bodor

Dare to dream

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Version No. 202208

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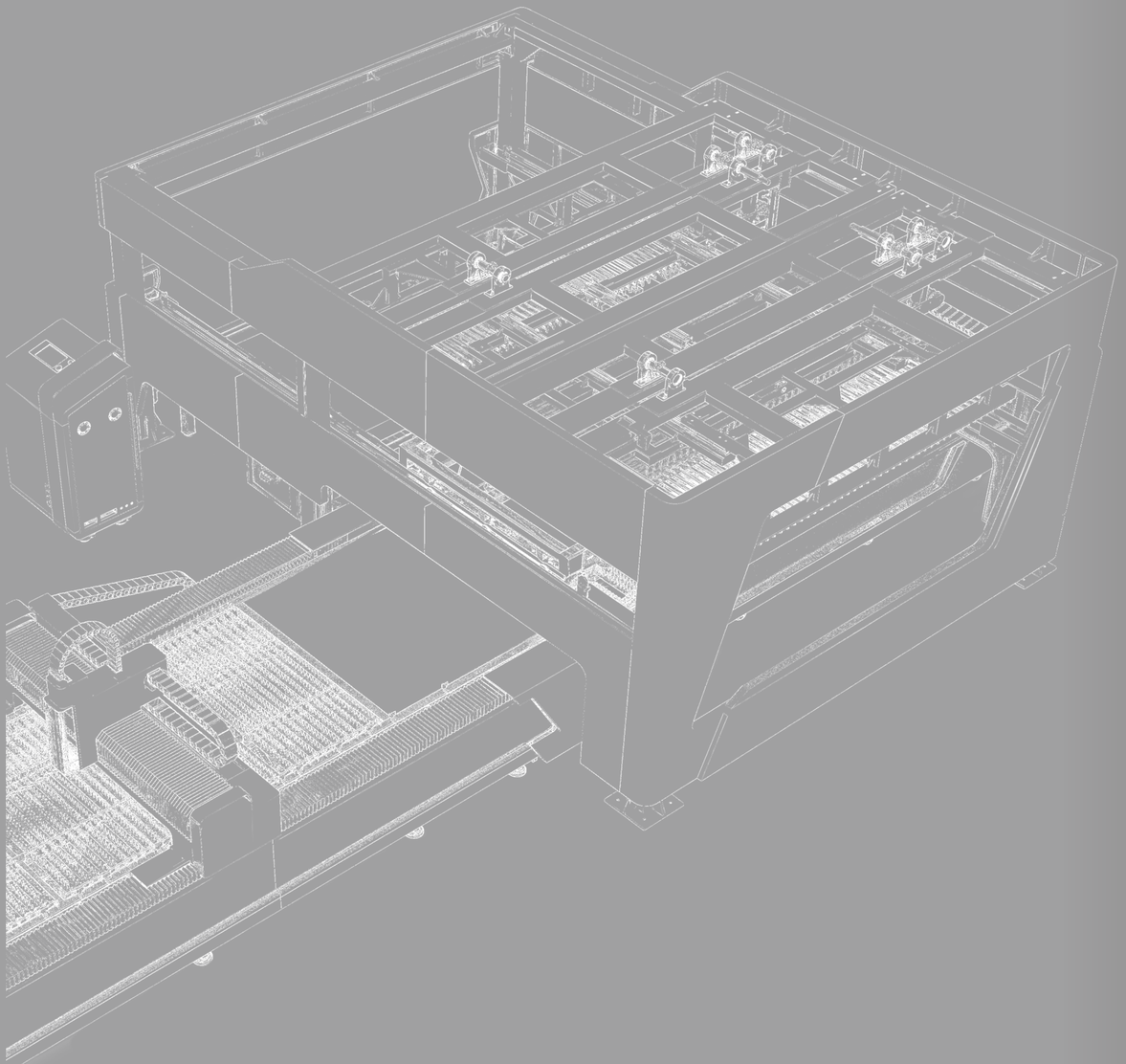
DARE TO DREAM



CONTENTS

Bodor Laser is an international company committed to R&D, production, and marketing of laser cutting machines.
Since its inception in 2008, Bodor Laser has set up complete marketing and service networks all around the world to provide its customers the best product and service experience.

51000m²
Super factory

2000
Employees

200+
R&D engineers

300+
Service engineers

180
Countries covered

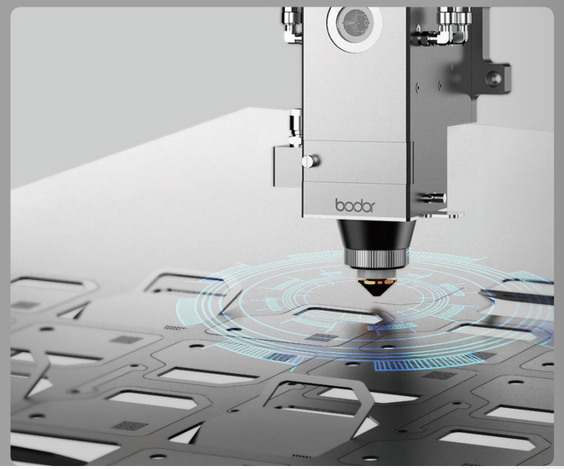
10+
Global branches

4
Global technical centers

CORE TECHNOLOGY

Active Anti-collision Function

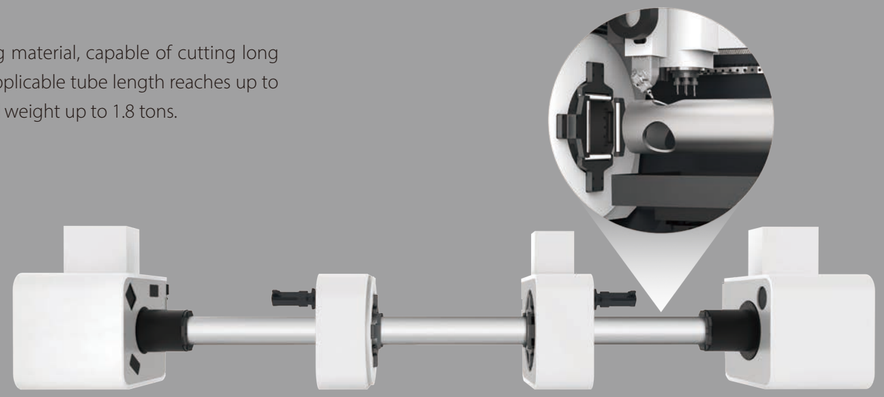
Recognition of obstacles such as warping workpieces in advance, avoidance of laser head damage, and assurance of continuous production.



01

Four Chucks

No waste of the cutting material, capable of cutting long and heavy tubes. The applicable tube length reaches up to a maximum of 12m and weight up to 1.8 tons.



03

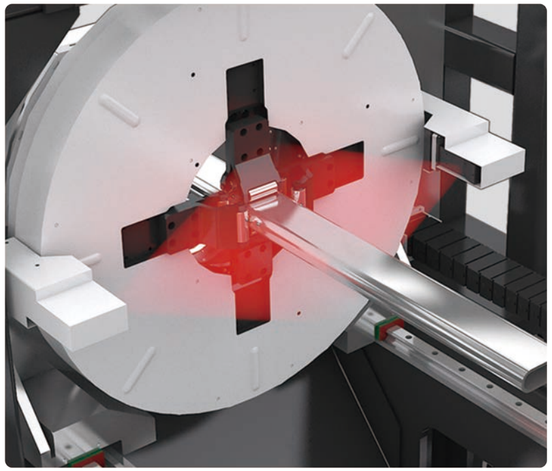
Automatic Nozzle Changer

Processing is achieved automatically by adapting suited nozzles, cleaning, and automatically calibrating according to the different cutting processes.

02

Contour Recognition

0.8s of the tube center recognition and automatic tube accuracy compensation, making tube cutting fast and accurate.

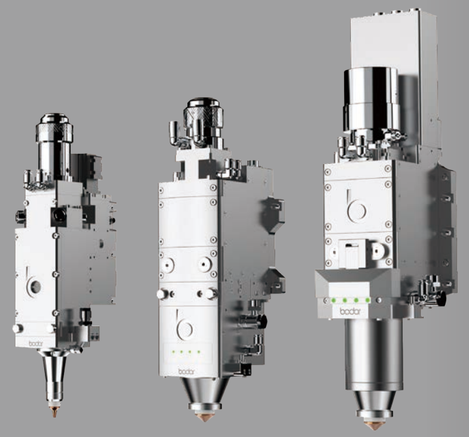


04

Bodor Genius

Bodor Laser Head:
Carrying a wide focus range for cutting various materials

Sharp-pointed Laser Head:
Made for diminishing tail materials, more convenient processing of special-shaped tubes, quicker follow-up response, and no collision.



