

Fiber Laser Cutting Machine

Generation Next

STC – F Series



STPL Makes Fiber Laser Cutting Machine

Focus on What Matters:

- ▶ Incomparable Axial Position Accuracy $< \pm 0.03\text{mm/min}$
- ▶ Re-Positioning Accuracy $< \pm 0.02\text{mm/min}$
- ▶ Guaranteed Lowest Running Cost.
- ▶ Robust & High Grade Mechanical Structure.
- ▶ Running Speed up to 120 meter/Min.
- ▶ Phenomenal Source Life Over 100000 Hours.
- ▶ Included Extended Warranty up to 2 Years.

High Thickness Machine Bed :

To maintain stability: – All steel raw material is annealed to release the inner stress. – The bed is vibrated till the stress is relieved to be qualified.

The internal structure of the bed adopts the aircraft metal honeycomb structure, which is welded by a number of rectangular plates. Stiffeners are arranged inside the plates to increase the strength and tensile strength of the bed, it also increases the resistance and stability of the guide rail so as to effectively avoid the deformation of the bed.

In the outside of the machine bed, we will weld about 10mm thick plate to enhance stability.

High strength, stability, tensile strength, ensuring 20 years of use without distortion.



3rd Generation Aviation Aluminium Gantry

To maintain high speed cutting performance:- Gantry structure – Dual-drive system – Top rack and gear transmission system. It is manufactured with aerospace standards and formed by 4300 tons press extrusion mouldings. After aging treatment, its strength can reach 6061 T6 which is the strongest strength of all gantries. Aviation aluminium has many advantages, such as good toughness, light weight, corrosion resistance, anti-oxidation, low density, and greatly increase the processing speed.



Why Choose Fiber Laser Cutting Machine For Metal



Excellent path quality

Smaller laser dot and high work efficiency, high quality.



Low cost

Save energy and protect environment. Photoelectric conversion rate is up to 25-30%. Low electric power consumption.



High cutting speed

2-3 times than same power CO2 laser cutting consumption.



Low maintenance

Fiber line transmission no need reflect lens, save maintenance cost.



High efficiency for photoelectric conversion

Compare with CO2 Laser cutting machine, Fiber Laser Cutting machine have 3 times photoelectric conversion efficiency.



Easy operations

Fiber line transmission, no adjustment of optical path.



All kinds of graphics and texts are available for designing and cutting instantly. Easy, convenient and flexible to operate.



Non-pollution and environment friendly

Dust collection system is designed to protect sensitive laser components from dust.

Open Type Fiber Laser Cutting Machine

Model: STC F 1530



Technical Parameters:

Model	STC F 1530
Working Area	1500*3000mm
Laser Power	500w-2000w
Axial Positioning Accuracy	±0.03mm/min
Axial Re-Positioning Accuracy	±0.03mm/min
Max. Running Speed	±100m/min
Max. Acceleration Speed	1.0G
Laser Class	Class IV

Open Type Fiber Laser Cutting Machine With Pallet Changer

Model: STC F 1530A

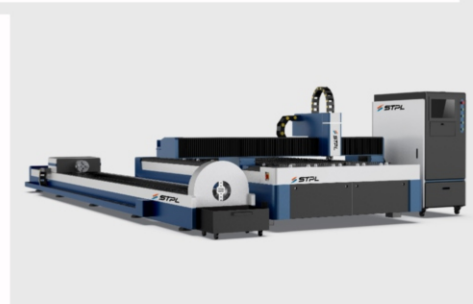


Technical Parameters:

Model	STC F 1530A
Working Area	1500*3000mm
Laser Power	500w-4000w
Axial Positioning Accuracy	±0.03mm/min
Axial Re-Positioning Accuracy	±0.03mm/min
Max. Running Speed	±100m/min
Max. Acceleration speed	1.2G
Laser Class	Class IV

Open Type Fiber laser Cutting Machine With Pipe Cutting Extension

Model : STC F 1530 T3/T6



Technical Parameters:

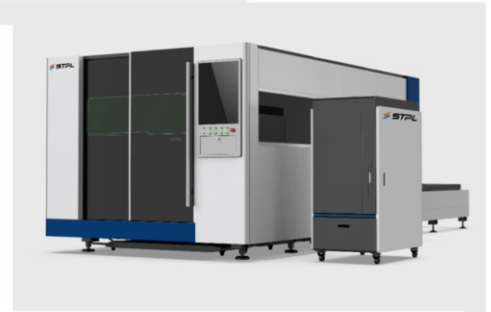
Model	STC F 1530 T3/T6
Working Area	1500*3000mm
Laser Power	500w-4000w
Axial Positioning Accuracy	±0.03mm/min
Axial Re-Positioning Accuracy	±0.03mm/min
Max. Running Speed	±100m/min
Max. Acceleration speed	1.2G
Effective Round Tube Cutting Diameter	20-220mm
Effective Square Tube Cutting Diameter	15-150mm
Tube Cutting Length	3m, 6m
Laser Class	Class - IV

