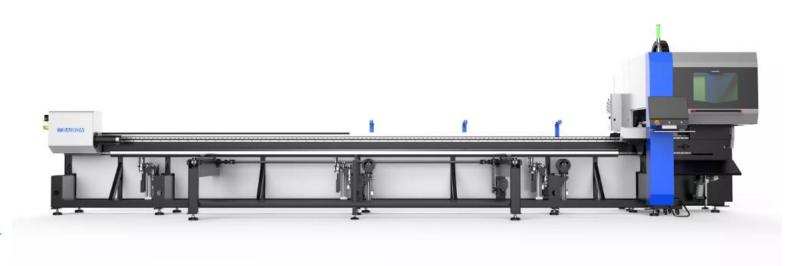






TECHNICAL PROPOSAL



K12C

Product Overview



ADVANTAGES

K12C

Space Saving and Cost effective

The footprint of our tube cutting laser is smaller, and only a 40HQ container is enough for 2 sets machines packing, which can save more transportation costs and improve the utilization of your factory space.

• Easy to Learn, Use and Maintenance

Because it is an automated tube machine, it is always easy to operate, featuring one-button operation!

Higher Efficiency

Compared with the standard tube processing machines, the efficiency of processing small tubes by this fiber laser cutting pipe machine can be increased by 40%.

Technical Parameter

Processing Format & Working Range					
Processing Area(L × W)	6500mm×120mm				
X-axis Stroke	200mm				
Y-axis Stroke	6500mm				
Z-axis Stroke	100mm				
Accuracy					
X/Y Axis Positioning Accuracy	±0.03mm/m				
X/Y Axis Repositioning Accuracy	±0.03mm/m				
Speed					
Max. Moving Speed	100m/min				
Max. Chuck Speed	140r/min				
Weight & Size					
Max Single Tube Loading Weight	80KG				
Tail Length	60mm				
Dimension (L×W×H)	9550*1850*2135mm				
Weight(kg)	2552KG				

Note:

- 1: To a certain extent, the accuracy depends on the type of workpiece, the pretreatment, the size of the plate and the position of the plate in the working area.
- 2. The above parameters are subject to change without notice. The final technical parameters are subject to the actual order agreement.

Processing Capability

Pipe Type	Processing Range(mm)	Processing Length
Round Tube	Ø10-Ø120mm	
Square Tube	10*10-120*120mm (When clamping large pipes, the chamfer of the pipe should be greater than R10mm.)	6500mm
H-steel	8 # (80x43mm, requires matching with nesting software and professional fixtures)	
Angle Iron	8 # (80x80mm, requires matching with nesting software and professional fixtures)	

Note:

The above data are for reference only, not as acceptance criteria.

TS60IV

CUTTING SAMPLES



















Configuration	Brand / Specification		
Control System	FSCUT3000DE-D		
Fiber Source	Raycus / MAX		
Cutting Head	Raytools		
Servo Motor	VEICHI / YASKAWA		
Gear And Rack	KH		
Guide	SHAC		
Proportional Valve	SMC		
Speed Reducer	TECHMECH		
Water Chiller	S&A		

Steel Welding Machine Bed



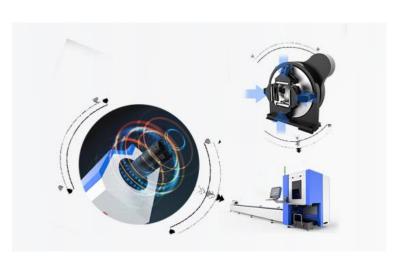
- Side hung structure design for easy loading
- The groove welding method is used to make the plates reach an equal strength butt.
- Stress annealing and natural aging treatment are applied to eliminate internal stress.

Intelligent Clamping System



- The intelligent clamping system features a cylinder-driven clamping mechanism that centers the tube and prevents it from swinging from side to side during cutting.
- It also includes a left and right clamping system that provides greater clamping force, stabilizes the tube, avoids swing, and improves precision.

