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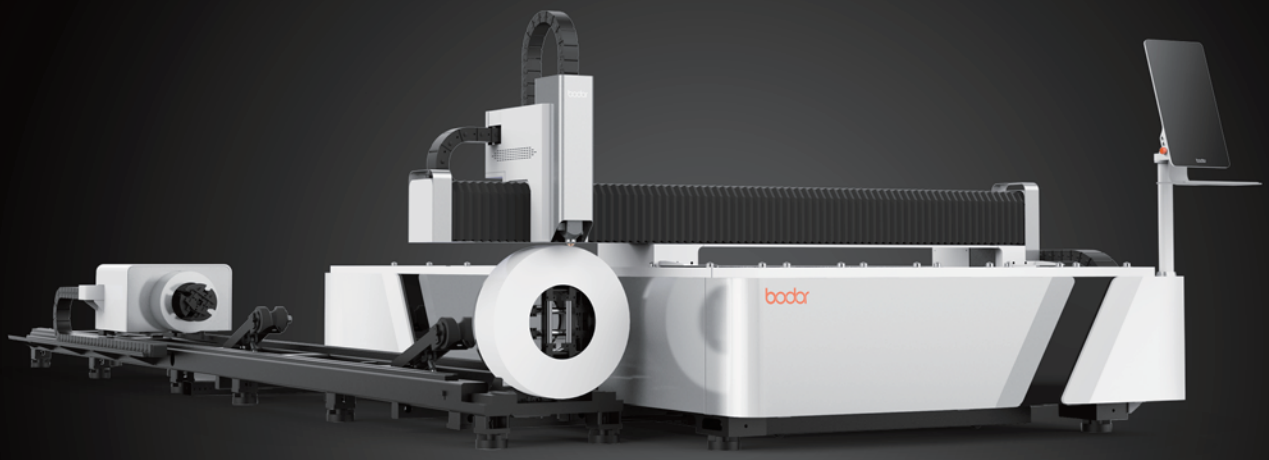
ECONOMICAL AND PRACTICAL

A-T series plate and tube fiber laser cutting machine



A-T series plate and tube fiber laser cutting machine

The equipment meets the parts processing requirements of most industries, working accuracy is stable. Selecting the optimal force and supporting structure, the overall mechanical property of equipment is perfect. Adopting cutting-edge optical concept to improve cutting performance. High speed cutting, auxiliary loading and unloading and efficient production reduce labor costs. At present, laser cutting machines have been widely used in electronics, electrical, mechanical hardware, new energy lithium, packaging, solar, LED, automotive and other industries.

Model	A6T（6015）	A4T（4015）	A3T（3015）
Working Area	6100*1524mm	4000*1524mm	3048*1524mm
LaserPower	3000w/2000w/1500w/1000w		
X/Y-axis Positioning Accuracy	±0.05mm		
X/Y-axis Repositioning Accuracy	±0.03mm		
Max. linkage speed	91m/min		

Version number 2020 08.22
(Above data is only for reference)

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TENON-AND-MORTISE WELDED BED

Stable

Use Chinese traditional tenon-and-mortise structure to provide stronger bearing capacity. Solder joint fixing and structural bearing ensure long-standing operation stability.

Accurate

Welded structure improves shock absorption effect, lowering deviation caused by shock, and offering more accurate cutting.

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STRETCHED ALUMINUM BEAM

Stretched Aluminum Beam

High-strength inner cavity design gives anti-deformation quality, effectively dispersing internal and external stress. Adopt aviation aluminum ultra-high pressure stretching process to acquire anti-twisting and anti-overturning qualities, achieving optimal mechanical performance. Greatly improved rigidity of the gantry beam and the light weight ensure high speed, high precision, and high responsiveness.

