

Suzhou Suntop Laser Technology Co., Ltd

| High-end laser machines provider and manufacturer |



SUNTOP[®]
Laser Application • Solutions



COMPANY INTRODUCTION



- Suntop Laser is a high & new technology corporation which belong to the national Suntop industrial Group, with the head office located at Suzhou city, Jiangsu Province of China where near by Shanghai city, Suntop has six branch offices in China and one Research and Development Department in HK, we have got several international and domestic invention patents and PC software copyright, several main technology on top level in the world.
- We have passed the Europe CE, USA FDA and ISO9001-2000 international quality certificate,our machines widely applied to metal-sheet processing, stainless steel decorative engineering, advertising trademark and advertising character, high/low voltage electrical cabinet, kitchenware, motors, IC, mobile phone, glass processing, package, food, metal craftwork, auto parts, farm machinery, medical instruments, sports equipments, environmental protection equipments, elevator apparatus, central air conditionally, metal craftwork, hardware tool and gauge etc...
- We not only product different kinds of laser machines, but also provide a complete laser solutions, we provides comprehensive laser application solutions and customized application industrial equipments for manufacturer enterprises all over the world, all our machines has exported more than 30 countries and regions.
- Until the year 2016, Suntop group has owns laser cutting departments, CNC water jet cutting department, High power CO2 die board laser cutting department, laser welding department, laser marking department, 2D & 3D glass laser inner engraving department and a Automation design department etc...more than 30 series of industrial equipments and automation facilities.
- Suntop laser has perfect sales and after sale service network which has covered most of the main cities in China, the company has comprehensive sales and service network, our marketing management includes the domestic sales department, international trade department and after sale service department, we can provide oversea customers almost 24 hours after sale service.
- Over the years, we take the business concepts of "Pursue innovation with technique, Guarantee quality with management, Gain applaud with services", today we always insists quality oriented principle to cast Suntop brand and tomorrow we will become a leader with the industry elite in the laser industry of the world.

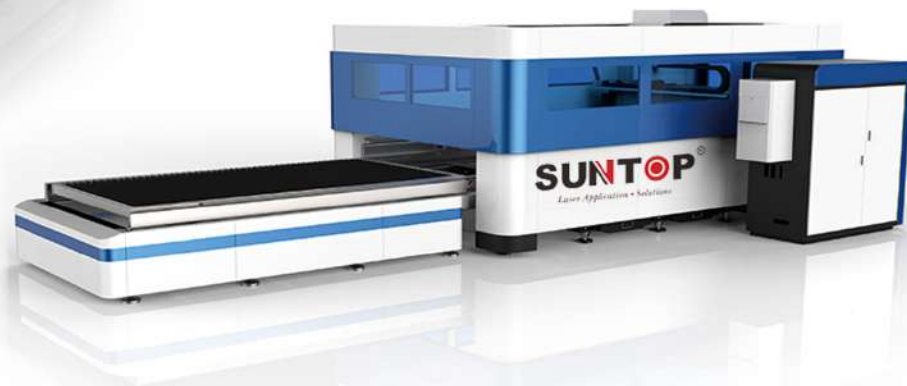
EXHIBITION



CUSTOMER SITE

SAMPLE





The laser industry serves 80 countries
12-YEARS
Leader of the laser industry

FIBER LASER CUTTING MACHINE 1-7

FIBER LASER MARKING MACHINE 8-18

LASER WELDING MACHINE 19-23/26/27

CO2 LASER CUTTING MACHINE 24/25/28-32

CNC WATER JET CUTTING MACHINE 33-34

3D CRYSTAL LASER INNER ENGRAVING MACHINE 35-36

ST-FC3015G/4015G

Full enclosed and dual exchange table fiber laser cutting machine

Machine main application Industry

Sheet metal processing, advertising signs production, high and low voltage electrical cabinet production, mechanical parts kitchen utensils, automobiles, machinery, metal products, saw blades, electrical parts, optical industry, spring, board, kettle, medical microelectronics, hardware, knife measuring tools and other metal processing industries.

Machine application materials

Suitable for stainless steel, carbon steel, silicon steel, aluminum alloy, titanium alloy, galvanized steel, pickle plate, aluminums-plating ,Zinc plate, metallic copper, brass and other kinds of metals.

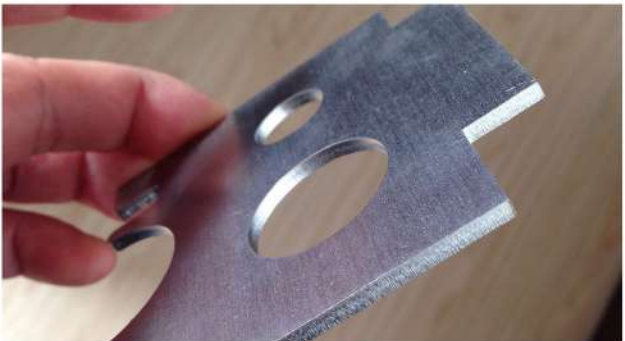
Parameters

Model	ST-FC3015G
Laser power	500W/800W/1000W/1500W/2000W/3000W/4000W
Machine Volume	37m3
Machine weight	7500Kg
Machine table height	850mm
Machine dimension	8850*3210*2100mm (L*W*H)
Machine effective cutting size	1500*3000mm (size can be customized)
Repeated positioning precision	0.03mm
Machine Max. idle speed	120 meters/min
Max. Acceleration	1G
Transmission	Precision dual-gear and rack drive
Specified voltage and frequency	380V/50HZ



ST-FC3015G machine features

- Low cost and the power consumption is only 4-5Kw/H, customer can cut all kinds of metals sheets by blowing air;
- High-performance, imported the original packaged fiber laser Generator, with stable performance and the lifespan is over 100,000 hours;
- High speed and efficiency, the speed of cutting metal sheets close to 10 meters per minute;
- Imported transmission mechanism and servo motor, and high cutting accuracy;
- Dedicated software enables graphic or text to be instantly designed or processed. Flexible and easy operation;
- Automatic following system, can realize a calibrating, automatics following for wave surface sheet metal;
- Machine tool with complete welded structure, beams cast aluminum structure, aging treatment after annealing, roughing, finishing, can completely eliminate stress welding and machining, rigid, high precision, can be maintained long-term use not deformed (at least 20 years no deformation).



ST-FC3015

Fiber laser cutting machine with dual drive Gear and rack transmission

Machine main application Industry

Sheet metal processing, advertising signs production, high and low voltage electrical cabinet production, mechanical parts kitchen utensils, automobiles, machinery, metal products, saw blades, electrical parts, optical industry, spring, board, kettle, medical microelectronics, hardware, knife measuring tools and other metal processing industries.

Machine application materials

Specialized fast speed cutting of a variety of metal plates, pipes (can be equipped with pipe cutting device), mainly used in stainless steel, carbon steel, galvanized sheet, electrolytic plate, brass, aluminum, steel, various alloy plate, rare metal and other metal materials.



Parameters

Model	ST-FC3015
Laser power	500W/800W/1000W/1500W/2000W/3000W/4000W
Machine Volume	21m3
Machine weight	4000Kg
Machine table height	850mm
Machine dimension	4500*2550*1820mm (L*W*H)
Machine effective cutting size	1500*3000mm (other size can be customized)
Repeated positioning precision	0.02mm
Machine Max. idle speed	80-100 meters/min
Max. Acceleration	1G
Transmission	Precision dual-gear and rack drive
Specified voltage and frequency	380V/50HZ/60Hz/60A
Power consumption	< 10KW (depend on the actual laser power)

ST-FC3015 machine features

- Imported high precision double servo driver and rail guide transmission, HIWIN linear guide, stable driving and high precision.
- Machine frame, crossbeam and worktable adopt integral welding, made as standard large machine, after the stress relief annealing, rough machining, and then the vibration aging treatment. Can completely eliminate the stress of welding and processing; maintain high strength, high precision and keep the normal use of 20 years without deformation.
- X and Y axis equipped with Japan servo motor, high precision, high speed, big troque, big inertia and stable performance, guarantee the high speed and acceleration of the whole machine.
- Based on shanghai Cypcut special fiber cutting machine CNC control system which based on Windows operation system. This integrates special laser cutting machine controlling functional modules and has the advantage of powerful function, good man-machine interface and simple operation.
- Japan original SMC pneumatic, France Schneider electric switch, stable and reliable.



ST-FC3015R

CNC Fiber laser pipe and plate dual-function cutting machine

Machine main application Industry

Sheet metal processing, round and square pipes, advertising signs production, high and low voltage electrical cabinet production, mechanical parts kitchen utensils, automobiles, machinery, metal products, saw blades, electrical parts, optical industry, spring, board, kettle, medical microelectronics, hardware, knife measuring tools and other metal processing industries.

Machine application materials

Specially used for cutting 0.5-5mm carbon steel sheets(pipes),0.5-2.5mm stainless steel sheets,galvanized steel(pipes),electrolytic zinc-coated steel sheet(pipes),silicon steel(pipes) and other kinds of thin metal sheets and pipes,range of pipe diameters:20-200mm.



Parameters

Machine model	ST-FC3015R
Laser power	500W/800W/1000W/1500W/2000W/3000W/4000W
Pipe outside diameter size	20-200mm
Machine weight	5000Kg
The length of the Pipe	≤3 meters
Machine dimension	5550*3950*1970mm (L*W*H)
Machine effective cutting size	1500*3000mm (other size can be customized)
Repeated positioning precision	0.02mm
Machine Max. idle speed	100 meters/min
Max. Acceleration	1G
Transmission	Precision dual-gear and rack drive
Specified voltage and frequency	380V/50HZ/60Hz/60A
Power consumption	< 10KW (depend on the actual laser power)

ST-FC3015R machine features

- Adopting CYP Tube cutting software, it can directly accept the drawings from 3-Dimension drawing software to 2-Dimension drawing software. The drawings can be directly displayed in the computer, which is more convenient and direct;
- Electric, automatic centering chuck, no manual adjustment, any materials from diameter 20-150mm without adjusting the center;
- The machine have before and after chuck, riggers up servo motor driving system, cutting without jitter, high precision and good synchronization;
- Axis motors adopt the Germany Atlanta Gear and rack, long service life without deformation.



ST-FC2513A

Fiber laser cutting machine for Advertisement industry

• Machine main application Industry

Thin sheet metal processing, advertising signs production, high and low voltage electrical cabinet production, and other metal processing industries.

• Machine application materials

Stainless steel, Carbon steel, Alloy steel Copper, Brass, Silicon steel, Galvanized steel sheet, Nickel titanium alloy, Inconel Titanium alloy metal materials etc...

