

Company Profile

SENFENG Laser Technology Co., Ltd., founded in 2004 as a globe-spanning metal forming manufacturer, has devoted itself to laser cutting, welding, bending, cleaning, cladding, flexible automation and new energy for years.

During production, all our machines have went through natural aging, heat treatment, shot blasting, powder coating, finish machining, quality inspection and many other professional treatments to keep them work for a long time.

Oversea Service Center



SENFENG USA (Los Angeles)



SENFENG USA (Chicago)



SENFENG Germany



SENFENG UAE



SENFENG Pakistan



SENFENG Japan

Domestic Service Center



Global Headquarters



Manufacturing Base(Qiqihar)



Manufacturing Base (Lingang Road, Jinan)



SENFENG (Suzhou) New Energy



SENFENG (F.T.Z.) Import & Export Company



SENFENG (Wuhan) Branch

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🌐 www.senfenglaser.com

Note: The pictures and parameters in the album are for reference only, and the actual product shall prevail. Printed in Sept. 2025.

SENFENG

Provide Global Customers
with Metal Forming
Automation Solutions

Cutting

Bending Welding
Cladding Cleaning
Automation New Energy

PLUS Series

1.5-6kW

High-speed High-precision Tube Laser Cutting Machine

This machine is upgraded based on global users' actual use. It can cut small tubes at high speed and precision, with ultra-short or even 0 tailing. In view of $\pm 45^\circ$ bevel cutting (SF6012GPLUS), it has got ready for follow-on welding.



- Bus-based CNC system for auto nesting
- Two full-stroke chucks with ultra-short tailing
- Follow-up supports to avoid tube sagging
- Side-attached machine tool bed at high loads

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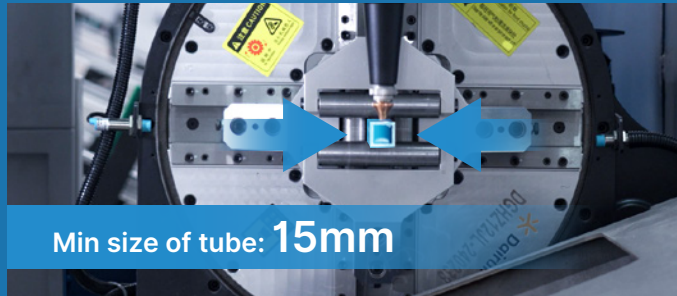
- Fast cutting speed
- Special for small tubes
- High cutting precision
- High level of automation



Model	SF3008PLUS	SF6012PLUS	SF6012GPLUS	SF6016PLUS	SF6024PLUS
Laser Power (kW)	1.5-3	1.5-3	1.5-3	1.5-3	3-6
Max Length of Tube (mm)	3000	6500	6500	6500	6500
Cutting of Tube Size (mm)	Φ16-80 □16*16-80*80	Φ15-120 □15*15-120*120	Φ15-120 □15*15-120*120	Φ15-170 □15*15-170*170	Φ20-230 □20*20-230*230
Max Weight of Tube (kg)	60	120	120	160	260
X/Y-axis Positioning Accuracy (mm)	±0.05	±0.05	±0.05	±0.05	±0.05
X/Y-axis Repositioning Accuracy (mm)	±0.03	±0.02	±0.02	±0.02	±0.02
±45° Bevel Cutting	No	No	Yes	No	No
Max No-load Speed (m/min)	100	150	150	150	100
Max Rotating Speed of Chucks (r/min)	240	240	240	200	100
Max Acceleration (G)	1.5	1.5	1.5	1.5	1.0
Overall Dimensions (L*W*H, mm)	3700*1780*2410	9100*2230*2300	9100*2230*2300	9100*2230*2300	9320*3100*2500
Power Supply	Three-phase 380V, 50Hz/60Hz (custom-made)				

Special for Small Tube

Its laser generator adopts laser energy precise-control technology to make cutting incision smooth and avoid edge & angle burning, overburning, burr or thermal deformation while dealing with small tubes.



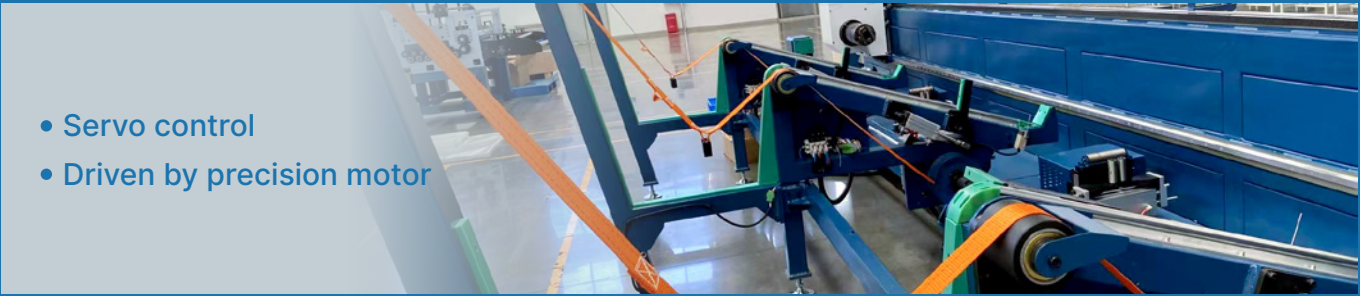
Min size of tube: 15mm



Cut stainless steel, AL alloy and other high-reflectivity tubes

Semi-/Fully-automatic Loading & Unloading Devices

With intelligent work mode, users may load multiple tubes in one go. After being cut, tubes will slide down automatically to lessen waiting time and make unloading continuous.



- Servo control
- Driven by precision motor

Pioneer Ultra-fast Tube Cutting Technology

With this innovative craft, it has superior dynamic performance and is roughly 50% faster than other similar models. The rear chuck can blow away cutting residues in time, lowering failure probability caused by getting stuck.

- Max acceleration: 1.5G
- Max rotating speed of chucks: 240 r/min
- Max no-load speed: 150 m/min

faster 50% SENFENG



Other

Rich Optional Functions

To further tap potentials, we have developed functions below, just in order to offer users better cutting by this simply-designed machine that enjoys rich functions.

±45° bevel cutting

Used in small-caliber saddle nozzle, L-shaped splicing, reducing tee and more
Notes: This feature is standard for SF6012GPLUS.



Cut with 0 tailing

Unique offset cutting is available to cut with 0 tailing



BCW profile scanner

Measure and compensate for deviation between tube and drawings in real time



Automatic slag cleaner

Remove slags from tube's inner wall during cutting and keep it clean enough

