



Dongguan Chang'an TaiQi
Machine Factory



What we are?

Dongguan Chan'an Taiqi Machine Factory is high-tech machinery and equipment manufacturer specializing on the research, development, production, and sales service of Tapping Machine, Laser Marking Machine and Laser Welding Machines. It was established in Taiwan at 1980's. Mainly producing Pneumatic & desktop tapping machines at the beginning. With the vigorous development of the company. Now Created “ Taiyi ” brand. Factory area of 8000 square meters, more than 200 excellent staffs and smart team. Taiyi has established a good strategic cooperative partnership With Huazhong University of Science and Technology in Optical Valley, Wuhan, China. Taiyi now become comprehensive product suppliers who supply dozens of laser machine series such as Laser Marking/Engraving Machine, welding machine, cutting machine, Automatic line jig and flowing production line etc.

After five years of fierce market competition, Taiyi grows web marketplace, Products have been adopted by more than one thousands of large and medium-sized enterprises around the world, including North America, Europe, Southeast Asia and has established strong partnership with domestic famous enterprises such as CSR Corporation Limited, TCL, Skyworth electronics, Honda, Haier group, Yuchai machinery, Midea group, Yutong bus, cosco group etc. Products are highly praised by both our old and new customers.

From global procurement of raw materials to the elaborate device, development, design, production, packaging, transportation to distribution, Well trained Taiyi people control each process strictly in the production, through the continuous sampling, detection, tracking, and other measures, to ensure that products meet the expected performance goals. Therefore, High quality of Taiyi's products is our constant faith and commitment.

In order to better serve our customers all over the world, Taiyi , One after another, Taiyi has established its branch offices in Hongkong, Taiwan, Shenzhen, Shanghai, Tianjin, Jiangsu, Wuhan, India, Egypt, Turkey, Thailand and Singapore. To improve service quality further Taiyi plans to have more offices over the world in the next few years, Taiyi's product positioning in the high-end laser series market and ensure the best quality products and services to our partners, to build long and succeed business relationship with home and abroad customers.

Our Customers



We are the manufacturer of below products

❖ **Laser Marking Machines**

-Fiber laser marking machine for metal and plastics

(Colourful marking on stainless steel, Black marking on Aluminium, Deep engraving, Print on the surface)

-Co2 laser marking machine for non-metals

(Surface marking, Deep engraving, wood marking or engraving, Fabric cutting, Ceramic Marking)

-Uv laser marking machine (Delicate marking on the transparent plastics)

Offering **Customized** automatic solution for you in **FREE**



We are the manufacturer of below products

❖ Laser welding machines

- Auto laser welding machine for auto parts and any stainless steel products

- Fiber transmission laser welding machine (applied for high quality requirement products, stable welding spot, high frequency)

- Mould repairing laser welding machine

- Jewelry spot laser welding machine

- Galvo scanner laser welding machine

- Advertising letter laser welding machine

Offering **Customized** automatic solution for you in **FREE**



We are the manufacturer of below products

❖ Laser cutting machines

-Co2 laser cutting machine for Non-metal

-Fiber laser cutting machine for metal
(500W/800W/1000W/2000W/3000W, quick speed of cutting stainless steel and other metals.)

Offering **Customized** automatic solution for you in **FREE**

Fiber laser marking machine



Stand version



Portable version



Handheld version



Portable version 2

Technical Data

Model	TY-G808 Fiber Laser Marking Machine
Laser Power	10W/20W/30W/50W optional
Working Area	110*110/170*170*220*220/300*300 optinal
Cooling mode	Air Cooling
Laser Wavelength	1064nm
Minimum character	0.15mm
Marking speed	≤8000mm/s
Focus lamp	Singapore, beam length 110*110
Beam quality	M2≤2
Beam repeating frequency	20khz-100khz
Life of laser producer	100,000Hours
Supported fonts	Support any text on Internet
Supported formats	DWG、DFX、BMP、JPG、PNG、TIF、PCX、TAG、GIF、PLT
Precision of repeating	±0.002mm
Power consumption	≤500W
Power	Ac220v 50/60Hz

Optional Accessories



Hand held laser path



Seperate laser path



Rotary Axis



2D Alloy Table



Automatic flowing line (customized according to product)

Application

-  Any metal includes rare metal, construction consumes, products with laminate, spraining and furnishing tools, plastic and rubber products and so on.
-  Widely applied for the industries of electronic components, IC, Electric tools, Telecommunications, Sanitary ware, Tools and accessories, taps and mills glass and auto parts, Jewelry and so on.

