0-5.0	5-9
	18					0.4-0.8	1.2-2.0	1.2-2.2	1.8-2.7	3-6.5
	20					0.3-0.6	1.0-1.6	1.3-1.8	1.5-3.2	2-4.7
	25						0.5-0.8	0.6-1.2	1.5-2.0	1.8-2.5
	30						0.3-0.6	0.5-1.0	1.0-1.5	1.5-1.8
	35						0.3-0.5	0.4-0.8	0.4-0.8	1.0-1.5
40						0.3-0.5	0.3-0.6	0.3-0.6	0.6-1.3	
45							0.2-0.5	0.2-0.6	0.8-1.0	
50							0.1-0.5	0.2-0.5	0.25-0.5	
60							0.1-0.2	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	70-100	
	2	2.8-3.6	5.0-7.0	10-15	10-18	20-40	38-50	40-55	40-70	
	3		2.0-4.0	5.0-7.0	6.5-8.0	15-25	30-40	35-45	35-60	
	4		1.0-1.5	3.5-5.0	3.5-5.0	9.5-12	20-30	30-40	30-43	
	5			1.8-2.5	2.5-3.5	5.0-8.0	15-25	20-30	20-32	
	6			1.0-1.5	1.5-2.5	3.8-5.0	10-15	15-24	15-26	
	8				0.7-1.0	2.0-2.5	7.0-12	8.0-12.0	10-18	
	10				0.4-0.7	1.0-1.5	4.5-8.0	5.0-9.0	6.0-10.0	
	12					0.8-1.3	4.0-5.0	4.0-6.0	4.0-6.0	
	14					0.9-1.2	1.8-2.7	2.5-3.2	2.2-3.2	
	16					0.5-0.8	1.5-2.5	2.0-3.0	2.0-3.0	
	18					0.5-0.7	1.0-1.8	1.5-1.9	1.5-2.0	
	20					0.5-0.7	0.9-1.5	1.3-1.8	1.3-1.8	
	25						0.6-0.9	0.6-1.2	0.6-1.2	
	30						0.3-0.8	0.5-1.0	0.5-1.0	
	35						0.3-0.6	0.3-0.8	0.3-0.8	
40						0.3-0.4	0.3-0.5	0.3-0.5		
"Brass N2"	1	6.0-10	8.0-13	12-18	20-35	35-45	55-65	60-70	65-75	
	2	2.8-3.6	3.0-4.5	6.0-8.5	6.0-10	20-30	38-42	40-45	40-60	
	3		1.5-2.5	2.5-4.0	4.0-6.0	12-18	18-30	20-35	25-40	
	4		1.0-1.6	2.0-3.0	3.0-5.0	8.0-12.0	15-20	18-30	20-35	
	5			0.9-1.2	1.5-2.0	6.0-8.0	10-15	15-20	18-25	
	6				1.0-1.8	3.0-6.5	6.0-8.0	8-15	10-18	
	8					1.6-2.2	5.0-7.0	8.0-10.0	8.0-10.0	
	10					0.8-1.2	4.5-6.0	5.0-6.5	5.0-9.0	
	12					0.3-0.5	2.4-4.0	2.8-4.2	2.8-4.2	
	14						0.8-1.5	1.0-1.8	1.5-5.0	
	16						0.6-1.2	0.8-1.5	1-2.4	
	18						0.4-0.6	0.6-0.8	0.8-2.2	
20							0.4-0.6	0.4-2.0		
25								0.3-0.5		

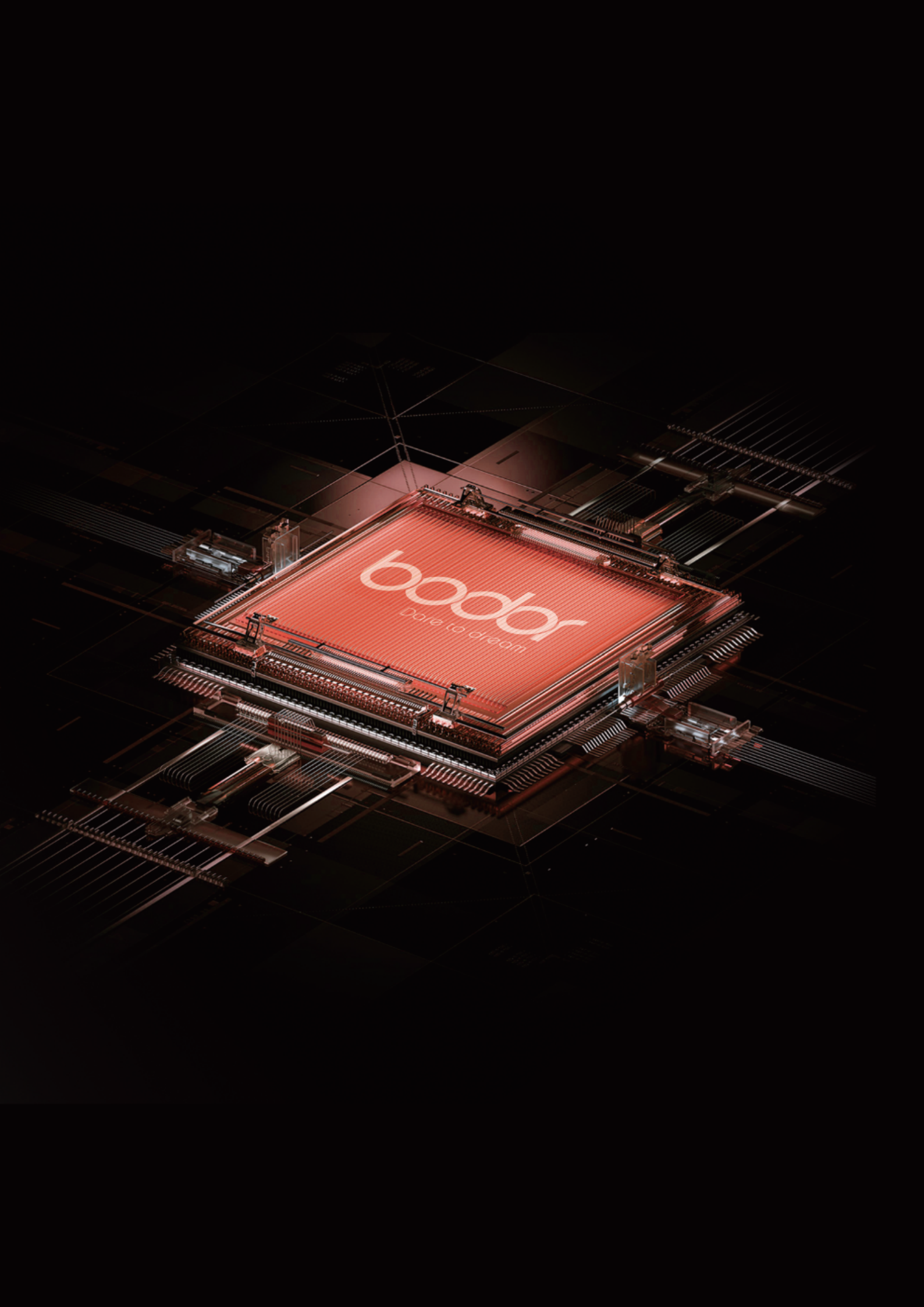
Cutting Capacity



Above data is only for reference

Cutting Samples





boodor
Care to dream