

SF6038GT

DANOX
Just Weld It

Independent Research & Development Breaking the limit



Super Processing
Ability

Super Dynamic
Performance

Automated System,
More efficient

Pneumatic Self-
centering chuck



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Specifications, Facefit & Colors are subjected to change without prior notice

SF6038GT

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Tube Fiber Laser Cutting Machine

*The image is only a reference, the appearance and size are subject to the actual product

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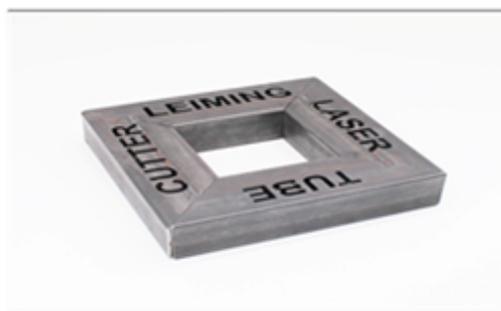
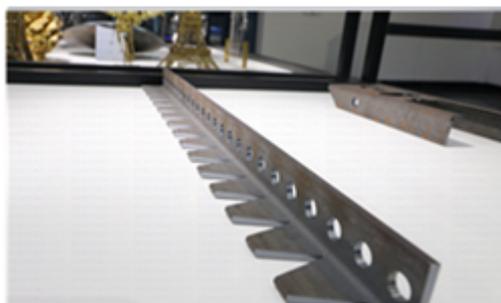
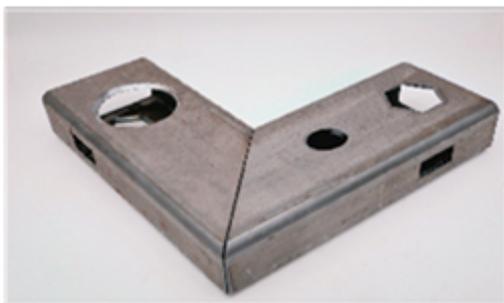
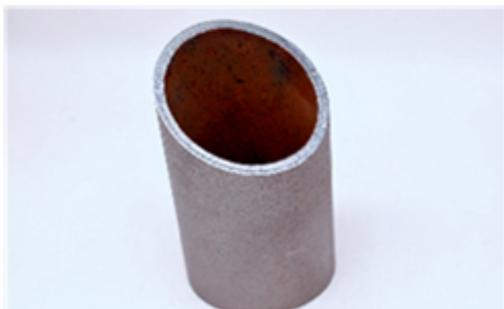
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Cutting Samples 1



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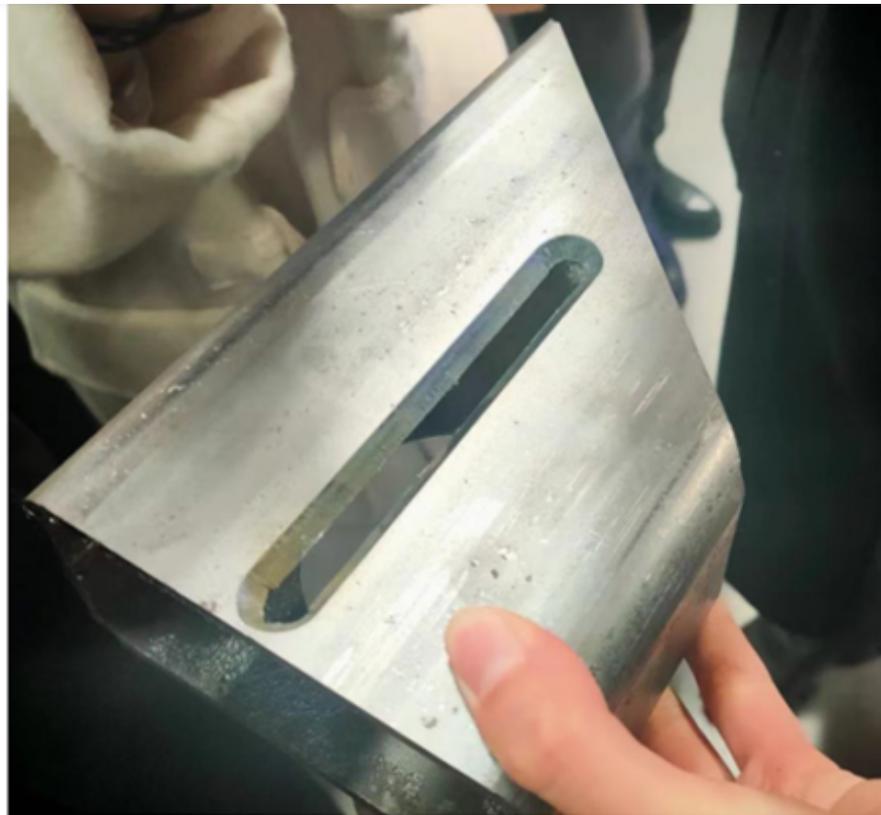
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Cutting Samples 2