05

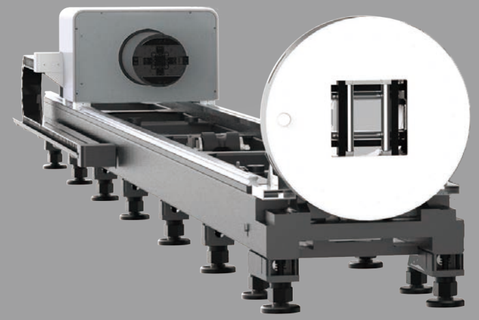
Intelligent Over-heat Adaptation

Through identifying lens focal length change and adjusting focus automatically, the technology corrects the focus drift due to overheating when cutting medium and thick sheets.

06

Pneumatic Chuck

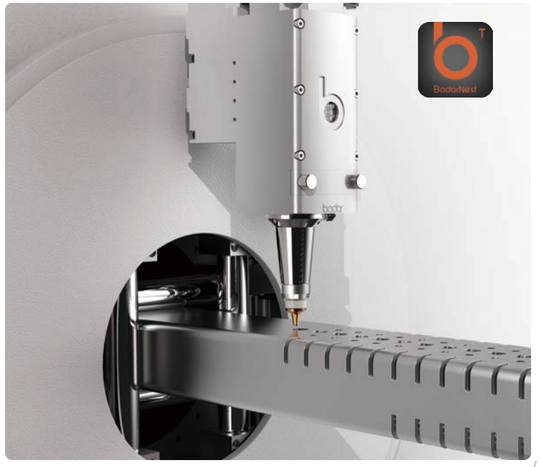
Quick clamping improves the work efficiency. The clamping force is large, stable and adjustable. Strong safety and reliability.



07

BodorNest Tube

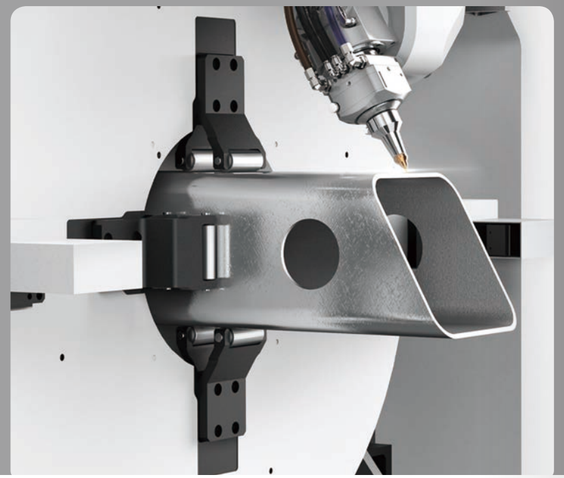
The system, presenting convenient layout and processing all the time even when offline, applies to groove steel, I-shaped steel, and other special-shaped tubes and is accessible for third-party machine tools.



08

Tube Bevel Cutting

Thanks to the 3D cutting head, the bevel cutting is suitable for various types of tubes, achieving seamless splicing of tubes.

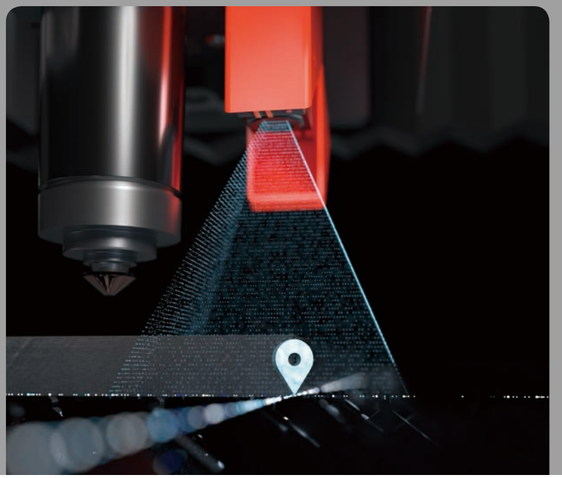


09

Space Eye

Edge seek in 3s, resetting limitation
Without long-span mechanical movement, the vision system of the machine locates apexes and offset angle of sheets in only 3 seconds.

Simple focusing with one click
Vision + algorithm, make zero focus recognition simple and perform automatic cutting, recognition, and compensation.



11

Bodor Thinker

Faster response and more faithful accuracy due to the bus control system for laser cutting, an intensive development based on Beckhoff.

10

Carbon Fiber Crossbeam

The crossbeam made of carbon fiber by vacuum hot pressing adopts the typical mechanical stable structure of triangular prism, with ultra-low density, lighter weight, and stronger rigidity, so that the dynamic performance is perfect without deformation.

12

HIGHER POWER, HIGHER EFFICIENCY

2019

In 2019, World Premiere of the 25000W and 30000W laser cutting machines

2020

In September 2020, World Premiere of the 40000W laser cutting machine
In November 2020, delivery of the world`s first batch of 30000W laser cutting machines

2021

Till December 2021, sales volume of ultra-high-power laser cutting machines(over 10kW) has exceeded 1000 units

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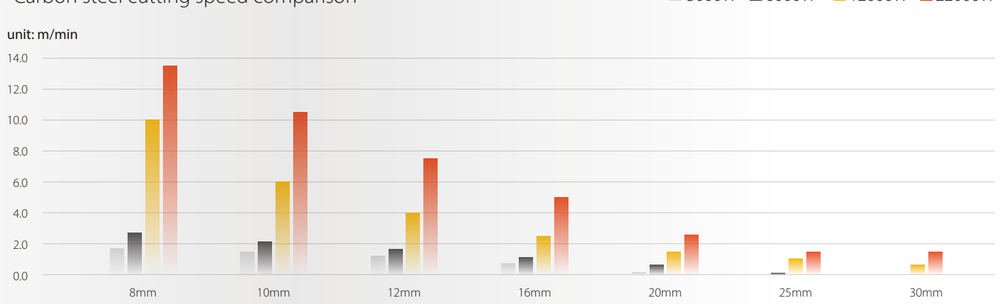
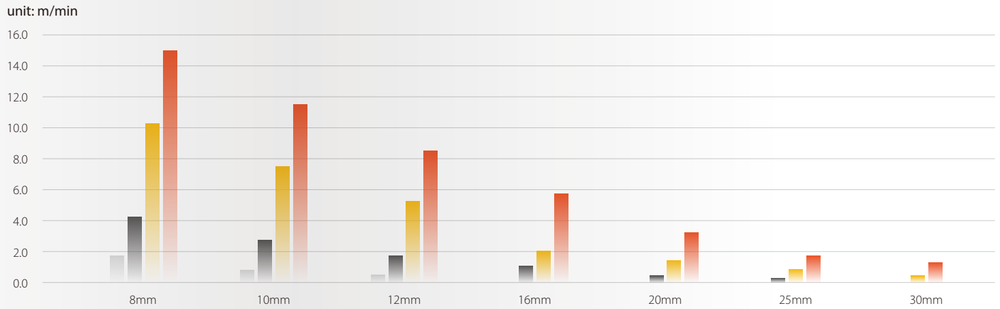
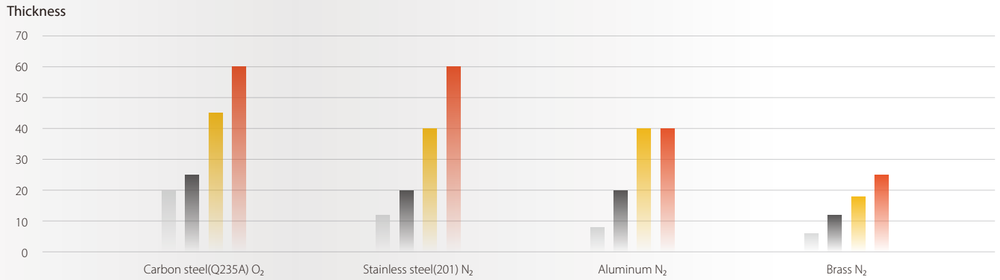
- Carbon steel cutting speed comparison