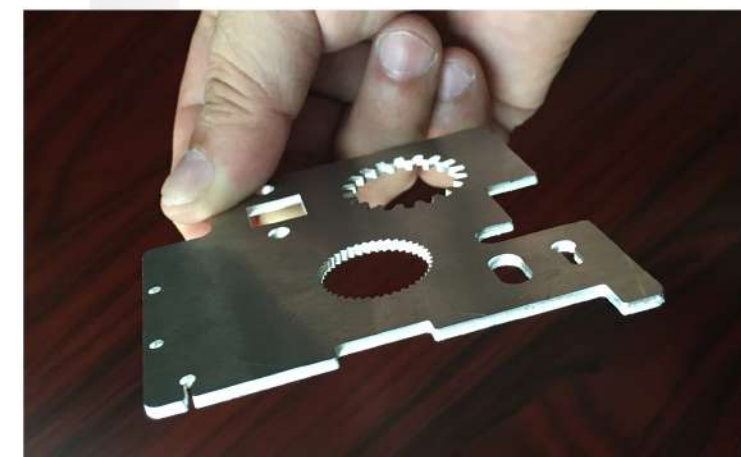
• Parameters

Machine model	ST-FC2513A
Laser power	300W/500W (optional)
Max. cutting thickness	3mm
Machine effective cutting size	1250*2500mm (other size can be customized)
Repeated positioning precision	0.02mm
Laser wavelength	1060nm
Specified voltage and frequency	220V/50HZ



ST-FC2513A machine features

- Untouched following cutting system.
- Japan Panasonic servo driving system.
- Imported high precision ball screw and linear guide rail driving system.



ST-FC6040

High Precision small size fiber laser cutting machine

Machine main application Industry

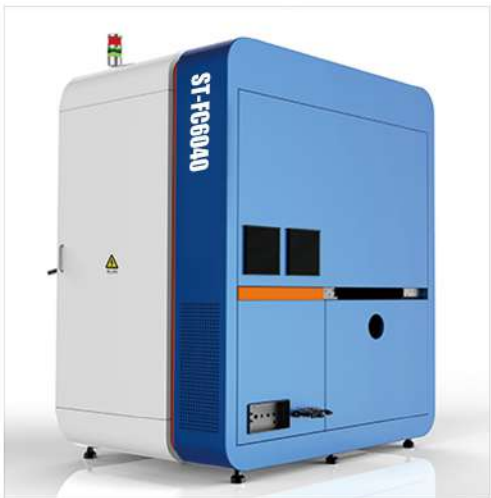
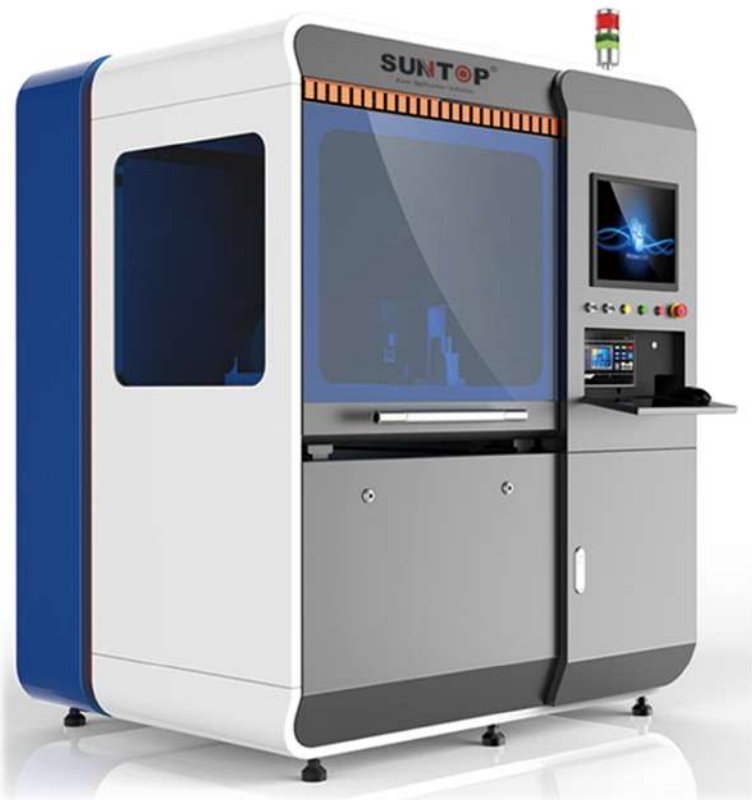
ST-FC6040 is a series of enclosed and high precision fiber laser cutting machines which is designed by ST laser especially for ornaments, artworks, gifts, glasses, electronics, appliances and other precision machinery, hardware, microelectronic industry etc..., The moving structure picks up the most advanced and the best servo motor in the laser cutting industry.

Machine application materials

Stainless steel, Carbon steel, Alloy steel Copper, Brass, Silicon steel, Galvanized steel sheet, Nickel titanium alloy, Titanium alloy metal materials etc...

Parameters

Model	ST-FC6040
Recommended Laser power	300W/500W/800W (optional)
Max. cutting thickness	3-5mm (depend on laser power and actual materials)
Machine effective cutting size	600*400mm
Repeated positioning precision	0.02mm
Laser wavelength	1060nm
Specified voltage and frequency	380V/50HZ



ST-FC6040 machine features

- Widely used in small metal processing which require the high precision cutting;
- 600℃ heat treatment and 24 hours with the furnace cooling, 8 meters gantry milling finishing, precision welding protection of carbon dioxide, to ensure the normal use for 20 years without any deformation;
- Rail installation with precision collimator test, the accuracy is less than 0.01mm.
- Taiwan grinding screw drive. Full enclosed protective cover;
- High precision, high speed, smooth cutting surface;
- Configure Yaskawa medium inertia serve system with high precision;

ST-FC1390

High Precision small size fiber laser cutting machine

Machine main application Industry

ST-FC1390 is a series of enclosed and high precision fiber laser cutting machines which is designed by ST laser especially for ornaments, artworks, gifts, glasses, electronics, appliances and other precision machinery, hardware, microelectronic industry etc..., The moving structure picks up the most advanced and the best servo motor in the laser cutting industry.

Machine application materials

Stainless steel, Carbon steel, Alloy steel Copper, Brass, Silicon steel, Galvanized steel sheet, Nickel titanium alloy, Titanium alloy metal materials etc...

ST-FC1390 machine features

Widely used in small metal processing which require the high precision cutting.

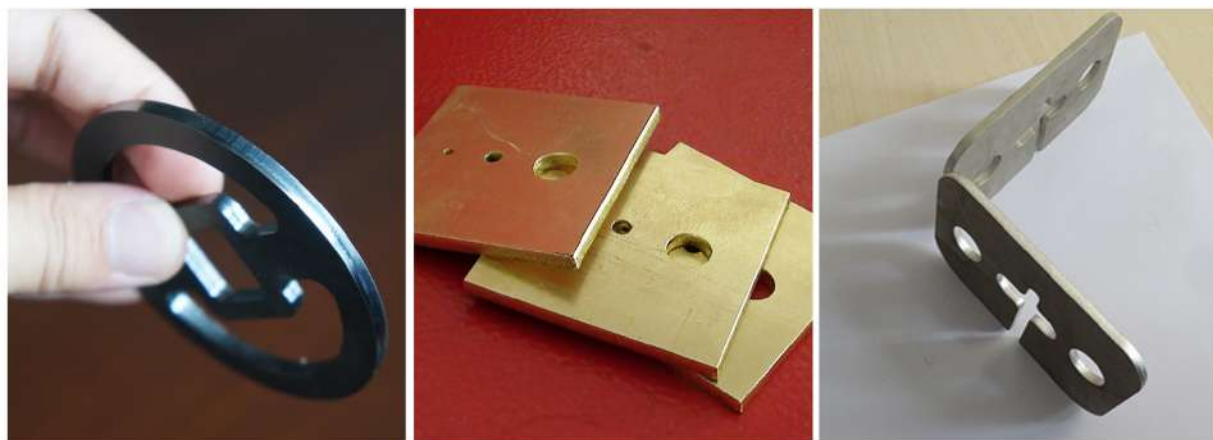
600°C heat treatment and 24 hours with the furnace cooling, 8 meters gantry milling finishing, precision welding protection of carbon dioxide, to ensure the normal use for 20 years without any deformation.

Rail installation with precision collimator test, the accuracy is less than 0.01mm.

Taiwan grinding screw drive. Full enclosed protective cover,.

High precision, high speed, smooth cutting surface.

Configure Yaskawa medium inertia serve system with high precision;



Parameters

Model	ST-FC1390
Laser power	300W/500W/800W/1000W (optional)
Max. cutting thickness	1-6mm (depend on the power and actual metals type)
Machine effective cutting size	1300*900mm
Repeated positioning precision	0.02mm
Laser wavelength	1060nm
Specified voltage and frequency	380V/50HZ



ST-FCT series

Tube and pipe fiber laser cutting machine

Machine main application Industry

This equipment especially for cutting the pipe and tube shape puzzle on the market designed to meet the most shape pipe cutting processing needs. Used in petroleum exploration, lamps, metal processing, metal processing industries round tubing square tubing, oval tubing, triangular tubing, hexagonal tubing, diamond tubing, octagonal tubing, and semicircular tubing round and so on.

Machine features

It can satisfy the user for round pipe, square pipe cutting and profiled processing.

In charge of cutting a plurality of cylinders with different direction, different diameter of intersecting line hole, meet the vertical axis and axis condition branch director and non eeeentric, in the end of the brace.

In the end of the brace column intersection line cutting end, meet the pipe axis and the eccentric and non eccentric director axis intersecting perpendicular, inclined intersecting condition.

Cut the intersecting, line cutting intersecting ring main branch pipe end.

Can cut the square hole, pipe cutting in the waist shaped hole.
Pipe end cutting bevel face in a circular.

Can carry on the square tube, pipe and other pipe cutting, in the square tube surface cutting all kinds of graphics.

Special pipe connected either the slag, can guarantee the cutting pipe inner wall without the residues,.
Can be customized according to customer needs in different requirements of the fixtures.



Parameters

Model	ST-FCT series
Repeated location accuracy	≅ 0.02mm
Max. Tube and pipe cutting thickness	≅ 20mm
Effective cutting diameter	10-200mm (can be customized)
Effective cutting tube length	100-6000mm (can be customized)
Positioning	Red light
Power supply	380V/50HZ



ST-FL20

Fiber laser marking machine

• Machine main application Industry

KBC industrial, cooking utensils, tools, IC, auto parts, Lamp bubble parts, LED plastic parts, Machine parts, Target automobiles sectors, knives, cylinder metal parts, Jewelry, luggage buckle, electronic industry, IC industrial, hardware industry, sanitary ware industry, food packing industrial, etc...

