



SENFENG

HOW TO SELECT YOUR TUBE LASER CUTTING MACHINES

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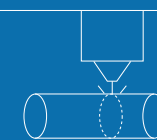
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Provide Global Customers with Metal
Forming Automation Solutions

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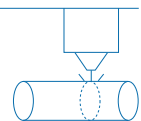
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About Tube Laser Cutting

This is a cutting-edge craft using high-energy laser beam to cut tubes. To be specific, it focalizes the laser beam on tube surface, then, makes the most of the interaction between laser photon and tube surface to rapidly melt, vaporize or ignite the tube materials, meanwhile, blows the molten or burning debris away with the help of auxiliary gas, as a result, tube cutting is over.

Tube laser cutting craft is featured by high precision & efficiency, low labor costs, good flexibility & applicability, energy conservation and environment protection. In addition to conventional tubes like round, square and rectangular tube, it can also handle with many special-shaped tubes incl. angle, channel steel, I-beam and H-shaped steel. Now, it is widely popular and of increasingly great importance to tube cutting field.



Business Division

After years of independent R&D and technical innovation, we are now committed to providing global customers with technically mature tube laser cutting solutions. Through persistent probe in some specific tube cutting fields, our family has extended over single-chuck, two-chuck, three-chuck and four-chuck tube cutting machines, ranging from vertical cutting to $\pm 45^\circ$ beveling, from regular to special-shaped tubes, and from semi-automatic to full-automatic operation. Customizing specific machines will also be satisfied by means of our technical supports and after-sales service in all areas.

Our tube laser cutting machines have been highly praised by a sea of workers from power tower, engineering machinery, bodybuilding apparatus, kitchenware and sanitary ware, etc. Their considerable merits below can facilitate the using enterprises to cut down on total costs and consumption, speed up production and eco-friendly development, as well as get more in the future, such as, high cutting precision & efficiency, sightly cutting surface and mass production.



Single-chuck Tube Laser Cutting Machine

Come standard with tube-drawing loading device



Technical Parameters

Model	SF6008T
Laser power	1500-3000W
Max length of tube	6200mm
Cutting ability	Round tube: Φ16-80mm, square or rectangular tube: 16mm≤diagonal line≤80mm
Max load of chuck	80kg
Max acceleration	1.5G
Max no-load speed	100m/min
Max idling speed of chuck	150r/min
Loading device (standard)	Fully-automatic loading device
Applicable industry	Baby stroller and cot, bodybuilding apparatus, railings & handrails, office desk and chair, furniture, kitchenware and sanitary ware, etc.

* Machine appearance, function description and technical parameters on this page are derived from SENFENG's Technical R&D Center based on our self-developed machines. For reference only, in kind prevail!

PLUS Series Two-chuck Tube Laser Cutting Machine

SF6009PLUS, SF6012PLUS, SF6016PLUS



Technical Parameters

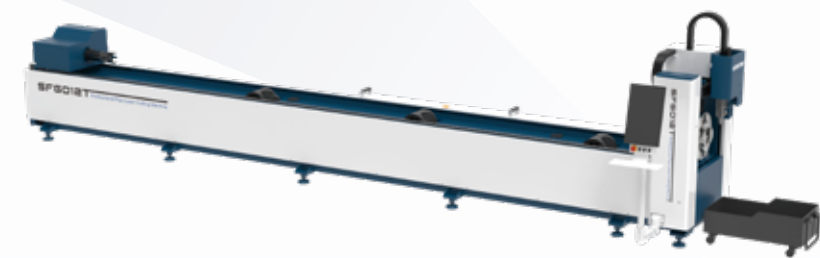
Model	SF6009PLUS	SF6012PLUS	SF6016PLUS
Laser power	1500-3000w	1500-3000w (straight cut) or 3000-6000w (beveling)	1500-3000W
Max length of tube	6500mm	6500mm	6000mm
Cutting ability	Φ20~ Φ90mm, □20~□90mm	Φ20~ Φ120mm, □20~□120mm	Φ20-160mm, □20*20-160*160mm
Number of chucks	2	2	2
Max load of chuck	50kg	80kg (straight cut) or 120kg (beveling)	150kg
Max acceleration	1.5G	1.5G	1.2G
Max no-load speed	200m/min	120m/min	100m/min
Max idling speed of chuck	180r/min	150r/min	140r/min
Loading device (standard)	Fully-/semi-automatic loading device	Fully-/semi-automatic loading device	Fully-/semi-automatic loading device
Applicable industry	Baby stroller and cot, bodybuilding apparatus, railings & handrails, office desk and chair, furniture, kitchenware and sanitary ware, etc.		