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Cost benefit analysis

Project		Air Compressor Cutting	Oxygen Cutting	Nitrogen Cutting
Power Consumption (Max Power Consumption)	Laser	10.5KW	10.5KW	10.5KW
	Chiller Power	7.37KW	7.37KW	7.37KW
	Air Compressor Power	11KW	/	/
	Machine	17KW	17KW	17KW
	Dust Extraction Equipment	3KW	3KW	3KW
Consumable Parts		0.5 元/H	0.5 元/H	0.5 元/H
Gas Consumption		0	15 元/H	60 元/H
Total Power		48.87KW	37.87KW	37.87KW
Total Power Consumption		29.3KW/H	22.7KW/H	22.7KW/H

Cutting capacity and processing range

● **Cutable Materials**

Carbon Steel、Stainless Steel、Aluminum Alloy、Brass、Red Copper、Galvanized Sheet、Silicon Steel Plate、Electrolysis Plate、Titanium Alloy、Manganese Alloy etc.

● **Industry Applicable**

Sheet Metal Processing、Machinery、Auto Parts Manufacturing、Electrical Manufacturing、Elevator Manufacturing、Petroleum Machinery、Food Machinery、Decorative advertisements, etc.



● **Cutting thickness**

(Different material composition, the cutting parameters may be slightly deviated)

Cutting thickness: 1—18mm Carbon Steel pipe 1—12mm Stainless Steel pipe 1—8mm Aluminum Alloy Tube

Cutting diameter: Round Tube 10~380mm Side length of Square Tube: 10~260mm (Non-standard)

SF6038GT Cutting Parameter Table

Material	Thickness (MM)	Speed (m/min)	Gas
Stainless steel	1mm	20-25	N2
	2mm	12-18	
	3mm	8-10	
	4mm	5-7	
	5mm	4-5	
	6mm	3-4	
	8mm	2-3	
	10mm	1-1.5	
	12mm	0.8	
Carbon steel	1mm	25-30	O2
	2mm	13-17	
	3mm	7-9	
	4mm	3.5-4	
	5mm	3.0-3.2	
	6mm	2-2.5	
	8mm	2-2.3	O2
	10mm	1.8 — 2.2	
	12mm	0.9-1.2	
	14mm	0.8	
	16mm	0.7	
	18mm	0.5-0.7	
Aluminum	1mm	25-30	N2
	2mm	16-20	
	3mm	10-13	
	4mm	5-7	
	5mm	3.5-5	
	6mm	2.2-3	
	8mm	1-1.3	

**Due to the difference in carbon content of materials, the cutting parameter table is for reference only, subject to the actual cutting material.*

Technical Parameters

Number	Performance index parameters	Parameter
		SF6038GT 4000W
1	Pipe Length range	2000~6000mm
2	Pipe Diameter range	Φ10~Φ380mm (Non-standard)
3	Z Axis stroke	220mm
4	X/Y Axis positioning accuracy	±0.05mm
5	X/Y Axis repeat positioning accuracy	±0.02mm
6	Maximum Feeding Speed	75m/min
7	Maximum Speed of chuck	50r/min
8	Maximum acceleration	0.6G
9	Cutting head swing angle	±45°
10	Total Weight	8000KG
11	Maximum load of pipe cutting Machine	600KG
12	Dimension (Length X Width X Height)	15200*2950*2600mm
13	Phase	3 Phase
14	Power supply rate voltage	380V
15	Frequency	50Hz
16	Total Power Protection Level	IP54

Note :

1. The accuracy of the workpiece depends on a certain extent of the type of material, the surface condition of the workpiece, the specifications of the pipe, and the straightness of the workpiece.
2. The above technical parameters are subject to changes without prior notice. The final technical parameters are subject to the actual agreement.

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Configuration list

No.	Name	Quantity	Brand
1	Laser generator		
1	4000W Fiber-optic laser	1 Station	Raycus
2	Laser cutting head		
1	3D Laser cutting head	1 Set	Germany LT
3	Machine Tool•Host•Cutting (Optional)		
1	Transmission System	8 Set	Taiwan LAPPING/SENFENG
2	Machine tools and accessories	1 Set	SENFENG Laser
3	Reducer	5 Set	France MOTOREDUCER
4	Electrical and Pneumatic System	1 Set	France SCHNEIDER Japan SMC/ Taiwan AIRTAC
5	AC serve motor and driver	10 Set	Japan Yaskawa
6	Pneumatic chuck	2 Set	Standard
7	Water Cooling Unit	1 Set	Standard
4	CNC Cutting Software System		
1	FSCUTCNC Laser System	1 Set	Bai Chu FSCUT 5000A

