HeatSign

The Science of Marking

Empower Precision
Inspire Creation

Small Desktop Sheet Metal Laser Cutter

HS-FLC1500 (1500W)
HS-FLC2000 (2000W)
HS-FLC3000 (3000W)

www.heatsign.com

Overview of the HeatSign Fiber Laser Cutter

The HS-FLC Series Laser Cutter is a compact, efficient solution for precision metal sheet cutting. It handles carbon steel, stainless steel, aluminum, brass, and copper with high accuracy. Featuring pneumatic fixtures, a wireless remote, and advanced water cooling, it ensures reliable performance and durability. Available in 1000W, 1500W, 2000W, and 3000W power options, it's ideal for enhancing industrial efficiency and quality.

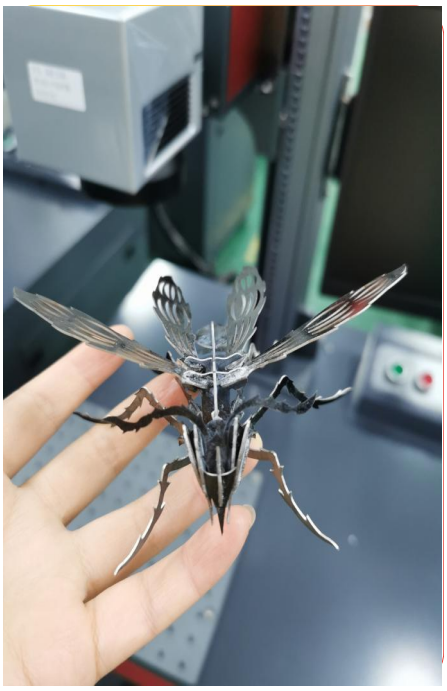
Compact Size:
Saves space and reduces transportation costs.

High Precision:
Automatic positioning ensures accurate cuts.

Versatile:
Cuts carbon steel, stainless steel, aluminum, brass, and so on.

User-Friendly:
Wireless remote and intuitive system for easy control.

Advanced Cooling:
Water cooling system prevents overheating.



At HeatSign, we're not just offering a product, but a commitment to precision and innovation in marking solutions.

Features & Benefits

Space-Saving Design:

Compact size, can be easily placed in not very large workspace.

Precision Cutting:

High accuracy with automatic positioning for clean and precise cuts.

Durable Construction:

Aavanced water cooling system ensures consistent performance and extends the machine's lifespan.

Secure Handling:

Equipped with pneumatic fixtures that securely hold metal sheets for stable and accurate cutting.

High Efficiency:

Fast cutting speeds increase productivity and reduce operational time.

User-Friendly:

Features an intuitive operating system and wireless remote control for ease of use.

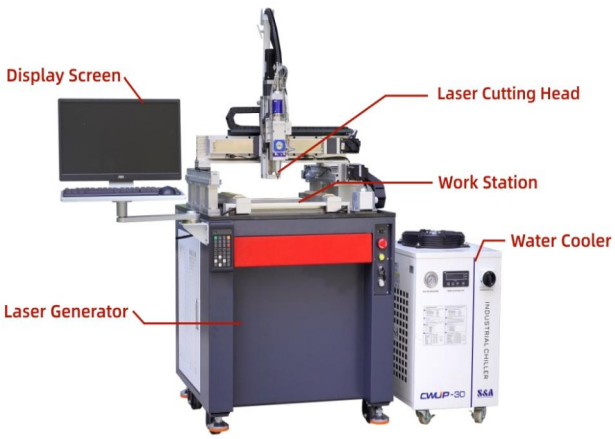
Versatile Use:

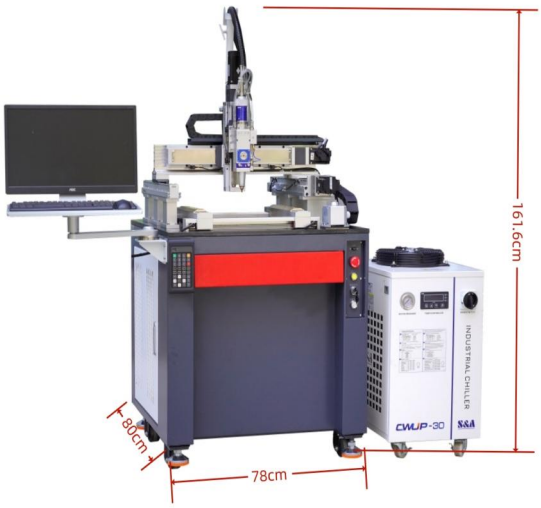
Capable of cutting various metals including carbon steel, stainless steel, aluminum, brass, and others.

These features offer a reliable, efficient, and cost-effective solution for your marking and engraving needs.

Machine Specification

Laser Type	Fiber Laser
Cooling Mode	Water Cooling
Laser Power Output	1500w/2000w/3000w
Brand Name	HeatSign
Wave Length	1080nm
Weight (KG)	Net weight 266KG, Gross weight 320KG (without water cooler)
Cutting Width	300*300mm
Warranty of core components	1 year
Maximum Cutting Speed	30m/min
Cutting Precision	±0.1mm
Applicable Material	Metal sheets, such as carbon steel, stainless steel, and so on.
Power Supply	Single-phase 240VAC 50/60HZ for 1000W-2000W
Pneumatic Fixture Air Pressure Range	0.15-0.8Mpa
Package Size	820*840*1500mm (without water cooler)
File Import Types	dxf, chf, nc, txt, cnc, g, plt





Cutting Parameters

Power (output)	Material type	Maximum cutting thickness	Cutting gas
1500W	carbon steel	12mm	O_2 (plate thickness 1mm or less use N_2)
	stainless steels	5mm	N_2
	aluminum	3mm	N_2
	brass	2mm	N_2
2000W	carbon steel	16mm	O_2 (plate thickness 2mm or less use N_2)
	stainless steels	6mm	N_2
	aluminum	4mm	N_2
	brass	4mm	N_2
	copper (pure copper, as opposed alloy)	2mm	Oxygen
3000W	carbon steel	20mm	O_2 (plate thickness 2mm or less use N_2)
	stainless steels	8mm	N_2
	aluminum	6mm	N_2
	brass	5mm	N_2
	copper (pure copper, as opposed alloy)	3mm	O_2

Machine Applications

The HS-FLC Series Laser Cutter is a versatile and powerful tool designed for precision cutting of metal sheets. Here are some of its key applications:hasawidearrayofapplications,makingitanessentialtoolfor diverse industries:

- **Sheet Metal Fabrication:** Ideal for cutting various metal sheets such as carbon steel, stainless steel, aluminum alloy, brass, etc.
- **Lightweight Components:** Essential for cutting lightweight and durable metal materials .
- **Automotive Industry:** Perfect for producing small metal parts and components with high accuracy.
- **Medical Devices:** Customize metal pens, business card holders, and desk nameplates with logos and names.
- **Rapid Prototyping:** Enables quick and precise cutting of prototype parts, accelerating the product development process.
- **Customization:** Perfect for creating custom products with detailed engravings or cuts, like personalized gifts.
- **Signage:** Excellent for producing detailed and precise metal signage, including small lettering and intricate designs.

Accessories and Consumables

Protective Lens

Extrusion Nozzle

Hexagonal

Protective Glasses

Anti-scald Gloves

This machine is a versatile tool that caters to diverse marking and engraving needs across industries.

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