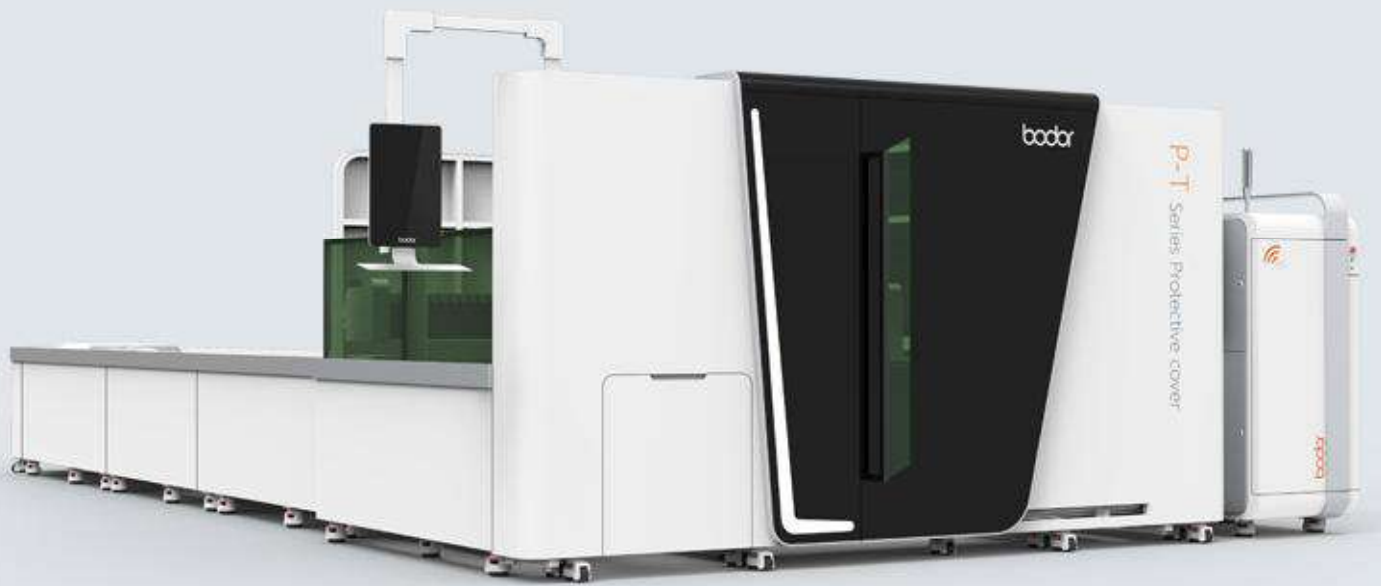


Dual-use Laser Cutting Machine

P-T series



World brand



WIFI Control



Honors



Multi-language
service

The optimal supporting structure makes the whole mechanical performance of equipment more perfect. Selecting the optimal cutting-edge logic programming and software interaction in control to provide stunning operating experience. Adopting the most advanced optical concept to improve the cutting effect. Excellent mechanical characteristics improve machining accuracy. The user-friendly software control system makes equipment operation more optimized, simple and accurate. Therefore the overall quality of equipment is improved.



MACHINE DETAILS

One for all

Fiber laser cutting machine P-T series, just like E-T model, combines the uses of plate metal and tube cutting and is capable of protecting human body efficiently with its protect cover design.



Integrated casting machine body

Using flake graphite cast iron, the lowest tensile strength of which is 200MPa. High carbon content, high compressive strength and high hardness. Strong shock absorption and wear resistance. Good casting and cutting performance. Excellent lubricity, corrosion resistance and dimensional stability. Low thermal sensitivity and bed gap sensitivity reduce the loss of equipment in using, so the machine accuracy could maintain for a long time, and no deformation in a life cycle.

Cutting precision improvement

PC head capsule design through vacuum hot deformation processing makes Z axis so light.



