

## Koko-Tawa Fiber Laser Welding Machine

### Product Overview

The Koko-Tawa Fiber Laser Welding Machine is a state-of-the-art solution for precise and efficient welding needs, ideal for a variety of industrial applications. Engineered with advanced technology, it ensures superior weld quality, operational efficiency, and minimal maintenance.

### Technical Specifications

Parameter	Details
Laser Power	1500W / 2000W
Laser Source	BWT
Laser Wavelength	1070/1080nm
Laser Frequency	1000 - 3000KHz
Voltage	220V/50-60Hz
Motion Mode	Continuity
Light Output Mode	CW (Continuous Wave)
Welding Speed	0-120mm/s
Weld Width	0.2-5mm
Cooling System	Water Cooling
Operation Software	User Friendly
Warranty	1 Years excluding Gun



### Key Features

- **High Precision Welding:** Ensures minimal distortion and excellent seam quality.
- **Versatile Applications:** Supports a wide range of metals and thicknesses.
- **Advanced Cooling System:** Water cooling enhances performance and longevity.
- **User-Friendly Software:** operation software provides intuitive control and programming.

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EMAIL: [sales@electrawelding.com](mailto:sales@electrawelding.com)

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- **Durable Design:** Built for extended use with robust components.

## Applications

- Auto Components
- Aerospace
- Electronics Manufacturing
- Construction Equipment
- Medical Equipment
- Structural Steel Welding
- Pipeline Joints

## List of Consumables

1. **Protective Lens:** Ensures laser optics remain clean and undamaged.
2. **Focus Lens:** concentrates the laser beam to a precise focal point, enabling high-intensity energy for accurate and efficient welding
3. **Nozzles:** Multiple nozzle types for various welding tasks.
4. **Filler Wire:** General MIG wire can be used (0.8mm~1.6mm sizes can be used)
5. **Water Cooling :** **distilled water** or **deionized water**, Essential for maintaining optimal cooling system performance.
6. **Gas Cylinders:** Argon or Nitrogen for shielding the weld area.

## Why Choose Our Fiber Laser Welding Machine?

- **Reliability:** Backed by a comprehensive warranty and robust support.
- **Efficiency:** Faster welding speeds with high accuracy.
- **Cost-Effectiveness:** Lower operational costs due to minimal consumable usage.
- **Compact Design:** Saves space while delivering exceptional power and performance.

## 2.3 Product Characteristics

2.3.1 Hand-held welding, flexible operation, wide range of reach.

The wobble welding joint is independently developed, with wobble welding mode, adjustable spot width and strong welding fault tolerance, which makes up for the disadvantage of small laser welding

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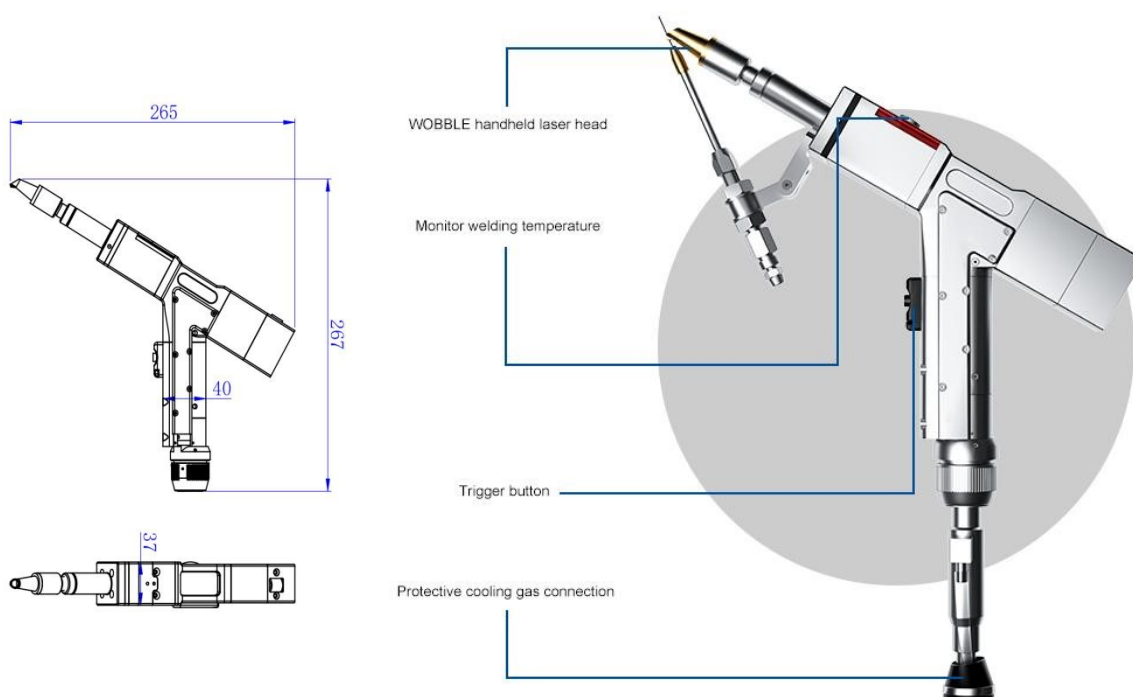
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spot, expands the tolerance range and weld width of machined parts, and obtains better weld line forming. The weight for the welding head is only 1.2 kg.