- Stainless steel cutting speed comparison



- Cutting thickness comparison



THE SECRET
TO A TREMENDOUS INCREASE
IN YOUR EFFICIENCY

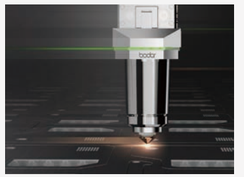
CATEGORY CREATOR

LASER SCANNING CUTTING MACHINE

Same power,
MUCH MORE CUTTING THICKNESS

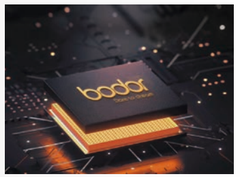
Same power,
MUCH MORE CUTTING SPEED

NO BEAM REFLECTION,
also for the batch processing of highly reflective materials



OPTICAL SYSTEM AND DEVICE ALL SELF-DEVELOPED

BodorPower laser source + BodorGenius laser head



BEAM MOTION SPACE PROGRAMMING

BodorThinker intelligent control system

PATENTED PROCESS ALGORITHMS

BodorCutting cutting process database

DREAM

Top configuration in the industry:
Maglev Linear Motor, Marble Machine Bed, Carbon Fiber Crossbeam

Technical Parameters

Model	Dream6	Dream4	Dream3
Working Area	6100*2500mm	4000*2000mm	3048*1524mm
Laser Power	40000W/30000W/22000W/12000W/6000W		
X/Y-axis Positioning accuracy	0.05mm/m		
X/Y-axis repositioning accuracy	0.03mm		0.02mm
Max. linkage speed	200m/min		

P

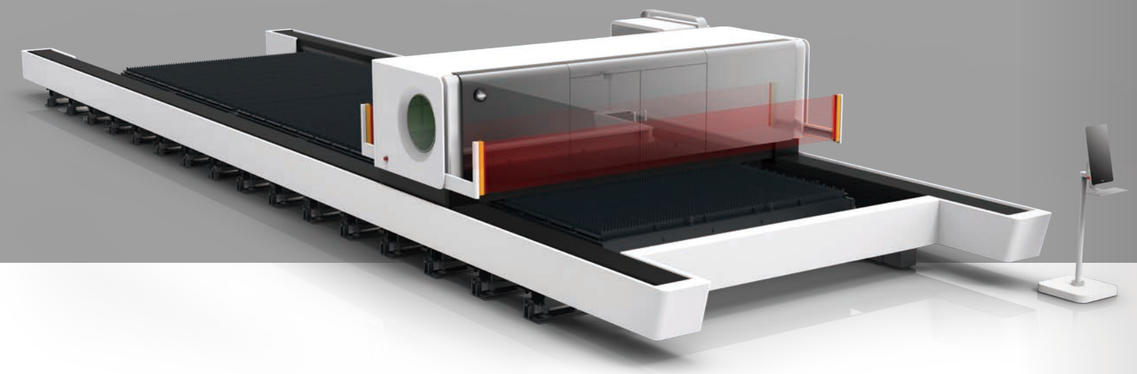
Best dynamic performance and protective enclosed design, representing perfect efficiency, stability, and environmental protection

Technical Parameters

Model	P12	P6	P4	P3
Working Area	12500mm*2600mm	6500mm*2500mm	4000mm*2000mm	3048mm*1524mm
Laser Power	40kW/30kW/22kW/12kW/6kW	40000W/30000W/22000W/12000W/6000W/3000W/1500W		
X/Y-axis Positioning accuracy	±0.05mm/m			
X/Y-axis repositioning accuracy	±0.03mm	0.03mm		0.02mm
Max. linkage speed	200m/min			
Max. acceleration	2.8G		4.0G	

H

High-end smart ultra large format laser cutting machine, high security & performance come along with intelligence.

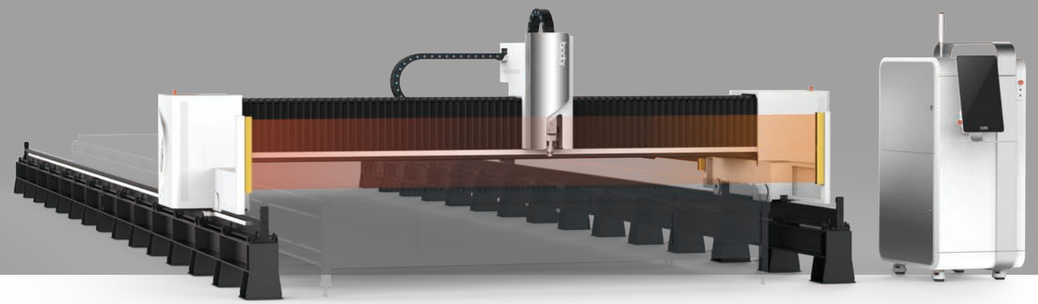


Technical Parameters

Model	H24	H20	H16	H12
Working Area	24500mm*3200mm	20500mm*3200mm	16500mm*3200mm	12500mm*3200mm
Laser Power	40000W/30000W/22000W/12000W/6000W			
X/Y-axis Positioning accuracy	0.02mm/m			
X/Y-axis repositioning accuracy	0.01mm/m			
Max. linkage speed	80m/min			

G

Ultra large format laser cutting machine, super long workpiece processing



Technical Parameters

Model	G24	G20	G16	G12
Working Area	24500mm*3200mm	20500mm*3200mm	16500mm*3200mm	12500mm*3200mm
Laser Power	40000W/30000W/22000W/12000W/6000W			
X/Y-axis Positioning accuracy	0.1mm/m			
X/Y-axis repositioning accuracy	0.1mm/m			
Max. linkage speed	50m/min			

C

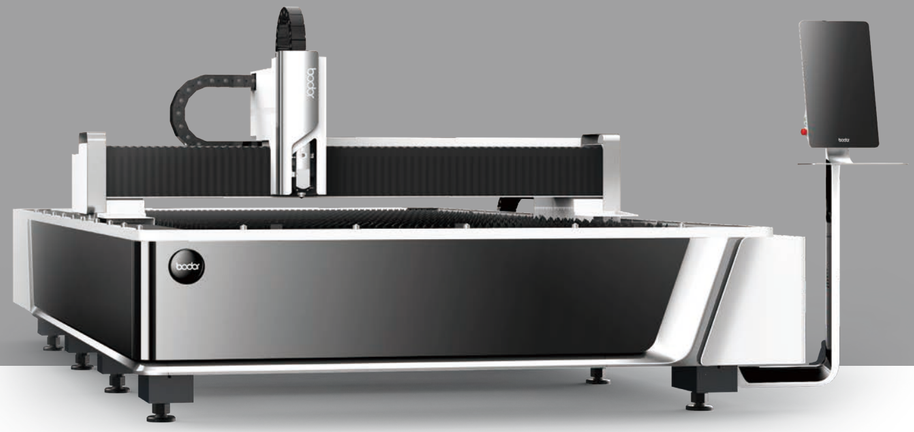
The mortise-and-tenon bed for greater stability, the protective cover for higher safety

Technical Parameters

Model	C12	C6	C4	C3
Working Area	12500mm*2600mm	6100mm*2500mm	4000mm*2000mm	3048mm*1524mm
Laser Power	40kW/30kW/22kW/12kW/6kW	30kW/22kW/12kW/6kW/3kW	22kW/12kW/6kW/3kW/1.5kW	
X/Y-axis Positioning accuracy	±0.05mm/m			
X/Y-axis repositioning accuracy	±0.03mm			
Max. linkage speed	110m/min			

A

Easy installation and operation, stable machine bed with the mortise-and-tenon joint. The cost-effective processing convinces the investment.



