



## UV Laser Cutting and Drilling Machine



TLS-G8200

### Characteristics:

- High-performance UV Laser Source:** Use diode-pumped UV Laser source with high beam quality, high peak power and short pulse width, which can achieve “cold “processing that ensures the stability and quality.
- Optimized Optical System:** Optimized optical transmission system with low power consumption, small focused spot size, high beam quality to ensure the reliability and consistency of the quality.
- High-precision Motion System:** Imported high precision linear motion module and control module, ensure the device has high position accuracy and repeatability.
- Machine vision system:** With two high resolution CCD cameras, combing self-developed image processing algorithm to ensure accuracy and efficiency of the processing.
- 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.
- 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.

### Application Range:

- Drilling and de-panelizing flexible printed circuit board, rigid printed circuit board, flexible-rigid printed circuit board, and chip substrate package.
- De-panelizing assembled flexible or rigid circuits.
- Precisely cutting and scribing ceramics with the thickness within 2.0mm.
- Precisely cutting thin copper foil, pressure sensitive adhesive, PP, acrylic sheet, polyimide film, etc.

## THETA Kunshan Theta Micro Co., Ltd.

No.888 Hong Yang Road, Kunshan, Jiangsu 215347, P.R.China

Tel: +86-512-50352653  
Fax: +86-512-36687213  
Sales: sales@thetalaser.com  
Service: services@thetalaser.com  
Website: www.thetalaser.com

### In North America, Contact:

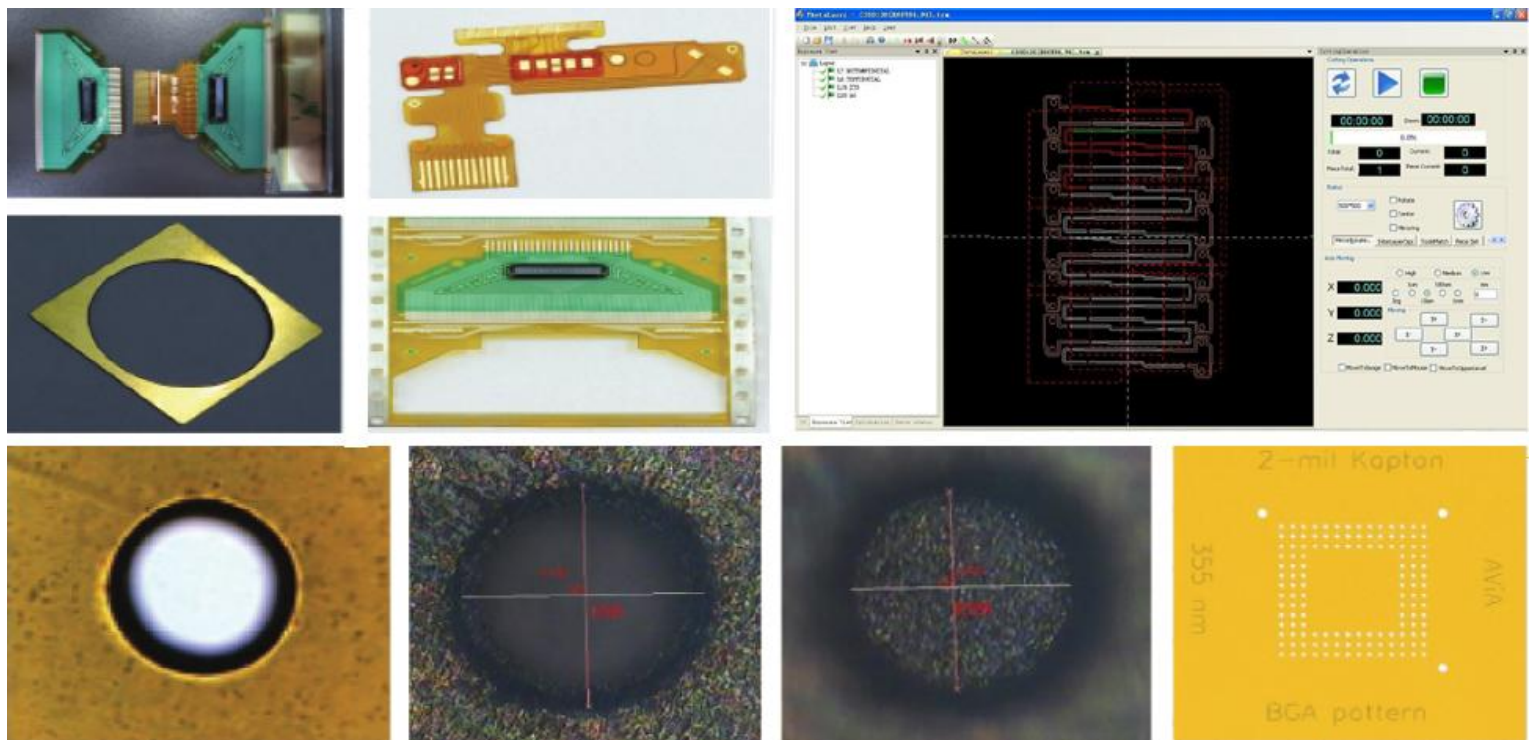
Tom Tindale, North American Sales Manager  
2332 E Granite View Dr. Phoenix, AZ 85048  
Tel: 1-480-720-6855  
Fax: 1-480-664-8937  
Email: Thomas\_tindale@thetalaser.com

- Precisely cutting ITO thin film, glass, organic thin film, special metal sheet, wafer and sapphire, etc.
- Support Roll to Roll Cutting way.(option)

**Specification:** (3Sigma)

Model	TLS-G8200
Cutting Area	500mm×500mm×50mm(Customizable)
Accuracy of X/Y	<±3μm
Repeatability of X/Y Axis	±1μm
X/Y moving speed	800mm/s max
Laser Wavelength	355nm
Laser Repetition Rate	30-130KHz
Operating 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, 15A
Power Consumption	3.0KW
Compressed Air Pressure	0.7~0.8MPa
Machine Size(LxWxH)	2125mm×1840mm×1800mm
Weight	3500Kg
Origin	China

**Sample picture:**



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