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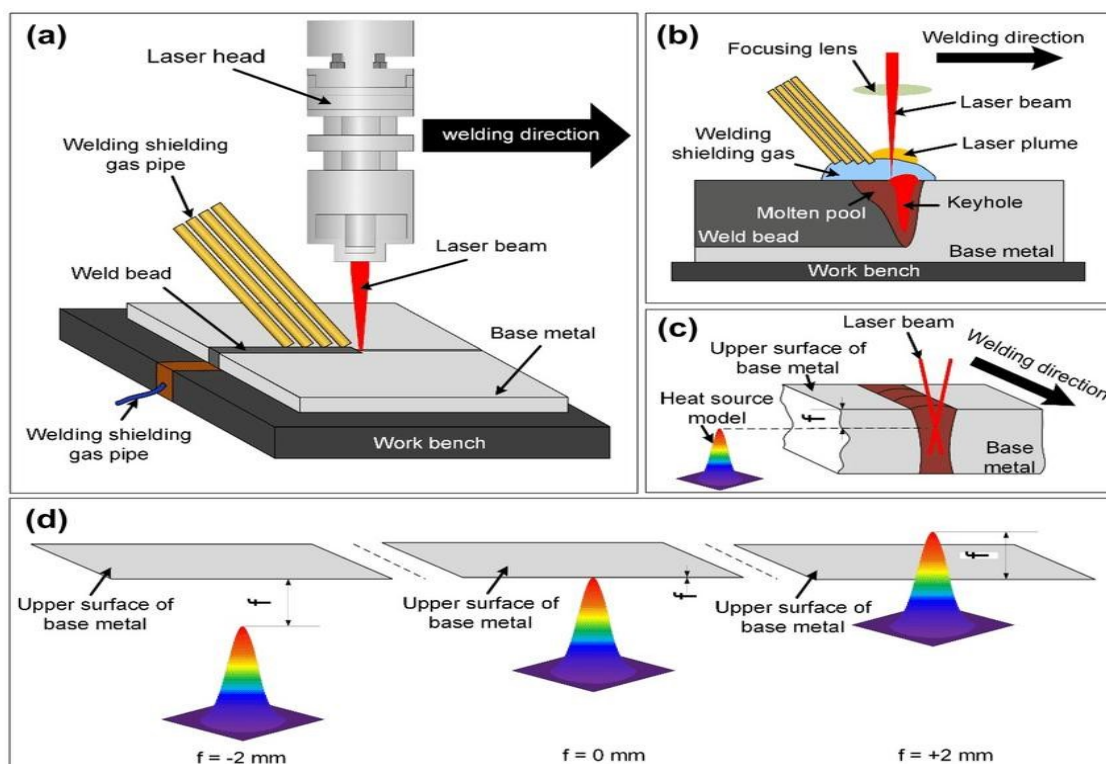
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2.3.2 Simple operation, easy to master, operator only needs 1 day to be familiar with, suitable for all kinds of complex welds, overcome the limitations of the table.

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**2.3.3 Lower budget:** Handheld laser welders aim to meet your budget by reducing weld processing time, simplifying welding skills training procedures, and saving on post-weld processing

- a. Fast welding speed, up to 10 times that of argon arc welding speed, can save 3 welding labor.
- b. Workers can complete from study to proficiency in half a day, without relying on manual skills;
- c. The machine is controlled under the ideal configuration system, allowing the width and depth of welded joints to be consistent, greatly improving the welding quality and saving the subsequent polishing process.

**2.3.4 Environmental protection:** When the traditional argon arc welding machine is welding, it is easy to produce dust splashing and form harmful gas, which is harmful to the environment and workers' bodies. However, Laser welding machine is almost zero damage to the environment.