Technical Parameters

Model	A14	A8	A6 Plus	A6	A4 Plus	A4	A3
Working Area	14000mm*3100mm	8050mm*2500mm	6100mm*2500mm	6100mm*1524mm	4000mm*2000mm	4000mm*1524mm	3048mm*1524mm
Laser Power	30kW/22kW/12kW/6kW	12kW/6kW	6kW/3kW/1.5kW				
X/Y-axis Positioning accuracy	±0.03mm/m	±0.05mm/m					
X/Y-axis repositioning accuracy	±0.02mm/m	±0.03mm					
Max. linkage speed	100m/min						

i

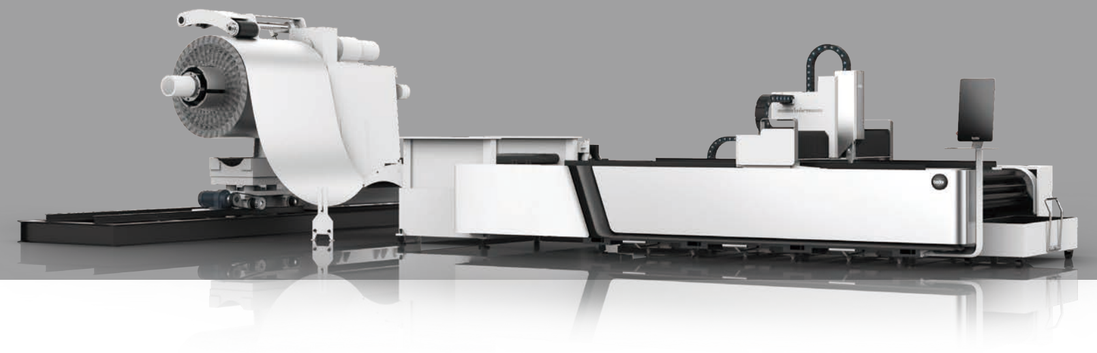
The compact design with higher precision, speaking for highly precise processing

Technical Parameters

Model	i7	i5
Working Area	3048*1524mm	1000*1500mm
Laser Power	12000W/6000W/3000W/1500W	6000W/3000W/1500W
X/Y-axis Positioning accuracy	±0.05mm/m	
X/Y-axis repositioning accuracy	±0.03mm	
Max. linkage speed	100m/min	

R

Fully automated unrolling, levelling, feeding and cutting, highly automated and integrated processing

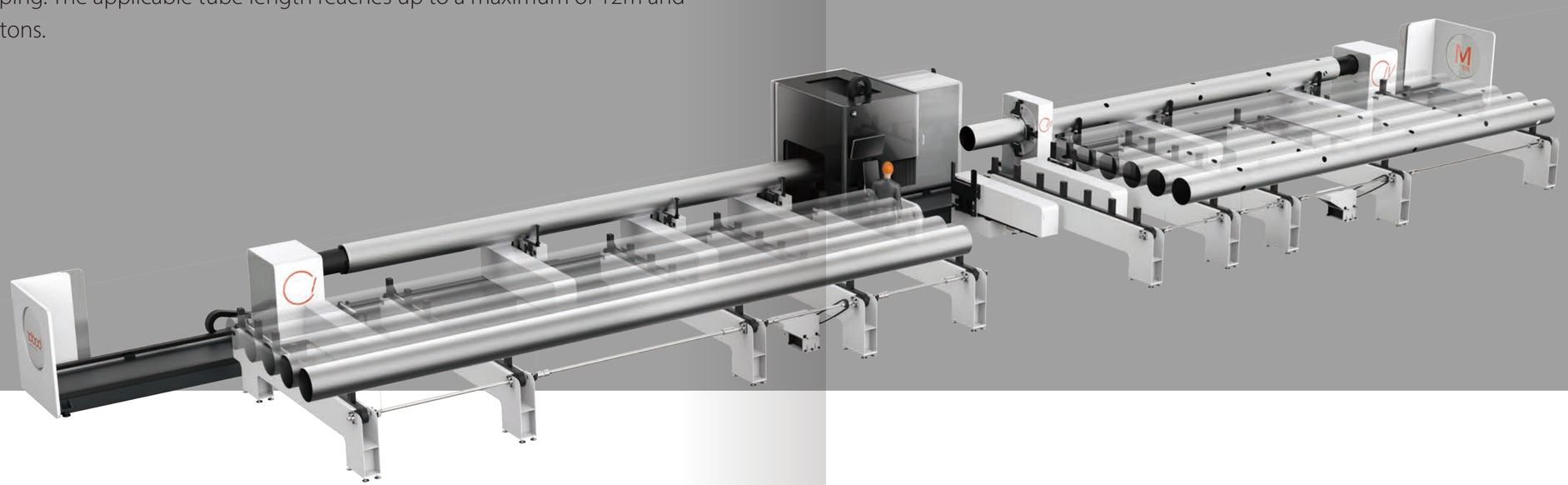


Technical Parameters

Model	R1500
Working Area	3048mm*1524mm
Coil O.D	φ1200~φ1500mm
Coil I.D	φ508/φ610mm
Single Coil Maximum Weight	≤8T
X/Y-axis Positioning Accuracy	±0.05mm/m
X/Y-axis Repositioning Accuracy	±0.03mm

M

Multifunctional Tube Laser Cutting Machine, ensuring no tail materials, 3D laser cutting, piercing, and tapping. The applicable tube length reaches up to a maximum of 12m and weight up to 1.8 tons.



Technical Parameters

Model	M500	M350	M230
Maximum tube length	12000mm	9200mm	6500mm
Maximum Tube Weight	1600Kg	800kg/1200kg	300Kg
Laser Power	12000W/6000W/3000W	12000W/6000W/3000W/1500W	
X/Y-axis positioning accuracy	±0.05mm/m	0.06mm/m	
X/Y-axis repositioning accuracy	±0.03mm/m	0.04mm	
Max. Chuck rotating speed	40r/min	75r/min	110r/min

T

Classic Model, one-click tube laser cutting is available with the automated loading and unloading device

Technical Parameters

Model	T230
Maximum tube length	6500mm(9200mm)
Maximum Tube Weight	300Kg 46Kg/m(300Kg 32.6Kg/m)
Laser Power	6000W/3000W/1500W
X/Y-axis positioning accuracy	0.05mm/m
X/Y-axis repositioning accuracy	0.03mm
Max. Chuck rotating speed	120r/min

K

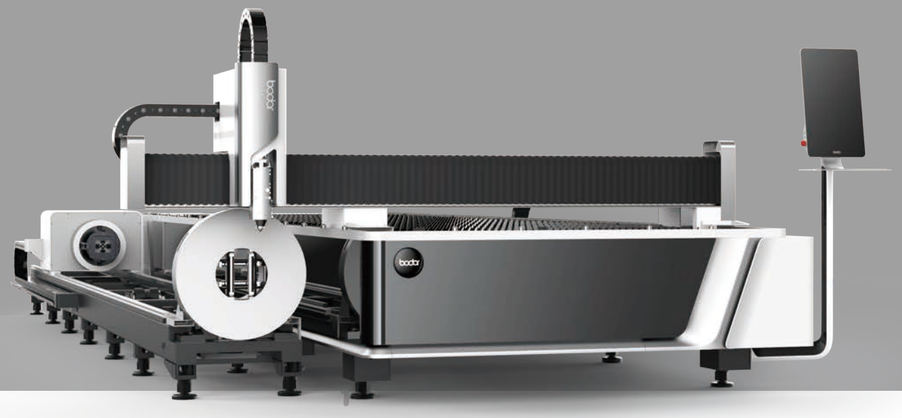
Small and smart tube laser cutting machine, more flexibility, more efficiency

Technical Parameters

Model	K350	K230	K120
Tube size range	Round tube:φ20-φ350mm	Round tube:φ20-φ230mm	Round tube:φ10-φ120mm
	Square tube :□20-□250mm	Square tube :□20-□230mm	Square tube :□10-□110mm
	Rectangular tube:260mm≥Side length≥20mm	Rectangular tube:230mm≥Side length≥20mm	Rectangular tube:120mm≥Side length≥10mm
	Circumscribed circle diameter≤350mm	Circumscribed circle diameter≤230mm	Circumscribed circle diameter≤165mm
Maximum machinable tube length	6300mm(9200mm)	6500mm(9200mm)	6500mm
Maximum Tube Weight	300Kg 50kg/m(500Kg 54kg/m)	300Kg 46Kg/m(300Kg 32kg/m)	80Kg 13.3Kg/m
Laser Power	6000W/3000W/2000W/1500W		
X/Y-axis positioning accuracy	0.05mm/m(0.05mm)	0.05mm/m	
X/Y-axis repositioning accuracy	0.03mm		
Max. Chuck rotating speed	75r/min(85r/min)	120r/min	130r/min

