



**SENFENG** LEIANG  
LASER

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Exclusive distributor in Australia

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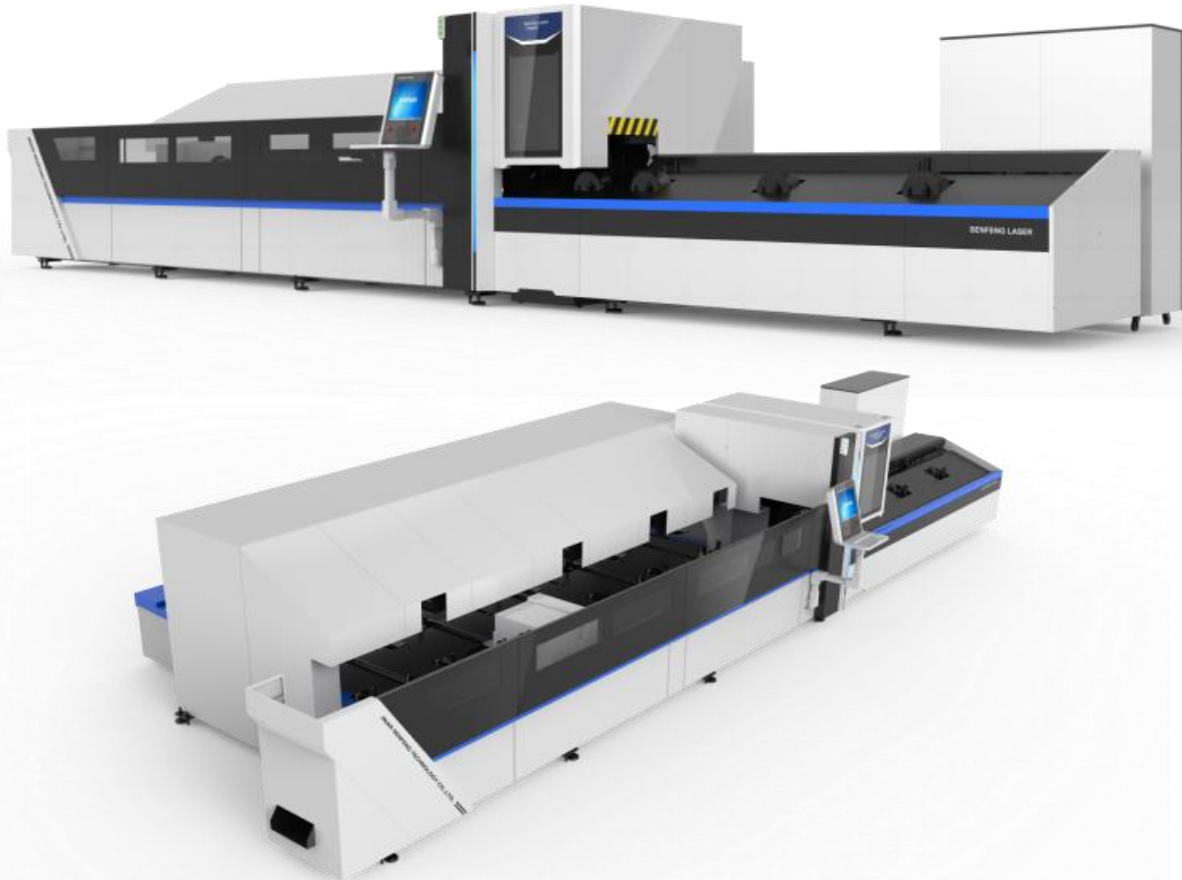
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**ALPHA SENFENG Tube Fiber Laser Cutting Machine**