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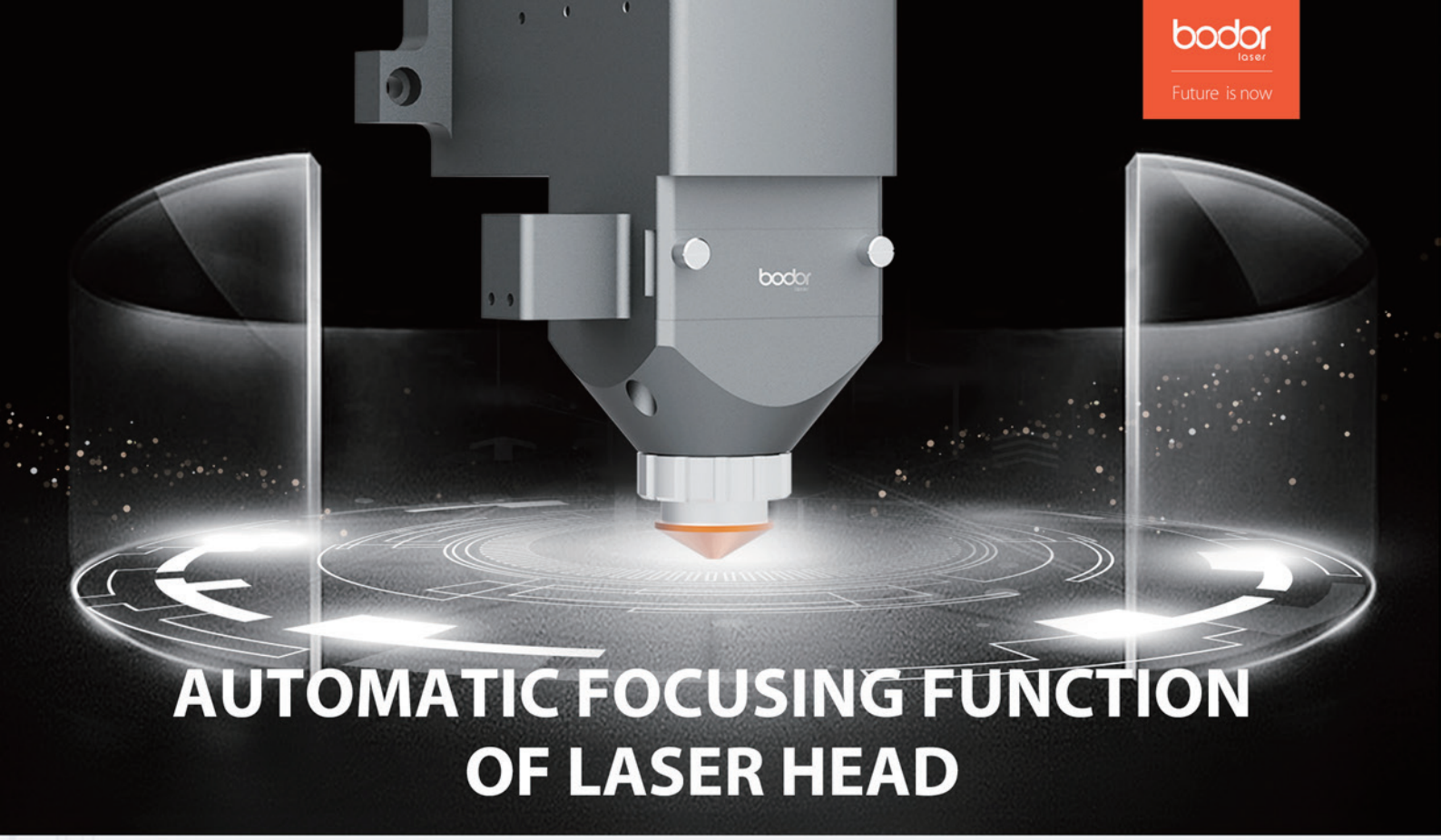
Double Automatic Centering Electric Chucks

Double Automatic Centering Electric Chucks

Double electric chucks with automatic centering function are easy to operate and require little maintenance. Brand new motor gives accurate control. Modular chuck components are independently developed and can be quickly replaced.



AUTOMATIC FOCUSING FUNCTION OF LASER HEAD

Auto focus

Applicable to multiple focal lengths, automatically adjusts focal position in cutting process by different sheet thickness.

Free your hands

Focal length is controlled by operating system, which effectively avoids errors or faults caused by manual operation.

