



With all-around protective covering and double exchange tables

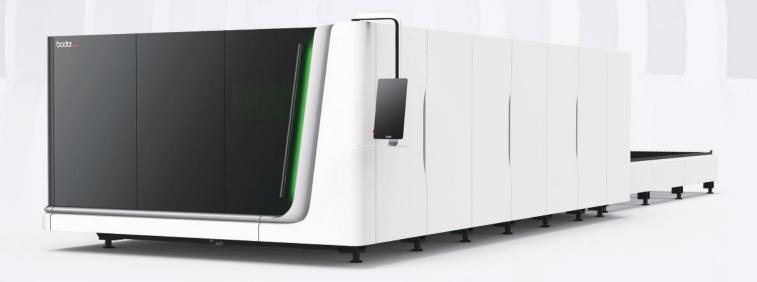
The equipment meets the parts processing requirements of most industries, working accuracy is stable. Selecting the optimal force and supporting structure, the overall mechanical property of equipment is perfect. Adopting cutting-edge optical concept to improve cutting performance. High speed cutting, 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.

Product parameters

Model	P3015	P4020	P6020	P6025	P8025					
Working Area	3000*1500mm	4000*2000mm	6100*2000mm	6100*2500mm	8100*2500mm					
Laser Power	40000w/30000w/20000w/15000w/12000w/8000w/6000w									
X/Y-axis Positioning Accuracy	0.03mm		0.05mm							
X/Y-axis Repositioning Accuracy	0.02mm		0.03mm							
Max. linkage speed	140m/min									



Advantages Of P6kW+ Laser Cutting Machine



Advantages of P6kw+ laser cutting machine

- Low processing costs
- Wide cutting range
- O Lead the laser industry

- O High cutting precision
- O High cutting efficiency
- O High return on investment



More Practical Ultimate Experience



Unique anti-burning mechanism of table and bed surface

- The newly optimized table load-bearing capacity(the full format is 30mm carbon steel when the power is below 6kw.
- The full format 40mm carbon steel when 6kw and above), it is not afraid of thick plate processing.
- O Cantilever type rotatable mobile console, flexibly adapt to the processing needs of different scenes.
- O The large enclosure is integrated with the bed, which simplifies on-site installation and is beautiful and smooth...



Higher Safety Level



All Cover Exchange Platform Laser Cutting Machine — P Series

- The all-around protective covering isolates laser radiation and pollution, offering higher safety level.
- O Smoke and dust produced during cutting will be automatically collected to ensure a clean operating area.
- O Smart monitoring system helps reduce accident rate.

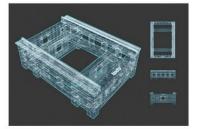




Material is more suitable



Technique is more suitable



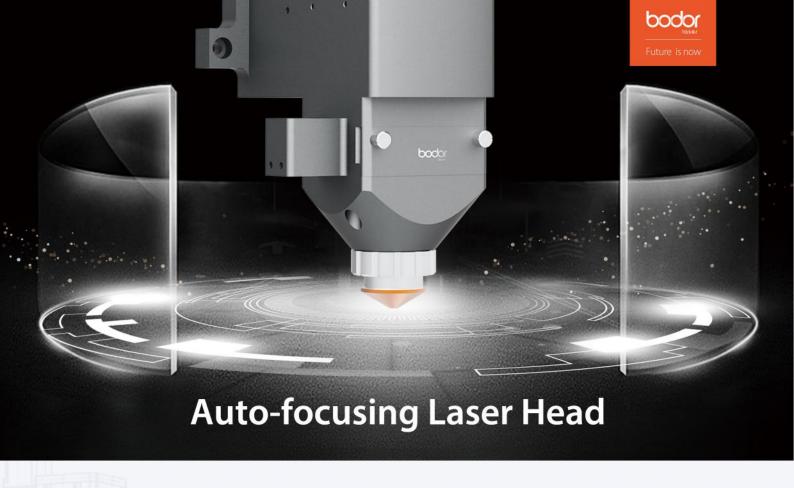
Structure is more reasonable

Clone production

O Pouring Mold, clone production; integrally formed, reject splicing.