**SF6020T-2000/3000/4000/6000**



## Specifications :



Model	SF6020T/2000/3000/4000/6000
Pipe Length	6000mm
Pipe Diameter	20-200mm (up to 140x140mm square tube)
Dimension With Auto Loading	13073x4977x2400mm
Dimension Without Auto Loading	13073x2900x2400mm
Laser Power	2KW/3KW/4KW/6KW
Positioning Accuracy	±0.05mm
Repetitive Accuracy	±0.03mm
Maximum Speed	100m/min
Power	3 Phase 415V/50Hz /160-250A
Machine Weight	6500KG
Laser Source	Raycus/IPG fiber laser 2KW/3KW/4KW/6KW
Laser Head	Raytools
CNC Controller	Cypcut TubePro pipe cutting software PC based CNC - easy integration into factory network
Cabinet Electrical Components	SIEMENS/Schneider
Water Chiller	Specialized for 2KW/3KW/4KW/6KW fiber laser
Dust Exhausting Fan	3KW



## Features:

### **Auto obtaining the center deviation in the process of machining**

TubePro can check the deviation between the center of pipe and the center of chuck rotation by collecting the Z-axis information in real time during processing. Real-time compensation for subsequent cutting graphics is carried out to achieve high precision processing.

### **Bracket Support**

When a long pipe is processed, a bracket is usually needed to support the pipe. TubePro supports the bracket function. During the whole processing, the bracket can rise or fall automatically according to the position of the chuck, and the bracket has automatic alarm function to ensure absolute safety between the chuck and the bracket. At the same time, brackets can be used to achieve the purpose of automatic blanking.

### **Corner Technology**

TubePro specially introduces the process of pipe corner to solve the problems of difficult cutting and poor cutting. Through debugging and testing, a set of reasonable corner pressure, peak power, duty cycle and so on are set to make the cutting of pipe corners faster and more perfect.

### **Auto Height Control**

When cutting pipes, there are usually situations where the corner can not be cut well. When TubePro is processed, the Z-axis not only plays the role of following and lifting, but also controls instructions. TubePro automatically calculates the height difference between the tube before and after rotation based on the cross-section information of the graph, and sends an upward or downward instruction to the Z-axis on the basis of random cutting at the corner.

### **Rapid operation**

TubePro can ensure the reasonable height of Z axis according to the section of pipe in West Sydney and the location of pipe hole. In the process of air movement, the three axes of XYB and Z axes move simultaneously, avoiding the time of Z axis rising and following the time, so as to achieve high efficiency.

### **Shape Of Profiled Steel**

TubePro not only supports the cutting of circular and square tubes. At the same time, it also supports the cutting of various profiles. For example, I-beam, channel, angle, elliptical, waist, polygon and so on. For these special-shaped pipes, the center deviation can also be automatically obtained.



## Application & Capability

### Materials:

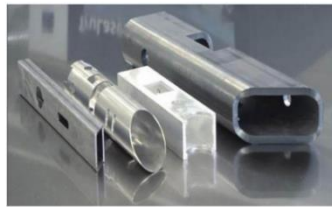
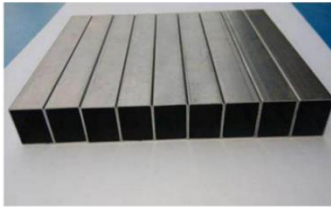
Carbon steel - Stainless steel - Aluminum alloy – Brass – Copper - Galvanized Steel - Titanium

### Thickness:

0.5-10mm carbon steel - 0.5-8mm stainless steel - 0.5-6mm aluminium - 0.5-6mm brass

### Industries:

Rail transit, automobile, construction machinery, agricultural and forestry machinery, electrical manufacturing, elevator manufacturing, household appliances, grain machinery, textile machinery, tool processing, petroleum machinery, food machinery, Kitchenware and bathroom, decorative advertising, laser processing services and other machinery manufacturing and processing industries





## Cutting Parameters 4KW

Material	Thickness (mm)	Cutting speed (m/min)	Cutting Gas
Stainless steel	1	30	N2
	2	12	N2
	3	7	N2
	4	5	N2
	6	2	N2
	8	1.1	N2
	10	0.8	N2
Carbon steel	1	25	N2
	2	12	N2
	3	4.3	O2
	4	3.8	O2
	6	2.1	O2
	8	1.8	O2
	10	1.3	O2
	12	1.1	O2
	14	0.8	O2
	16	0.7	O2
	20	0.5	O2
Brass	1	22	N2
	2	10	N2
	3	6	N2
	5	1.8	N2
Aluminum	1	24	N2
	2	10	N2
	3	6.5	N2
	4	3.5	N2
	5	2	N2
	6	1.5	N2