AT

Cost-effective single platform plate and tube laser cutting machine



Technical Parameters

Model	A6T Plus	A6T	A4T	A3T
Working Area	6100mm*2500mm	6100mm*1524mm	4000mm*1524mm	3048mm*1524mm
Tube size range	Round tube Φ20-Φ230mm			
	Square tube □20 - □230mm			
	Rectangular tube 230mm≥Side length≥20mm			
	Circumscribed circle diameter≤230mm			
Laser Power	6000W/3000W/1500W			
X/Y-axis positioning accuracy	±0.05mm/m			
X/Y-axis repositioning accuracy	±0.03mm			
Max. Linkage Speed	100m/min			

CT

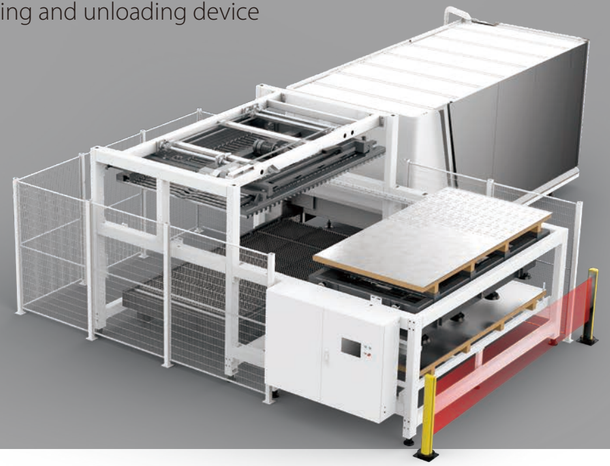
Sheet & Tube Laser Cutting Machine with Protective Cover
The machine bed with the mortise-and-tenon joint introduces powerful laser cutting

Technical Parameters

Model	C3T
Working Area	3048mm*1524mm
Tube size range	Round tube Φ20-Φ230mm
	Square tube □20 - □230mm
	Rectangular tube 230mm≥Side length≥20mm
	Circumscribed circle diameter≤230mm
Laser Power	6000W/3000W/1500W
X/Y-axis positioning accuracy	±0.05mm/m
X/Y-axis repositioning accuracy	±0.03mm
Max. Linkage Speed	100m/min

iTrans

Fully automated loading and unloading device

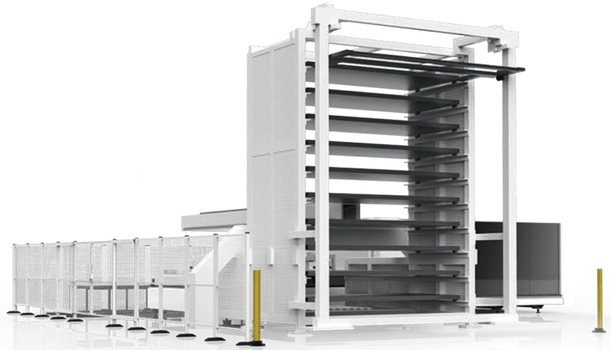


iLift

Latter Bed Ejector Rod

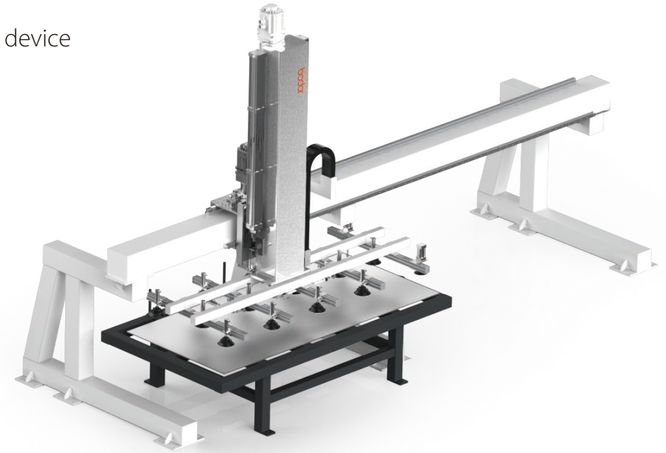
iTransTower

Intelligent loading and unloading, multi-layer storage racks designed to save space



iLoader

Automated loading device

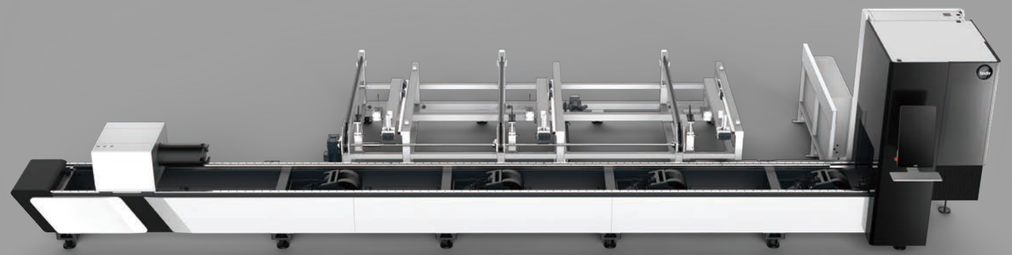


iTower

Single-module storage tower

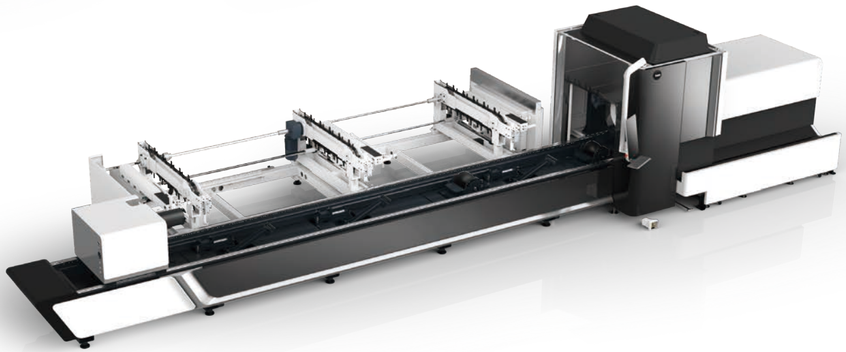
T-Loader eco

The economical loading device for onetime placement and processing of multiple tubes, making access to the automated and unattended loading.



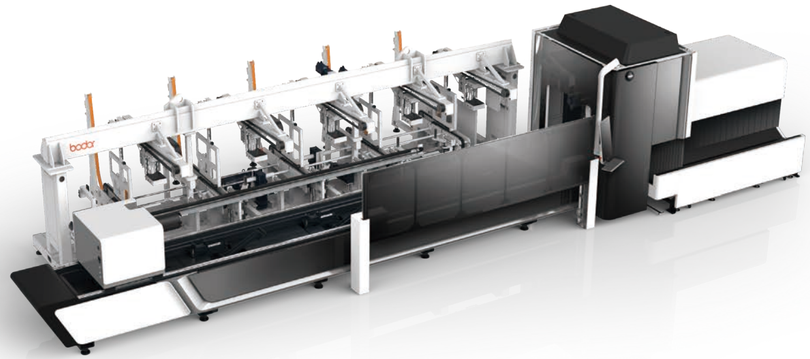
T-Loader

Multiple tubes but onetime placement and processing with no manual interference, helping load automatically and save manpower.



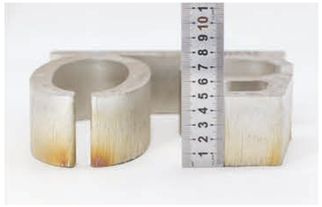
T-trans

For batch processing, the automatic loading and onetime material bundling allow the machines to achieve an unattended process and less manpower.