Enclosed Type High Power Fiber laser Cutting Machine with Dual Display & Pallet Changer

Model: STC F 1530SE

Technical Parameters:

Model	STC F 1530SE	STC F 1540SE	STC F 2040SE
Working Area	1500*3000mm	1500*4000mm	2000*4000mm
Laser Power	1000w-6000w		
Axial Positioning Accuracy	±0.03mm/min		
Axial Re- Positioning Accuracy	±0.02mm/min		
Max. Running Speed	±120m/min		
Max. Acceleration Speed	1.2G		

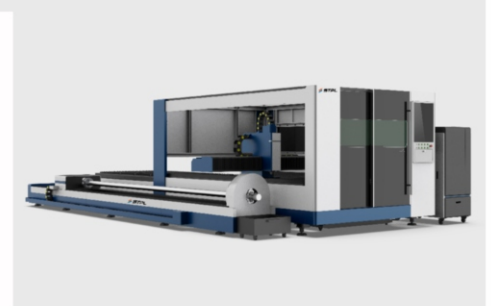


Enclosed Type Fiber Laser Cutting Machine With Pipe Cutting Extension

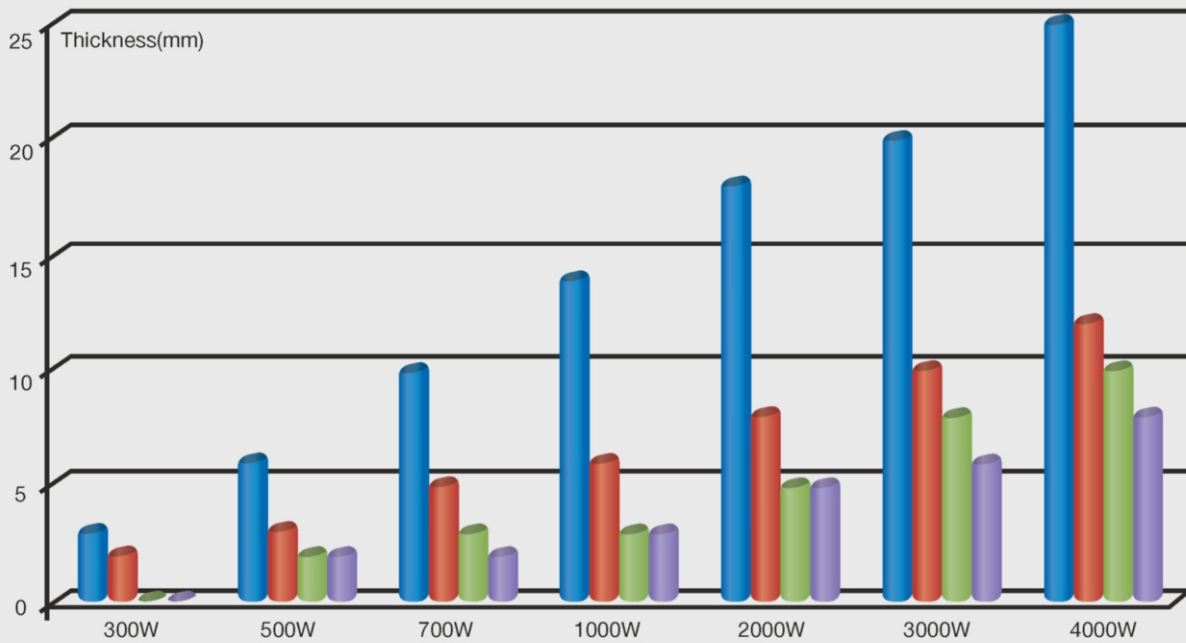
Model: STC F 1530SE T3/T6

Technical Parameters:

Model	STC F 1530SE T3/T6	STC F 1540SE T3/T6	STC F 2040SE T3/T6
Working Area	1500*3000mm	1500*4000mm	2000*4000mm
Laser Power	1000w-6000w		
Axial Positioning Accuracy	±0.03mm/min		
Axial Re- Positioning Accuracy	±0.02mm/min		
Max. Running Speed	±120m/min		
Max. Acceleration speed	1.2G		
Effective Round Tube Cutting Diameter	20-220mm		
Effective Square Tube Cutting Diameter	15-150mm		
Tube Cutting Length	3m, 6m		



Processing Ability:



- Carbon Steel
- Stainless Steel
- Aluminium Plate
- Copper Plate

Application Industry

- ▶ Automobile Industry
- ▶ Elevator Manufacturing
- ▶ Sheet Metal Fabrication
- ▶ Display Equipment's
- ▶ Precision components
- ▶ Transportation Industry
- ▶ Defence Equipment Manufacturing

Applicable Material



- ▶ Stainless Steel
- ▶ Carbon Steel
- ▶ Brass Sheet
- ▶ Aluminium Sheet
- ▶ Galvanized Sheet
- ▶ Manganese Steel
- ▶ Electrolytic Plate
- ▶ Rare Metals
- ▶ Other Various Metal Plates



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