Durable

- 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 permanently and no deformation in its life cycle.



Auto-focusing

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

Bodor Lightening Perforation Technology

Suitable for multiple focal lengths, and focal position will be automatically adjusted based on thickness of different sheets. Focal length is controlled by operating system, avoiding errors and deviations caused by manual operation.

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.





Double Fast Exchange Tables



Double Fast Exchange Tables

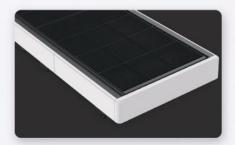
Fast exchange of two tables greatly improves efficiency.

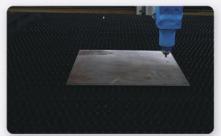
Rack and gearwheel transmission system has better rigidity and higher accuracy, saving feeding time.

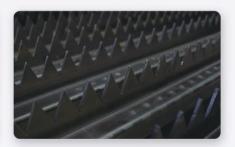


Unique Anti-burning Mechanism Of Table And Bed Surface









Unique anti-burning mechanism of table and bed surface(above 6kW)

- The table adopts the way of cast iron plate cushion backing the copper plate to absorb cutting heat and prevent table from being damaged.
- The bed surface is covered with additional cast iron plates to prevent the bed from being damaged by the falling material and cutting splash.



Stretched Aluminum Beam



Stretched Aluminum Beam(V2.0)

- 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.





Mango wireless remote control handle

Mango shape, elegant curve, use with one hand, magnetic attraction design.







21.5-INCH SCREEN

21.5-inch Screen

21.5-inch screen offers larger display area.



Rapid smoke exhaust (V2.0)

The newly upgraded smoke extraction system re-analyzes the equipment air duct structure, optimizes the air duct structure, the true power of the fan, and passes various rigorous dust removal and smoke exhaust tests, which can be achieved even in the face of complex smoke exhaust requirements exhaust smoke quickly.





Intelligent anti-collision

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



Higher Efficiency, Lower Cost

This function Lowers the damage rate of laser head, and accordingly reduces maintenance cost, prolonging service life of the machine. Avoid production halt caused by collisions, ensuring continuous production.

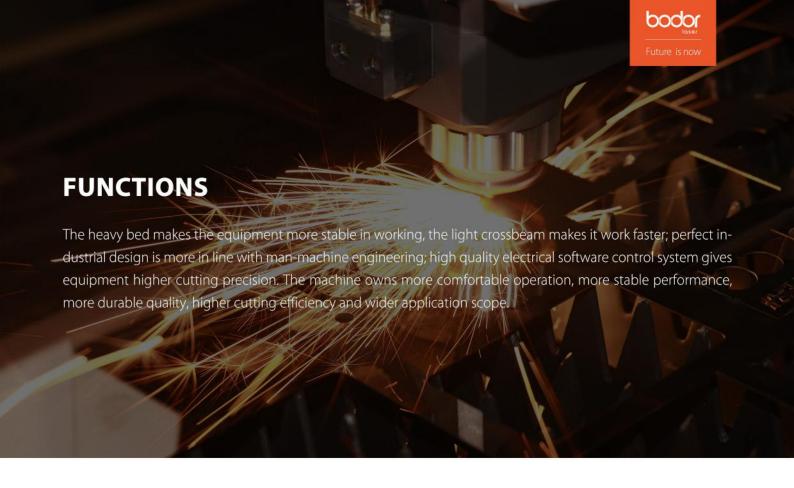




Bodor's independent R&D operating system can realize intelligent layout of graphics. Use optimal logic programming and software interactions in control aspect to achieve stunning using experience, effectively improve utilization of sheet metal and reduce leftover material.