• Machine application materials

All Metals (including the rare metals), engineering plastics, electroplating materials, coating materials, plastic, rubber, epoxy resin, ceramic, ABS, plastics, PVC, PES, steel, titanium, copper and other materials.



• Machine main features

For different needs to match different laser power from which can meet multiple laser marking requirements;

Our Fiber laser Generator equipped with the reflective isolation protection from which the laser lifetime more than 100,000 hours, high photoelectric conversion efficiency;

Stable and reliable control cabinet, for a variety of working environment, has high anti-jamming capability;

Single-mode output, the focus spot is very fine and diameter not over 20um, high peak power, more suitable for precision processing;

Compact size, more suitable for integration in to industrial-line production process; MOPA fiber laser can mark the metals with colorized engraving;

• Parameters

Model	ST-FL20
Laser power	20W (30W/50W/100W optional)
Marking range	100*100mm; Optional 200*200/300*300mm
Laser wavelength	1064nm
Repetition frequency	20-100KHz
Engraving speed	0-7000mm/s
Minimum font	0.15mm
Repetition accuracy	±0.002mm
Cooling type	Air cooling
Graphic format supported	BMP,JPG,GIF,TAG,PNG,TIF,AI,DXF,DST,PLT.etc
Working voltage	220V±10% 50/60Hz
Whole machine power	500W
Machine dimension	800*600*1550mm (L*W*H)
Net weight	130Kg
Packing gross weight	150Kg

ST-FL20-S

Desktop/portable fiber laser marking machine

• Machine main application industry

KBC industrial, cooking utensils, tools, IC, auto parts, Lamp bubble parts, LED plastic parts, Machine parts, Target automobiles sectors, knives, cylinder metal parts, Jewelry, luggage buckle, electronic industry, IC industrial, hardware industry, sanitary ware industry, food packing industrial, etc...

• Machine application materials

All Metals (including the rare metals), engineering plastics, electroplating materials, coating materials, plastic, rubber, epoxy resin, ceramic, ABS, plastics, PVC, PES, steel, titanium, copper and other materials.

• Machine main features

Machine with small size design, weight only 40Kg, very easy to move and save much space.

Fiber laser Generator equipped with the reflective isolation protection from which the laser lifetime more than 100,000 hours, high photoelectric conversion efficiency.

Stable and reliable control cabinet, for a variety of working environment, has high anti-jamming capability.

Machine maintenance-free, "plug and play" design (no need installation), no any consumable parts.



• Parameters

Model	ST-FL20-S
Laser power	20W (30W optional)
Marking range	100*100mm /150*150mm
Laser wavelength	1064nm
Repetition frequency	20-100KHz
Engraving speed	0-7000mm/s
Minimum font	0.15mm
Repetition accuracy	±0.002mm
Cooling type	Air cooling
Graphic format supported	BMP,JPG,GIF,TAG,PNG,TIF,AI,DXF,DST,PLT
Working voltage	220V±10% 50/60Hz
Whole machine power	500W
Machine dimension	420*300*550mm (L*W*H)
Net weight	40KG
Packing gross weight	60Kg

ST-FL20-R

Desktop fiber laser marking machine with rotary device

Machine main application Industry

Round tools, Auto parts, Lamp bubble parts, LED plastic parts, Machine parts, Target automobiles sectors, knives, cylinder metal parts, Jewelry, luggage buckle, electronic industry, IC industrial, hardware industry, sanitary ware industry, etc...

Machine applicable materials

All Metals (including the rare metals), engineering plastics, electroplating materials, coating materials, plastic, rubber, epoxy resin, ceramic, ABS, plastics, PVC, PES, steel, titanium, copper and other materials.

Machine main features

Machine with small size design, weight only 55Kg, very easy to move and save much space.

Machine laser Generator lifetime up to 100,000 hours, high photoelectric conversion efficiency, machine no need maintenance, no future consumable parts.

Stable and reliable control cabinet, for a variety of working environment, has high anti-jamming capability.

Can choose MOPA fiber laser which can mark the materials with colored engraving.



Parameters

Model	ST-FL20-R
Laser power	20W (30W optional)
Marking range	100*100mm /150*150mm
Laser wavelength	1064nm
Repetition frequency	20-100KHz
Engraving speed	0-7000mm/s
Minimum font	0.15mm
Repetition accuracy	±0.002mm
Cooling type	Air cooling
Graphic format supported	BMP,JPG,GIF,TAG,PNG,TIF,AI,DXF,DST,PLT.etc...
Working voltage	220V±10% 50/60Hz
Working voltage	500W
Rotary chuck diameter	60mm/80mm/100mm/120mm
Machine dimension	410*310*570mm(L*W*H)
Net weight	55KG
Packing gross weight	75KG

ST-FL20-MOPA

MOPA fiber laser color marking machine

Machine main features and functions

1. Black and white engraving on most metals and some plastics.
2. Color engraving on stainless steel and titanium.
3. Black engraving on anodized aluminum.
4. Machine lifetime up to 100,000 hours, no need maintenance, no future consumable parts.

Machine applicable materials

Laser engrave metal, stainless steel, aluminum, brass, copper, silver, gold etc and some non-metal (ABS, acrylic, Nylon, PVC, marble, ceramic, etc), with text, number, logo, Bar code, QR code, serial number, image laser marking / engraving.



Parameters

Model	ST-FL20-MOPA
Laser power	20W (30W optional)
Marking range	100*100mm /150*150mm
Laser wavelength	1064nm
Repetition frequency	20-100KHz
Engraving speed	0-7000mm/s
Minimum font	0.15mm
Repetition accuracy	±0.002mm
Cooling type	Air cooling
Graphic format supported	BMP,JPG,GIF,TAG,PNG,TIF,AI,DXF,DST,PLT.etc
Working voltage	220V±10% 50/60Hz
Whole machine power	500W
Machine dimension	450*330*550mm (L*W*H)
Net weight	40KG
Packing gross weight	57Kg

ST-CO2L10

Portable CO2 laser marking machine

- Machine main features and functions
 - Desktop design, small size and easy to operate;
 - Adopt the USA RF-metal tube CO2 laser Generator, long lifetime;
 - Suitable for most of the nonmetal materials;
 - Windows interface adopted, compatible with Coreldraw, Autocad, Photoshop etc...
 - Support PLT, PCX, DXF,BMP and other format, execute SHX, TTF font directly, support automatic code, serial number, batch number, two-dimensional, bar code marking, and graphic anti marking function available.
- Machine applicable materials

Various non-metal materials, widely used in leather, wood, textile, plastic, sings, packaging, crafts, electronics, communication, watch, glasses, printing, decoration and other industries.



- Parameters
 - Model ○ ST-CO2L10
 - Laser power ○ 10W (30W optional)
 - Marking range ○ 100*100mm /150*150mm
 - Laser wavelength ○ 10.64um
 - Repetition frequency ○ ≤ 20KHZ
 - Engraving speed ○ 0-7000mm/s
 - Minimum font ○ 0.15mm
 - Repetition accuracy ○ ±0.002mm
 - Cooling type ○ Internal Air cooling
 - Graphic format supported ○ BMP,JPG,GIF,TAG,PNG,TIF,AI,DXF,DST,PLT.etc...
 - Working voltage ○ 220V±10% 50/60Hz
 - Whole machine power ○ 1500W
 - Machine dimension ○ 440*320*510mm (L*W*H)
 - Net weight ○ 55Kg
 - Packing gross weight ○ 78Kg

ST-FL20-L

Large breadth Fiber laser marking machine

- Machine main application Industry

KBC industrial, cooking utensils, tools, IC, auto parts, Lamp bubble parts, LED plastic parts, Machine parts, Target automobiles sectors, knives, cylinder metal parts, Jewelry, luggage buckle, electronic industry, IC industrial, hardware industry, sanitary ware industry, food packing industrial, etc...
- Machine applicable materials

All Metals (including the rare metals), engineering plastics, electroplating materials, coating materials, plastic, rubber, epoxy resin, ceramic, ABS, plastics, PVC, PES, steel, titanium, copper and other materials.
- Machine main features

Our Fiber laser Generator equipped with the reflective isolation protection from which the laser lifetime more than 100,000 hours, high photoelectric conversion efficiency;
Single-mode output, the focus spot is very fine and diameter not over 20um, high peak power, more suitable for precision processing;
Professional laser marking software, free upgrade, no maintenance, easy to operate, can work in harsh environments;
Working table stroke can be customized, servo drivers, high accuracy;
Can marking several pieces of products one time, highly improved the working efficiency;
Can add the laser protection cabinet and rotary device depend on customer's requirements.



- Parameters
 - model ○ ST-FL20-L
 - Laser power ○ 20W (30W/50W/100W optional)
 - Static Marking range ○ 100*100mm; Optional 200*200/300*300mm
 - Table moving stroke range ○ 300*500mm
 - Laser wavelength ○ 1064nm
 - Repetition frequency ○ 20-100KHz
 - Table moving speed ○ 500mm/s
 - Minimum font ○ 0.15mm
 - Table moving Repetition accuracy ○ ±0.015mm
 - Cooling type ○ Air cooling
 - Graphic format supported ○ BMP,JPG,GIF,TAG,PNG,TIF,AI,DXF,DST,PLT.etc...
 - Working voltage ○ 220V±10% 50/60Hz
 - Whole machine power ○ 600W
 - Machine dimension ○ 1200*1200*1750mm (L*W*H)
 - Net weight ○ 170Kg
 - Packing gross weight ○ 200Kg

ST-FL20FR

Round and tube products Fiber laser marking machine

Machine main application Industry

Jewellery, kitchen products, bathroom products, crafts engraving marking, round metal parts, cylinder tools, tool bar code marking, QR code engraving, plastic partition marking, lettering, mould and precious metals engraving.

Machine application materials

All Metals (including the rare metals), engineering plastics, electroplating materials, coating materials, plastic, rubber, epoxy resin, ceramic, ABS, plastics, PVC, PES, steel, titanium, copper and other materials.

