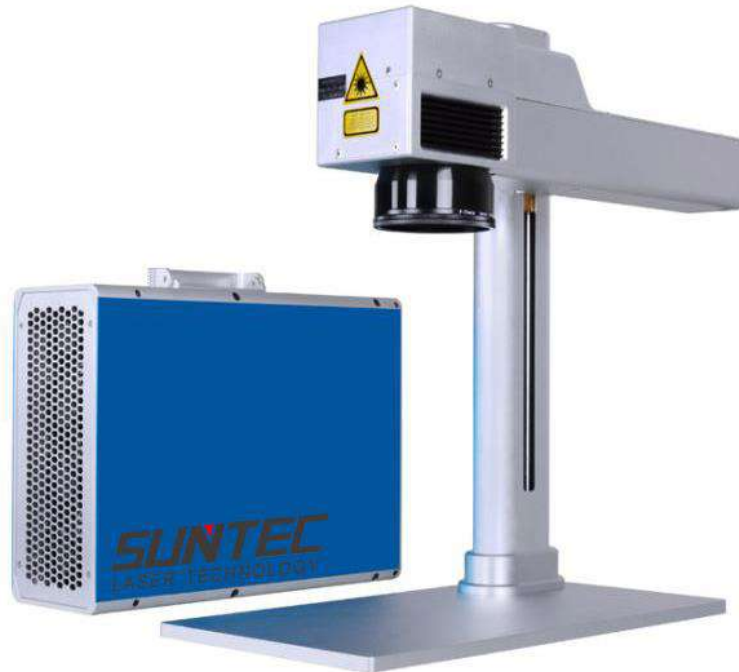


# **SYSTEM DESCRIPTION**

## **STM-FM20S LASER MARKING MACHINE**

Edition: ST180518

## 1. SYSTEM IMAGE



## 2. SYSTEM DESCRIPTION

STM FM Series Fiber Laser Marking Machine is one of the cutting-edge products of Suntec Laser. It has many advantages such as small size, light weight, high integration, energy saving and environmental protection. Its compact structure, the internal integration of computer systems, laser control systems, motion control systems, the best choice for laser marking. If you are looking for stainless steel color marking width tunable MOPA fiber laser marking machine (STM-FM20S), we must be your best choice as we now have such product for sale. Welcome to inquire lower cost, smaller, portable, mini or desktop equipment service at competitive price from us.

### 3. TECHNICAL SPECIFICATION

ITEM	SPECIFICATION
Laser power	20W
Wavelength	1064±4nm
Beam quality M2	<1.6
Laser repetition frequency	20KHz -60KHz
Marking size	100mm×100mm (optional)
Marking Speed	≤7000mm/s
Minimum line width	0.02mm
Minimum character	0.15mm
Repetition precision	±0.002mm
Gross power	≤500W
Power Supply	AC220V±10%/ 50/60Hz /4A
Laser Module life	100,000h
Cooling way	Air cooling
Temperature	10°c to 35°c
Humidity	5% to 75%( No condensed water)
Net weight	50KG
Dimension	660mm×550mm×550 mm

### 4. FEATURE

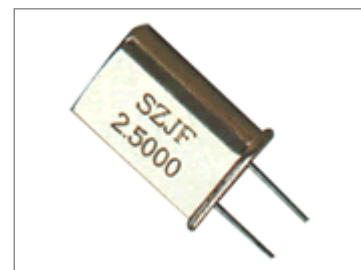
All in one structure with manual focusing system and user-friendly operation.

- Able to mark colors on stainless steel.
- Fiber isolator for protection of the fiber laser generator to increase the stability and prolong the laser life.
- Laser beam quality is much better than the traditional laser marking machine.
- High electricity-laser exchange ratio, gross electricity consumption is less than 500W, which is 1/10 of the YAG's consumption.
- Free from maintenance, long working life, compact size, suitable for any working environment.
- Fast marking speed, 2-3 times faster than the traditional marking machine.
- Multi-documents supported: PLT, PCX, DXF, BMP, SHX or TTF which can be directly imported; the auto coding for sequence No., batch number, date, barcode is available.

## 5. APPLICATION AREA

Stainless steel products are often marked with numbers, bar codes / two-dimensional code, patterns, etc., to meet the product traceability or aesthetic needs. Laser marking green, efficient, flexible high, can be permanently retained, has been widely used in stainless steel products logo, marking white, black marking is often used. Laser is applied to stainless steel material, can also produce colorful colors, in the color of stainless steel endlessly used in construction, automotive, arts and crafts and other fields today, laser color marking for people to provide a new and efficient solution. Chemical coloring, electrochemical coloring and other traditional methods of preparing color stainless steel high energy consumption, pollution, difficult to achieve fine coloring, in contrast, stainless steel laser color marking has unique advantages.

## 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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