Auxiliary Gas Low Pressure Alarm Function

Providing real-time pressure detection and reporting abnormal information ensure cutting effect, precision and timely replace gas.



Safety Following Module

Laser head is kept in a safe distance from the material during cutting. And laser head will stop its motion once colliding with the sheet, reducing collision risks.

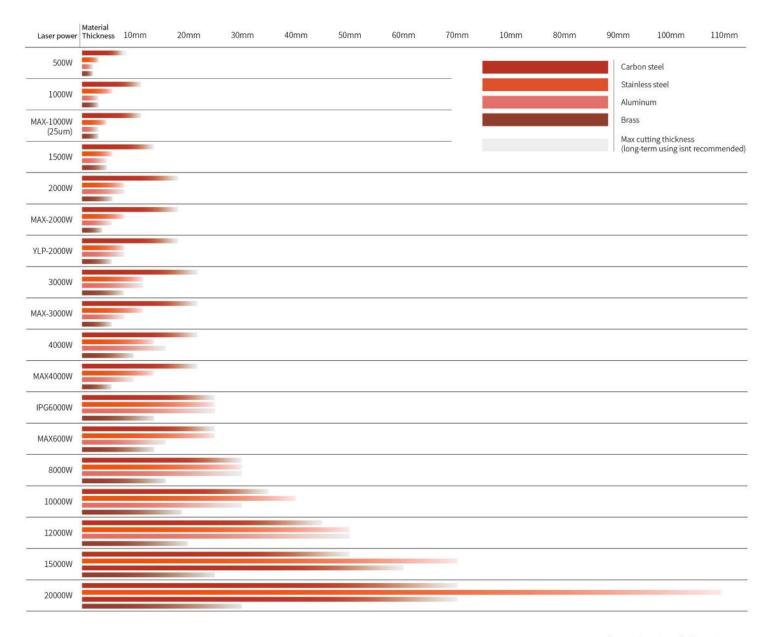
Automatic lubrication system

Quantitative lubricants provided for equipment guarantee the normal and high-speed operation, greatly improving the cutting accuracy.

The function of abnormal liquid level alarm can effectively extend the service life of the transmission mechanism.