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T Series Two-chuck Tube Laser Cutting Machine

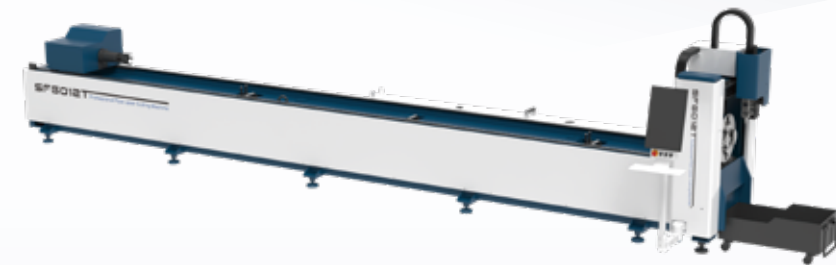
SF6012T

Vari-pitch support



SF6012T

Follow-up support



Technical Parameters

Model	SF6012T
Laser power	1500-3000W
Max length of tube	6500mm
Cutting ability	Φ10-120mm, □10*10-80*80mm
Max load of chucks	80kg
Max acceleration	1.2G
Max no-load speed	120m/min
Max idling speed of chucks	180r/min
Tube support device	Follow-up support
Loading device (optional)	Semi-/fully-automatic loading device
Unloading device (optional)	2m
Applicable industry	Display props, bodybuilding apparatus, medical instrument, metal furniture, railing production, office furniture, door & window manufacturing, etc.

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T Series Two-chuck Tube Laser Cutting Machine

SF6016T

Vari-pitch support



SF6016T

Follow-up support



Technical Parameters

Model	SF6016T
Laser power	1500-3000W
Max length of tube	6000mm
Cutting ability	Round tube: Φ10-160mm, square tube: 10*10-160*160mm, rectangular tube: (side length)≤160mm
Max load of chucks	150kg
Max acceleration	1.2G
Max no-load speed	100m/min
Max idling speed of chucks	140r/min
Tube support device	Vari-pitch or follow-up support
Loading device (optional)	Semi-/fully-automatic loading device
Unloading device (optional)	2m
Applicable industry	Display props, bodybuilding apparatus, medical instrument, metal furniture, railing production, office furniture, door & window manufacturing, etc.

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T Series Two-chuck Tube Laser Cutting Machine

SF6020T

Vari-pitch support



SF6020T

Follow-up support



Technical Parameters

Model	SF6020T
Laser power	1500-6000W
Max length of tube	6000mm
Cutting ability	Round tube: Φ10-220mm, square tube: 10*10-150*150mm, rectangular tube: (diagonal line)≤220mm
Max load of chucks	150kg
Max acceleration	1.0G
Max no-load speed	100m/min
Max idling speed of chucks	100r/min
Tube support device	Vari-pitch or follow-up support
Loading device (optional)	Semi-/fully-automatic loading device
Unloading device (optional)	2m
Applicable industry	Metalworking, bodybuilding apparatus, goods shelf, bicycle, vehicle frame, etc.

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T Series Two-chuck Tube Laser Cutting Machine

SF6024T

Vari-pitch support



SF6024T

Follow-up support



Technical Parameters

Model	SF6024T	
Laser power	1500-6000W	
Max length of tube	6000mm	
Cutting ability	Round tube: Φ10-220mm, square tube: 10*10-150*150mm rectangular tube: (diagonal line)≤220mm	Round tube: Φ10-240mm, square tube: 10*10-240*240mm rectangular tube: (side length) 10-240mm
Max load of chucks	250kg	
Max acceleration	0.8G	
Max no-load speed	100m/min	
Max idling speed of chucks	100r/min	
Tube support device	Vari-pitch support	Follow-up support
Loading device (optional)	Semi-/fully-automatic loading device	
Unloading device (optional)	2m	
Applicable industry	Metalworking, bodybuilding apparatus, goods shelf, bicycle, vehicle frame, etc.	