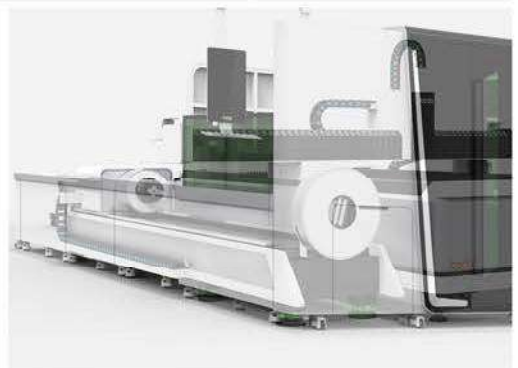
Different visual experience

The first one to use UI design in the world which lets display respond to processing table, making processing more intuitive. Elegant curves precisely fit machine body. Strong waterproof breathable system creates the best space, making operation more convenient. Diamond cutting process and HD plasma tempered glass make screen more exquisite and comfortable to use.



Simple & convenient operation

Powerful hockey stick shaped decorations adopt black acrylic with thickness of 30mm, ice film drawbench silver design of the same car and alpine white sheet metal, the international design style is accepted by global consumer groups. With precise cast iron bed, the whole machine is as firm as a rock. The most reasonable golden ratio and the greatest parts layout make the whole machine more stable, comfortable, accurate, and technological.



Application of novel technology

Application of chuck, independently designed and developed by Bodor, is another example of novel technology that remarkably improves cutting precision and working efficiency.

PARTS AND FUNCTION



WiFi wireless control

To provide speedy service, we add WiFi function for our technician operates troubleshooting and adjusts parameters remotely.



Auto focus laser head

Free your hands, enjoy auto focus. Focal length is controlled by operating system. We don't need to do manual regulation, which effectively avoids errors or faults caused by manual operation.



Laser Source

We have two types of laser sources: MAXPHOTONICS and IPG, which can be supplied according to customer request.



Japan Yaskawa Servo Motor

The increased power demands of large automation components utilize the robust performance of SGM7G.



Japan NSK Bearings

These bearing housings have square flange which can be easily attached to a machine with four bolts. With its simple mounting face, this bearing unit is widely used.



Auto lubrication system

Electrical lubrication is a kind of Gear pump with rational construction, great performance, complete functions.



Japan SMC pneumatic components

Stepless control of air pressure proportional to an electrical signal. Serial communications specifications. Compact/lightweight (Integrated communication parts).

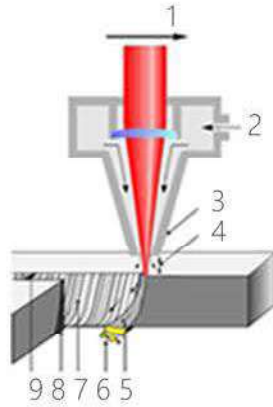


France Schneider Electronic Component

Circuit protection against short-circuit currents, overload currents,

WORKING PRINCIPLE

1. Moving direction
2. Auxiliary Gas
3. Nozzle
4. Nozzle Distance
5. Molten Material



6. Residues
7. Cutting section
8. Heat Affected Zone
9. Joint-Cutting

BodorPro Operation System

Independent R&D operating system, perfectly combines high efficiency and simplicity with inclusiveness



Automatic edge seeking function



VS

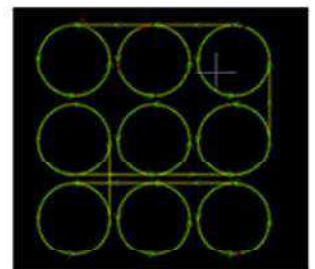
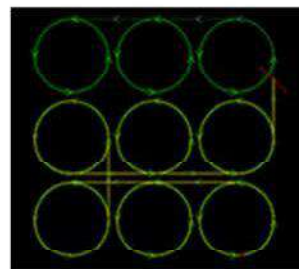
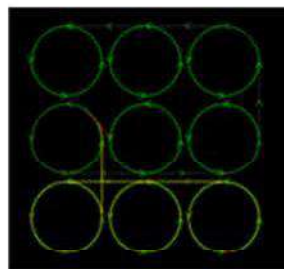
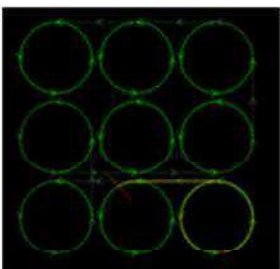


