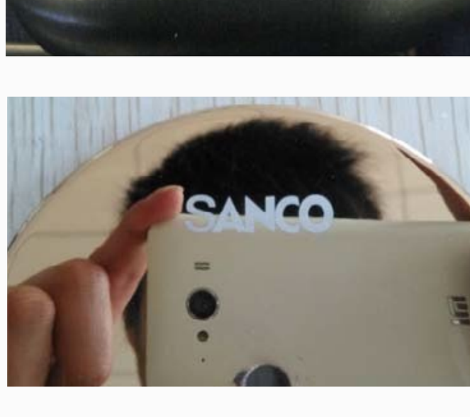
HeatSign
The Science of Marking

Fiber Laser Marking Machine (HS-FL20 /HS-FL30)

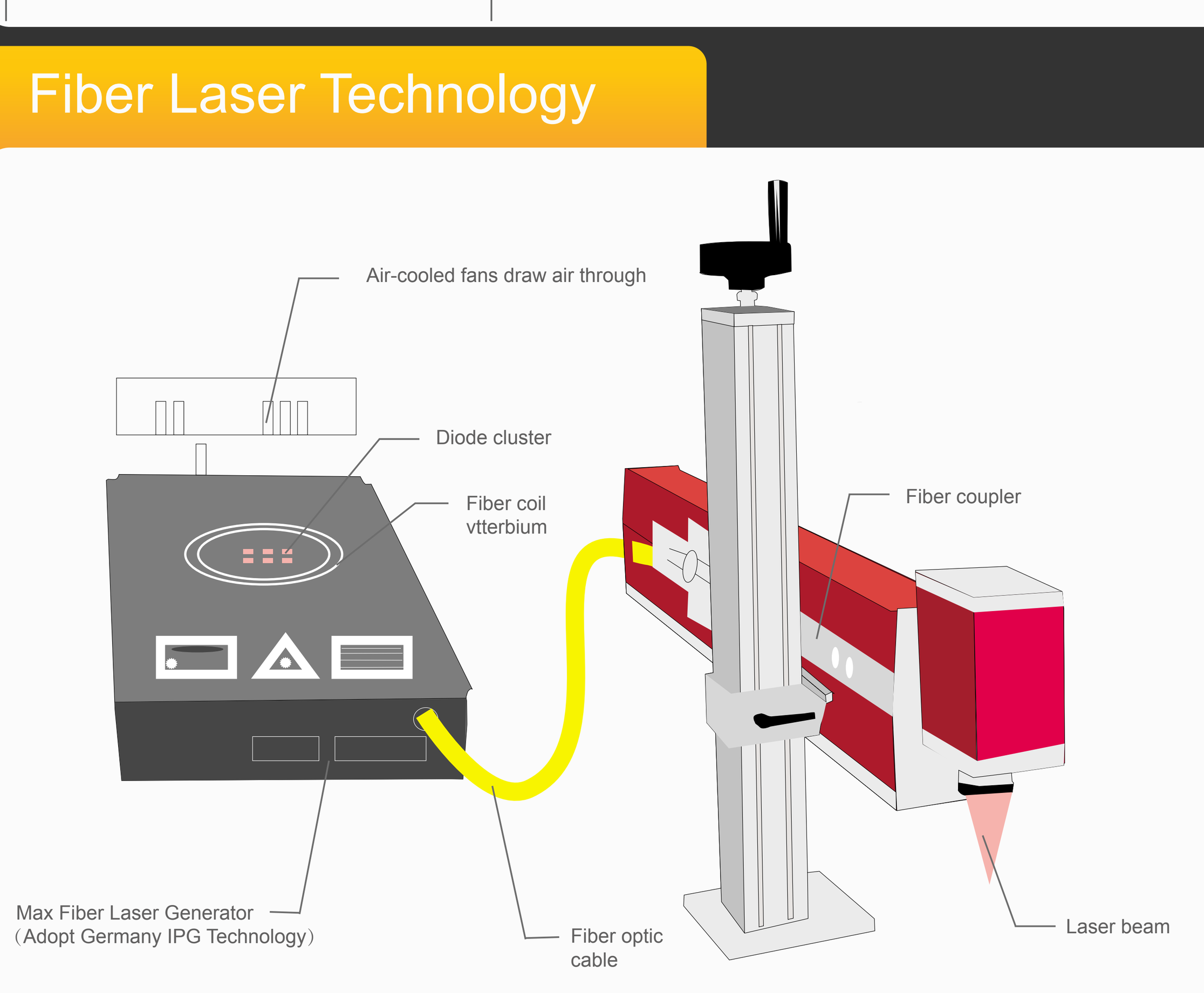
Laser power range
20W (HS-FL20)
30W (HS-FL30)