Simple and fast

Applying Bodor lightning perforation technology reduce almost 90% work time. When technicist changes different metal sheet, Auto focus laser head can automatically read system storage parameters, which make the cutting process less gas, less electricity, lower cost, high efficiency.

Accurate

By setting perforation focal length and cutting focal length respectively, the cutting is more accurate.

Durable

By increasing collimation & focus protective lens, the key components can be protected.
Built-in double water-cooling structure ensures constant temperature of collimating and focusing components, prevents lenses from overheating and prolongs service life of lenses.

For more information, please go to the website : www.bodor.com

Bodor Pro Operating System

Bodor pro

Bodor's independent R&D operating system can realize intelligent layout of graphics. Use optimal logic programming and software interactions in control aspect to achieve stunning using experience, effectively improve utilization of sheet metal and reduce leftover material.

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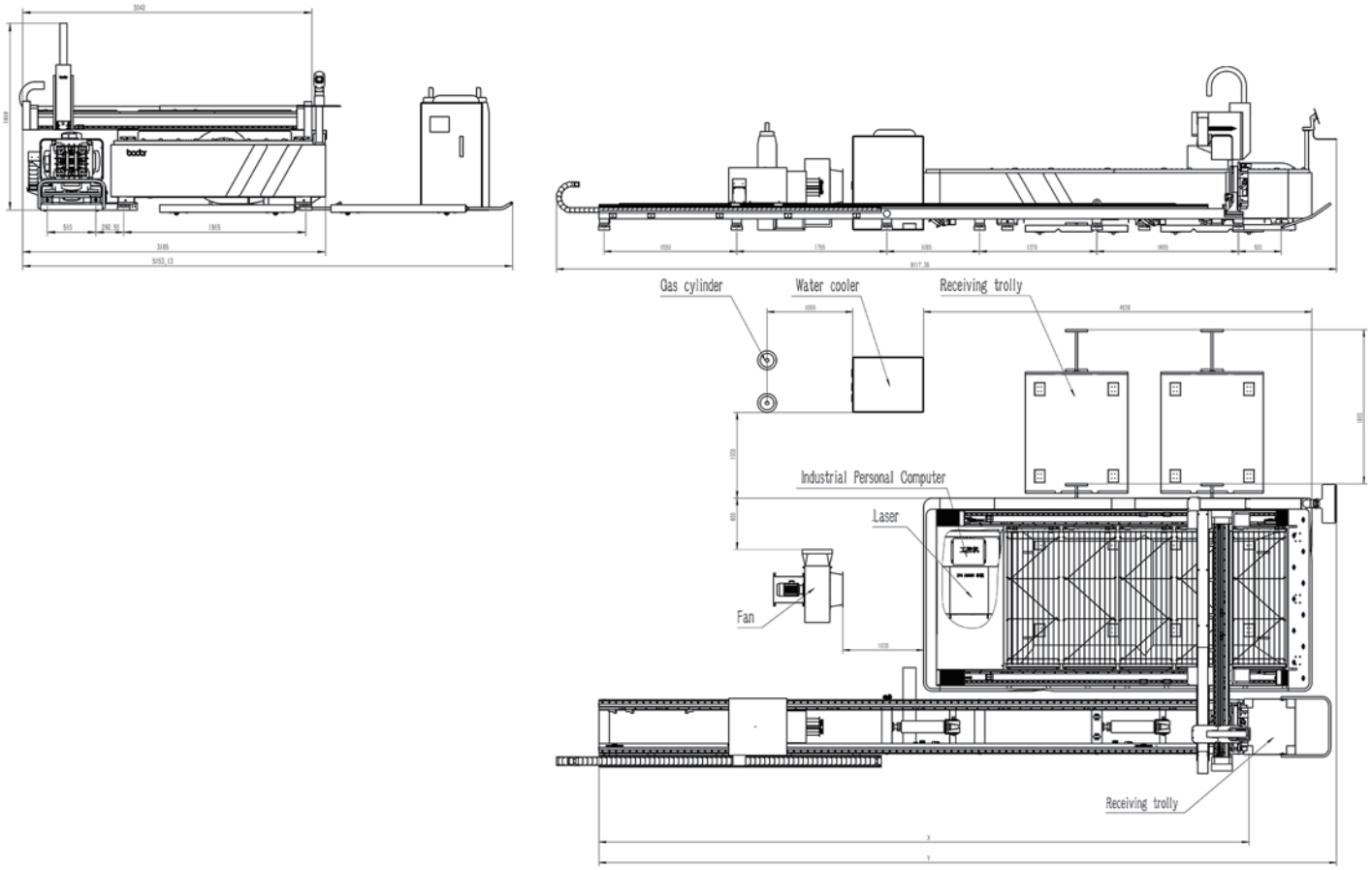
Bodor Family Design Style