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T Series Two-chuck Tube Laser Cutting Machine

SF6035T

Vari-pitch support



SF6035T

Follow-up support



Technical Parameters

Model	SF6035T	
Laser power	1500-6000W	
Max length of tube	6000mm	
Cutting ability	Round tube: Φ20-360mm, square tube: 20*20-255*255mm rectangular tube: (diagonal line)≤360mm	Round tube: Φ20-360mm, square tube: 20*20-360*360mm rectangular tube: (side length) 20-360mm
Max load of chucks	500kg	
Max acceleration	0.6G	
Max no-load speed	60m/min	
Max idling speed of chucks	60r/min	
Tube support device	Vari-pitch support	Follow-up support
Loading device (optional)	Semi-/fully-automatic loading device	
Unloading device (optional)	2m	
Applicable industry	Metalworking, bodybuilding apparatus, goods shelf, bicycle, vehicle frame, etc.	

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GT Series Two-chuck Tube Laser Cutting Machine (Beveling)

SF6024GT

Two-chuck Tube Laser Cutting Machine



SF6035GT

Two-chuck Tube Laser Cutting Machine



Technical Parameters

Model	SF6024GT	SF6035GT
Laser power	3000-6000W	
Max length of tube	6000mm	
Cutting ability	Round tube: Φ10-230mm, square tube: 10*10-230*230mm, rectangular tube: (side length) 10-230mm	Round tube: Φ20-360mm, square tube: 20*20-360*360mm, rectangular tube: (side length) 20-360mm
Max load of chucks	250kg	700kg
Max acceleration	0.8G	0.6G
Max no-load speed	75m/min	60m/min
Max idling speed of chucks	100r/min	60r/min
Tube support device	Follow-up support	
Loading device (optional)	Semi-/fully-automatic loading device	
Unloading device (optional)	2m	
Applicable industry	Metalworking, bodybuilding apparatus, goods shelf, bicycle, vehicle frame, etc.	

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NT Series Three-chuck Tube Laser Cutting Machine (Horizontal)

SF6024NT

Three-chuck Tube Laser Cutting Machine



SF6035NT

Three-chuck Tube Laser Cutting Machine



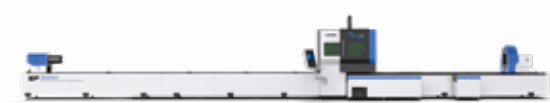
SF9024NT

Three-chuck Tube Laser Cutting Machine



SF9035NT

Three-chuck Tube Laser Cutting Machine



SF12035NT

Three-chuck Tube Laser Cutting Machine



Technical Parameters

Model	SF6024NT	SF6035NT
Laser power	1500W-6000W	1500W-6000W
Max length of tube	6000mm	6000mm
Cutting ability	Round tube: Φ20-230mm square tube: 20*20-230*230mm rectangular tube: (side length) 20-230mm	Round tube: Φ20-360mm square tube: 20*20-360*360mm rectangular tube: (side length) 20-360mm
Max load of chucks	250kg	1000kg
Max acceleration	0.8G	0.6G
Max no-load speed	75m/min	60m/min
Max idling speed of chucks	100r/min	60r/min
Tube support device	Follow-up support	Follow-up support
Loading device (optional)	Semi-/fully-automatic loading device	Semi-/fully-automatic loading device
Unloading device (standard)	3m (standard), 6m (optional)	3m (standard), 6m (optional)
Beveling	Optional	Optional
Applicable industry	Engineering machinery, metalworking, bridge & tunnel, vehicle frame, harbor machinery, steel structure, etc.	

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SF9024NT	SF9035NT	SF12035NT
1500W-6000W	1500W-6000W	1500W-6000W
9000mm	9000mm	12000mm
Round tube: Φ20-230mm square tube: 20*20-230*230mm rectangular tube: (side length) 20-230mm	Round tube: Φ20-360mm square tube: 20*20-360*360mm rectangular tube: (side length) 20-360mm	Round tube: Φ50-360mm square tube: 50*50-360*360mm rectangular tube: (side length) 50-360mm
250kg	1000kg	1000kg
0.8G	0.6G	0.6G
75m/min	60m/min	60m/min
100r/min	60r/min	60r/min
Follow-up support	Follow-up support	Follow-up support
Semi-/fully-automatic loading device	Semi-/fully-automatic loading device	Semi-/fully-automatic loading device
3m (standard), 6m/9m (optional)	3m (standard), 6m/9m (optional)	3m (standard), 6m/9m/12m (optional)
Optional	Optional	Optional
Engineering machinery, metalworking, bridge & tunnel, vehicle frame, harbor machinery, steel structure, etc.		