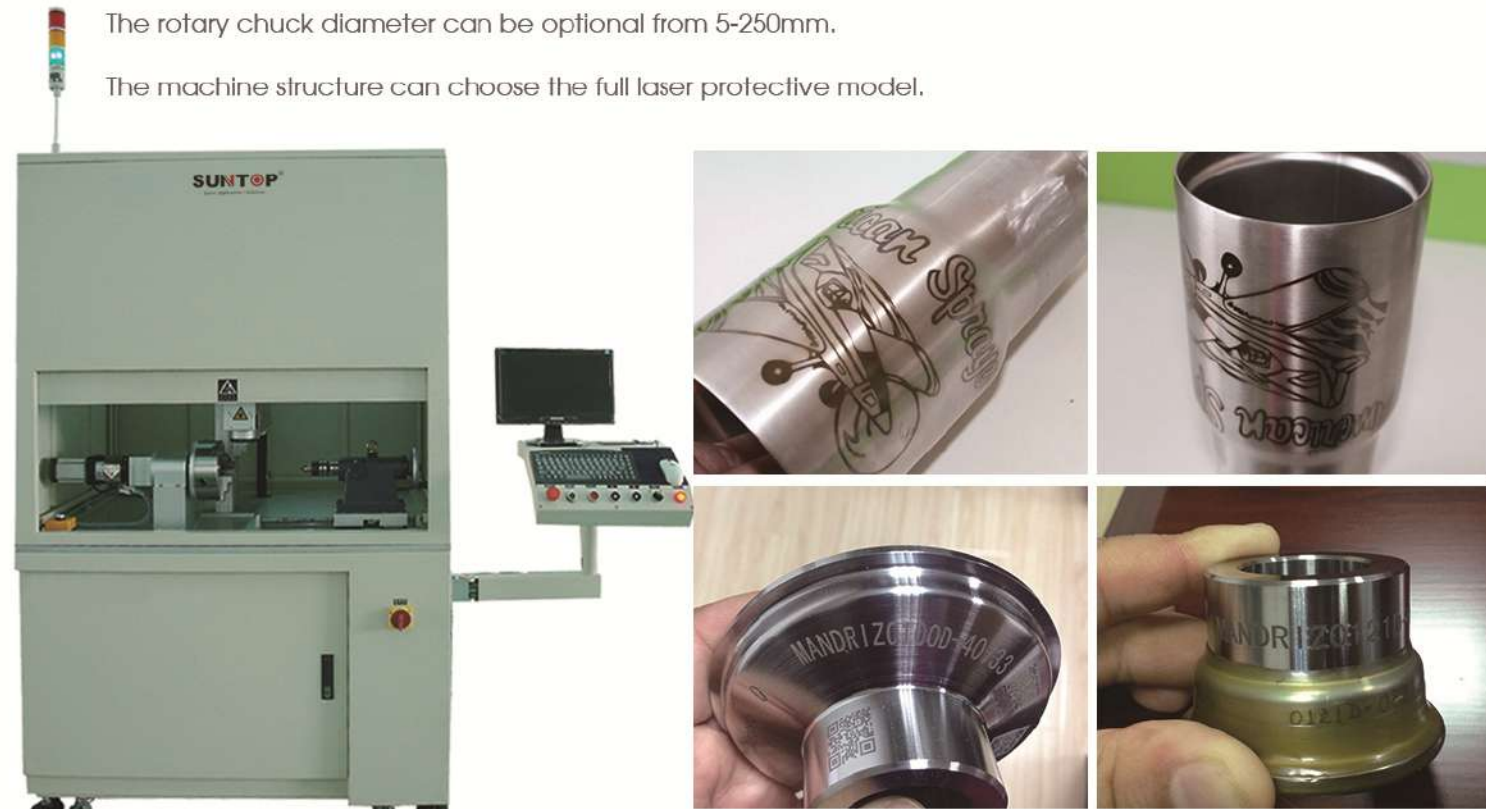
Machine main features

Fiber laser Generator equipped with the reflective isolation protection from which the laser lifetime more than 100,000 hours, high photoelectric conversion efficiency.

Adopt the high precision Japan servo motors which can engrave the complete contents around the cylinder products perfectly, for example engrave the logo, the QR code, the barcode, the parts S/N number etc...

The rotary chuck diameter can be optional from 5-250mm.

The machine structure can choose the full laser protective model.



Parameters

model	ST-FL20FR
Laser power	20W (30W/50W optional)
Static Marking range	150*150mm
Rotary chuck diameter	5-250mm
Laser wavelength	1064nm
Repetition frequency	20-80KHz
Table moving speed	500mm/s
Minimum font	0.15mm
Table moving Repetition accuracy	±0.015mm
Cooling type	Air cooling
Graphic format supported	BMP,JPG,GIF,TAG,PNG,TIF,AI,DXF,DST,PLT.etc...
Working voltage	220V±10% 50/60Hz
Whole machine power	600W
Machine dimension	880*680*1810mm (L*W*H)
Net weight	185KG
Packing gross weight	225KG

ST-GLO3

Green laser marking machine

Machine main features

This machine adopts wavelength green laser 532nm developed, semiconductor laser source model, small current power supply pump module, long service life, high photoelectric conversion efficiency, the small power consumption, save cost, improve production efficiency.

The machine adopts the fully enclosed safety protection design, which can avoid the waste of materials and the accidental injury caused by the laser to the human body;

Short wavelength, excellent beam quality, high-precision, high peak power, suitable for a variety of precision and micro machining;

Module integrates design, easy maintenance and equipment integration;

Green modular electronic components integrated circuit, has modular integrated features;

Green laser thermal radiation effect is small, suitable for heat-sensitive material effect marking;



Parameters

Model	ST-GLO3
Laser power	3W (5W/7W/10W/15W/30W optional)
Static Marking range	100*100mm (can be customized)
Laser wavelength	532nm
Repetition frequency	10-100KHz
Pulse width	20ns (20KHZ)
Minimum font	0.15mm
Table moving Repetition accuracy	±0.015mm
Cooling type	Air cooling
Graphic format supported	BMP,JPG,GIF,TAG,PNG,TIF,AI,DXF,DST,PLT.etc...
Working voltage	AC220V±10% 50/60Hz
Machine dimension	880*760*1710mm (L*W*H)
Net weight	165kg
Packing gross weight	190kg

ST-UV03

UV laser marking machine

Machine main features

This machine is made up of the laser wavelength of 355nm, which has the outstanding advantages of the small focal spot, which can greatly reduce the thermal effect of the mechanical deformation of the material and the processing area;

Applicable to ultra fine marking, engraving, such as food, pharmaceutical packaging materials, playing micro holes, special glass materials, polymer materials, and the wafer wafer for complex graphics cutting and so on;

Machine body is small, compact and easy to install and move;

Laser focus spot very small, can effectively reduce the impact of confounding factors sparring standard quality;

Processing thermal effects deformation small, suitable for high-precision machining.

Parameters

Model	ST-UV03
Laser power	3W (5W/7W/10Woptional)
Static Marking range	100*100mm (can be customized)
Laser wavelength	355nm
Repetition frequency	10-100KHz
Pulse width	18ns (20KHZ)
Minimum font	0.15mm
Table moving Repetition accuracy	±0.015mm
Cooling type	Air cooling
Graphic format supported	BMP,JPG,GIF,TAG,PNG,TIF,AI,DXF,DST,PLT.etc
Working voltage	AC220V±10% 50/60Hz
Machine dimension	880*790*1750mm (L*W*H)
Net weight	170KG
Packing gross weight	195KG
Machine total consumable power	600W



ST-CO2L Series

CO2 laser marking machine

Machine features

1、The united states imported RF laser, a light stabilizer, marking with high quality.

2、the machine key components are made of first-class brand of advanced, low failure rate, long life, low maintenance costs.

3、Applicable to pipeline operations, data can be easily tracked, saved.

4、World-class professional marking software featured with auto-coding, serial number, date, bar code, a free upgrade.

5、high speed scanning galvanometer, high performance RF laser, high speed, high precision and more stable performance.

6、Support a variety of popular graphic text formats such as PLT, PCX, BMP, DXF, etc., directly use SHX, TTF font.



Parameters

Model	ST-CO2L10 / 30 / 60 / 100
Max. laser power (W)	10/30/60/100
Power consumption	600W /1500W
Machine dimension (mm)	700*700*1500 /1100*1400*1500
Cooling method	Air cooling/Water cooling
Laser wavelength (um)	10.64
Pulse frequency (KHZ)	1-50KHZ
Marking range(mm)	100*100mm (standard)
Max. marking speed (mm/s)	7000
Min. Character width (mm)	0.1
Min. character height (mm)	0.5
Power supply	AC220V/50HZ

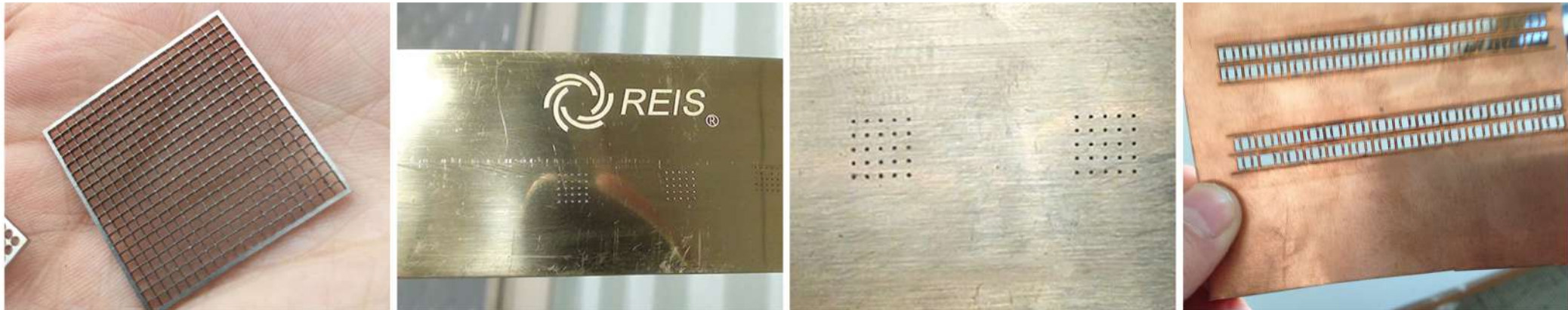
ST-FSL series/ ST-CO2L Series

Laser drilling machine



Parameters

- Model ○ ST-FSL series/ST-CO2 series
- processing materials ○ ABS,industrial ceramics,PCB and composite material of ABB & glass fiber
- laser wavelength ○ 355-10600nm
- machine power consumption ○ <5
- Drilling minimum diameter ○ 0.02mm(based on material thickness 0.1mm),the exact data depend on material thicknes
- Drilling speed ○ 600mm/s
- Repeated location accuracy(mm) ○ <0.002
- stroke(mm) ○ 300*200(can be customized depend on actual needs)
- Cooling method ○ Water cooling
- Power supply ○ AC220V/50HZ



ST-A series fiber transmission laser welding machine

Machine main feature

- Pulse width: can set the range of 50ms, to achieve better welding quality;
Pulse frequency: can set the range of 300HZ, high precision, high speed welding;
Welding quality: slow rise and slow drop function, so that the welding start and overlap at the end of the improved.
- Fiber transmission: light though the energy splitting or time, welding and achieve the same time welding and different time welding, Max. Laser path up to 4, increase the processing of freedom and production efficiency.
- Rich I/O interface can be used for a variety of external auxiliary joint operation of equipment. The realization of remote control, can equipped with industry robots, high positioning accuracy, easy realization of automation.