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## SENFENG LEIMING Workshop & Showroom



## USA branch



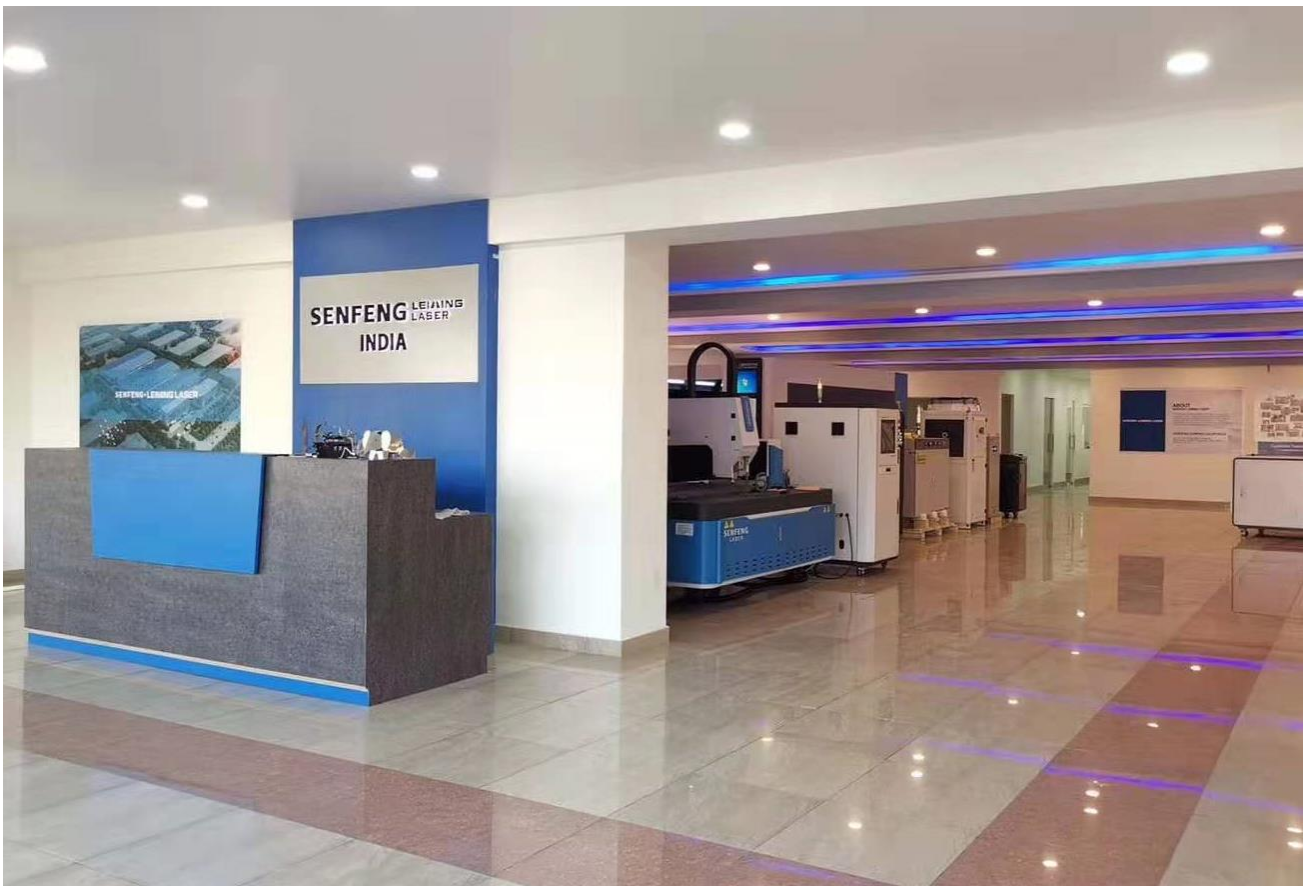


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## Germany Branch



## India Branch





## Other Products

### 3D Robot



3D Robot Laser Automation System



3D Laser Cutting and Welding

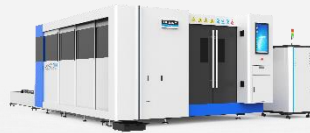


Arm 3D Robot

### Plate and Tube Cutting Machine



Tube Laser Cutter



Dual Table Sheet Fiber Laser Cutter  