Note:

1. Please note that, this optimal configuration is our company verification. If the brand and configuration are changed, irreversible effect may occur

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Laser device

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SF6038GT Bevel Laser Piper Cutting machine RFL-4000 New Fiber laser, has the following characteristics:

- 1) The smallest fiber core can reach 50nm
- 2) 100nm mode 3 selectable output
- 3) A new generation of intelligent control system
- 4) Multi-level security and high anti-protection



3D Laser head

SF6038GT

SF6038GT Bevel laser pipe cutting machine 3D Laser Cutting head

- 1) Multiple protective lenses, efficient protection of collimating and focusing lenses
- 2) Automatic focusing, reducing human intervention
- 3) Highly dustproof, IP65 dustproof, Patent protection lens holder cover



Machine host

SF6038GT

Machine Bed, Pneumatic System, Cooling system,

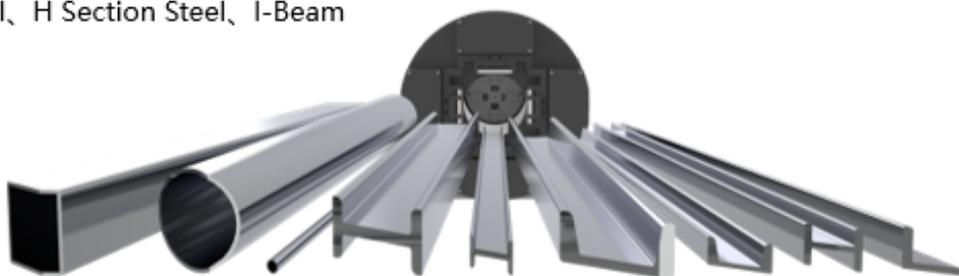
Dust removal system and other components.

Super tube processing ability

Size range: Tube diameter $\varnothing 10 \sim \varnothing 380 \text{mm}$; 方管边长 $\square 10 \times 10 \sim \square 260 \times 260 \text{mm}$

Shapes: Round Tube, Square Tube, Rectangular Tube, Oval Tube, Angle Steel, Channel

Steel, H Section Steel, I-Beam

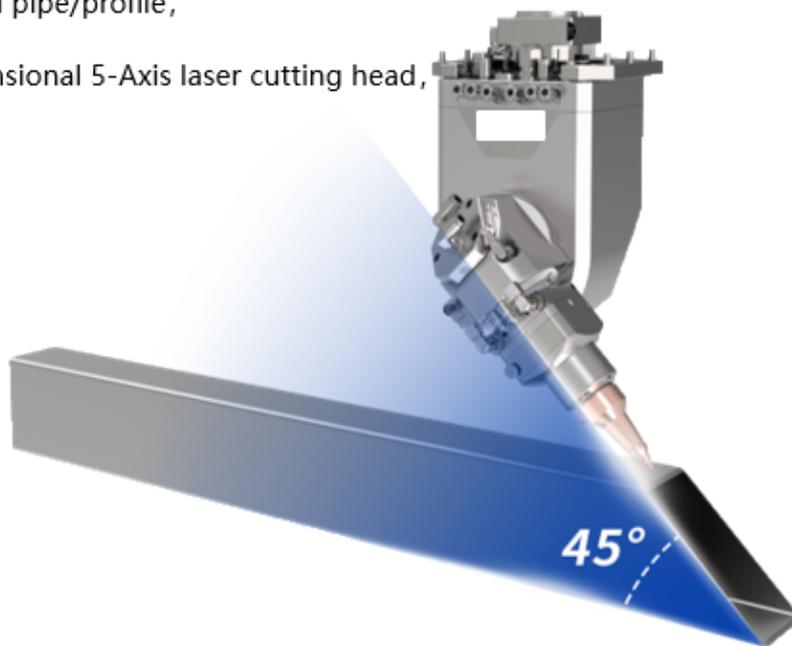


$\pm 45^\circ$ Bevel cutting

Carbon Steel pipe/profile,

Three-dimensional 5-Axis laser cutting head,

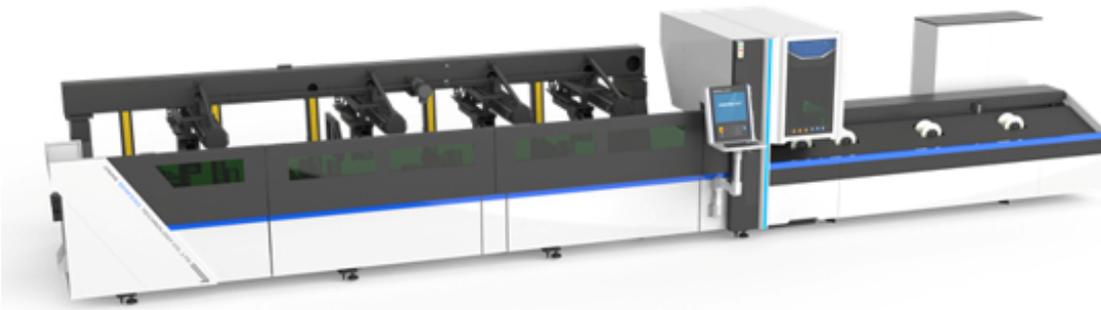
$\pm 45^\circ$



Automatic System, More Efficient (Option)

