

SYSTEM DESCRIPTION

STM-UV3C LASER MARKING MACHINE

Edition: ST171103

1. SYSTEM IMAGE



2. SYSTEM DESCRIPTION

STM-UV3C is the 3rd generation laser marking system developed with special light source by Suntec. The machine uses UV laser generator to create laser through the high-speed Galvanometer scanning system. The UV laser marking system has the advantage of high electrical light conversion efficiency, water cooling, compact size, good quality of output beam, high reliability, long operating life, less consumption. It can be used for carving metal materials and non-metal materials, mainly used for the application with strict requirements of depth, smoothness and high precision.

3. TECHNICAL SPECIFICATIONS

ITEM	SPECIFICATION
Laser power	3W
Wavelength	355nm
Beam quality M2	<2
Laser repetition frequency	20KHz -100KHz
Marking size	100mm×100mm (or customization)
Marking Speed	≤15000mm/s
Minimum line width	0.01mm
Minimum character	0.1mm
Repetition precision	±0.003mm
Gross power	≤1000W
Power Supply	AC220V/Single phase/ 50/60Hz /10A
Cooling way	Water cooling
Temperature	10°C to 35°C
Humidity	5% to 60%(No condensed water)
Dimension	845 mm × 1200mm × 1720 mm

4. FEATURE

All in one structure with manual focusing system and user-friendly operation.

- Applicable to a wide range of materials;
- Good beam quality, small focused laser spot, enabling super-fine marking;
- Small heat-affected zone, avoiding damaging the material; high yield rate;
- High marking speed, high efficiency and high precision;
- No consumables are required, thereby reducing cost and maintenance expenses;
- Overall performance is stable, suitable for continuous long-time operation;
- Rotary worktable is used for marking.

5. APPLICATION AREA

- Marking and piercing of food packaging materials, PVC pipes and medical packaging materials (HDPE, PO, PP, etc.); piercing, with hole diameter $d \leq 10 \mu\text{m}$.
- Marking and slicing of flexible PCB boards.
- Removing metal or non-metal coatings.
- Processing micro-holes and blind holes of silicon wafers.

6. SAMPLE



Suntec Laser Technology Co., Ltd.

Suntec Laser Technology Co., Ltd. is located in the China Silicon Valley — Shenzhen. With a powerful R&D team and dedicated sales personnel, we are committed to provide solutions of global industrial laser processing. Suntec has a wide range of laser & photonics products, including but not limited to laser marking machine series, laser welding machine series, laser cutting machine series, optical components and relevant accessories of laser spare parts. We also provide OEM customized service for customers. Our main products involved in electronic circuits, integrated circuits, instrumentation, computer manufacturing, mobile communications, auto parts, precision machinery, building materials, clothing apparel, city lights, gold and silver jewelry, crafts gifts, and other industries.

Based on Shenzhen Suntec headquarter, our own Brazil subsidiary Suntec Laser Tecnologia LTDA and Suntec International (HK) Co., Limited are also providing laser solutions for local customers.

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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