Marked samples' show



Barcode



Battery



plastic tags



LED



Aluminium



Embossing



Colourful marking

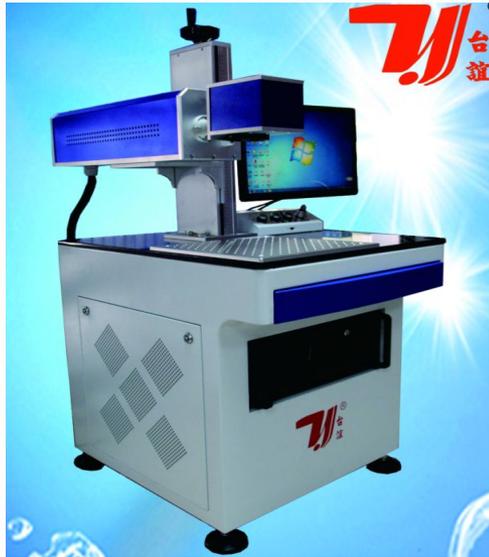


Scale



Electrics

CO2 laser marking machine



Stand Version



Portable Version



Flying Version

Model	TY-G908 CO2 Laser Marking Machine
Laser Power	10W/30W/50W /75W/100W/150W optional
Working Area	110*110/170*170*220*220/300*300 optinal
Cooling mode	Air Cooling/water cooling
Laser Wavelength	10640nm
Minimum character	0.15mm
Marking speed	≤7000mm/s
Laser beam expanders	Singapore, 4x*6x
Focus lamp	Singapore, 110*110mm optional
Beam quality	M2≤2
Beam repeating frequency	1khz-100khz
Life of laser	20,000-30,000Hours
Supported fonts	Support any text on Internet
Supported formats	DWG、 DFX、 BMP、 JPG、 PNG、 TIF、 PCX、 TAG、 GIF、 PLT
Precision of repeating	±0.002mm
Power consumption	≤500W, 2000W for 150W
Power	Ac220v 50Hz

Machine Parts



Co2 laser



EZ CAD Marking Card



Scanner



2D Alloy Table (optional)



Rotary Axis (optional)



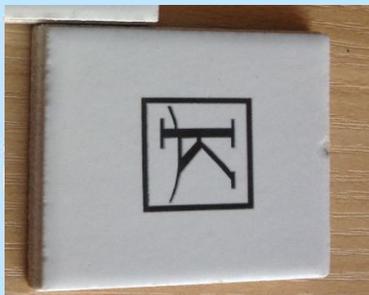
Field Lens (optional)



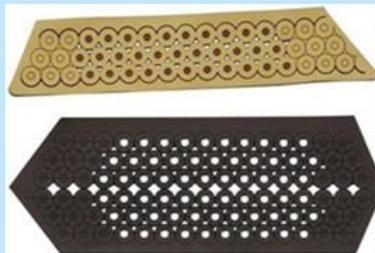
Application

-  Marking for Non-Metal material bases, like leather, fabric, wooden, bamboo base, paper, glasses, plastic, acrylic etc.
-  Widely applied for the industries of medicine, packing, leather products, garments, wooden product, craft works.

Marked samples' Show



Ceramic



Plastic film



Glass bottle



Leather shoe



Wooden box



Stones marking



Cork engraving

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UV laser marking machine



👉 Application

- 👉 Mainly applied on internal or surface engraving, such as mobile phone screen, LCD, optical device, transparent parts etc.



