



ITO and Ag Laser Etching Machine



TLS-G8300

Characteristics:

- 1. Stable and reliable Optical System:** single-mode fiber laser source, with excellent beam quality and high electro-optical conversion efficiency. Optimized optical transmission system with low power consumption, small focused spot size, high beam quality to ensure the reliability and consistency of the quality of etching.
- 2. High-precision Motion System:** Imported high precision linear motion module and control module, ensure the device has high position accuracy and repeatability.
- 3. Machine vision system:** With two high resolution CCD cameras, combing self-developed image processing algorithm to ensure accuracy and efficiency of the processing.
- 4. Natural Granite Platform:** Natural and massive granite base reduces the inertia vibration of the table during start-up, shut-down and acceleration. At the same time, it maintains structure size long-term stability.
- 5. Software:** With intelligent processing platform software-ThetaLaser, which is a smart laser micromachining application platform, user-friendly easy to operate and enabling customized software modules.

Advantages

- Printing error auto adjust and adaptive multi-fiducial mark recognition, ensuring etching accuracy and efficiency.
- Automatic CAM function to prevent explosion point at overlapping position and improve uniformity and stability of etching line space.
- Seen-To -Have method for ITO and Ag repair.
- Parameters intelligent setting for the best etching quality (patent pending).

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Product quality:

- No deviation, no explosion point at start-end point, less edge burr and etching line width uniformity, no dust and particles on product surface.
- Yield up to 99%.

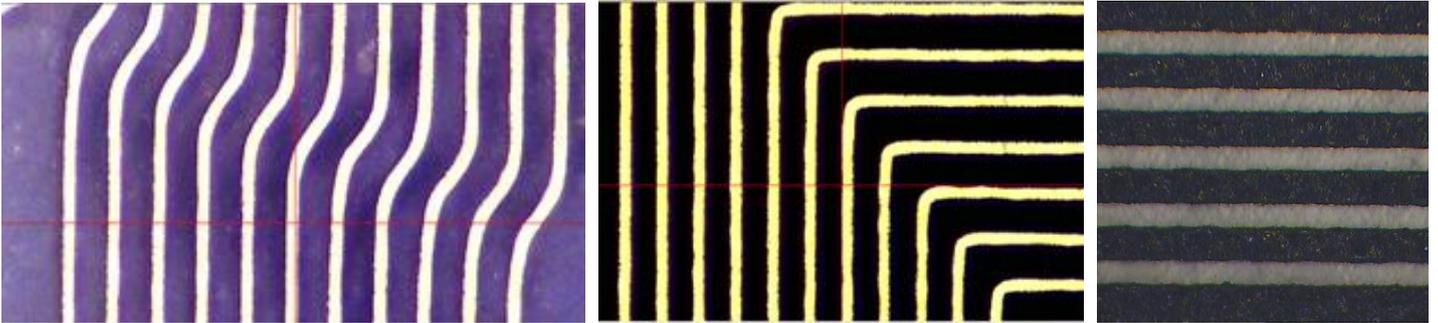
Application Range:

- Capacitive or resistive touch screen ITO films and Ag high-speed high-precision etching.

Specification (3Sigma)

Module	TLS-G8300
Etching range	500mm×500mm×50mm(Customizable)
X/Y axis accuracy	<±3μm
X/Y axis repeatability	±1μm
X/Y axis max speed	800mm/s
Scanning speed	7000mm/s(max)
Etching Line Width	ITO/Ag :30~45μm(with PET and glass base)
Laser Power	20W(standard configuration)
Laser Wavelength	1070nm (optional with355nm wavelength)
Operation Temperature	23±3°C
Operation Humidity	20%~70%RH(no dew);
Input Data Format	Gerber, DXF, HPGL, Sieb&Meyer, Excellon, PCB
Input Voltage	3Φ,380VAC±10%, 50/60Hz
Power Consumption	3.0KW
Compressed Air Pressure	0.8MPa
Machine size(L×W×H)	2125mm×1840mm×1800mm
Weight	3500Kg
Origin	China

Sample picture:



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