

## Fiber Laser Marking Machine (HS-FL20/HS-FL30/HS-FL50)

### Laser power range

20W (HS-FL20)  
30W (HS-FL30)  
50W (HS-FL50)

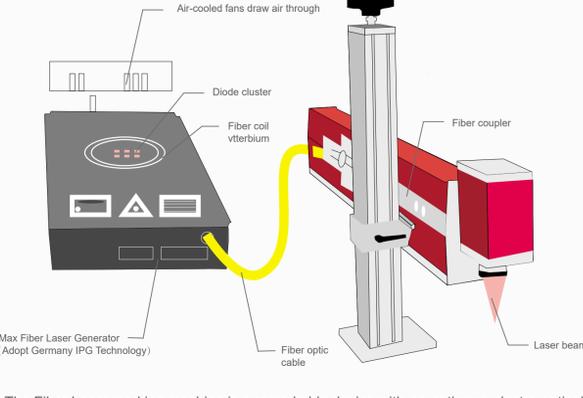


- ⚡ Advanced laser generation results in stable output
- ⚡ High-speed Galvo scanner yields 20% increased speed
- ⚡ Provides high accuracy in very small areas
- ⚡ Increased flexibility for convenience
- ⚡ Use of green technology for eco-friendliness
- ⚡ Increased savings with low power consumption

### Optional design:

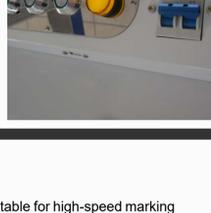
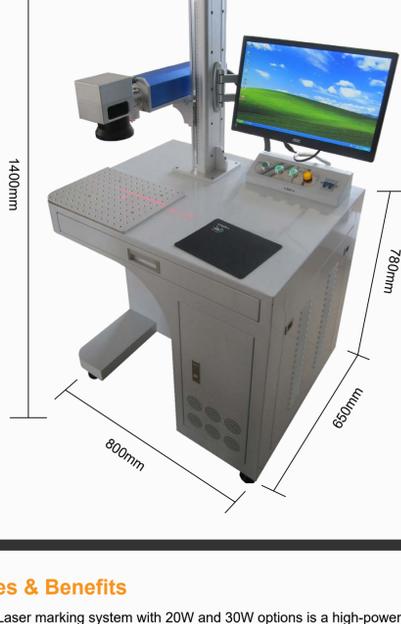


## Fiber Laser Technology



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 cooling 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.

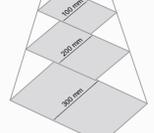


### Features & Benefits

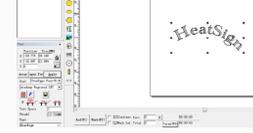
This Fiber Laser marking system with 20W and 30W options is a high-power machine, perfectly suitable for high-speed marking of large areas with utmost clarity. The 20W Fiber Laser satisfies most marking applications; however, the 30W Fiber Laser is apt if you're looking for increased marking depth.

- 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)  
50W(HS-FL50)



Model	HS-FL20	HS-FL30	HS-FL50
Laser Type	Fiber laser		
Power Output	20W	30W	50W
Standard Marking Area	110mm x 110mm		
Optional Marking Area	150mm x 150mm / 175mm x 175mm/ 200mm x 200mm/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)	≤0.5mm (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 Appliances	✓	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, silver, titanium etc.)
- All types of metal oxides
- Specially treated surfaces (anodized aluminum, phosphating, electroplating etc.)
- Material coated surfaces

## Options & Accessories