Plastic film



Wooden box



YAG automatic laser welding machine



Technical Data

Stepping motor	Taiwan Taiyi
Laser Power	200W/400W/600W optional
Working Area	300*300mm 600*600mm optional
Cooling mode	Water Cooling
Impulse frequency	1-100HZ
Pulse width	0.1-20ms
Spot diameter	0.2-0.8mm
Focus lens focal length	F=120mm
Single shot energy	110J
Standard welding area	200*300mm(can be customized)
Spot size	0.02-2mm
Consumed power	≤6000W
Precision of repeating	±0.02mm
Laser power supply	Ac220v 50-60HZ
Focus lens focal length	F=120mm
Control system	Taiwan Taiyi(CNC 200)(special welding machine software)
Industrial control computer configuration	Industrial control computer Lenovo brand, 19 inch Screen Dell
Two-dimensional working table	silver ball screw,guide rail

👉 Application

- 👉 Can be used in titanium, aluminum, copper, zinc, gold, silver and other metal and alloy, steel and other alloy material between the welding of dissimilar metals welding.



Fiber Transmission Laser Welding Machine (Handheld or Automatic available)



Double laser path(laser power with Energy feedback)



Technical Data

Stepping motor	LEAD SHINE
Laser Power	200W/400W/500W
Electric Power	6kw
Cooling mode	Water Cooling
Pulse Repetition Frequency	0-30HZ
Pulse width	0.1-20ms
Adjusted spot range	0.1-3.0mm
Spot size	0.2-3.0mm
Minimum welding pool	0.2mm
Machine dimension	140*650*1320cm
Water tank dimension	75*48*81cm
Xenon's working life	8month-12months
Laser positioning	Red pointer
Capacitance	8

☞ Advantage of Fiber Transmission laser Welding machine

- ❑ Even welding spot, quick speed
- ❑ Fiber laser welding machine can working with robot, flexible for angle welding
- ❑ Can be multi laser head (max 3)
- ❑ Lifespan 6-10 years