Full-Stroke Professional Pneumatic Chuck



- Features a fully sealed design with a blow function on the rear chuck, which effectively protects the chuck from dust and debris entering the gripper, causing malfunctions.
- The blow function also helps reduce the adhesion of cutting dust to the inner wall of the tube, ensuring smoother cutting and minimizing maintenance needs.

Laser Cutting Head



- Auto focus
- Higher accuracy
- Longer service life
- Calbration and focus lenses and nozze beter protection

*The pictures are for reference only

MOTOREDUCER



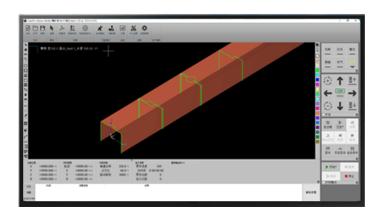
- Stable operation
- Low noise
- Large output torque
- High speed ratio

Servo Motor



- High accuracy
- High-speed performance
- High adaptability & stability
- Timeliness, short dynamic response time of motor
- Comfort less fever and noise

Control System



- Easy to use
- Various file editing functions
- Real-time alarm and protection
- Built-in simple nesting function maximizes the utilization of the sheet metal.
- Fly cutting / Secondary perforation cutting, etc.

Water Cooling System



- Dual cooling function
- Real-time alarm
- Machine protecton

Guide



- Low noise
- Wear-resistant
- Smoothly, enable fast speed

Processing Cost

Items		Air	Oxygen	Nitrogen
Peak Power Consumpti on (KW)	Laser	10.00	10.00	10.00
	Water Cooling	4.16	4.16	4.16
	Air Compressor	11.00	/	/
	Machine Main Frame	9.00	9.00	9.00
	Dust Removal Equipment	3.00	3.00	3.00
Total Power(KW)		37.16	26.16	26.16
Typical Power Consumption(KW) (*75% Total power)		27.87	19.62	19.62
Power Consumption Cost (0.15USD/kwh)		4.18	2.94	2.94
Consumable Parts (USD/h)		0.2	0.2	0.2
Gas Consumption(USD/h)		0	2.5	6
Total Operating Cost (USD/h)		4.38	5.64	9.14

If the cutting gas is the dry treated compressed air, the cost is actual the air compressor operating electricity + machine power + consumables (protective lens, cutting mouth).

Note:

- 1. The electricity price and gas price in the above list are for reference only, and the prices will be different in different regions.
- 2. Auxiliary gas consumption varies when cutting plates of other thickness.

Inspection & Assembly

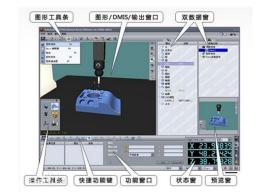
DURING ASSEMBLY

Check whether the beam machining form and position tolerance is within the design scope to ensure the equipment quality.



THREE COORDINATE INSPECTION OF BEAM

Three coordinate measuring machine (CMM) is a kind of instrument that can calculate all kinds of geometric shapes and dimensions according to the point data returned by the probe system in three-dimensional measurable space. It is also called three-dimensional element.



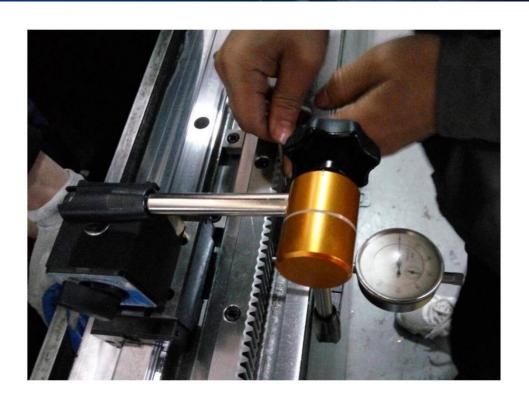
The bed beam collimator detects the guide rail surface - measures the straightness of the guide rail to ensure the accuracy of each equipment.



