

SYSTEM DESCRIPTION

STC1530 LASER CUTTING MACHINE

Edition: ST171113

1. SYSTEM IMAGE



2. SYSTEM DESCRIPTION

STC1530 fiber laser cutting machine equips with original imported IPG fiber laser generator. This equipment adopts YYC rack & pinion transmission device, double AC servo motor and gear synchronous driver system. The maximum acceleration is up to 0.8G, which makes sure the high speed & accurate processing.

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

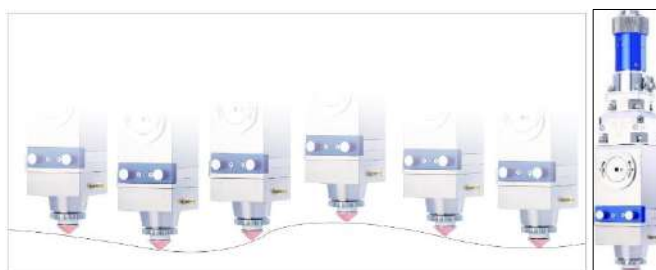
| Model | STC1530 |
|-------------------------------------|--|
| Working area | 3000mm×1500mm |
| Laser type | IPG Fiber laser |
| Output laser power | 500W/700W/1000W |
| Transmission system | Dual-servo Motor Gantry |
| Lubrication System | Automatic Lubrication (Lubrication reminder available) |
| Max speed | 80m/min |
| Max acceleration | 0.8 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 | 18KW |
| Power supply | 3 Phases 380V/ 50Hz/60Hz |
| Weight | 4000KG |
| Overall dimension (including cover) | 5400mm×2200mm×2000mm |

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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