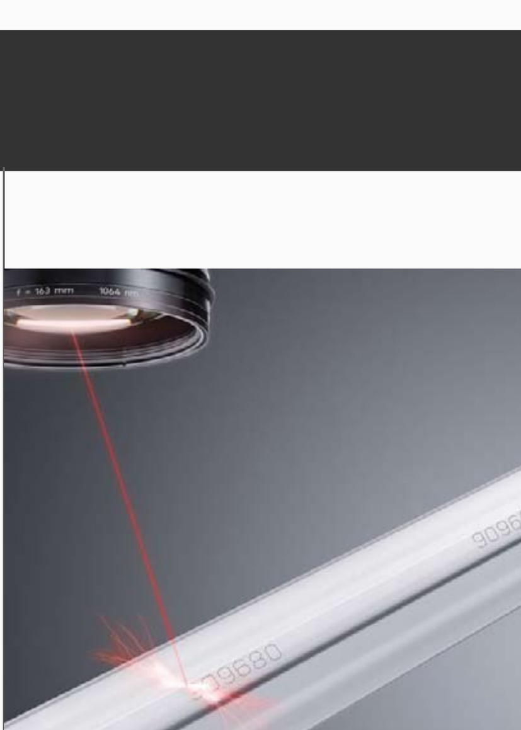
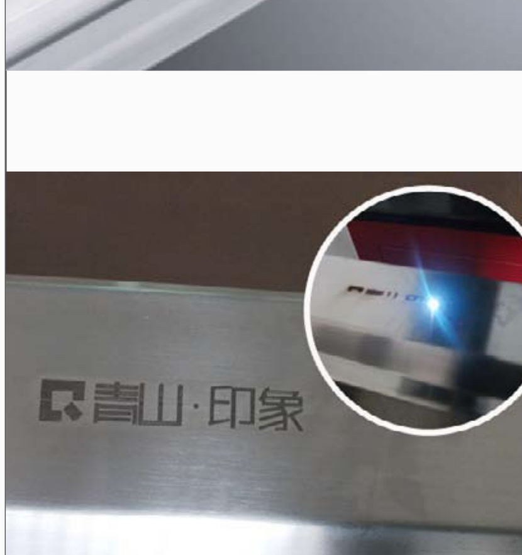



- Advanced laser generation results in stable output
- High-speed Galvo scanner yields 20% increased speed
- Provides high accuracy in very small areas
- Increased flexibility for convenience
- Use of green technology for eco-friendliness
- Increased savings with low power consumption

Optional design:

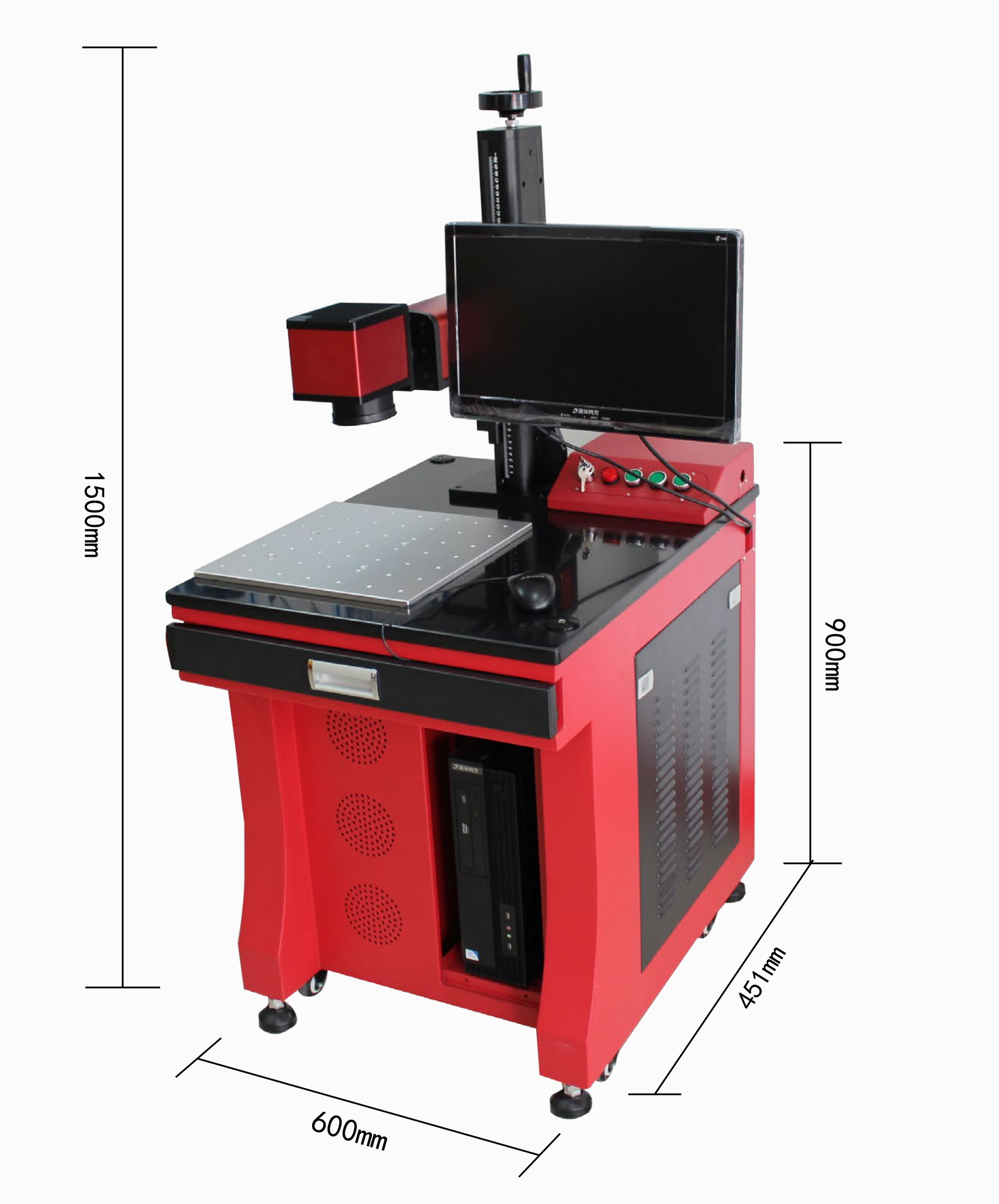

Fiber Laser Technology

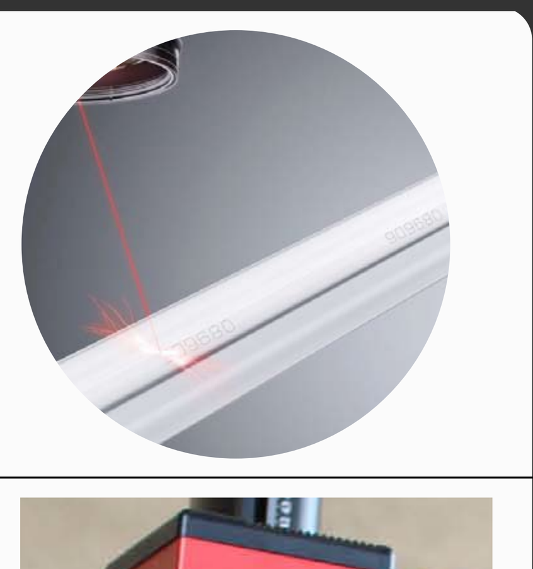


The Fiber Laser marking machine is a remarkable device with an optimum electro-optical conversion rate. It boasts of the most advanced laser generator in the world today. The sheer superiority of the machine extends to its robustness, stability of power output, air ooling system and the perfectly integrated design.