With automatic edge seeking function

Without automatic edge seeking function

Flying cutting function

To reduce the change of cutting path, and improve the cutting efficiency, saving working time



Wide control system compatibility

Support DXF, PLT, AI, GBX, NC, etc



EASY OPERATING

Can realize cutting work of intersecting line in any angle, such as



double pipe

bending pipe

t-branch pipe



truncation pipe

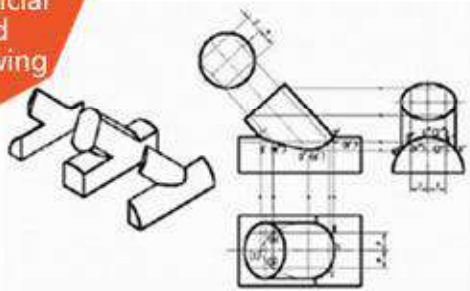
polygonal branch pipe

Triple branch pipe

No need drawing

Easy operating, can get model type by typing parameters inside.

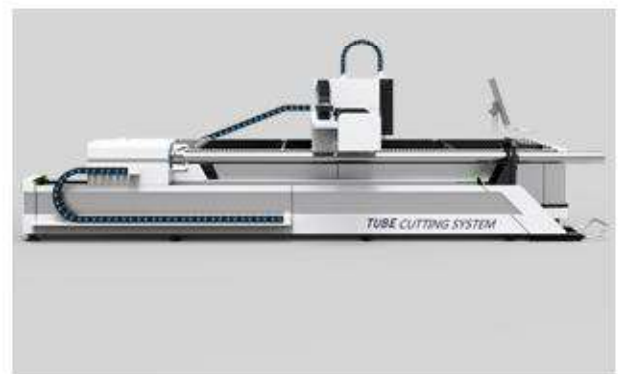
Artificial hand drawing



computer drawing



Concentric chuck high precision cutting



Support cutting work on square pipe, round pipe, rectangular pipe



HELP YOU TO SOLVE THE FOLLOWING PROBLEMS EASILY

SAVE MAN POWER

Save manpower cost

Solve the problem

High cost and difficult management of labor force

HIGH EFFICIENCY

High speed, convenient operation

Solve the problem

Artificial or common mechanical processing
with low speed ,low efficiency

GOOD QUALITY

High precision smooth section is convenient for welding processing or assembling

Solve the problem

Poor precision, coarse section, large slit

STANDARDIZATION

Computer operation standardization production

Solve the problem

Batch job error

LOW COST

Almost zero maintenance cost

Solve the problem

The equipment maintenance cost is high,
the continuous investment.

ENVIRONMENTAL PROTECTION

High-efficiency laser source ,dust and smoke treatment device

Solve the problem

High energy consumption,serious pollution

EUROPORPEAN QC SYSTEM

Precision testing and installation process



1

Flatness

Large CNC milling machine processing



2

Solidness

Each equipment is processed with 650°C heat aging treatment machine body is stable without any deformation



3

Precision

3 axes coordinate meter tests coordinate setting precision



4

Straightness

Laser collimator detects guide line



5

Fineness

Every tiny parts is detected with many times



6

Flintiness

Lathe Bed hardness measurement



7

Parallelism

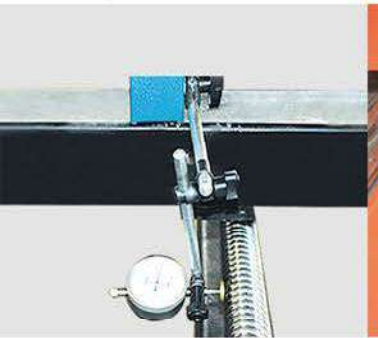
Rack gear parallelism test



8

Skillfulness

Quantity production with skilled technique and advanced manufacturing process



9

Parallelism

Ball screw installation test



10

Perpendicularity

Marble feet for lathe bed verticality test



11

Durability

72 hours aging test without laser



12

Stability

12 hours cutting test with laser

SWITZERLAND CENTER

BODOR Switzerland Center is located in Jambe-Ducommun 16, CH-2400 Le Locle, Switzerland, the hub with a long history in industrial products research and development.