CUTTING SAMPLES



















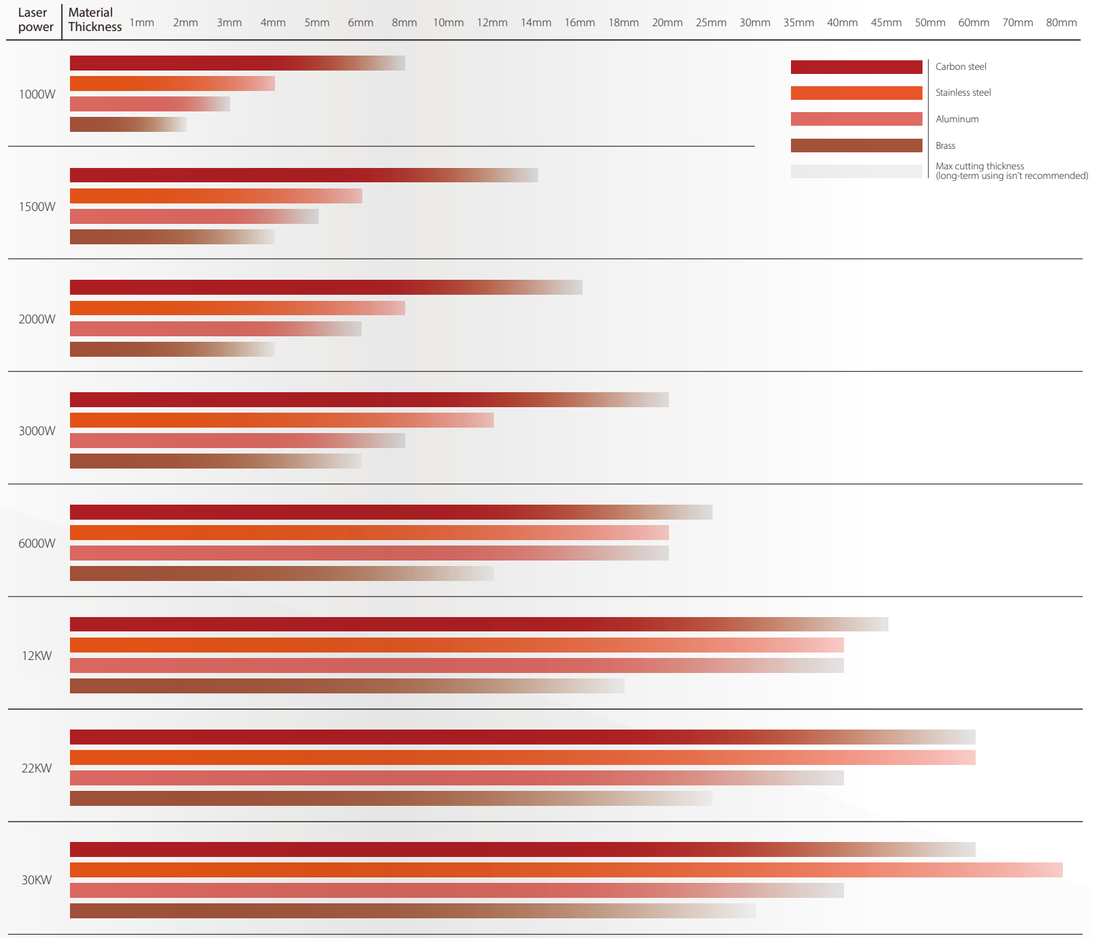

PROCESS PARAMETERS

Normal cutting parameter (by O_2 and N_2)

		30000W	22000W	12000W	6000W	3000W	2000W	1500W	1000W
Material	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) O_2	1	9--11	9--11	9--11	8--10	8.0--10	8.0--10	8.0--10	8.0--10
	2	5--7.5	5--7.5	5--7.5	5--7.5	5.5--7.5	4.0--6.0	4.5--5.5	4.5--5.5
	3	3.5--5.5	3.5--5.5	3.5--5.5	3.5--5	3.0-4.0	3.0--4.0	2.5--3.4	2.4--3.0
	4	3.5--5	3.5--5	3.5--5	3.0--4.5	2.8-3.5	2.8-3.3	2.1--2.4	1.8-2.2
	5	3.3--4.8	3.3--4.8	3.3--4.8	3.0--4.2	2.6-3.2	2.2--2.8	2.0--2.5	1.6-1.8
	6	3.0--4.5	3.0--4.2	3.0--4.2	2.5--3.5	2.5-2.6	1.8-2.3	1.6--1.8	1.2-1.3
	8	2.5--3.9	2.5--3.9	2.5--3.8	2.2--3.2	1.6-1.8	1.2-1.7	1.0--1.2	0.6-0.8
	10	2.2--3.8	2.0--3.8	2.2--3.6	1.8--2.5	1.4-1.6	1.0-1.2	0.7--0.9	
	12	1.6-3.8	1.6--3.8	1.2--3.5	1.2--2.1	1.0-1.4	0.8-1.0	0.7--0.8	
	14	1.6-3.8	1.5--3.8	1.7--3.3	1.2--1.8	0.8-0.9	0.6-0.85	0.5--0.7	
	16	1.5--3.7	1.4--3.7	1.2--3.1	0.8--1.5	0.7-0.8	0.6-0.75		
	18	1.4--3.6	1.4--3.6	1.0--2.7	0.6--1.2	0.6-0.7			
	20	1.5--3.5	1.5--3.5	0.6--2.4	0.5--0.8	0.5-0.6			
	25	1.0-3.1	1.0-3.0	0.5--1.6	0.3--0.55				
	30	1.2-2.6	0.8--2.2	0.3--1.0					
	35	0.9--2.2	0.6--1.0	0.3--0.7					
	40	0.8-1.7	0.5--1.1	0.2--0.4					
	45	0.5--0.8	0.3--0.6	0.2--0.3					
	50	0.4--0.6	0.2--0.6						
	60	0.2--0.4	0.2--0.5						
Stainless steel (201) N_2	1	72--100	72--100	70--85	42--52	30-55	24--50	20-30	18-20
	2	50--75	50--75	40--66	20--33	12-30	9.0-17	8.0-16	5.0-7.0
	3	38--55	38--55	35--45	15--22	6.0-10.0	4.0-7.0	3.0-5.5	2.2-4.0
	4	30-35	25--35	20--32	10--15	4.0-6.0	3.2-4.0	1.5-3.2	1.2-2.3
	5	25--32	24--32	18--25	7.0--12	3.0--5.0	2.0-2.7	0.7-1.5	
	6	18-26	20--25	12--15	4.8--9.0	2.0-3.2	1.2-1.8	0.7-1.3	

		30000W	22000W	12000W	6000W	3000W	2000W	1500W	1000W
Material	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
Stainless steel (201) N_2	8	15-20	15--19	8--12	3.0--4.0	1.0-1.8	0.7-1.2		
	10	12--15	10--13.5	6.0--8.0	1.6--2.5	0.5-0.85			
	12	8--12	8.0--10	4.0--5.5	0.8--1.5	0.4-0.5			
	14	6--10.5	6.0--8.5	3.0--5.0	0.6--1.2				
	16	5--9	4.0--6.0	2.2--2.8	0.5--1.0				
	18	3--6.5	3.0--3.5	1.2--2.0	0.4--0.8				
	20	2--4.7	2.0--3.0	1.0--1.6	0.3--0.6				
	25	1.8-2.5	1.5--2.2	0.5--0.8					
	30	1.5--1.8	1.2--1.5	0.3--0.6					
	35	1.0-1.5	0.4--0.8	0.3--0.5					
	40	0.6-1.3	0.3--0.6	0.3--0.5					
	45	0.8-1.0	0.2--0.6						
	50	0.25-0.5	0.2--0.5						
	60	0.2-0.3	0.1--0.3						
	70	0.17-0.3							
	80	0.15-0.3							
Aluminum N_2	1	70--100	70--100	60--85	42--55	25-30	15-25	10-15	8-10
	2	40--70	40--70	38--50	20--40	13-20	7-10	5.0-7.0	2.8-3.6
	3	35--60	35--60	30--40	15--25	6.5-7.5	4.0-8.0	2.0-2.6	0.7-1.1
	4	30--45	30--43	20--30	9.5--12	3.5-5.0	2.5-3.0	1.0-1.4	
	5	22--340	22--35	15--25	5.0--8.0	2.5-3.5	1.2-2.5	0.5-0.7	
	6	18--32	18--28	10--15	3.8--5.0	1.5-2.5	0.6-0.9		
	8	12--23	12--20	7.0--12	2.0--2.5	0.7-1.0			
	10	7.0--16	7.0--12.0	4.5--8.0	1.0--1.5				
	12	4.5--12	4.5--6.5	4.0--5.0	0.8--1.3				
	14	3.0--8.0	3.0--4.0	1.8--2.7	0.9--1.2				