Machine application industry

- Applied to 3C, medical, electronics, batteries, automobile, hardware and other metal parts welding precision processing.

Parameters

Max. laser power (W)	50	150	300	400	500	600
Power consumption (KW)	2	6	12	16	20	24
Machine size(mm)	600*1000*800	630*1250*880	750*1350*1060	750*1350*1060	750*1380*1060	750*1380*1060
Single pulse Max.Energy	30J/10ms	45 J/10ms	60 J/10ms	90 J/10ms	100 J/10ms	120 J/10ms
Cooling	Air cooling			Water cooling		
Power supply	Single phase 220V/50HZ			Three phase 380V/50HZ		
Laser welding medium	ND: YAG					
Laser wavelength (nm)	1060					
Fiber output quantity	Max. 4 path					
Feedback type	Current minus feedback (Energy minus feedback optional)					
Single pulse width (MS)	0.1-50					
Light splitting way	Energy share or time share or instant share					
Pulse frequency (HZ)	1-300					
Positioning	Red light (CCD optional)					
Fiber model	Japan Mitsubishi SI/GI Fiber					



ST-ZA series Galvanometer Scanner Fiber Laser welding machine

Machine main feature

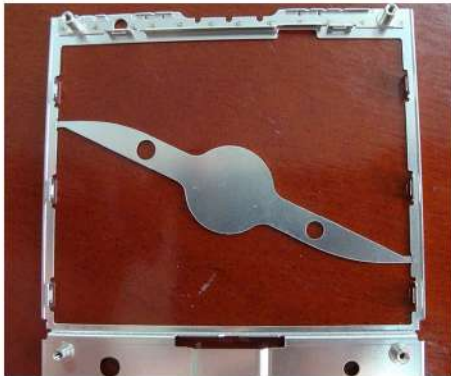
- Industrial PC control, convenient editing tracks, greatly saving processing time and increase efficiency;
- Workbench adopt galvanometer scanning laser head, the scanner movement system combine with the laser welding system perfectly which can efficiently shortening single dot idle time;
- Welding speed: 1-30 dots per second, the efficiency is 5 times than the traditional electric working table.
- Can choose double scanners which can weld the work pieces at the same time, the laser can at same time out and timing out light;
- The working table Z axis can be motor driving, automatic lifting, achieve the laser welding in different planes;

Machine application industry

- Applied to 3C, medical, electronics, batteries, automobile, hardware and other metal parts welding precision processing.

Parameters

Max. laser power (W)	50	150	300	400	500	600
Power consumption (KW)	2	6	12	16	20	24
Machine size(mm)	600*1000*800	630*1250*880	750*1350*1060	750*1350*1060	750*1380*1060	750*1380*1060
Single pulse Max.Energy	30J/10ms	45 J/10ms	60 J/10ms	90 J/10ms	100 J/10ms	120 J/10ms
Cooling	Air cooling			Water cooling		
Power supply	Single phase 220V/50HZ			Three phase 380V/50HZ		
Laser welding medium	ND: YAG					
Laser wavelength (nm)	1060					
Fiber output quantity	Max. 4 path					
Feedback type	Current minus feedback (Energy minus feedback optional)					
Single pulse width (MS)	0.1-50					
Light splitting way	Energy share or time share or instant share					
Pulse frequency (HZ)	1-300					
Positioning	Red light (CCD optional)					
Fiber model	Japan Mitsubishi SI/GI Fiber					



ST-AI series fiber laser welding machine

Instrument and Gauge industry laser welding machine

Machine main feature

Industrial PC control, convenient editing tracks, automatic laser welding for different position of the different diameter gauges, greatly improves the working efficiency and save the processing time;Customized laser welding fixtures, implement various types of welding instruments;

Machine application industry

Different kinds of pressure gauge automatic laser welding processing.

Parameters

Max. laser power (W)	/	/	300	400	500	600
Power consumption (KW)	/	/	12	16	20	24
Single pulse Max.Energy	/	/	60 J/10ms	90 J/10ms	100 J/10ms	120 J/10ms
Cooling	Air cooling			Water cooling		
Power supply	Single phase 220V/50HZ			Three phase 380V/50HZ		
Laser welding medium	ND: YAG					
Laser wavelength (nm)	1060					
Fiber output quantity	Max. 4 path					
Feedback type	Current minus feedback (Energy minus feedback optional)					
Single pulse width (MS)	0.1-50					
Light splitting way	Energy share or time share or instant share					
Pulse frequency (HZ)	1-300					
Positioning	Red light (CCD optional)					
Fiber model	Japan Mitsubishi SI/GI Fiber					



ST-AK series fiber laser welding machine

Kitchen and Bathroom industry laser welding machine

• Machine main feature

Fiber transmission laser welding machine integrate ABB robot arm, highly improved production efficiency;

Design and manufacture specific fixtures and clamps, to meet different specification KBC products and automation production needs.

This machine widely used in welding processing of kitchen and bathroom metal products, such as sink, gas stove, hood and other related products.

Machine can choose the imported CW series fiber laser 700W, 1000W and 2000W depend on the actual laser welding requirements.

• Machine application industry

Designed main for KBC industry metal products.

• Parameters

Max. laser power (W)	/	/	300	400	500	600
Power consumption (KW)	/	/	12	16	20	24
Single pulse Max.Energy	30J/10ms	45 J/10ms	60 J/10ms	90 J/10ms	100 J/10ms	120 J/10ms
Cooling	Air cooling			Water cooling		
Power supply	Single phase 220V/50HZ			Three phase 380V/50HZ		
Laser welding medium	ND: YAG					
Laser wavelength (nm)	1060					
Fiber output quantity	Max. 4 path					
Feedback type	Current minus feedback (Energy minus feedback optional)					
Single pulse width (MS)	0,1-50					
Light splitting way	Energy share or time share or instant share					
Pulse frequency (HZ)	1-300					
Positioning	Red light (CCD optional)					
Fiber model	Japan Mitsubishi SI/GI Fiber					



ST-A-F series fiber laser welding machine

Vacuum Cup and Flask Industry Laser Welding Machine

• Machine main feature

This machine can be used to automatic welding of cup, bottom of the cup, liner circumferential welding;

Automatic laser welding design, only put the products into the fixture and press the button, then the products will be welded automatically very fast;

Machine can adopt the pulse fiber transmission laser or imported CW fiber laser which highly improved the working efficiency and save much processing time and costs compare with the traditional welding method.

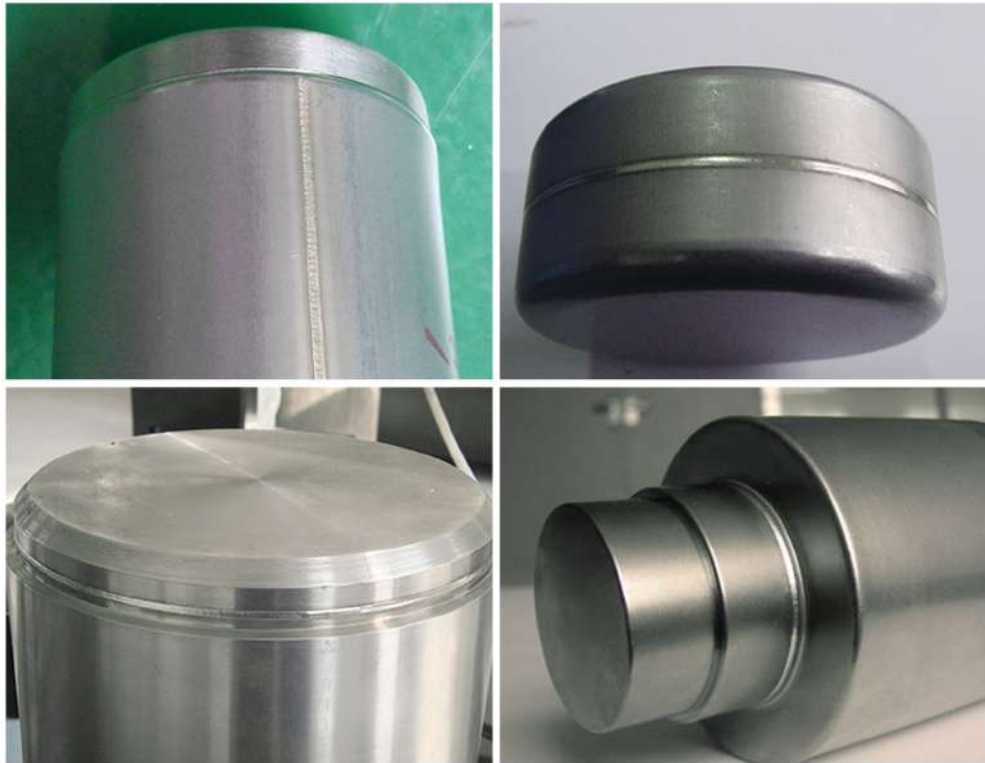
No need any polishing or other processing after laser welding; the welded products radio can reach up to 99% with same quality;

• Machine application industry

Designed main for Vacuum cup and flask products.

• Parameters

Max. laser power (W)	/	/	300	400	500	600
Power consumption (KW)	/	/	12	16	20	24
Single pulse Max.Energy	30J/10ms	45 J/10ms	60 J/10ms	90 J/10ms	100 J/10ms	120 J/10ms
Cooling	Air cooling			Water cooling		
Power supply	Single phase 220V/50HZ			Three phase 380V/50HZ		
Laser welding medium	ND: YAG					
Laser wavelength (nm)	1060					
Fiber output quantity	Max. 4 path					
Feedback type	Current minus feedback (Energy minus feedback optional)					
Single pulse width (MS)	0.1-50					
Light splitting way	Energy share or time share or instant share					
Pulse frequency (HZ)	1-300					
Positioning	Red light (CCD optional)					
Fiber model	Japan Mitsubishi SI/GI Fiber					



ST-CC1610

CO2 Laser cutting and engraving machine

• Machine main application field

ST-CC1610: this machine is mainly applied to cutting of ready-to-wear in garment industry, clothing cut pieces, cutting of leather products, cutting of wedding dress materials, hot cutting, carving, engraving of various textile;

ST-CC1390: This machine suitable for cutting of acrylic AD decoration products, Plexiglass art-ware products, glasses products, airplane and building model, architecture decoration materials, bamboo and wood products cutting, PC/PVC/PP. plastic material cutting, packing printing, rubber, various hard materials and products cutting.

