

SYSTEM DESCRIPTION

STC1530C LASER CUTTING MACHINE

Edition: ST171113

1. SYSTEM IMAGE



2. SYSTEM DESCRIPTION

STC1530C fiber laser cutting machine equips with original imported IPG fiber laser generator. This equipment adopts gantry pinion & rack transmission device, double AC servo motor and gear synchronous driver system. The maximum acceleration is up to 1.2G, which makes sure the high speed & accurate processing.

3. FEATURES

- Equips with IPG laser generator, original imported ATLANTA rack & pinion system (from Germany), IGUS electric cable
- High Rigidity Cast Aviation Aluminum Gantry, improve the gantry strength and rigidity and much lighter,
- Finite element analysis of gantry helps to achieve the best critical state of dynamic performance,
- SMC (Ultra High Pressure Solenoid Valve), Siemens, Schneider Electric components, REXROTH (precision electronic control proportional valve)
- High reflective material available (Brass/Aluminum/Cooper etc.)

4. TECHNICAL SPECIFICATIONS

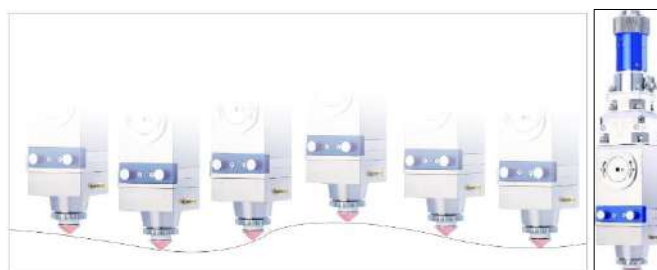
Model	STC1530C
Working area	3000mm×1500mm
Laser type	IPG Fiber laser
Output laser power	700W/1000W/1500W/2000W/3000W
Transmission system	Dual-servo Motor Gantry
Lubrication System	Automatic Lubrication (Lubrication reminder available)
Max speed	120m/min
Max acceleration	1.2 G
Position accuracy	±0.03mm/1000mm
Reposition accuracy	±0.02mm/1000mm
Supported graphic format	PLT, CAD, DXF, DSP, AI etc.
Working environment	0-40°C Humidity ≤ 80%, no condensation
Power consumption	25KW
Power supply	3 Phases 380V/ 50Hz/60Hz
Weight	8000KG
Overall dimension (including cover)	8900mm×2800mm×2100mm

Cutting ability (please contact us for the datasheet)

- Cutting speed: O2 > Air > N2.
- This datasheet is just for reference; the real cutting speed depends on the material.
- The higher pressure of N2, the faster cutting speed.

Laser cutting head (high-dynamic auto-focusing system)

The laser cutting head has a serve motor driver, integrating with speed & position dual closed-loop algorithm to control the cutting. Supporting leapfrog jumping method, the high-dynamic response realizes fast punching through metal sheet. The following photo shows the high-dynamic auto-focusing method of the cutting head if the metal sheet is not flat.



Consumable parts:

	Item	Size	Unit
1	Cutting Nozzle	Φ1.5	4
2	High temperature cables		1
3	Protective lens	Φ25.4mm*3mm	1
4	Lens	Φ25.4mm*3mm 25.4mm,f=125mm	1

5. APPLICATION and SAMPLES

Metal materials such as Carbon steel, Stainless steel, Aluminum alloy, Titanium alloy, Galvanize sheet, Brass, Red copper etc.



Suntec Laser Technology Co., Ltd.

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Based on Shenzhen Suntec headquarter, our own Brazil subsidiary Suntec Laser Tecnologia LTDA and Suntec International (HK) Co., Limited are also providing laser solutions for local customers.

Suntec has been working with famous companies like Flextronics, Foxconn, WEG, Salcomp, ADATA, etc. Our rich experience in laser industry will help every future customer find the most efficient way to finish the projects.

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