



## TLS-G8000 SMT Stencil Laser Cutting Machine



### Characteristics:

- 1、 **High-performance Fiber Laser Source:** With excellent beam quality and electro-optical conversion efficiency, Fiber Laser source can ensure the stability and reliability of cutting quality.
- 2、 **High-precision Motion System:** The support part of the machine is made of natural granite, and the motion system adopts double gantry structure, so that the machine has high precision and excellent stability. The cutting machine adopts high precision optical encoder and special high precision linear guide with high rigidity, which eliminates the limitations of traditional rotary servo motor and ballscrew, such as: rigid insufficiency, backlash and deadband, etc. The cutting machine has higher speed and accuracy. The design of lifetime use of the key components reduces maintenance cost.
- 3、 **Cable System:** The cable system has long working life, high reliability and excellent EMC, and it solves the main problems of traditional cable system such as poor EMC, running noise, dust and wear, etc.
- 4、 **Autofocus Function:** Automatically focus and no adjustment necessary during processing.
- 5、 **Software:** ThetaLaser is a smart laser micromachining application platform, that is user-friendly, simply operated and support most industrial data formats.
- 6、 **Higher Throughput:** 15,000 apertures/hour.
- 7、 **New EqualPower** laser process will get the best cutting quality without distortion and

burrs.(Optional)

**8、 Online Optical Inspection** to check every aperture during cutting.(Optional)

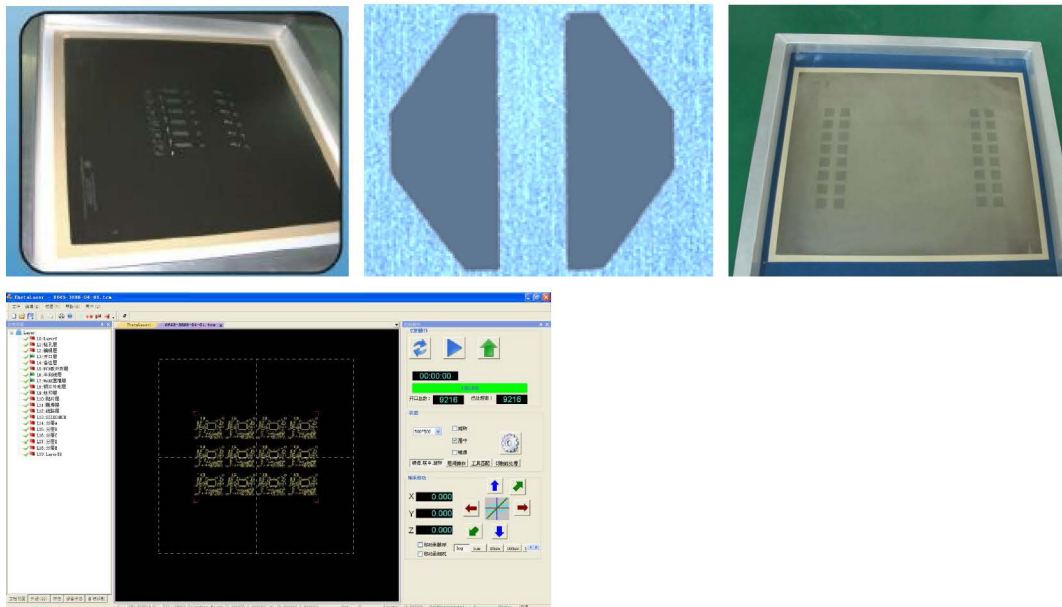
**Application Range:**

- Cutting thin steel sheets with direct clamping
- Cutting stretched stencil
- Cutting other thin sheets

**Technical Specifications(3SIGMA)**

Model	TLS-G8000
Speed	Basic-performance:15,000;High-performance:22,000apertures/hour
Cutting Area	600mmx800mm
Maximum Frame Size	750mmx1000mm
Maximum Sheet Size	570mmx600mm
Material Thickness	0.02mm-0.6mm
Location Accuracy	±3μm
Repeatability	±1μm
Power Consumption	1.5KW
Laser Wavelength	1064nm
Operating Temperature	23±3°C
Operating Humidity	20%~70%RH (no condensation)
Input Data Format	Gerber, DXF, HPGL, Sieb&Meyer, Excellon, PCB
Input Voltage	220VAC+/-10%, 50/60Hz, 10A,Single phase
Compressed Air Pressure	<1.5MPa(15kg)
Machine Size(LxWxH)	1400mmx1750mmx1450mm
Weight	1500Kg
Origin	China

**Pictures of stencil and Software Interface:**



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