Mould laser welding machine

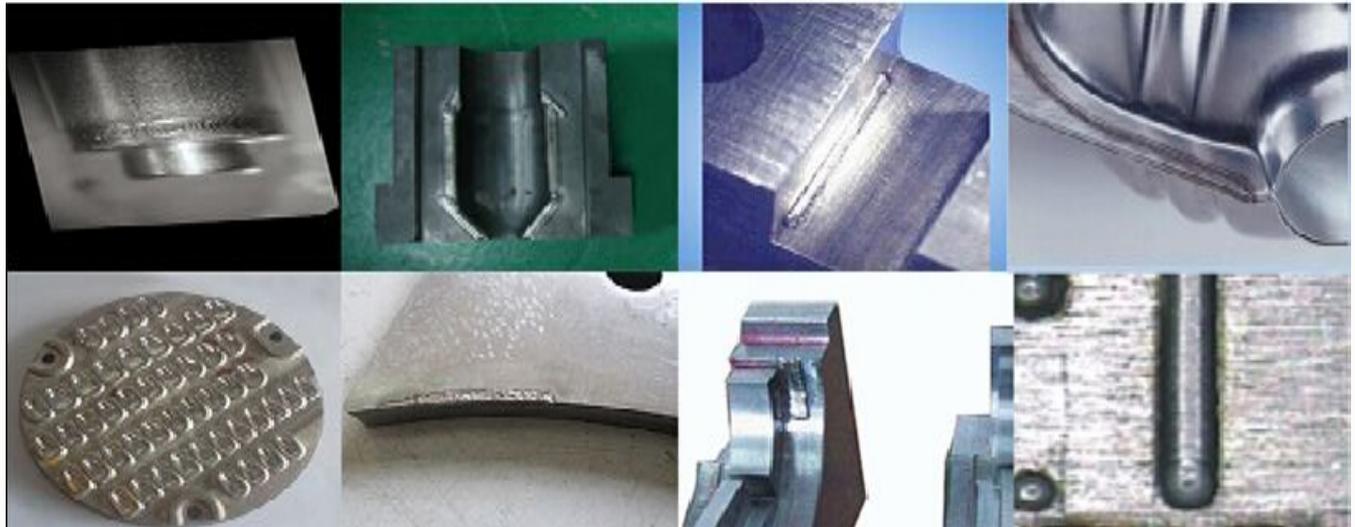


Technical Data

Stepping motor	LEAD SHINE
Laser Power	200W/400W/600W optional
Working Area	300*300mm 600*600mm optional
Cooling mode	Water Cooling
Impulse frequency	1-100HZ
Pulse width	0.1-20ms
Spot diameter	0.2-0.8mm
Focus lens focal length	F=120mm
Single shot energy	110J
Standard welding area	200*300mm(can be customized)
Spot size	0.02-2mm
Consumed power	≤6000W
Precision of repeating	±0.02mm
Laser power supply	Ac220v 50-60HZ
Focus lens focal length	F=120mm

Application

- Application: for repairing and welding on mould of precision injection, die casting and repairing for casting, machineing parts, such as sand hole, collapse, cutting processing etc



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Laser spot welding machine

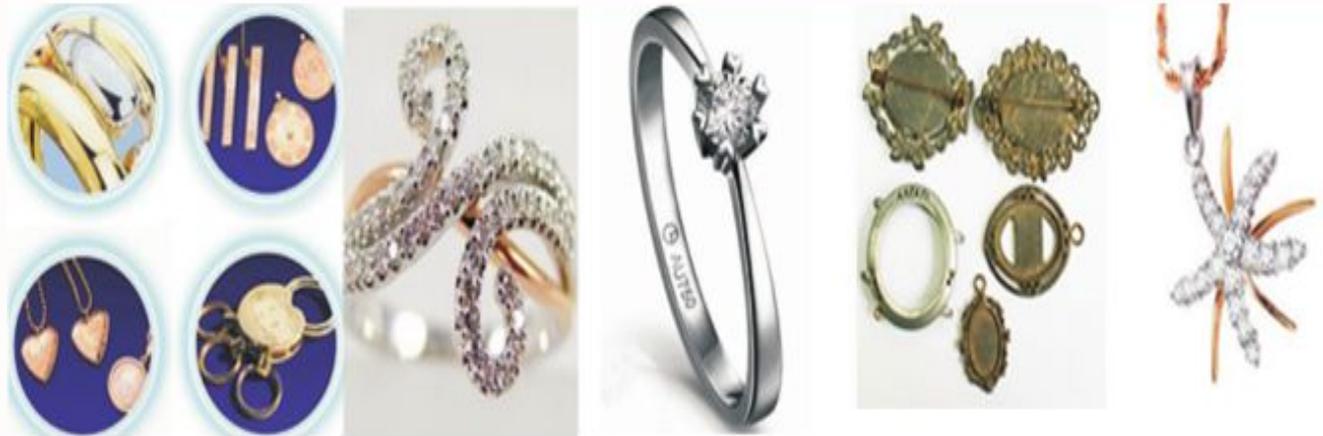


Technical Data

Stepping motor	LEAD SHINE
Laser Power	200W
Electric Power	6kw
Cooling mode	Water Cooling
Laser pulse Frequency	1-20HZ
Pulse width	0.1-20ms
Adjusted spot range	0.1-3.0mm
Spot size	0.2-3.0mm
Minimum welding pool	0.1mm
Machine dimension	115*123*40cm
Water tank dimension	75*48*81cm
Grand weight	270kgs
Xenon's working life	8month-12months
Laser positioning	Red pointer
Capacitance	8

👉 Application

- 👉 For gold and silver jewelry welding, such as filled holes, spot welding gaps and claws etc.
- 👉 Jewelry, golf head, medical equipment, instruments, Electronic, automobile and other industries.