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ST Series Three-chuck Tube Laser Cutting Machine (Side-attached)

SF9035ST

Three-chuck Tube Laser Cutting Machine



SF12035ST

Three-chuck Tube Laser Cutting Machine



SF12035PLUS

Three-chuck Tube Laser Cutting Machine



SF12050PLUS

Three-chuck Tube Laser Cutting Machine



Technical Parameters

Model	SF9035ST	SF12035ST
Laser power	6000W-20000W	6000W-20000W
Max length of tube	9000mm	12000mm
Cutting ability	Round tube: Φ20-360mm square tube: 20*20-360*360mm rectangular tube: (side length) 20-360mm	Round tube: Φ50-360mm square tube: 50*50-360*360mm rectangular tube: (side length) 50-360mm
Max load of chucks	1200kg	1200kg
Max acceleration	0.6G	0.6G
Max no-load speed	60m/min	60m/min
Max idling speed of chucks	60r/min	60r/min
Tube support device	Follow-up support	Follow-up support
Loading device (standard)	Semi-automatic loading device	Semi-automatic loading device
Unloading device (standard)	6m (standard), 9m (optional)	6m (standard), 9m/12m (optional)
Beveling	Optional	Optional
Applicable industry	Engineering machinery, heavy machinery, building machinery, steel structure, bridge formwork, etc.	

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SF12035 PLUS	SF12050 PLUS
6000W-20000W	6000W-20000W
12000mm	12000mm
Round tube: Φ50-360mm square tube: 50*50-360*360mm rectangular tube: (side length) 50-360mm	Round tube: Φ50-500mm square tube: 50*50-500*500mm
1500kg	2000kg
0.3G	0.3G
60m/min	40m/min
60r/min	40r/min
Follow-up support	Non
Semi-automatic loading device	Semi-automatic loading device
6m (standard), 9m/12m (optional)	6m (standard), 9m/12m (optional)
Optional	Optional
Engineering machinery, heavy machinery, building machinery, steel structure, bridge formwork, etc.	

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HT Series Four-chuck Tube Laser Cutting Machine (Side-attached)



Figure 15-1 HT Series Four-chuck Tube Laser Cutting Machine (Side-attached)

Technical Parameters

Model	SF12050HT
Laser power	6000-20000W
Max length of tube	12000mm
Cutting ability	Round tube: Φ50-500mm, square tube: 50*50-500*500mm
Max load of chucks	2000kg
Max acceleration	0.3G
Max no-load speed	40m/min
Max idling speed of chucks	40r/min
Loading device (standard)	Semi-automatic loading device
Unloading device (standard)	12m
Applicable industry	Petroleum pipeline, tower power, engineering machinery, etc.

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Large H-shaped Steel Laser Cutting Production Line



Figure 16-1 Large H-shaped Steel Laser Cutting Production Line

Technical Parameters

Model	SF1500CH
Laser power	12000-20000W
Max length of workpiece	12000mm
Cutting ability	Max width of H-shaped steel (web): 1200mm Max height of H-shaped steel (flange slab): 500mm Max working area of flat sheet: 26000*3000mm (max width if beveling: 2500mm)
Load capacity	3000kg
Max acceleration	0.5G
Max no-load speed	50m/min
Applicable industry	Steel structure building, bridge & tunnel, harbor machinery, etc.

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Custom-made Automation Solutions

SAL Semi-automatic Chained Loading Device

SAL1-6



- Load 6m long tube
- Work with
SF6024T SF6024GT SF6024NT
SF6035T SF6035GT SF6035NT

SAL2-9



- Load 9m long tube
- Work with
SF9024T SF9024GT SF9024NT
SF9035T SF9035GT SF9035NT

SAL3-12



- Load 12m long tube
- Work with
SF12024T SF12024NT SF12035NT

XAL Semi-automatic Sloped Loading Device

XAL120B-6



- Load 6m long tube
- Work with
SF6016T SF6020T SF6024T

SFB Fully-automatic Simply-designed Loading Device

SFB250-6



- Load 6m long tube
- Work with
SF6016T SF6020T SF6024T SF6024GT
SF6035GT SF6024NT SF6035NT

SFB350-9



- Load 9m long tube
- Work with
SF9016T SF9020T SF9024T SF9024GT
SF9035GT SF9024NT SF9035NT