By setting perforation focal length and cutting focal length respectively, the cutting is more accurate.

A3015T • FLOOR PLAN



PLACING REQUIREMENT

1.The whole machine should keep away from obstacles at least 1m.
2.The whole machine should be far away from the hypocenter.
3.The planeness of placing field should be less than 5mm.
4.Voltage fluctuation of the whole machine should be kept in± 5%.

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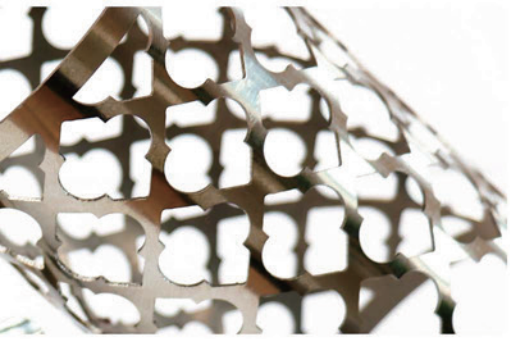

Metal Samples

For more information, please go to the website : www.bodor.com

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Fiber Laser Cutting Process Parameters

		1000W	MAX-1000W(25um)	1500W	2000W	MAX-2000W(50)	YLR-2000W	3000W	MAX-3000W(50)	4000W	MAX-4000W(50)
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	speed m/min	speed m/min
Carbon steel (Q235A) O2	1	8.0--10	8.0--10	8.0--10	8.0--10	8.0--10	8.0--10	8.0--10	8.0--10	No support	
	2	4.0--6.5	4.5--7.0	4.5--6.5	4.7--6.5	4.7--6.5	4.7--6.5	4.8--7.5	4.8--7.5		
	3	2.4--3.0	2.4--3.0	2.6--4.0	3.0--4.8	3.0--4.8	3.0--4.8	3.3--5.0	3.3--5.0		
	4	2.0--2.4	2.0--2.4	2.5--3.0	2.8--3.5	2.8--3.5	2.8--3.5	3.0--4.2	3.0--4.2		
	5	1.5--2.0	1.5--2.0	2.0--2.5	2.2--3.0	2.2--3.0	2.2--3.0	2.6--3.5	2.6--3.5		
	6	1.4--1.6	1.4--1.6	1.6--2.2	1.8--2.6	1.8--2.6	1.8--2.6	2.3--3.2	2.3--3.2		
	8	0.8--1.2	0.8--1.2	1.0--1.4	1.2--1.8	1.2--1.8	1.2--1.8	1.8--2.6	1.8--2.6		
	10	0.6--1.0	0.6--1.0	0.8--1.1	1.1--1.3	1.1--1.3	1.1--1.3	1.2--2.0	1.2--2.0		
	12	0.5--0.8	0.5--0.8	0.7--1.0	0.9--1.2	0.9--1.2	0.9--1.2	1.0--1.6	1.0--1.6		
	14			0.5--0.7	0.7--0.8	0.7--0.9	0.8--1.0	0.9--1.2	0.9--1.2		
	16				0.6-0.7	0.6--0.8	0.6-0.8	0.7--1.0	0.7--1.0		
	18				0.4--0.6	0.5--0.7	0.5--0.7	0.6--0.8	0.6--0.8		
	20							0.5--0.8	0.5--0.7		
	22							0.3--0.7	0.3--0.7		