		30000W	22000W	12000W	6000W	3000W	2000W	1500W	1000W
Material	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
Aluminum N_2	16	2.5--6	2.5--3.5	1.5--2.5	0.5--0.8				
	18	1.8--2.2	1.8--2.2	1.0--1.8	0.5--0.7				
	20	1.5--2.0	1.5--2.0	0.9--1.5	0.5--0.7				
	25	0.8--1.5	0.8--1.5	0.6--0.9					
	30	0.6--1.2	0.6--1.2	0.3--0.8					
	35	0.4--0.9	0.4--0.9	0.3--0.6					
	40	0.4--0.6	0.3--0.5	0.3--0.4					
Brass N_2	1	65-75	65-75	55--65	35--45	20--30	10-16	8.0--13	6.0--10
	2	40--60	40--60	38--42	20--30	6.0--10	5.0--6.0	3.0--4.5	2.8-3.2
	3	25-40	25-40	18--30	12--18	3.0--8.0	2.5--7.0	1.5--2.5	
	4	20--35	20--35	15--20	8.0--12.0	2.5-4.0	1.8-3.0	0.8-1.2	
	5	20--30	20--28	10--15	6.0--8.0	1.5--2.0			
	6	12--22	12--20	6.0--8.0	3.0--6.5	1.0--1.8			
	8	9.0--15	9.0--12	5.0--7.0	1.6--2.2				
	10	6.0--13	6.0--10	4.5--6.0	0.8--1.2				
	12	5.0--10	3.0--4.5	2.4--4.0	0.3--0.5				
	14	3.0--7.0	1.8--4.0	0.8--1.5					
	16	1.5--3.0	1.5--3.0	0.6--1.2					
	18	1.2--2.5	1.0--2.5	0.4--0.6					
	20	1.2--2.0	0.4--2.0						
	25	0.5--0.8	0.3--0.5						
	30	0.4--0.6							



Above data is only for reference

Clean-air cutting parameter

		30000W	22000W	12000W	6000W	3000W	2000W	1500W	1000W
Material	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)	1	60-75	50-70	45--70	42--52	40--45	27--30	27--30	9--12
	2	50-60	45-60	30--35	20--25	12--15	10--12	8--10	6--8
	3	35--40	30--38	25--30	10--20	6--8			
	4	30-36	28-34	22--28	8--15				
	5	28-32	25-32	15--20	6--10				
	6	22-26	16-25	13--17	5--8				
	8	17-19	10--17	8--12					
	10	13-16	8.0-13	5--7					
	12	9-12	6.0-9.0	3--5					
	14	9-11	5.0-7.5	2.5--4					
	16	6-8	4.5-5.5	2--3					
	18	5-7	3.0-3.8						
	20	4-6	2.2-3.0						
	25	2.0-3.5	1.0-2.0						
Stainless steel (304)	1	60-75	60-72	45--70	38--60	35--50	25--30	20--30	20--25
	2	50-60	40-52	30--42	22--38	15--25	11--15	8.0--12	6--8
	3	35--40	30-40	25--32	15--22	10--15	6.0--7.5	3.0--5.0	2.0--3.0
	4	30-36	25-33	20--28	12--16	5.0--8.0	3.5--5.0	1.5--2.8	1.2--1.5
	5	28-32	18-25	13--18	8.0--12	3.5--5.5	2.0-2.6	0.7--1.5	0.6--0.7
	6	22-28	15-24	12--15	4.8--9.0	2.0--4.0	1.5--2.0	0.7--1.0	
	8	20-24	12--18	8.5--12	3.0--5.5	1.5--2.0	0.8-1.2		
	10	14-16	10--13	6.5--8.5	2.0--3.5	0.6--1			
	12	10--13	7.0-10.0	4.5--6.0	1.2--2.3	0.4--0.6			
	14	9-11.5	6.0-8.5	2.5--3.5	0.8--1.6				
	16	6-8.5	5.0-6.5	1.5--2.6	0.8--1.4				
	18	5--7	3--5	1.2--2.0	0.6--1.0				
	20	4--6	2.5-4.0	1.1--1.8	0.3--0.5				
	25	2.0--4.1	1.5-2.0	0.65--1.1					
	30	1.6--2.8	1.0-1.6	0.3--0.6					
	35	1.5--2.4	0.6-1.2	0.2--0.4					
	40	0.8--1.4	0.45-0.7	0.1--0.3					
	45	0.6--1.0	0.20-0.3						

		30000W	22000W	12000W	6000W	3000W	2000W	1500W	1000W
Material	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
Stainless steel (304)	50	0.5-0.9	0.15-0.25						
	60	0.1-0.25	0.10-0.15						
	70	0.1-0.19							
Aluminum	1	60-75		40--60	35--45	25--35	17--18	10--15	6.0--8.0
	2	50-60		22--40	20--30	10--15	7--10	5.0--7.0	
	3	35-40		22--30	15--25	6.0--8.0			
	4	30-36		18--25	6.0--15	3.5--5.0			
	5	28-32		15--18	5--8				
	6	25--30		10--20	3--5				
	8	20-28		4--8					
	10	18-22		3.5--5.5					
	12	12--16		1.5--3.1					
	14	9--12							
	16	6--9							
	18	4--5.1							
	20	3--4							
	25	1.5--2.1							
	30	0.4--0.6							
	35	0.3--0.4							
Brass	1			40--55	35--45	20--35	10--16	8.0--13	6.0--8.0
	2			28--40	20--30	6.0--10	4.5--7.5	3.0--4.5	2.8--3.6
	3			20--25	12--18	4.0--6.0	2.5--4.0	1.5--2.5	
	4			10--15	5.0--8.0	3.0-5.0	1.5--2.0	1.0--1.6	
	5			9--12	4.5--6.0	1.5--2.0	0.9--1.2		
	6			8--10	3.0--4.5	1.0--1.8			
	8			6--7.5	1.6--2.2	0.5--0.7			
	10			3.5--4.5	0.8--1.2				
	12			2.0--2.5	0.2--0.4				
	14			1.5--1.8					
	16			1.0--1.3					
	18			0.5--0.7					
	20			0.4--0.6					

Tube cutting parameter

		12000W	6000W	3000W	2000W	1500W	1000W
Material	Thickness	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min
Carbon steel	1	18--21	18--21	18--21	16--20	17--19	12--15
	2	15-20	15-20	10--12	8--10	6--8	5--7
	3	4--6	3.8--5.5	3.5--5	3.0--4.8	2.5--3.5	2--3
	4	3.3--4.5	3.2--4.3	3--3.8	2.8--3.5	2.3--2.8	2--2.4
	5	3.5--4.3	3--4	2.6--3.2	2.5--3	1.8--2.4	1--1.6
	6	2.7--4	2.5--3.5	1.9--2.4	1.8--2.2	1.4--1.8	1.1--1.4
	8	2.5--3.5	2--3	1.6--2	1.4--1.8	1--1.4	0.8--1.1
	10	1.8--2.5	1.3--2.2	1.2--1.6	1.0--1.3	0.8--1.1	0.6--0.9
	12	1.5--2	1.2--1.7	0.9--1.3	0.8--1	0.6--0.9	0.6--0.7
	14	1.2--1.8	0.9--1.3	0.8--1	0.6--0.7	0.5--0.6	
	16	1--1.5	0.6--1.1	0.6--0.9			
	18	0.8--1	0.5--0.7	0.5--0.6			
	20	0.5--0.8					
Stainless steel	1	23--28	23--28	23--28	20--24	15--20	12--16
	2	20--22	20--22	14--18	10--15	9--12	7--9
	3	8--12	8--10	4.2--5.4	3--4	2--3	2--2.5
	4	12--14	9--12	2.8--3.6	2--3	1.2--1.5	0.6--0.9
	5	7--9	6--8	1.8--2.4	1.2--1.6	0.6--0.9	
	6	6--8	4--5.5	1--1.5	0.8--1.1	0.5--0.6	
	8	3--4	2--3	0.8--1.2	0.5--0.6		
	10	1.5--2.5	1--1.5	0.4--0.6			
	12	1--2	0.5--1				
	14	0.8--1.5	0.4--0.7				
	16	0.6--1	0.2--0.4				
	18	0.6--0.8	0.2--0.4				
	20	0.4--0.5					