ST-CC9060/ST-CC6040: This small cutting size machine suitable for cutting Bamboo and wood products engraving, plastic carving and lettering and other industries which needs high accuracy about cutting and engraving.

Customer can choose the above machine with single-head, double-heads, multi-heads, honeycomb working table, knife work table depend on their actual needs.

• Parameters

Model	ST-CC6040 / ST-CC9060	ST-CC1390	ST-CC1610
Process size	600*400mm / 900*600mm	1300*900mm	1600*1000mm
Laser type / power	Co2 glass laser/ 60W (other power can be optional)	Co2 glass laser/ 80W (other power can be optional)	Co2 glass laser/ 80W (other power can be optional)
Cutting speed	0-800mm/s	0-800mm/s	0-800mm/s
Engraving speed	0-1000mm/s	0-1000mm/s	0-1000mm/s
Positioning accuracy	<0.02mm	<0.02mm	<0.02mm
Supported formats	DXF/PLT/BMP/AI/HML/DST	DXF/PLT/BMP/AI/HML/DST	DXF/PLT/BMP/AI/HML/DST
Cooling system	Water cooling&protection system	Cutting speed	Cutting speed
Whole power	1500W	1500W	1500W
Net weight	175KG	300KG	300KG
Working temperature	1-45℃	1-45℃	1-45℃
Machine dimension	1200*940*1100mm 1500*1150*1210mm	1900*1500*1130mm	2250*1650*1150mm

• Machine characteristics

With a third generation of highly intelligent control system, automatic control, high precision positioning, forming edges smooth, compared with the traditional process, the product more attractive beautiful.

Compared with the conventional process, more beautiful, more efficient, more save materials.

As the laser in the process of cutting, carving, no touch with the surface to ensure that every product is the highest quality, enhance the competitiveness of enterprises.



ST-CC1624-CCD

Auto-Feeding Laser Cutting Machine (CCD camera scanning large-format)

• Machine advantages

The camera can identify the whole work table and then cutting;

It can Auto-generated the graphics according to the pattern on the fabric, automatic cutting no need drawing;

The machine can be add automatic feeding device, to improve cutting efficiency;

High permeability side and top protective cover and constant light system make the cutting area get good lighting and identification and cutting;

• Machine application field

Large format printing fabrics, automatic identification of cutting the special and complex design cutting, accurate cutting textile such as embroidery and trade mark and etc...

• Parameters

Model	ST-CC1624-CCD
Working table size	1600*2400mm (other size can be customized)
Laser power	60-130W
Lasertype	CO2 glass tube
Lens	A full set laser transmission lens imported from USA
Cooling type	Water cooling system
Carving scanning speed	0-60000mm/min
Cutting speed	0-40000mm/min
Laser energy control	0-100% by software setting
Max. scanning accuracy	High resolution Canon SLR camera
Positioning accuracy	≤+0.02mm
Control system	Suntop professional laser intelligent identifications sytem
Graphic format supported	DST/PLT/BMP/DXF/DWG/AL/LAS
Software support	TAJIMA/CORELDRAW/ PHOTOSHOP/AUTOCAD AND ECT
Machine weight	600KG
Drive system	Stepper motor and belt drive system
Accessories	Exhaust fan and pipe
Power	AC110V/220V ±10%, 50HZ/60HZ
Working condition	Temperature: 1-45 ℃, humidity: 5-95%
Machine dimensions	3300*2400*3500mm (L*W*H)



High efficiency exhaust fan suck the fabric flat, and also clean the dust



High light transmittance deisn system, make sure best lighting for working table, make sure highest cutting precision



High quality laser head with air adjust device



High-Density Triangular auto-feeding working table suitable for all kinds thin material



Professional water chiller CW-5000 make sure the laser tube working tempreture steady



Through high-precision Canon camera can do the whole area recognition-Especially for oversized pattern and design



High Distinguish and clear Touch scree control panel let the operating easy, Intelligent and more convenient



Intelligent automatic feeding and rolling system

ST-LW Series

Precision Plastic laser welding machine

Machine features

- 1、High level of automation equipment, high efficiency, easy for complex parts processing plastic;
- 2、welding equipment does not need to be bonded in contact with plastic components;
- 3、Precision welding, strong and airtight and watertight seal, during the welding processing resin degradation, less debris generated;
- 4、Minimizing thermal damage and thermal deformation;
- 5、welding very firm, will not burr;
- 6、Adopt the laser welding can weld the position where the other welding method can not or difficult to reach, welding has a complex shape, even three-dimensional geometry of the article.

Machine application industry

Laser welding technology is applicable to plastic components is very precise materials (such as electronic components) or require a sterile environment (such as medical devices and food packaging), very fast welding speed, especially suitable for pipeline processing automotive plastic parts welding.



Parameters

Model	ST-LW Series
Laser wavelength	808/980nm
Laser power	50-180W (can be customized)
Materials thickness	< 2mm
Machine precision	±25um
Platform repeatability	±2 um
Platform positioning accuracy	±2 um
Welding area	400*500mm
Maximum power	1000W
Spot diameter	20 um
Ambient temperature	20±2 °C
Environment humidity	< 60%
Machine structure	Aluminum
Machine weight	400KG
Power supply	220V/ AC
Power vacuum cleaner	220V/ AC
Machine body size	1400*1450*1500mm

ST-TW Series

Laser soldering machine

Machine features

- 1. High soldering efficiency, particularly suitable for multi-solder mass production, can complete the one-time high-speed processing of dozens of joints.
- 2. Good welding effect, plump solder, consistency is very good.
- 3. CCD imaging dynamic observation on the welding process laser, CCD system, red light three-point coaxial, avoiding complex debugging.
- 4. Coaxial CCD imagine system enables real-time rendering solder clearly in front.
- 5. Sending Tin device can be rotated 360°C.
- 6. Rich I/O interface, the sure can easily control the soldering machine.
- 7. The machine key components are imported, ensure the quality of the machine long time.

Machine application industry

It applies the spot welding, solder of electronic components, plastic welding, sintering, heating and special welding process automation, on the automated production line etc. Due to the timely and high-precision control characteristics of the temperature of the welded objects, it especially for high-precision soldering processes that unable high temperature solder components and thermostat components.

Parameters

Model	ST-TW Series		
Fiber core diameter	200um (2m)	200um (2m)	200um (2m)
Max. laser power (W)	50	100	180
Minimum spot	0.2mm	0.2mm	0.2mm
Cooling	Air cooling		
Laser wavelength (nm)	808 / 980		
Observation system	CCD vision imaging system		
Positioning system	Red indication (optional)		
Tin wire diameter	0.5mm (0.3-1.2mm optional)		
Control systems	Temperature feedback (optional)		
Power supply	220V ± 10%, 50HZ		



ST-CC2513

Large area CO2 laser cutting machine

• Machine characteristics

- 1、 With large format cutting and engraving and scanning functions;
- 2、 Cutting edge fine and smooth, no saw tooth, compact layout, saving cost;
- 3、 Reasonable blow and exhaust system, can meet variety of equipments of processing technical.
- 4、 the work area can be customized by customer's requirements.

• Machine main application field

This kinds of big cutting size CO2 laser cutting machine suitable for cutting such as garment, home textile, industry-fabrics, leather goods, package, printing adverting, decorate, building , paper, template and industries which really useful in cutting, engraving on large format.



• Parameters

Model	ST-CC2513	ST-CC1625	ST-CC3020
Process size	1300*2500mm	1600*2500mm	3000*2000mm
Laser type / power	CO2 glass laser from power 80W-150W	CO2 glass laser from power 80W-150W	CO2 glass laser from power 80W-150W
Cutting speed	0-800mm/s	0-800mm/s	0-800mm/s
Engraving speed	0-1000mm/s	0-1000mm/s	0-1000mm/s
Positioning accuracy	<0.02mm	<0.02mm	<0.02mm
Supported formats	DXF/PLT/BMP/AI/HML/DST	DXF/PLT/BMP/AI/HML/DST	DXF/PLT/BMP/AI/HML/DST
Cooling system	Enforced water cooling	Enforced water cooling	Enforced water cooling
Whole power	2500W	2500W	2500W
Net weight	175KG	300KG	300KG
Working temperature	1-45℃	1-45℃	1-45℃
Machine dimension	3000*1600*1050mm	3000*2000*1050mm	3500*2400*1050mm

ST-CC1830

Auto feeding laser cutting machine

• Machine application materials

Wood, paper, leather, garments, organic glass, epoxy resin, acrylic, wood, plastic, ceramic, crystal, jade, bamboo and other nonmetal materials.



• Parameters

Model	ST-CC1830
Laser power	130W (other power optional)
Working area	1800*3000mmsize (can be customized)
Cutting speed	0-3600mm/M
Working platform	Crawler type work platform
Auxiliary device	Automatic correcting feeding and automatic pressing cloth
Motor	Panasonic servo
Working speed	Can be adjustable
Positioning accuracy	0.1mm
Control system	DSP control system in USB mode
Cooling mode	Constant temperature water-cooling
Working voltage	AC220V / 5% /50HZ
Graphic format supported	AI, BMP, PLT, DXF, DST etc...
Working temperature	0-40℃
Operation humidity	Free of condensed water
Gross power	≤ 3000W

ST-CC2513MN

Laser cutting machine for metal and nonmetal cutting

• Machine characteristics

- 1. Excellent performance, middle power CO2 laser, can cut the metal and nonmetal materials;
- 2. operation is easy and high cost performance and effective, the machine layout is reasonable and save materials;
- 3. low using cost and long lifetime;
- 4. the work area can be customized by customer's requirements.

• Machine application field

This kinds of economic metal and nonmetal laser cutting machine suitable for cutting metal and nonmetal materials, such as garment, home textile, industry-fabrics, leather goods, package, printing adverting, decorate, building, paper, template, stainless steel, carbon steel etc...