Cutting Capacity



Above data is only for reference



Fiber Laser Cutting Process Parameters

		1000W	MAX- 1000W(25um)	1500W	2000W	MAX- 2000W(50)	YLR- 2000W	3000W	MAX- 3000W(50)	4000W	MAX- 4000W(50)	IPG 6000W	MAX 6000W	8000W	10000W	12000W	15000W	20000	20000 W
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	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/mir
	2	8.010 4.06.5	8.010 4.57.0	8.0-10 4.5-6.5	8.010 4.76.5	8.010 4.76.5	8.010 4.76.5	8.010 4.87.5	8.010 4.87.5	810 57.5	810 57.5	810 57.5	810 57.5	8-10 5-7.5	911 57.5	911 57.5	9-11 5-7.5	9-11 5-7.5	911 57.5
	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	3.5-5.0	3.55.0	3.5-5	3.5-5	3.5-5	3.5-5.5	3.5-5.5	3.5-5.5	3.5-5.5	3.5-5.5
	4	2.02,4	2.02.4	2.53.0	2.83.5	2.83.5	2.8-3.5	3.04.2	3.0-4.2	3.0-4.0	3.04.0	3.0-4.5	3.04.5	3.0-4.5	3.55	3.5-5	3.55	3.55	3.55
	5	1.5-2.0	1.5-2.0	2.02.5	2.23.0	2.23.0	2.2-3.0	2.63.5	2.63.5	2.7-3.6	2.73.6	3.0-4.2	3.0-4.2	3.0-4.2	3.3-4.0	3.34.8	3,3-4.8	3.3-4.8	3,3-4.8
	- 6	1.4-1.6	1.4-1.6	1.62.2	1.82.6	1.82.6	1.8-2.6	2.33.2	2.33.2	2.5-3.4	2.53.4	2.5-3.5	2.53.5	2.6-3.7	3.04.0	3.0-4.2	3.04.2	3.0-4.2	3.0-4.2
	8	0.81.2	0.8-1.2	1.01.4	1.21.8	3.2-1.8	1.2-1.8	1.82.6	1.82.6	2.0-3.0	2.03.0	2.2-3.2	2.2-3.2	2.33.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.53.5
	10 12	0.6-1.0	0.6-1.0	0.8-1.1	1.1-1.3 0.9-1.2	1.1-1.3 0.9-1.2	1.1-1.3 0.9-1.2	1.2-2.0	1.2-2.0	1.5-2.4	1.5-2.4	1.8-2.5	1.5-2.2	2-2.5	2.0-2.7 1.2-2.1	2.2-2.7	2.2-2.7	2.2-2.7	2.2-2.7
	14	0.5-0.6	0,3-0.0	0.5-0.7	0.7-0.8	0.7-0.9	0.8-1.0	0.9-1.2	0.9-1.2	0.9-1.2	0.9-1.2	1.2-1.8	1.0-1.5	1.2-1.9	1.7-1.9	1.7-1.9	1.5-1.9	1.5-1.9	1,5-1.9
Carbon steel	16				0.6-0.7	0.6-0.8	0.6-0.8	0.7-1.0	0.7-1.0	0.8-1.0	0.8-1.0	0.8-1.3	0.7-1.2	0.8-1.5	1.1-1.7	1.2-1.7	1.2-1.7	1.2-1.8	1.2-1.8
(Q135A) O2	18				0.4-0.6	0.50.7	0.5-0.7	0.6-0.8	0.6-0.8	0.6-0.9	0.6-0.9	0.6-0.9	0.6-0.9	0.8-1.5	0.81.6	1.01.8	1.2-1.5	1.2-1.8	1.2-1.8
	20							0.5-0.8	0.5-0.7	0.5-0.8	0.5 -0.8	0.50.8	0.5-0.8	0.6-1.3	0.6-1.4	0.6-1.5	1.2-1.5	1.2-1.6	1.2-1.6
	22							0.30.7	0.30.7	0.4-0.8	0.4-0.8	0.4-0.8	0.4-0.6	0.50.8	0.61.4	0.5-1.5	1.0-1.5	1.21.5	1.2-1.5
	25 30											0.30.55	0.20.5	0.30.7	0.51.0	0.5-1.1	0.8-1.5	0.8-1.4	0.81.4
	35													900-901	0.20.4	0.30.5	0.4-0.6	0.60.9	0.60.9
	40															0.20.4	0.30.5	0.50.8	0.50.8
	45															0.2-0	0.20.5	0.30.5	0.30.5
	50																0.10.5	0.20.4	0.20.4