	25										
Stainless steel (201) N2	1	18--25	24--36	20--27	24--30	24--50	24--50	30--35	30--58		
	2	5--7.5	6--10	8.0--12	9.0--12	9.0--14	9.0--15	13--21	13--39		
	3	1.8--2.5	2.2--3.5	3.0--5.0	4.0--6.5	4.0--7.0	4.8--7.5	6.0--10	6--14		
	4	1.2--1.3	1.2--1.6	1.5--2.4	3.0--4.2	3.2--4.5	3.2--4.5	4.0--6.0	4.0--7.0		
	5	0.6--0.7	0.6--0.75	0.7--1.3	1.8-2.5	2.0-2.8	2.0-2.8	3.0--5.0	3.0--5.0		
	6			0.7--1.0	1.2-1.8	1.2-2.0	1.2-2.0	2.0--4.0	2.0--4.0		
	8				0.7-1.0	0.7-1.0	0.7-1.0	1.5--2.0	1.5--2.0		
	10							0.6--0.8	0.6--0.8		
	12							0.4--0.6	0.4--0.6		
	14										
	16										
Aluminum N2	1	6.0--10	6.0--10	10--20	15--25	15--25	20--30	25--38	25--40		
	2	2.8--3.6	2.8--3.6	5.0--7.0	7--10	7--10	10--15	10--18	13--20		
	3	0.7--1.5	0.7--1.5	2.0--4.0	4.0--6.0	4.0--6.0	5.0--7.0	6.5--8.0	6.5--8.0		
	4			1.0--1.5	2.0--3.0	3.5--4.0	3.5--5.0	3.5--5.0	3.5--5.0		
	5			0.7--1.0	1.2--1.8	1.2--1.8	1.8--2.5	2.5--3.5	2.5--3.5		
	6				0.7--1.0	1.0--1.5	1.0--1.5	1.5--2.5	1.5--2.5		
	8				0.6--0.8		0.6--0.8	0.7--1.0	0.7--1.0		
	10							0.4--0.7			
	12							0.3-0.45			
	16										
	20										
Brass N2	1	6.0--10	6.0--10	8.0--13	10--16	10--16	12--18	20--35	20--35		
	2	2.8--3.6	2.8--3.6	3.0--4.5	4.5--7.5	5.0--6.0	6.0--8.5	6.0--10	6.0--10		
	3	0.5--1.0	0.5--1.0	1.5--2.5	2.5--4.0	2.5--4.0	2.5--4.0	4.0--6.0	4.0--6.0		
	4			1.0--1.6	1.5--2.0	2.0--3.0	2.0--3.0	3.0-5.0	3.0-5.0		
	5			0.5--0.7	0.9--1.2		0.9--1.2	1.5--2.0	1.5--2.0		
	6				0.4--0.7		0.4--0.9	1.0--1.8	1.0--1.8		
	8							0.5--0.7			
	10										
	12										

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OFFICE

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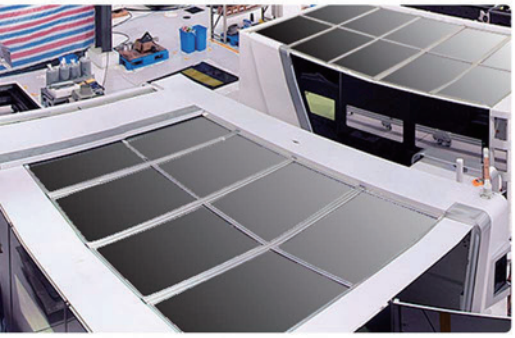

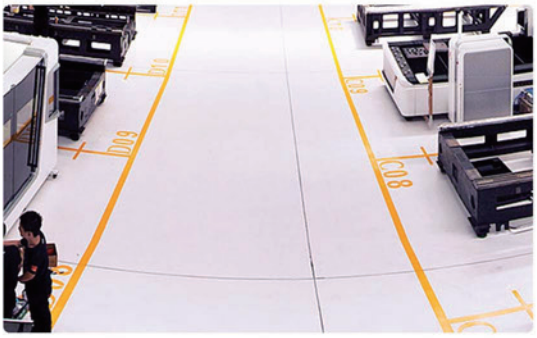

WORKSHOP

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