• Parameters

Model	ST-CC2513MN
Process size	1300*2500mm (other size can be customized)
Laser type / power	Co2 combined laser from power 150W-260W
Cutting thickness	0.2-2mm metal / 0.1-2.5mm nonmetal (need the auxiliary air or cutting gas)
Max. Cutting speed	24meter/Min
Engraving speed	0-1000mm/s
X and Y axis positioning accuracy	<0.03mm
Supported formats	CDR/BMP/DXF/PLT/DST
Working table Max. loading weight	150KG
X,Y Z axis drive type	Stepper motors
Transmission	Imported HIWIN belt liner guide
Cooling system	Special water cooling 1.5-3P
Whole power	≤3500W
Net weight	1200KG
Working temperature	10-45℃
Machine dimension	3650*2000*1350mm



ST-CC3W1280

5 Axis Linkage laser cutting machine for nonmetal cutting

• Machine characteristics

- 1.The perfect combination of the mechanical arm and the laser marker the finished parts to be finished at one time.The incision is beautiful and does not need to be processed two times,which greatly shortens the process flow, reduces the labor cost and the investment of the mold costs.
- 2.Improve the product grade and added value,the use of industrial robots to reduce the costs of the system, reducing the power consumption system and system operation and maintenance costs, reducing the area of the system.
- 3.Machine can cut 3D plastic and other kinds of nonmetals.
- 4.The machine working very flexible like the robot arm,
- 5.Customer can choose the RF-tube and glass tube depends on their actual needs.

• Machine main application field

This kind of 5 axis linkage robot arm laser cutting machine suitable for cutting different kinds of plastics, especially in Automotive industry, home applicant industry, furniture industry, Helmet, model, mobile, mobile phone sets, underwear, automobile interior, etc.

• Machine features detail explanation

Five axis linkage, flexible programming, simple operation, good at all kinds of complex graphics three-dimensional cutting.

Through the programming way of recording user needs to track, and adjust the control parameters, the formation of the program file after downloading the motion control card and motion control card in accordance with the procedures set of documents in accordance with the cutting trajectory, so as to achieve the purpose of cutting products.

Wide range of processing materials, suitable for a variety of non-metallic materials, cutting edge smooth, burr free, high precision, high speed, high efficiency, greatly saving labor costs and tooling costs;

Compared with the traditional CNC five axis engraving machine, laser is non-contact cutting, the cutting products do not need to be subject to external forces, the bottom mold requirements are reduced, thereby greatly reducing the cost of the mold

• Parameters

- Model ○ ST-CC3W1280
- Effective cutting size ○ X:1200mm, Y: 800mm, Z:500mm
- Laser type ○ Co2 laser
- Max curve speed ○ 0-4000mm/min
- Laser power control ○ 0-100% setting
- Positioning precision ○ <0.2mm
- The cutting principle ○ DMP teaching and cutting



ST-SLPM2512

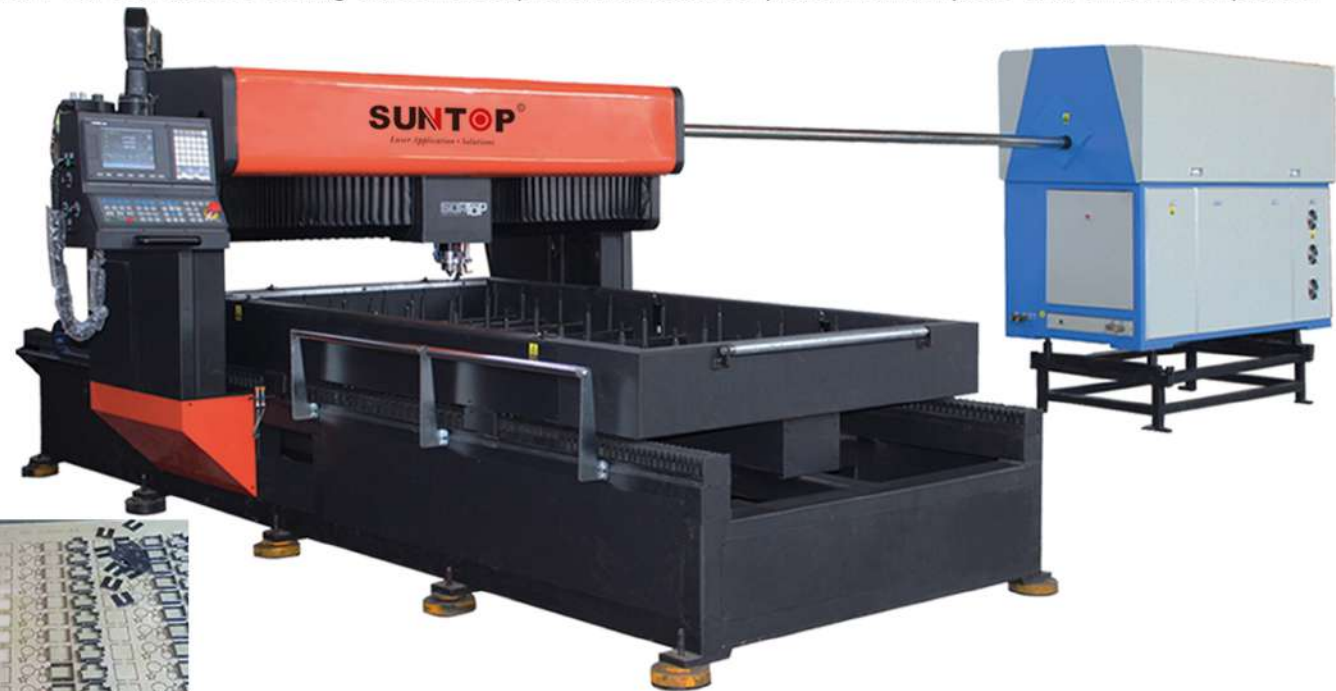
Die board high power CO2 laser cutting machine

• Machine feather

- Independent development and production of laser, laser power stability, customers can upgrade according to the demand of requirements.
- The machine adopts super thick steel structure, and the use of stress relief annealing process, ensure the long time running without deformation.
- The cutting head configuration servo system, ensure the cutting seam line. Multi parameter control, thereby reducing the auxiliary processing time.
- The laser cutting head with an anti-collision function. The system has the function of memory can make the equipment to continue cutting in the touch point.
- Adopt the international famous brand parts, so that the cutting effect optimization, maximize the accuracy, the simplified operation.
- The straight tube type dust removing system unique, so that the processing of the ging clean without pollution.
- The equipment transmission part adopts a fully enclosed structure, automatic oiling device can lubricate and maintenance to ensure that the transmission system in the process of machining.
- Machine tools have the function to prevent the sheet materials movement, auxiliary function unique, can make the material easily.
- Powerful device, cutting common knife template, density board, organic glass, PVC, can also be cutting carbon steel plate, stainless steel plate, titanium plate and other metal plates.

• Parameters

Model	ST-SLPM2512-1000	ST-SLPM2512-1500
Max. Laser power	2500*1250mm	1500W
Processing range	2500*1250mm	2500*1250mm
Idle speed	10000mm/min	10000mm/min
Position precision	±0.03mm	±0.03mm
Input voltage	380V±5%	380V±5%
Machine total power	12KW	15KW
Weight of the machine	3500KG	3800KG



ST-L3015

CNC Water Jet cutting machine

• Machine features

Water Jet cutting is now becoming a popular manufacturing technology, which is widely applied in shipbuilding, automobile, engineering machinery, light industry, chemical industry, energy sources, decoration, and food processing industry. In addition, the water jet cutting machine is well received by aerospace and military supply industry. Up to now, our products have been exported to more than 40 countries and regions all over the world.

• Machine composition

- One full set of water jet cutting machine consists of 5 basic parts:
- CNC Controlling system,
- Cutting table,
- High pressure pump,
- Auto abrasive feeding system,
- Auto water recycles cooling system.

• Machine application materials

Almost all the metals and nonmetals materials cutting

• Parameter

Model	Unit	ST-L1515	ST-L2010	ST-L2015	ST-L2515	ST-L3015
Cutting range	mm	1500*1500	2000*1000	2000*1500	2500*1500	3000*1500
Axis travel	mm	X: 1500	X:2000	X:2000	X:2500	X:3000
		Y: 1500	Y:1000	Y:1500	Y:1500	Y:1500
		Z: 150-180	Z: 150-180	Z: 150-180	Z: 150-180	Z: 150-180
Cutting accuracy	mm	±0.1				
Positioning accuracy	mm	±0.02				
X, Y axis idle-run speed	m/min	0-15 (if need 30m/min can be customized, we accept the customized)				
Cutting speed	m/min	As to different kinds of actual materials and thickness				



ST-L3015-MAX5

5 axis CNC water jet cutting machine

• Machine main introduction

The 5 axis water jet cutting machine equips with the A axis (jet swing axis) and C axis (rotating axis) based on the original 3 axis water jet cutter, These two axis can make the cutting head swinging at any angle during the cutting process, and this machine can calculate the real-time cutting trajectory by using the preset angle model of numerical control system, after that the calculation result will be corrected according to the material properties and thickness of the cutting work piece.

With 5 axis control system and 3D programming software, our water jet cutting machine can achieve true three-dimensional dynamic cutting. This machine can cut the product cross section without inclination, and cutting bevel at any angle, as well as cut the work piece vertically, especially cut cone, curved impeller, gear, etc...

This 5 axis water jet cutter can cut any angle within ±60 degree, it solves the traditional roblem of water cutting inclination, and achieves 2D/3D cutting easily.

The line cutting accuracy is ±0.1mm , angle cutting accuracy is ±0.1° , Bevel Axis (A): ±45° , Rotary axis (C): ±540° , Control accuracy: ±0.01mm , Angle accuracy: 0.01° .