	60																	0.20.4	0.20.4
	70	18-25	2436	2027	2430	2450	24-50	30-35	30-58	3245	4072	42-52	42-52	50-65	60-72	70-85	72100	0.1-0.3 72-100	0.10.3 72100
	2	5-7.5	6-10	8.0-12	9.0-12	9.0-14	9.0-15	13-21	13-39	16-28	24-45	20-33	42-52 20-33	30-40	35-45	40-66	4570	50-75	50-75
	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	7.0-15	7.0-18	15-22	15-22	18-27	20-30	35-45	38-50	38-55	38-55
	4	1.21.3	1.2-1.6	1.5-2.4	3.0-4.2	3.24.5	3.2-4.5	4.06.0	4.07.0	5.0-8.0	6.010.0	1015	1015	1216	1522	2032	25-35	25-33	2533
	5	0.5-0.7	0.60.75	0.71.3	1.8-2.5	2.0-2.8	2.0-2.8	3.05.0	3.0-5.0	3.5-5.0	4.05.0	8.012	6.5-8.0	1015	1018	1825	2030	2230	2230
	6			0.71.0	1.2-1.8	1.2-2.0	1.2-2.0	2.04.0	2.0-4,0	2.54.5	3.04.5	4.88.0	4,26.0	6.0-10.0	812	1215	15.0-25.0	1725	17-25
	8				0.7-1,0	0.7-1.0	0.7-1.0	1.52.0	1.52.0	1,6-2.0	1.62.0	3.0-4.0	2.5-3.5	3.55.0	5.07.5	8-12	8.0-12.0	1218	12-18
	10							0.60.8	0.60.8	0.8-1.2	0.81.2	1.6-2.5 0.8-1.5	1.22.0 0.81.5	2.02.7 1.22.0	3.07.0 2.53.9	6.08.0 4.05.5	6.010.0 4.06.0	6.0-12.0 4.08.5	6.0-12.0 4.0-8.5
	14							0.410.0	0.4-0.0	0.4-0.6	0.4-0.6	0.6-0.8	0.5-0.8	1.2-1.8	1.8-2.8	3.0-5.0	3.5-6.0	3.5-6.0	3.56.0
	16											0.50.8	0.4-0.7	1.0-1.6	1.72.3	2.22.8	2.5-3.0	2.5-3.3	2.5-3.3
Stainless	18											0.4-0.6	0.30.6	0.8-1.2	1.21.8	1.2-2.0	1.2-2.2	1.8-2.7	1.8-2.7
steel (201)	20											0.30.5	0,20.5	0.4-0.7	0.91.5	1.0-1.6	1.3-1.8	1.52.0	1.52.0
N2	25											0.2-0.4	0.2-0.4	0.3-0.5	0.6-0.7	0.50.8	0.6-1.2	1.0-1.5	1.0-1.5
	30													0.2-0.4	0.3-0.6	0.3-0.6	0.5-1.0	0.5-1.1	0.5-1.1
	35 40														0.30.5	0.3-0.5	0.40.8	0.4-0.8	0.4-0.8
	45														0.3-0.3	0.2-0.4	0.2-0.5	0.2-0.6	0.2-0.6
	50															0.10.2	0.10.5	0.20.5	0.20.5
	60																0.1-0.2	0.1-0.3	0.1-0.3
	70																0.05-0.1	0.1-0.3	0.1-0.3
	80																	0.1-0.3	0.1-0.3
	90																	0.1-0.2	0.1-0.2
	110																	0.05-0.1	0.05-0.1
	1	6.0-10	6.0-10	10-20	15-25	15-25	2030	25-38	25-40	35-45	35-45	42-55	42-55	48-65	55-65	60-85	70-100	70-100	70-100
	2	2.8-3.6	2.8-3.6	5.0-7.0	710	710	10-15	10-18	1320	1324	13-24	20-40	20-40	25-48	33-45	38-50	40-55	4055	4055
	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	7.0-13	7.0-13	15-25	1525	20-33	25-35	30-40	35-45	35-45	35-45
	4			1.01.5	2.0-3.0	3.5-4.0	3.55.0	3.5-5.0	3.55.0	4.0-5.5	4.0-5.5	9.5-12	9.5-12	13-18	15-25	20-30	30-40	30-40	30-40