Bundle of pipes, Intelligent distribution, Loading & unloading;

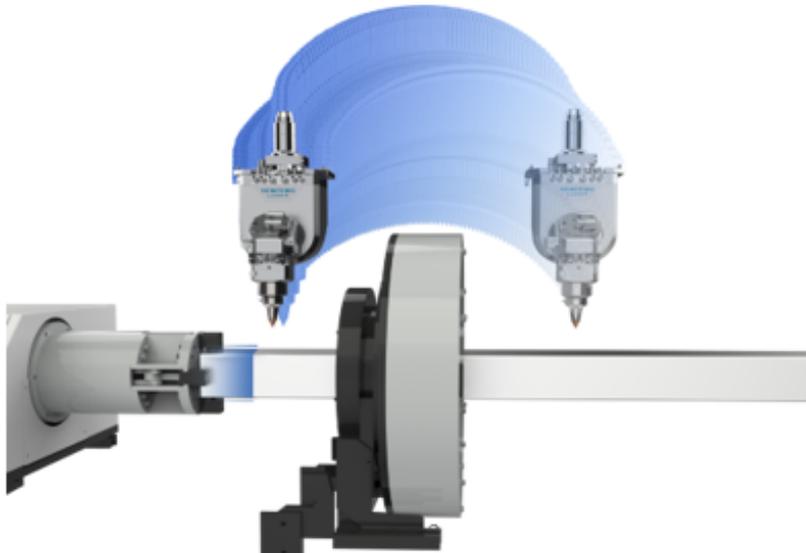
Automatic sorting of processed products and waste materials, reducing labor costs.



Automatic Avoidance • More economical

Laser cutting head automatic avoidance/chuck avoidance/chuck avoidance function, can realize ultra-short tailings

Intelligent pneumatic jaws, greater clamping force, no loosening or slipping of heavy pipes, more stable feeding, and more precise cutting.



Numerical control system **SF6038GT Model CNC system**

TubePro Special Cutting software for pipes+Tubes Nesting Software

SF6038GT Bevel laser pipe cutting machine equipment FSCUT5000A is a control system developed for pipe processing, support square tube, round tube, High-precision and highly efficiency cutting stretch tubes such as racetrack and elliptical shapes, as well as special shaped steel such as angle steel, channel steel and I-beam. Adaptation Software is TubePro Special cutting software for pipes+Tubes nesting Software, its performance characteristics are as follows:

- With automatic centering function, support real-time deviation compensation of tube center, reduce the clamping requirements for pipes, significantly improve the accuracy of perforation;
- Support angle steel, Channel steel, I-Beam, H shaped steel cutting;
- Built-in drawing function, support quick map, standard parts can be imported in batches;
- Common edge nesting, reduce the number of cuts, Higher cutting efficiency, extremely saving materials;
- Support for setting up a separate corner craft, improve pipe corner cutting quality;
- Support automatic loading, unloading and cycle processing, support standard automatic feeding action;
- Shorten the time-consuming idle movement in all directions, and improves the cutting efficiency;
- Trajectory accuracy 0.02mm, Positioning accuracy 0.001mm, Repeatability 0.003mm;
- Support real-time feedback of the encoder, adding error measurement tools to facilitate obtaining the best motion parameters of the machine tool

Bevel Tube Fiber Laser Cutting Machine SF6038GT



1.SF6038GT Bevel Tube Cutter(mainframe)

- 1) Chinese Raycus 4000w laser source
- 2) Bevel/3D cutting head Germany LT
- 3) Tube cutting length 6000mm
- 4) Round tube diameter 10-380mm, square tube diameter 10*10-260*260mm
- 5) Professional FSCUT 5000A Pipe Cutting Software, Nesting software included
- 6) Japan Yaskawa servo motor
- 7) France SCHNEIDER electric control
- 8) France MOTOREDUCER reducer
- 9) Japan SMC & Taiwan AIRTAC gas system
- 10) Others standard configuration
- 11) Consumable Parts, 30 pcs protection lens, 4 pcs ceramic rings, 30 pcs Nozzles, 1 pc protection glass
- 12) End support
- 13) Stabilizer
- 14) A set of tool kit
- 15) Voltage: 380V 50HZ, 3 phases

2.Fiber laser source Raycus 4000w

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