Our machine is applied to cut bevel surface , straight surface , conical surface , circular surface , rotating surface, groove , chamfer , and arbitrary surface,

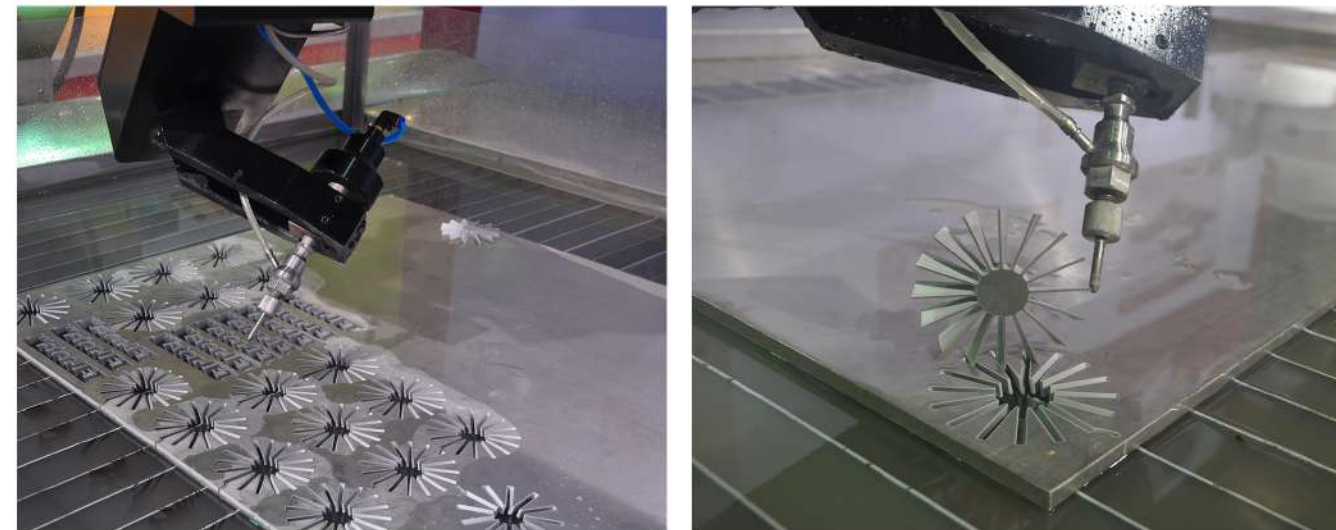
It can meet the high precision machining demands of mechanical manufacturing , rail transportation , automotive manufacturing, and composite materials processing.

Machine table cutting size can be customized depend on customer's actual requirements.

• 5 Axis main features

The 5 axis water jet cutting machine is specially used to cut marble and granite, it can compensate 10 degree cutting angle.

The 5 axis are named X (Front/rear), Y (left and right), Z (up and down), A(vertical angle) and C (rotate around A);



ST-LCE-3KC

2D and 3D crystal laser inner engraving machine

• Machine feature

This machine is a professional subsurface laser engraver for personalized artwork applied on many kinds of glass, crystal & acrylic

Different engraving size can be optional

High efficiency & High quality

Easy operation and maintenance

Consumer price Custom design available



• Parameters

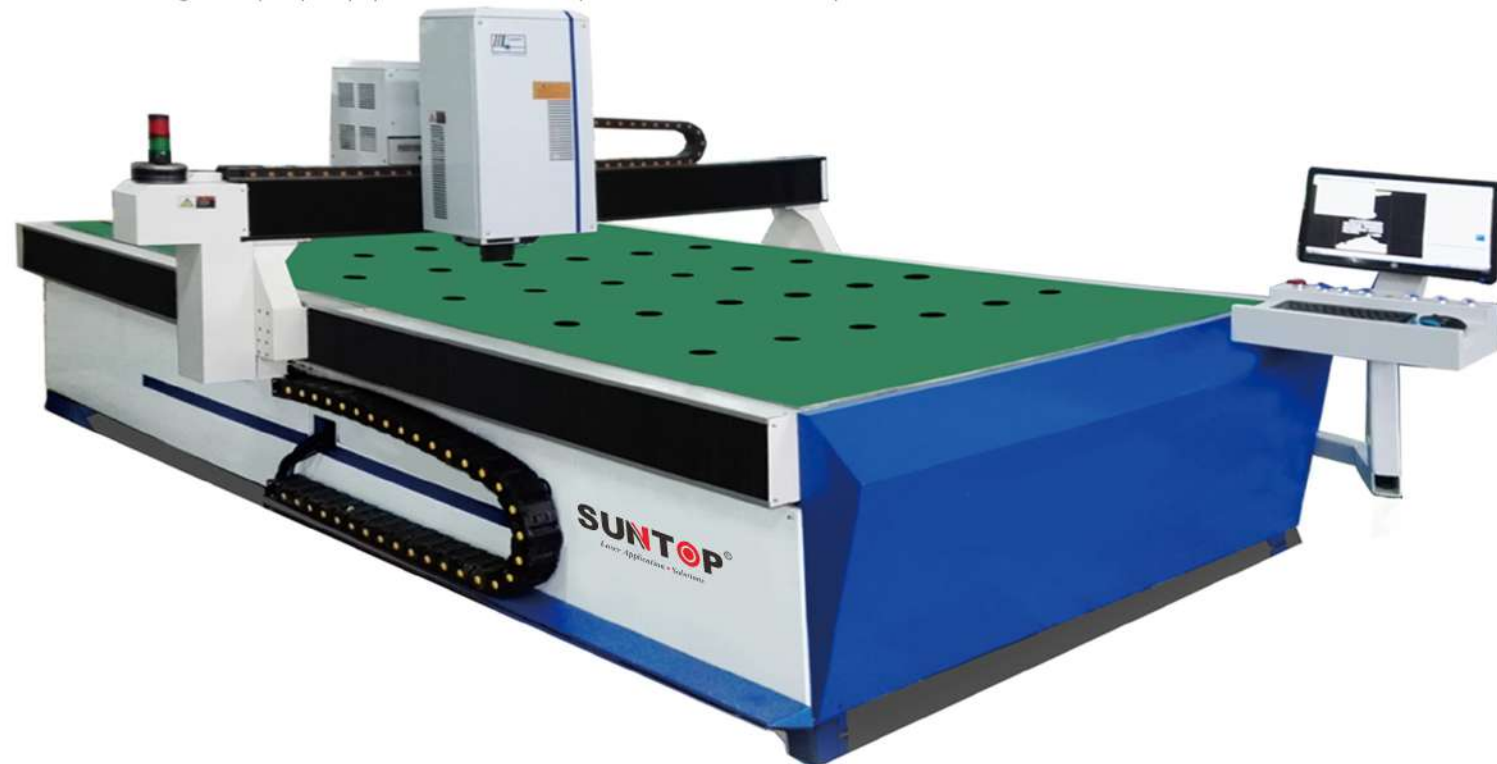
Machine model	3KHZ/4KHZ/4.5KHZ
Laser pump type	Diode Laser imported from Germany
Laser wavelength	532nm
Laser frequency	3000HZ / 400HZ
Max. pulse energy	1.2mj
Laser power	3W
Q-mould	Acousto-optic-Q Imported from U.K
Pulse width	7ns
Beam quality	M2 < 1.5
Max. engraving speed	185000-245000 dots/min
Max. engraving range	300*400*150mm (can be customized)
Laser engraving head	One can be customized
Resolution ratio	800DPI-1200DPI
Focus	0.02mm
Focal diameter	Air cooling
Cooling method	Crystal and ordinary glass etc...

ST-LGE series

Big engraving size glass laser engraving machine ST-LGE Series

Machine feature

- 1, Low cost glass carving scheme ensures that this is an excellent investment project;
- 2, The system is equipped with a special patented laser head and 5 axis engraving software for the laser in the glass, and can handle the large data of 1 billion points;
- 3, The company developed the image processing technology, excellence, so that carving products lifelike, to achieve unprecedented carving effect;
- 4, The use of imported F-theta lens, can be within the scope of the glass 1830*2440*80mm engraving;
- 5, Laser automatic positioning system, maintenance free optical path system, high precision motion control system to ensure the quality of the finished products;
- 6, Humanized system control and operation design, "one key" control to complete all carving work, to avoid human error loss;
- 7, The equipment is composed of modular equipment for easy maintenance;
- 8, Plug and play equipment, without special installation, replacement site convenient



Parameters

Machine model	ST-LGE2513 / LGE-3015
Laser type	Diode pumping, laser 532nm / Environment temperature / 15°C-30°C
Laser lifetime	25000 hours / Ambient humidity / Less than 85%, no dew
Engrave dot space between	0.07-0.12mm / Air / Clean, non corrosive gas
Size of engraving dot	40-80um / Operation system / windows xp \ win7 32bit
Max. engraving speed	≤220000 dots/min / Voltage and current / 100-240VAC, 5A
Resolution	1500dpi / Power supply network fluctuation / <10%
Batch processing	Support / Power frequency / 50/60Hz
Three axis screw precision	0.02mm / 300mm/Grid ground / Comply with the national standard
Three axis positioning accuracy	<3um/300mm Processing materials / Crystal and glass etc...
Machine power	1500W/1800W Control system / Galvanometer+X+Y+Z (5 axis linkage)
Max. engraving size	2500*1300*110mm 3000*1500*110mm (Other size can be customized) Motion control software 3D motion control software and model points software
Cooling method	Air cooling / Software matching / Engraving software and dots software



CERTIFICATE

FDA U.S. Food and Drug Administration
Protecting and Promoting Your Health

Certificate of FDA Registration on Radiation Emitting Product

This certifies that the following Radiation Emitting Product
Laser marking machine
which is belong to Material Processing Laser Products

Model No.:
ST-FL10, ST-FL20, ST-FL30, ST-FL50, ST-FL100, ST-C02L10, ST-C02L30,
ST-C02L60, ST-C02L100, ST-DL50, ST-DL75, ST-DL100, ST-UV03,
ST-UV05, ST-UV08, ST-LCE-3KE, ST-LCE4KC, ST-LCE-1325, ST-LCE1530,
ST-LCE1218

Applied by
Suzhou Suntop Laser Technology Co., Ltd
No 1018, Jia Yuan Road, Xiang Cheng District, Suzhou city, China, 215000

Has been granted by FDA

Registration number: 1731413-001

Registration Status: Valid

Please Note that 21 CFR 1002.13, requiring annual reports to be submitted each year by September 1 using the appropriate reporting form for annual reports, and 21 CFR 1002.11, requiring report supplements to be submitted under certain circumstances following the same reporting forms as used for product reports on your products.

Division of Radiological Health
Office of In Vitro Diagnostics and Radiological Health
Center for Devices and Radiological Health
Food and Drug Administration
10803 New Hampshire Avenue W066-4613
Silver Spring, MD 20993



FDA U.S. Food and Drug Administration
Protecting and Promoting Your Health

Certificate of FDA Registration on Radiation Emitting Product

This certifies that the following Radiation Emitting Product
Laser cutting machine
which is belong to Material Processing Laser Products

Model No.:
ST-FC1510, ST-CC1810, ST-FC2513, ST-CC5030, ST-FC9060, ST-CC3015,
ST-CC1612, ST-FC3015PR, ST-CC5000, ST-FC1390, ST-CC2030,
ST-FC5050, ST-CC6040, ST-CC3018, ST-CC2513, ST-CC1610, ST-FC6040,
ST-FC3015G, ST-CC1390, ST-CC2000, ST-FC6060, ST-FC2513PR,
ST-FC3015, ST-CC9060, ST-CC1000, ST-FC1312

Applied by
Suzhou Suntop Laser Technology Co., Ltd
No 1018, Jia Yuan Road, Xiang Cheng District, Suzhou city, China, 215000

Has been granted by FDA

Registration number: 1731413-000

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