	5			0.71.0	1.21.8 0.71.0	1.2-1.8	1.82.5	2.5-3.5 1.5-2.5	2.53.5 1.52.5	3.0-4.5 2.0-3.5	3.0-4.5	5.0-8.0 3.8-5.0	5.0-8.0 3.8-5.0	9.0-12 4.5-8.0	1320 9.012	1525 1015	20-30 15-24	2030 1524	2030 1524
	8				0.6-0.8	1.0-1.5	0.6-0.8	0.7-1.0	0.7-1.0	0.9-1.6	0.9-1.6	2.0-2.5	2.0-2.5	4.0-5.5	4.5-6.5	7,012	8.0-12.0	8.012.0	8.0-12.0
	10							0.4-0.7		0.61.2	0.61.2	1.01.5	1.01.5	2.23.0	2.84.0	4.58.0	6.0-10.0	6,0-10.0	6.0-10.0
Aluminum	- 12							0.3-0.45		0.40.6		0.8-1.0	0.8-1.0	1.51.8	1.92.5	4.0-5.0	4.06.0	4.06.0	4.06.0
N2	16									0.30.4		0.50.8	0.5-0.8	1.0-1.6	1.52.0	1.5-2.5	2,0-3.0	2.03.0	2.03.0
	20											0.50.7		0.7-1.0	0.81.2	0.9-1.5	1.3-1.8	1.31.8	1.3-1.8
	25 30											0.30.5		0.4-0.7	0.60.8	0.6-0.9	0.6-1.2	0.61.2	0.6-1.2
	35													0,3-0,6	0.5-0.7	0.30.6	0.5-1.0	0.5-1.0	0.5-1.0
	40															0.2-0.4	0.2-0.5	0.2-0.5	0.2-0.5
	50															0.1-0.2	0.3-0.7	0.3-0.7	0.3-0.7
	60																0.2-0.5	0.2-0.5	0.2-0.5
	65																	0.1-0.3	0.1-0.3
	2	6.010	6.0-10	8.013	1016	10-16	1218 6.08.5	20-35	2035	25-35	2535	35-45	35-45	4055 2840	5060 3340	5565 3850	7585 4055	7585	7585
	3	2.83.6 0.51.0	2.83.6 0.51.0	3.0-4.5 1.5-2.5	4.57.5 2.54.0	5.0-6.0 2.5-4.0	6.08.5 2.54.0	6.010 4.06.0	6.010 4.06.0	8.0-12 5.0-8.0	8.012 5.08.0	2030	2030 1218	2840	3340 1523	38-50	4055 3250	4055 3250	4055 3250
	4.	100	705 AM	1.01.6	1.52.0	2.03.0	2.0-3.0	3.0-5.0	3.0-5.0	3.2-5.5	3.2-5.5	5.0-8.0	5.08.0	1015	1016	15-20	27-35	2735	2735
	5			0.50.7	0.91.2		0.9-1.2	1.5-2.0	1.52.0	2.03.0	2.0-3.0	4.56.0	4.56.0	6.09.0	9:0-13	10-15	1826	1826	18-26
Brass	-6				0.40.7		0.40.9	1.01.8	1.0-1.8	1.4-2.0	1.4-2.0	3.04.5	3.04.5	4.5-6.5	7,09.0	6.0-8.0	10-18	1018	1018
	8							0.5-0.7		0.7-1.2		1.62.2	1.6-2.2	2,4-4.0	45-65	5.0-7.0	8.0-10.0	8.010.0	8.0-10.0
	10									0.2-0.5		0.8-1.2	0.8-1.2	1,5-2.2	2.44.0	4.56.5	5,0-7.0	5.0-7.0	5.0-7.0
N2	12											0.3-0.5	0.3-0.5	0.8-1.2	1.5-2.2	2.4-4.0	2.8-4.2	2.8-4.2	2.8-4.2
	14											0.3-0.4	0.3-0.4	0.4-0.6	0.61.2	0.6-1.5	1.0-1.8 0.8-1.5	1.01.8 0.81.5	1.01.8 0.81.5
	18														0.3-0.5	0.4-0.6	0.6-0.8	0.6-0.8	0.6-0.8
	20															0.3-0.5	0.4-0.6	0.4-0.6	0.4-0.6
	25																0.3-0.5	0.3-0.5	0.3-0.5
	30																	0.2-0.4	0.20.4
	35																	0.1-0.2	0.1-0.2



Metal Samples





















OFFICE





















WORKSHOP