Inspection & Assembly

DURING ASSEMBLY

Installation detection and fixation of guide rail and rack. The professional technicians assemble such important precision parts such as guide rail and rack and adjust them with a dial indicator so as to ensure rack&pinion is assembled properly.

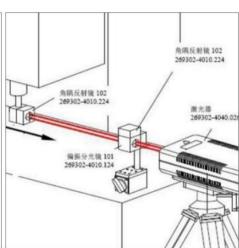


ASSEMBLY COMPLETION DETECTION

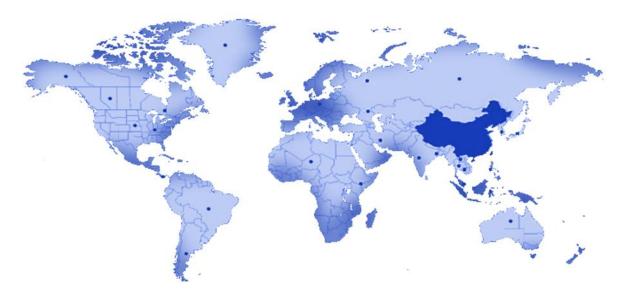
Laser interferometer-It has such advantages as high measurement accuracy and speed, etc Interferometer, mainly laser as light source, constitutes a measuring system withinterference. A laser interferometer with various refractive mirror to the linear position, speed, angle, flatness, straightness, parallelism and perpendicularity measurement work, and can be used as calibration of precision machine tool or measuring instrument.







Service System



PRE-SALE SERVICE

- Provide technical guidance, equipment solutions and other information services according to your needs.
- Welcome you to visit our company and equipment exhibition hall. And our engineers will offer the best explanation and demonstration. If you can't come to us, we will do a live broadcast to show you our factory and machine.
- Provide free proofing service.

SELLING SERVICE



Technicians would offer field installation, debugging and training when they come to the customer's factory.



Ensure the equipment is delivered on time.



Train customer operators in strict accordance with the equipment operation process to ensure that they are proficient in the operation, maintenance and safe use of the equipment.

AFTER-SALE SERVICE

- Baisheng provides professional door to door installing and training service, and daily online after sale service and technical advisory.
- We will establish communication group including technicians, after-sales managers, salesmen and operators of customers.

ASSEMBLY WORKSHOP





ASSEMBLY WORKSHOP I

ASSEMBLY WORKSHOP II

WHOLE INDUSTRIAL CHAIN LAYOUT















- The 10000 m² plant area covers sheet metal machining, spray painting, turning, milling, planing, grinding, fine finishing, machine assembly, and process debugging workshops.
- · Baisheng Laser has the largest self-owned super-heavy gantry milling and full-temperature CNChigh-temperature annealing furnace processing base in the China, ensuring independent production from each piece of sheet metal to the complete machine equipment, and a strict self and mutualinspection process for each process.
- \cdot We use superior materials, constantly improve and optimize the process, so that we can win by quality.

About Us



- Foshan Huibaisheng Laser Technology Co., Ltd. (Baisheng Laser), founded in 2004, is a high-tech enterprise integrating laser, precision machinery, numerical control, software development and modern management, specializing in the R & D, production and sales of large and medium power laser equipment.
- Since establishment, Baisheng Laser has developed rapidly. As one of the few laser cutting machine manufacturers in China with the ability to independently produce beams, sheet metal and machine tool frames, Baisheng Laser's Foshan headquarters has a plant area of about 100000 square meters, with 200+ sets of precision machining equipment, 500+ employees, 40+ R & D team and 100+ after-sales engineers.
- With strong enterprise strength and strong manufacturing strength, Baisheng Laser has become a leading and world-famous large and medium power laser equipment manufacturer and solution provider in China, and its marketing network covers more than 60 countries and regions around the world.



YOUR TRUST OUR RESPONSIBILITY