Galvanometer scanning laser welding machine

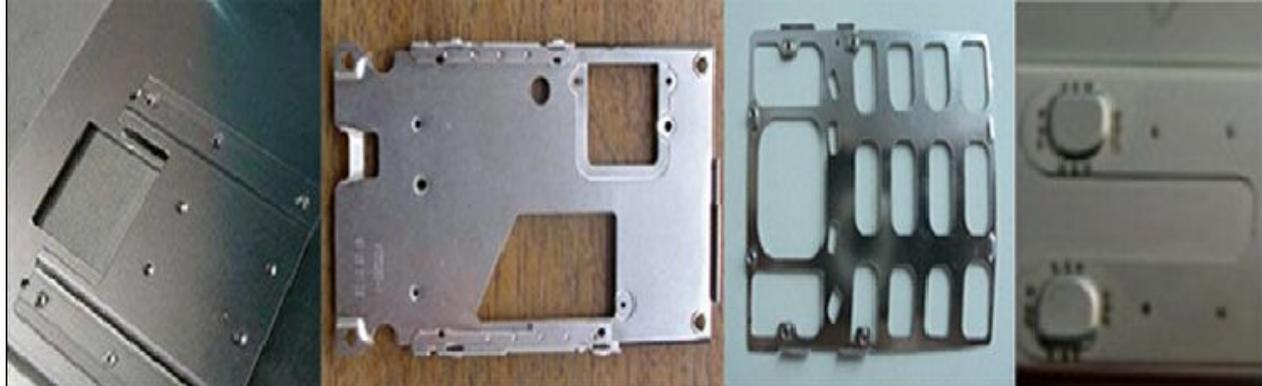


Technical Data

Stepping motor	LEAD SHINE
Laser Power	200W
Electric Power	6kw
Cooling mode	Water Cooling
Laser pulse Frequency	1-20HZ
Pulse width	0.1-20ms
Adjusted spot range	0.1-3.0mm
Spot size	0.2-3.0mm
Minimum welding pool	0.1mm
Machine dimension	115*123*40cm
Water tank dimension	75*48*81cm
Grand weight	270kgs
Xenon's working life	8month-12months
Laser positioning	Red pointer
Capacitance	8

👉 Application

- 👉 For mobile phones' shield and metal capacitor shell, metal shielding wire mesh inside PC, razor blades, electronic connectors and others electronic products, Mobile phones PC etc.



Advertising Letter Laser spot welding machine



Technical Data

Stepping motor	LEAD SHINE
Laser Power	200W
Electric Power	6kw
Cooling mode	Water Cooling
Laser pulse Frequency	1-20HZ
Pulse width	0.1-20ms
Adjusted spot range	0.1-3.0mm
Spot size	0.2-3.0mm
Minimum welding pool	0.1mm
Machine dimension	115*123*40cm
Water tank dimension	75*48*81cm
Grand weight	270kgs
Xenon's working life	8month-12months
Laser positioning	Red pointer
Capacitance	8

Application

- ☞ For various of stainless steel mirror surface, drawing words, spherical and plane words, paint, plastic spraying, solid words, gold foil, seiko stainless steel word. Titanium surface, seiko titanium, titanium spherical words, plane of copper, spherical copper words, copper archaize words, seiko of aluminum, tin paint words advertising words, words of metal materials.