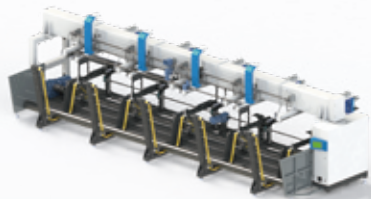
SFB550-12



- Load 12m long tube
- Work with
SF12024T SF12024NT SF12035NT

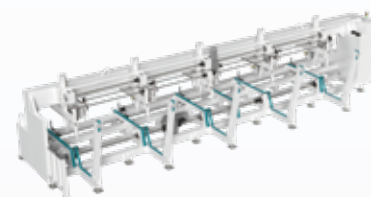
SFQ Fully-automatic Loading Device

SF250Q-6



- Load 6m long tube
- Work with
SF6016T SF6020T SF6024T SF6024GT
SF6035GT SF6024NT SF6035NT

SF350Q-9



- Load 9m long tube
- Work with
SF9016T SF9020T SF9024T SF9024GT
SF9035GT SF9024NT SF9035NT

SF400Q-12



- Load 12m long tube
- Work with
SF12024T SF12024NT SF12035NT

Custom-made Automation Solutions

STL

Loading Device for Side-attached Three-chuck Tube Laser Cutting Machine

Single-tube Loading Device



- Load 6m long tube semi-automatically
- Work with: SF6050ST



- Load 9m long tube semi-automatically
- Work with: SF9050ST



- Load 12m long tube semi-automatically
- Work with: SF12035ST



- Load 12m long tube semi-automatically
- Work with: SF12050ST

Single-tube Loading Device



- Load 6m long tube semi-automatically
- Work with: SF6050 PLUS



- Load 9m long tube semi-automatically
- Work with: SF9050 PLUS



- Load 12m long tube semi-automatically
- Work with: SF12035 PLUS



- Load 12m long tube semi-automatically
- Work with: SF12050 PLUS

Unloading Device



- Unload 6m long tube (standard)
Unload 9m/12m long tube (optional)
- Work with: SF12035ST SF12035 PLUS

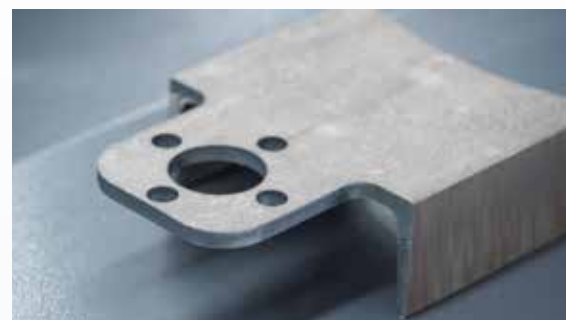
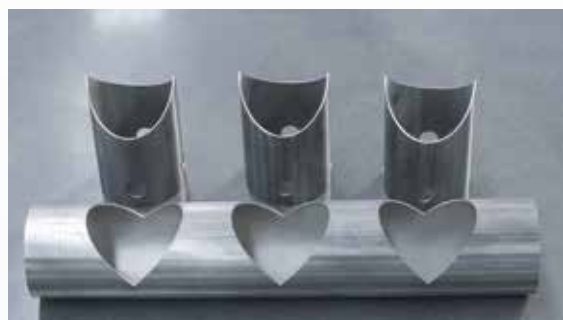


- Unload 6m long tube (standard)
Unload 9m/12m long tube (optional)
- Work with: SF12050ST SF12050 PLUS



- Unload 12m long tube (standard)
- Work with: SF12050HT

Showcase of Tube Cutting Crafts



Applicable Industry



>
Railing
production



>
Bridge formwork



>
Power tower



<
Petroleum
pipeline



<
Medical
instrument



<
Steel structure



<
Engineering
machinery



<
Bodybuilding
apparatus

After-sales Service



Quick-response Service



High Efficiency

Answer your repair calls for 24*7*365 days

Technical engineers can diagnose your machine within 10min, make repair plans within 1h and dispatch to your location within 1 workday after receiving your request for repair.



Craftsmanship Spirit

Provide custom-made solutions and make well-targeted plans as the case may be

Engineer certifications: Our all engineers take appointment with certificate after strict training

Train how to fix your FAQ: Collect FAQ and ask the certified engineers to train relevant customers

Online one-to-one guidance: Senior engineers guide customers to get problems solved through phone, video or other online means.

One time is enough: Commission the machine and settle similar matters only once



For Your Peace of Mind

Pre-arrival service: Train in technical theory, actual operation and troubleshooting at great length

Regular service: Reminder of maintenance, door-to-door and sales promotion service

Value-added service: Software & hardware upgrade, finance leasing and further extension of warranty period