With Safety Cover



Sheet Fiber Laser Cutter

### Other Laser Equipment



Automatic Laser Cutting Production Line



Laser Cleaner

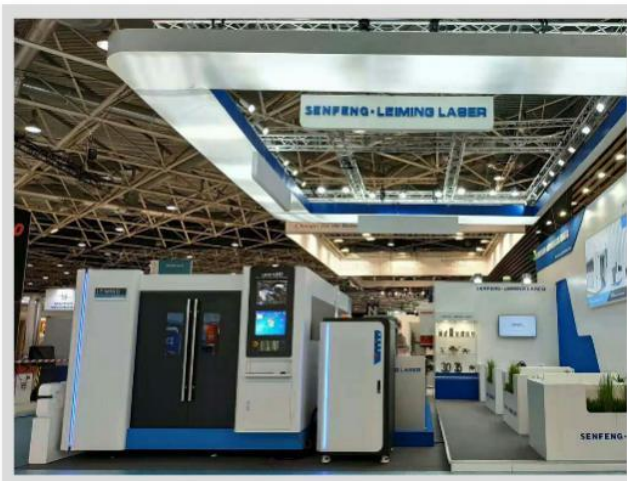
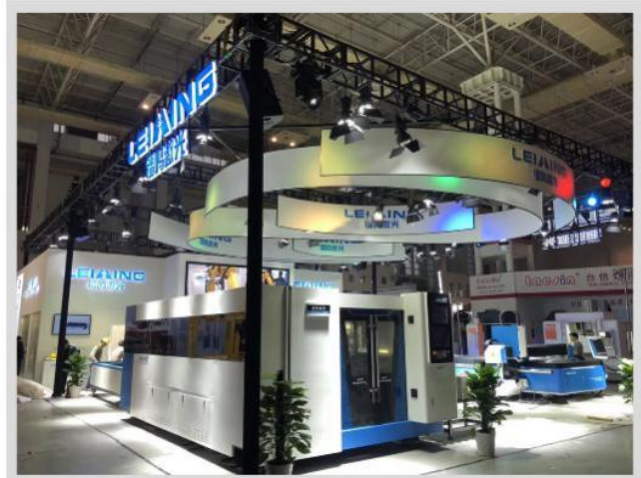
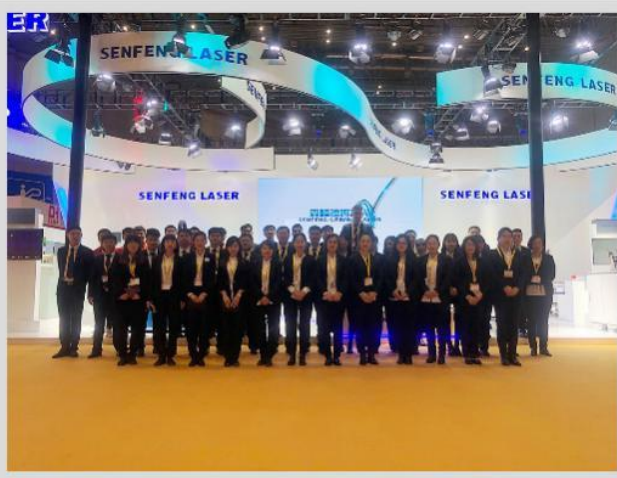


High Precision Laser Cutter



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# Trade shows





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# Thanks for your interest

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