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Fiber laser cutting machine



Parameter of Fiber laser cutting machine

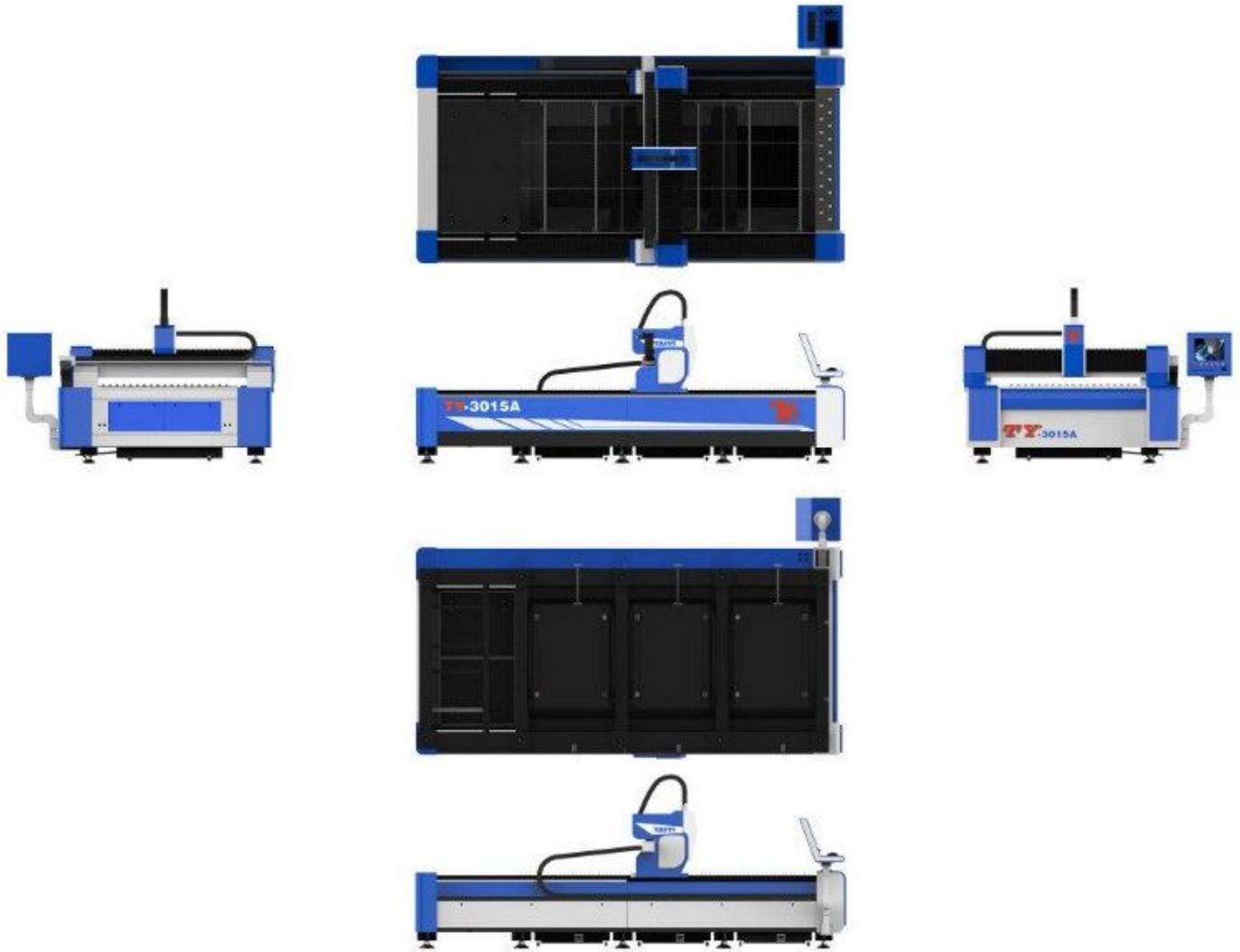
Model	Fiber laser cutting machine
Laser power	800W/1000W/1500W/2000W/3000W optional
Machine Body	gantry structure
Working Travel	High Precision Ball screw numerical control table with feeding device
Max running speed	40m/min
X/Y location precision	0.03mm/m
Power Supply	380V 50Hz
X/Y repeated location precision	±0.03mm
Running Temperature	0°C-40°C
Beam repeating frequency	20khz-100khz
Machine gross power	<10KVA
Applied Materials	Thin mild steel, stainless steel and other kinds of metallic sheets
Cutting Area	3000mm*1500mm
Total Weight	4500KGS



laser power	Max cutting thickness			
	Carboon steel (mm)	Stainless steel (mm)	Aluminum (mm)	Brass (mm)
800W	8	3	1	1
1000W	12	4	2	2.5
1500W	14	5	4	3
2000W	16	6	3	4
3000W	22	10	6	8

