

CUTTING BENDING WELDING CLEANING CLADDING MACHINING AUTOMATION

A GLOBAL PROVIDER OF ONE-STOP METAL FABRICATION SOLUTIONS

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FEILKE is an international metal forming automation company. As a subsidiary of SENFENG Group, Feilike (FLK Laser) is designed to provide customers with high-quality, fully automatic solutions globally. It has become a technology-driven innovation enterprise by independently developing many core technologies in the laser industry and combining laser cutting, bending, welding, cladding and automation into one product to greatly improve production efficiency for customers with multiple automatic equipment requirements.

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+570 PATENT CERTIFICATIONS

We have obtained CE, ROHS, FDA, ETL, CSA certificates from TÜV, and our quality and safety standards have reached international certifications



LASER WELDING



Laser Welding

Laser welding offers extreme precision and exact thermal control, resulting in exceptionally clean, high-quality joints.

Key benefits of laser welding include:

- **Accuracy**: Laser welding allows for high accuracy in joining materials, which is especially useful in the manufacturing of precision components.
- **Speed**: This welding method is fast and efficient, which can result in increased productivity and reduced manufacturing time.
- **Thermal Control**: Laser welding provides precise control of the heat-affected zone, minimizing the risk of thermal damage to surrounding materials.
- **Versatility**: Laser welding can be used for a wide range of materials, including metals, plastics, and ceramics.
- **Hard-to-Access Welding**: Due to its directional and precise nature, laser welding is ideal for making joins in hard-to-reach areas or on complex-shaped components.
- **Non-Contact Welding**: Laser welding requires no physical contact between the heat source and the material, reducing the chance of contamination or tool wear.







Applications

Metal laser welding machines are widely used in automotive industry, electronic industry, food machinery, household appliances, etc.

Welding materials

The portable handheld laser welding machine can be used to weld stainless steel, carbon steel, aluminum, chromium, nickel, titanium and other metals.





Advantages:

Fiber laser welding machines can **minimize heat input**, **reduce the metallographic range of the heat-affected zone**, and **minimize deformation** caused by heat conduction.

The **laser can be focused on a small area** to weld small and closely spaced parts.

A **wide range of weldable materials** and various heterogeneous materials can also be joined together.

The machine is suitable for **high-speed welding** by automation and can also be controlled digitally or by computer.

When welding a thick plate or fine-diameter wire, there is not the same melting problem as with arc welding.

Not affected by magnetic fields (arc welding and electron beam welding are easily affected), allowing for precise targeting of welds.

Portable Fiber Laser Welding Machine S Series



Model:	SF4S	SF5S		
Energy:	1.2kw	1.5kw	All models are customizable to the	
Weld thickness:	≤4mm		client's color and aesthetic preferences.	Ax LAND
Size (w X h X d):	698mm X //	10mm X 810mm		

Fiber laser welding is a welding technology used to join various metal components and allows for fine, deep, and high-speed welding.

FLK's portable fiber laser welding machine can be used to weld metal plates, metal tubes, and more.

Advantages:

- **High efficiency**: 2 to 10 times more efficient than other welding methods.
- High quality: Smooth welding seam, no post-grinding.
- **Reduce costs**: Allows saving at least 2 welders 80% to 90% energy savings
- **Operation flexibility**: Flexible 360° movement and no prior experience required to perform optimal work.
- **Multifunction**: 6 welding methods with or without wire, can also perform cuts of thin steels.
- **Multiple languages**: Support available in English, Spanish, Chinese, Japanese, among others.

Portable Laser Welding Machine



Model:	FLK LWP	Cooling mode:	Water cooling	Welding range:
Laser power:	1.5kw / 2kw / 3kw	Laser wavelength:	1080nm	 Carbon steel 0.5 ~ 4 mm
Welding gap:	≤1 / 5 del grosor de la chapa.	Welding speed:	0-120mm/s	 Stainless steel 0.5 ~ 4 mm Aluminum 0.5 ~ 3
Fiber length:	Estándar 10m	Electromechanical:	380V / 50Hz 220V opcional	



This is our next-generation laser welding machine. The reason we rate it as cost-effective is that it combines welding, cutting, and cleaning at a lower price.



Users can store and recall welding parameters at will on its easy-to-use interface.

It features a temperature/gas alarm and phase sequence protection to provide a higher level of protection.

HW Series Portable Fiber Laser Welding Machine



z/60 Hz

Model	FLK HW 1500 / 2000 / 3000	Machine cooling	Water cooling
Laser power	1.5kw / 2kw / 3kw	Welding gun weight (kg)	≤0.7
Thickness of the welding sheet (mm)	 ≤4mm / ≤5mm / ≤7mm	Gun line length (m)	10
Laser wavelength (nm)	1080±5	Overall Dimensions (L*W*H, mm)	968*660*826 / 968*660*826 / 980*720*867
Filler wire diameter (mm)	0.8-1.6 / 0.8-1.6 / 0.8-2	Power supply	Monophasic 220V, 50Hz / 60Hz Three-phase 380 V, 50 H

Comparison	Laser welding	Argon arc welding	
Welding method	Spot or continuous welding	Spot welding	
Applicable materials	Stainless steel, carbon steel, galvanized sheet, aluminum, etc.	Stainless steel, carbon steel, galvanized sheet.	
Thickness requirements	0.5-4mm	1-12mm	
Deformation of the workpiece / undercut	Small	Big	
Welding speed	0-8m / min	0-1m / min	
Post processing	Light or no sanding	Needs polishing	
Operation Difficulty	Simple	Complex	
Safety and environmental protection	Safe and environmentally friendly	Unsafe and environmentally friendly	
Labor costs	General workers (can operate after simple training)	Professional welder	
Parts used	Lens, nozzle	Argon	
Supplies	Argon / Nitrogen	Argon	

FLK laser welding



Argon arc welding



Advantages:

Quick changes in automatic and portable operation: Manual welding and robot welding can be quickly switched through customized fixtures and switching control system, one machine for two uses.

Various welding methods: According to the welding requirements of the workpiece, welding can be by heat conduction, deep penetration and wire filling.

Welding at various angles: According to the welding positions of the workpiece, welding can be achieved at various angles within the processing range through the robot wire anti-binding mechanism, and the maximum coverage of the robot is 1730mm.

Automatic welding of various large-scale workpieces: Welding parameters can be fully managed and automated by the robot welding software. The welding procedure can be determined based on the type of workpiece.

Portable robotic laser welding machine



Model:	FLK LWRP
Laser power:	1.5kw / 2kw
Robot:	CRP-RH18-20
Weld thickness:	0 5-4 mm

This machine features precise laser beam control, fast welding speed, water cooling, as well as an advanced 3D robot.



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