

SYSTEM DESCRIPTION

STC1325 LASER CUTTING MACHINE

Edition: ST171113

1. SYSTEM IMAGE



2. SYSTEM DESCRIPTION

STC1325 fiber laser cutting machine equips with original imported fiber laser generators. This equipment adopts double lead screws and drivers transmission system, double AC servo motor, improving the efficiency greatly.

3. FEATURES

- Equips with IPG laser generator, original imported YYC rack & pinion system (from Taiwan), 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

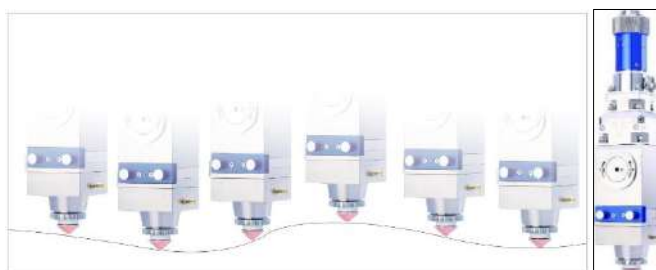
Model	STC1325
Working area	2500mm×1300mm
Laser type	IPG Fiber laser
Output laser power	500W/700W/1000W
Transmission system	Dual-servo Motor Gantry
Lubrication System	Automatic Lubrication (Lubrication reminder available)
Max speed	60m/min
Max acceleration	0.6 G
Position accuracy	±0.05mm/1000mm
Reposition accuracy	±0.03mm/1000mm
Supported graphic format	PLT, CAD, DXF, DSP, AI etc.
Working environment	0-40°C Humidity ≤ 80%, no condensation
Power consumption	4KW
Power supply	Single Phase 380V/ 50Hz/60Hz
Weight	2300KG
Overall dimension (including cover)	4520mm×2030mm×1750mm

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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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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