Five-axis cutting parameter

		30000W	20000W		12000W	
		30°	30°	45°	30°	45°
Material	Thickness	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min
Carbon steel (Q235A) O_2	10	1.0-2.1		1.0-2.0	1.5-1.7	1.2-1.5
	12	1.3-2.1	1.3-2.0	1.0-1.8	1.2-1.6	1.0-1.3
	14	1.4-2.0	1.4-2.0	1.0-1.5	1.1-1.4	1.0-1.2
	16	1.0-1.8	1.0-1.8	0.8-1.5	0.9-1.3	0.8-0.9
	18	1.0-1.8	1.0-1.8	0.8-1.3	0.8-1.2	0.7-0.8
	20	0.8-1.6	0.8-1.3	0.5-1.0	0.7-0.9	0.3-0.4
	22				0.6-0.8	0.3-0.4
	25	0.5-1.4	0.5-1.2	0.5-1.0	0.3-0.4	0.2-0.3
	30	0.5-1.3	0.5-1.0	0.5-0.7	0.2-0.3	0.1-0.2
	40	0.3-1.0	0.3-0.7	0.3-0.5		
Stainless steel N_2	10	4.0-10	4.5-5	3.5-4.5	4.5-5	2.4-2.7
	12	4.0-8.0			3.5-4	0.9-1.1
	14	3.0-6.0	2.7-4.0		2.5-2.8	
	16	3.5-5.0	2.0-3.5		1.6-1.9	
	18	2.8-4.0	1.4-2.8		1.2-1.5	
	20	2.0-3.0	1.2-2.0		1.0-1.3	
	22				0.3-0.5	
	25	1.0-1.8	0.3-1.0		0.2-0.4	
	30	0.6-1.3	0.2-0.5		0.2-0.3	
Carbon steel (Q235A) Air	10	5.0-10	3.8-4.5	2.8-3.5	3.6-4.0	2.0-2.5
	12	4.0-8.0		3.0-4.5		

BODOR QUALITY

Bodor believes "Details make perfect". In order to ensure that Bodor equipment can perfectly serve customers and create maximum value for customers, every link or a small part of the equipment needs to obtain the strict European standard QC inspection to ensure the accuracy in detail.

12 Test Indicators

01 Flatness	02 Solidness	03 Precision	04 Straightness	05 Fineness	06 Stiffness
07 Planeness	08 Parallelism	09 Perpendicularity	10 Skillfulness	11 Durability	12 Stability

Inspection Process

Large Gantry Milling

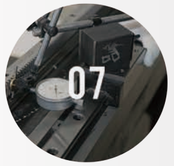
Heat aging treatment

Detection precision

Laser detection guide line

Small component detection

Body hardness test



Parallel detection

Detect rack parallelism

Test bed verticality

Aging test

Performance testing

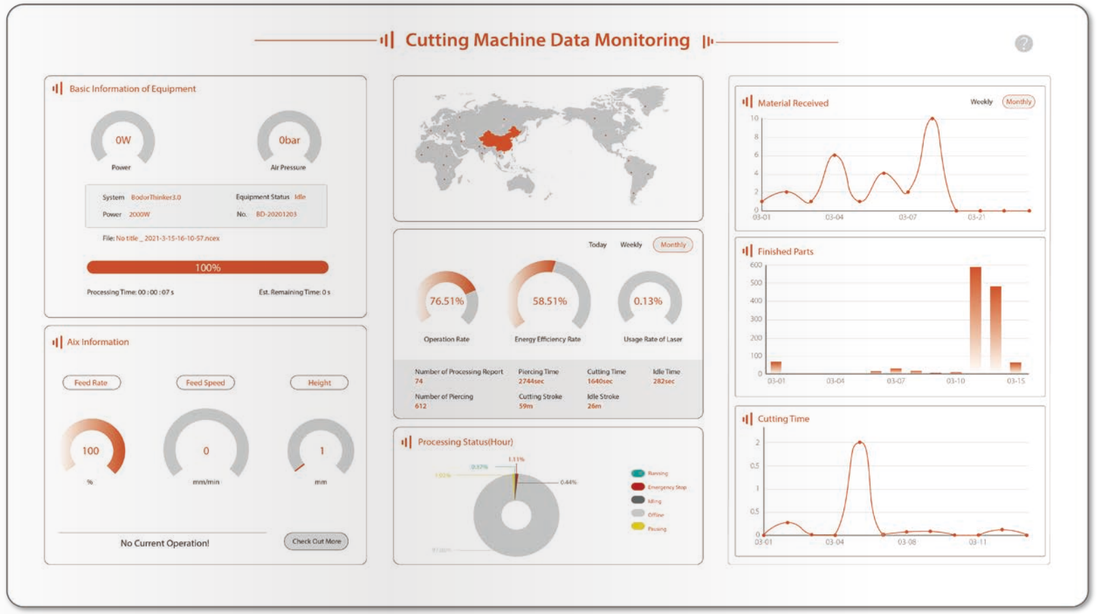
Laser cutting test

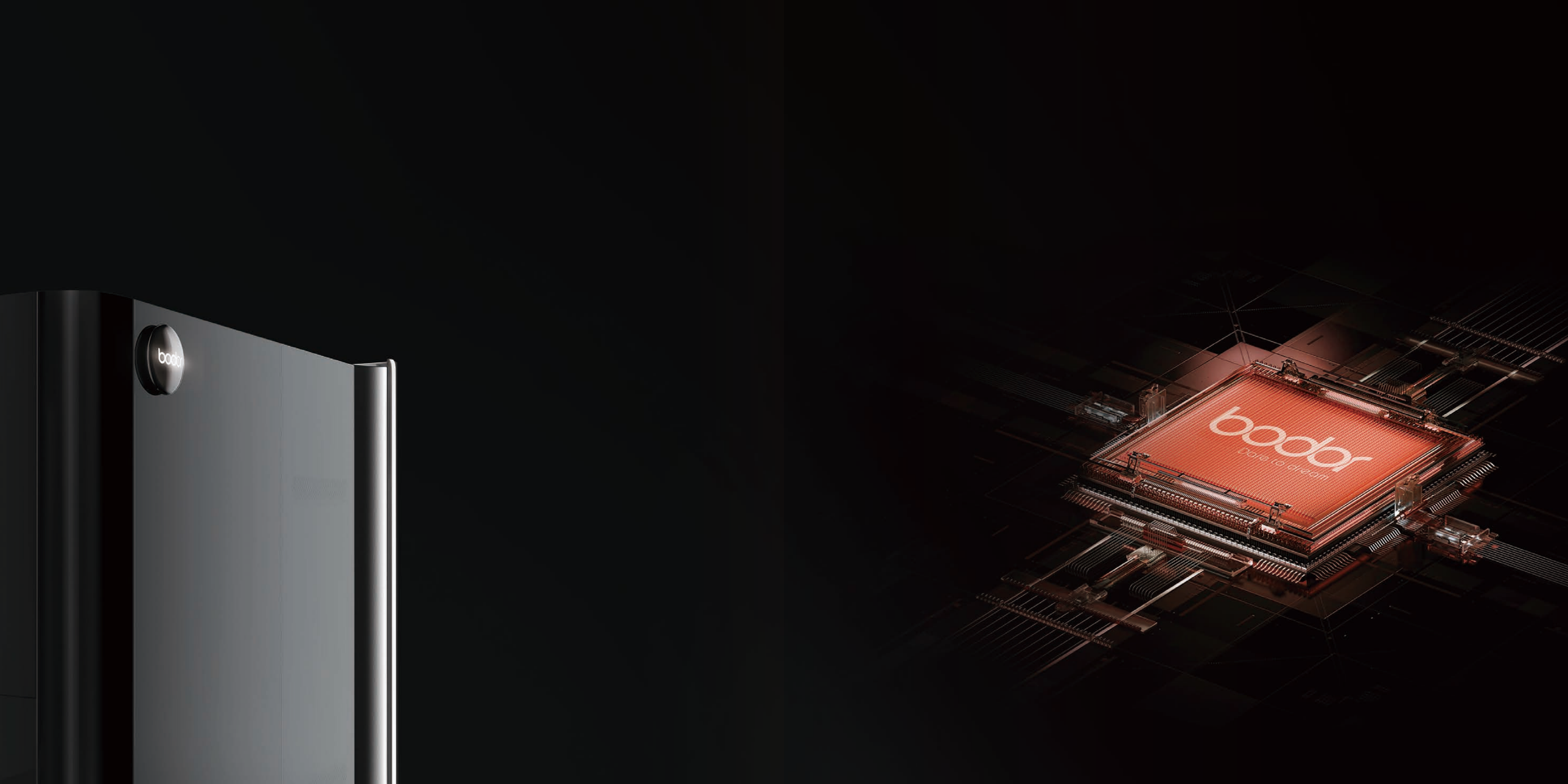
BODOR SERVICES

BODOR CLOUD

AI intelligent Cloud service platform, connecting customer and manufacturer, carries :

- 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 push of the latest cutting process

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