A Fiber Bundle enclosed within the laser generator is doped with Ytterbium, which is then pumped with light emitting diodes. The fiber bundles deliver the laser light to the optical head that consists of an entire system of a beam expander, collimating optics and back reflection protection.





Features & Benefits

This Fiber Laser marking system with 20W and 30W options is a high-power machine, perfectly suitable for high-speed marking of large areas with utmost clarity. The 20W Fiber Laser satisfies most marking applications; however, the 30W Fiber Laser is apt if you're looking for increased marking depth.

Performance.
- Highly versatile and offers high-precision marking
- Marks all surfaces with a min. line width of 0.01mm
- Bar Code/2d Code marking possible
- High speed marking of up to 7000mm/s
- Supports high-definition logo and image marking

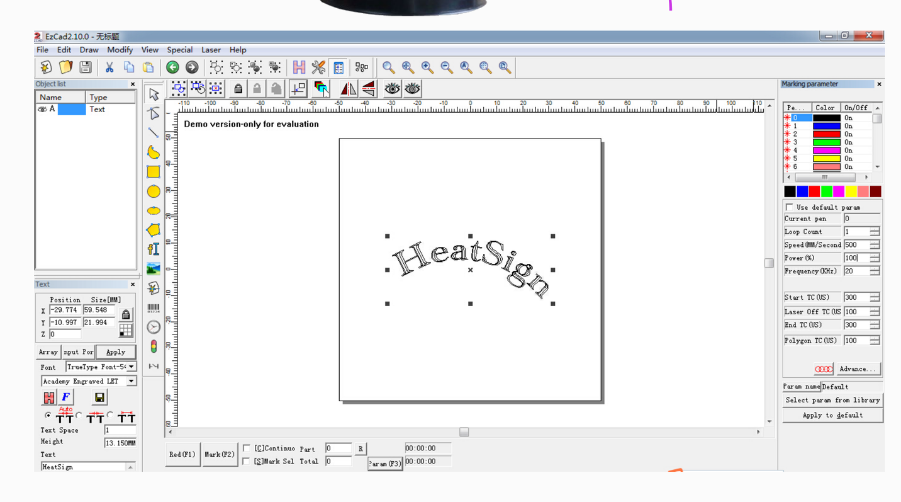
Reliability
- No fear of shock during operation
- Superior quality laser module (working life 50000 – 100000 hours)
- Ability to work 24/7 continuously

Ease-of-Use
- Easy to move and operate
- Maintenance free

Security
- Efficient water cooling system
- The high-speed flow pump offers working stability
- Standard CE certification eliminates all risk for users

Marking area: 100 x 100 mm / 3.9 x 3.9 inches
Option: 200 x 200 mm / 7.9 x 7.9 inches
Option: 300 x 300 mm / 11.8 x 11.8 inches

Laser source 20W(HS-FL20)
30W(HS-FL30)

Model	HS-FL20	HS-FL30
Laser Type	Fiber laser	
Power Output	20W	30W
Standard Marking Area	100mm x 100mm	
Optional Marking Area	250mm x 250mm/300mm x 300mm	
Marking Speed	≤9000mm/s	
Frequency Of Pluse	20KHZ～100KHZ	
Repeated Accuracy	±0.001mm	
Wave Length	1064±10nm	
Marking Depth	≤0.2mm（depends on material）	≤0.3mm（depends on material）
Mini Line Width	0.01mm	
Mini line Characters	0.2mm	
Power Supply	AC220V±10% 50Hz or AC110V±10% 60Hz	
Cooling Way	Air cooling	
Operation Temperature	10-35°C	
Laser Generator Life	50000~100000 hours	
System / Compatible Formats	Windows XP or 7/AI, PLT, DXF, DST, BMP, JPG, JPEG, PNA, TIF etc.	