DUAL-USE LASER CUTTING MACHINE P-T SERIES

MACHINE PARAMETER

Model	P1530T
Working Area	1500x3000mm
Effective Pipe Cutting Length	3000mm/6000mm
Laser Output Power	4000w/3000w/2000w/1500w/1000w
Positioning Accuracy	0.03mm
Reposition Accuracy	0.02mm
Max.Moving Speed	100m/min

Application

Petroleum exploration, lamps, metal, tool-processing and other
Especially for cutting of stainless steel, carbon steel, alloy steel, aluminum, copper, titanium, or other metal material, Customised good effect for the treatment of the alloys.



CUTTING THICKNESS AND SPEED

		500W	1000W	1500	2000W	3000W	4000W	6000W	8000W	10000W	12000W
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)	1	7.0-9.0	8.0-10	15-26	24-30	30-40	33-42	35-42	35-42	35-42	35-42
	2	3.0-4.5	4.0-6.5	4.5-7.0	4.7-6.0	4.8-7.5	5.2-8.0	6.0-8.0	6.2-10	7.0-12	10.0-13
	3	1.8-3.0	2.4-3.0	2.6-4.0	3.0-4.8	3.3-5.0	3.5-5.5	3.8-6.5	4.0-7.0	4.2-7.5	4.5-8.0
	4	1.3-1.5	2.0-2.4	2.5-3.0	2.6-3.5	3.0-4.2	3.1-4.8	3.5-5.0	3.5-5.5	3.5-5.5	3.5-5.5
	5	0.9-1.1	1.5-2.0	2.0-2.5	2.2-3.0	2.6-3.5	2.7-3.6	3.3-4.2	3.3-4.5	3.3-4.5	3.3-4.8
	6	0.6-0.9	1.4-1.6	1.6-2.2	1.8-2.6	2.3-3.2	2.5-3.4	2.8-4.0	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	2.0-3.0	2.2-3.2	2.5-3.5	2.5-3.5	2.5-3.5
	10		0.6-1.0	0.8-1.1	1.1-1.3	1.2-2.0	1.5-2.0	1.8-2.5	2.2-2.7	2.2-2.7	2.2-2.7
	12		0.5-0.8	0.7-1.0	0.9-1.2	1.0-1.6	1.2-1.8	1.2-2.0	1.2-2.1	1.2-2.1	1.2-2.1
	14			0.5-0.7	0.7-0.8	0.9-1.4	0.9-1.2	1.5-1.8	1.7-1.9	1.7-1.9	1.7-1.9
	16				0.6-0.7	0.7-1.0	0.8-1.0	0.8-1.5	0.9-1.7	0.9-1.7	0.9-1.7
	18				0.4-0.6	0.6-0.8	0.65-0.9	0.65-0.9	0.65-0.9	0.65-0.9	0.65-0.9
	20					0.5-0.8	0.6-0.9	0.6-0.9	0.6-0.9	0.6-0.9	0.6-0.9
	22					0.4-0.6	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8
25						0.3-0.5	0.3-0.5	0.3-0.7	0.3-0.7	0.3-0.7	
Stainless steel (201)	1	8.0-13	18-25	20-27	24-30	30-35	32-40	45-55	50-66	60-75	70-85
	2	2.4-5.0	7.0-12	8.0-13	9.0-14	13-21	16-28	20-35	30-42	40-55	50-66