Above parameter for reference only

Detail photos





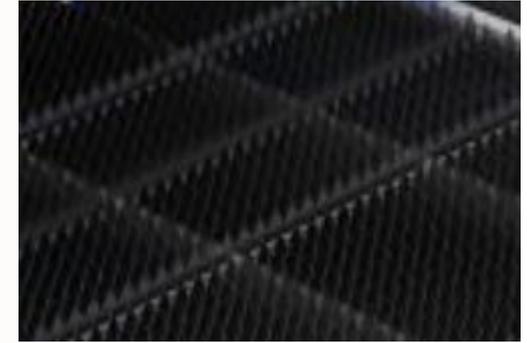
Machine parts



Operate panel



Cutting head



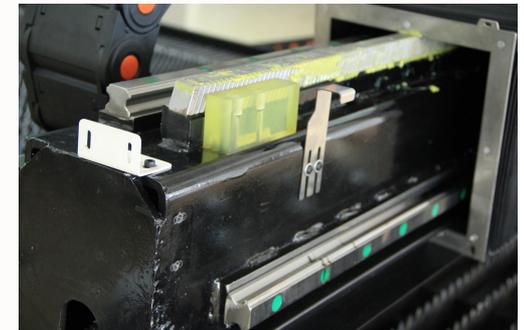
Working table



Water tank



Mucker device



x axis sliding structures

Machine models

Open concept & exchange table
fiber laser cutting machine



Sheet and pipes fiber laser cutting
machine



Pipes fiber laser cutting machine



Enclosed & exchange table fiber
laser cutting machine

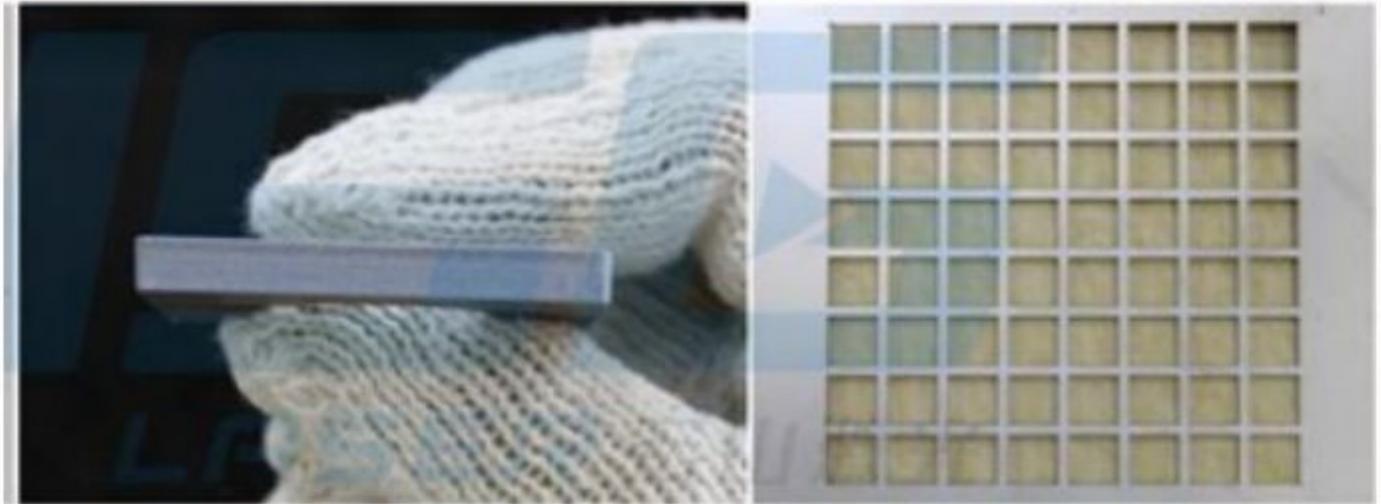


Cutting samples



Application

- ☞ All metals, it can cut very small design, and can cut 6mm middle steel, 120holes can be cut within 1 minute





The Specialist of Machine manufacturer

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