Applications & Materials

The fiber Laser marking machine can mark all kinds of metals and alloys. Listed below are some of the materials:

Materials	Mark	Materials	Mark
Alloy	√	Hardware	√
Copper	√	Mobile Phones	√
Aluminium	√	Eye Glass Frames	√
Zinc	√	Clocks And Watches	√
Rare Metals	√	Plastic Buttons	√
Electronic Components	√	Building Material	√
Integrated Circuits(IC)	√	Chemical And Food Packaging	√
Electrical Applicances	√	Medical Instruments	√
Pvc Pipe	√	Metallic Oxide	√
Plate Surface	√	Alarm	√
Commodity	√	Printed Material	√
Brass	√	Auto Spare Parts	√
Precision Equipment	√	ABS	√
Tool Accessories	√	Motor Accessories	√

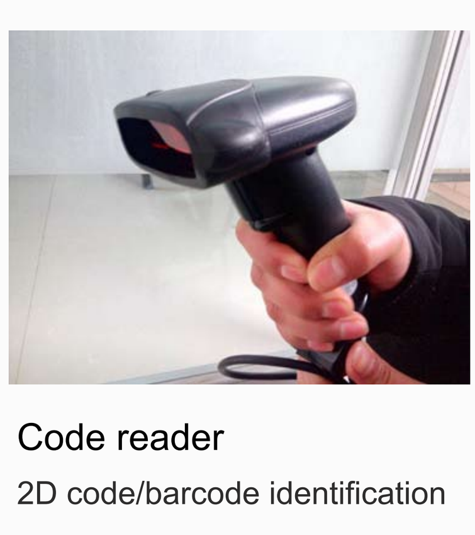


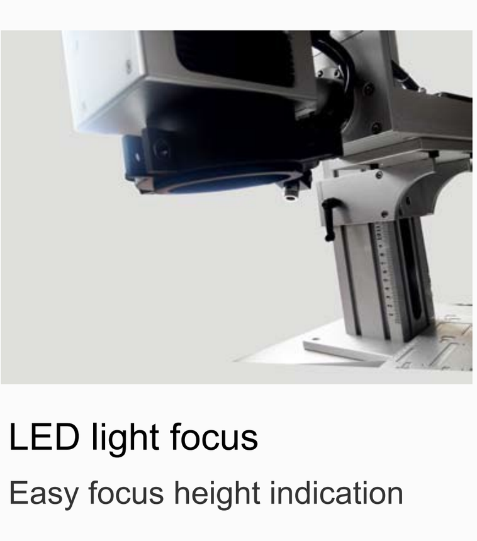
- All metals and alloys (iron, copper, aluminum, magnesium, zinc etc.)
- Rare metals and alloys (gold, solver, titanium etc.)
- All types of metal oxides
- Specially treated surfaces (anodized aluminum, phosphating, electroplating etc.)
- Material coated surfaces

Options & Accessories

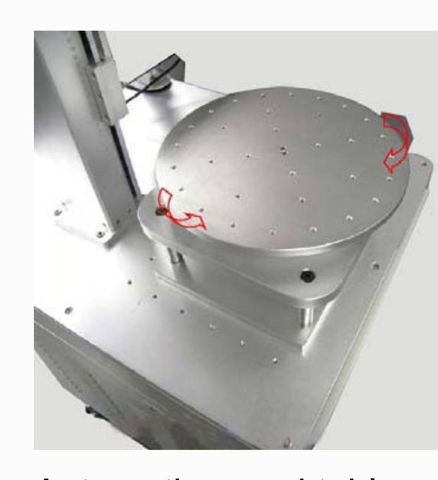

Rotary device
Marking circles

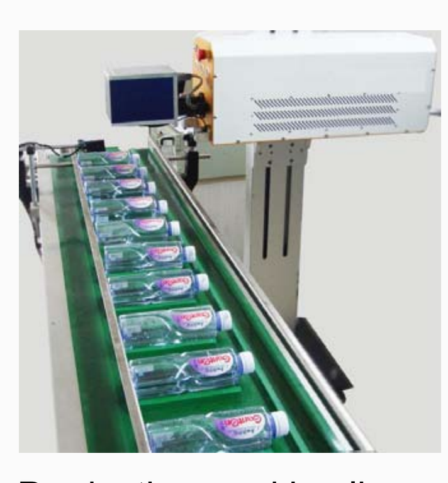

Foot switch
Improved efficiency


Code reader
2D code/barcode identification


LED light focus
Easy focus height indication


Frame protection system


Automatic round table


Production marking line

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