	3	0.6-0.8	1.8-2.5	3.0-5.0	4.0-6.5	6.0-10	7.0-15	15-24	20-30	27-38	33-45
	4		1.2-1.3	1.5-2.4	3.0-4.5	4.0-6.0	5.0-8.0	10.0-16	14-21	18-25	22-32
	5		0.6-0.7	0.7-1.3	1.8-2.5	3.0-5.0	4.0-5.5	8.0-12	12.0-17	15-22	18-25
	6			0.7-1.0	1.2-2.0	2.0-4.0	2.5-4.5	6.0-9.0	8.0-14.0	12.0-15	15-21
	8				0.7-1.0	1.5-2.0	1.6-3.0	4.0-5.0	6.0-8.0	8.0-12.0	10.0-16
	10					0.6-0.8	0.8-1.2	1.8-2.5	3.0-5.0	6.0-8.0	8.0-12
	12					0.4-0.6	0.5-0.8	1.2-1.8	1.8-3.0	3.0-5.0	6.0-8.0
	14						0.4-0.6	0.6-0.8	1.2-1.8	1.8-3.0	3.0-5.0
	20							0.4-0.6	0.6-0.7	1.2-1.8	1.8-3.0
	25								0.5-0.6	0.6-0.7	1.2-1.8
	30								0.4-0.5	0.5-0.6	0.6-0.7
	40									0.4-0.5	0.5-0.6
Aluminum	1	4.0-5.5	6.0-10	10.0-20	15-25	25-38	35-40	45-55	50-65	60-75	70-85
	2	0.7-1.5	2.8-3.6	5.0-7.0	7.0-10.0	10.0-18	13-25	20-30	25-38	33-45	38-50
	3		0.7-1.5	2.0-4.0	4.0-6.0	6.5-8.0	7.0-13	13-18	20-30	25-35	30-40
	4			1.0-1.5	2.0-3.0	3.5-5.0	4.0-5.5	10.0-12	13-18	21-30	25-38
	5			0.7-1.0	1.2-1.8	2.5-3.5	3.0-4.5	5.0-8.0	9.0-12	13-20	15-25
	6				0.7-1.0	1.5-2.5	2.0-3.5	4.0-6.0	4.5-8.0	9.0-12	13-18
	8				0.6-0.8	0.7-1.0	0.9-1.6	2.0-3.0	4.0-6.0	4.5-8.0	9.0-12
	10					0.4-0.7	0.6-1.5	1.0-2.0	2.2-3.0	4.0-6.0	4.5-8.0
	12					0.3-0.45	0.4-0.6	0.8-1.4	1.5-2.0	2.2-3.0	4.0-6.0
	16						0.3-0.4	0.6-0.8	1.0-1.6	1.5-2.0	2.2-3.0
	20							0.5-0.7	0.7-1.0	1.0-1.6	1.5-2.0
	25								0.5-0.7	0.7-1.0	1.0-1.6
	35									0.5-0.7	0.7-1.0
	Brass	1	4.0-5.5	6.0-10	8.0-13	10.0-16	20-35	25-30	45-55	55-65	65-75
2		0.5-1.0	2.8-3.6	3.0-4.5	4.5-7.5	6.0-10	8.0-12	25-30	30-40	33-45	38-50
3			0.5-1.0	1.5-2.5	2.5-4.0	4.0-6.0	5.0-6.5	12.0-18	20-30	25-40	30-50
4				1.0-1.6	1.5-2.0	3.0-5.0	3.2-5.5	8.0-10	10.0-18	15-24	25-33
5				0.5-0.7	0.9-1.2	1.5-2.0	2.0-3.0	4.5-6.0	7.0-9.0	9.0-15	15-24
6					0.4-0.7	1.0-1.8	1.4-2.0	3.0-4.5	4.5-6.5	7.0-9.0	9.0-15
8						0.5-0.7	0.7-1.0	1.6-2.2	2.4-4.0	4.5-6.5	7.0-9.0
10							0.2-0.4	0.8-1.2	1.5-2.2	2.4-4.0	4.5-6.5
12								0.2-0.4	0.8-1.5	1.5-2.2	2.4-4.0
14									0.4-0.6	0.6-0.8	0.8-1.5