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## Advantages

Laser welding machines

V/s

Traditional welding machine.

	Laser welding machine	Traditional welding machine
Operation Difficulty	Simple and easy to operate	High operational difficulty, requires certified professional welders
Weld Seam	Smooth and aesthetically pleasing weld seam, no need for secondary grinding	Weld seam prone to deformation, discoloration, and defects such as pores and sandholes, requiring secondary grinding
Welding Speed	Fast welding speed, 3-10 times faster than traditional welding machines	Slow welding speed, low work efficiency
Consumables	Welding protective lenses, gas, welding wire	Expensive welding rods (electrodes), welding protective gas, welding machine electrodes, auxiliary materials (such as welding flux, welding filler, etc.)
Environmental Impact	Reduces the generation of large amounts of smoke, fumes, and harmful substances during welding. Also reduces the production of bright arc light and intense ultraviolet radiation, thereby reducing harm to operators and lowering the occurrence of occupational diseases.	Generates bright arc light, intense ultraviolet radiation, and a large amount of smoke, fumes, etc., causing significant harm to welders. Protective measures are necessary during operation.

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## 2.3.5 Less consumables & long service life

<b>Copper nozzle</b>	1/2/3/4/5/6/7	5
<b>Protective lens</b>	D20*2	5









### 1) Copper nozzle

Photo	Type	Wire feeding	Welding type	Remarks
	AS-12	For wire feed 0.8mm/1.0mm/1.2mm	T weld, inside fillet weld, outside fillet weld	Cooper nozzle (free): 7 pics

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	BS-16	For wire feed 1.6mm	T weld, inside fillet weld, outside fillet weld	Normally 60 days/pic to replace  Recommended to purchase: 15 pics
	CS-12	For wire feed 0.8mm/1.0mm/1.2mm	Outside fillet weld, butt weld	
	ES-12	For wire feed 0.8mm/1.0mm/1.2mm	Outside fillet weld, thin sheet weld	
	FS-16	For wire feed 1.6mm	Outside fillet weld	
	C	No wire feeding	Outside fillet weld, butt weld	
	Cutting nozzle	No wire feeding	For cutting function	

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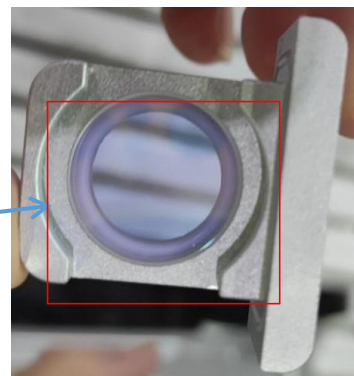
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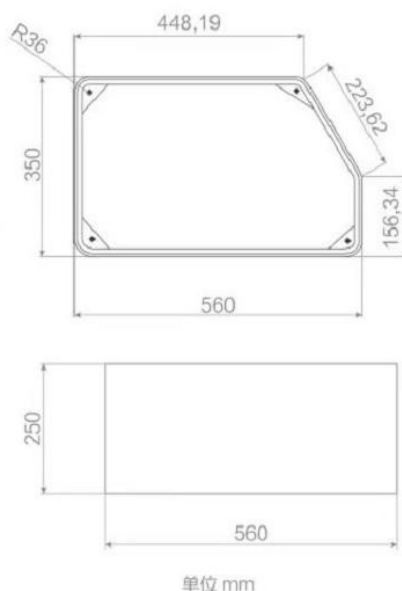
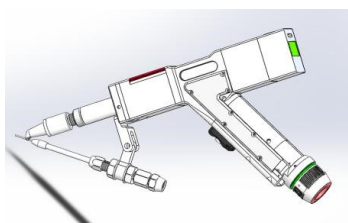


## 2) Protective lens



## 2.3.6 Equipped with Automatic Wire Feeder, Perfect Choice for Seam Welding

The system is controlled by microcomputer and driven by stepping reducer motor, with high precision and good repeatability.



<b>Power supply voltage (V)</b>	220+10%VAC50/60Hz
<b>Installation environment</b>	Flat, no vibration and shock
<b>Ambient temperature (°C)</b>	10~40

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<b>Environment humidity (%)</b>	<70
<b>Max. wire weight</b>	25KG
<b>Maximum support for wire feeding</b>	2.0mm
<b>Size</b>	560x250x350mm
<b>Feature</b>	Touch screen display, four-wheel double-drive wire feeding mechanism, wire feeding speed 25-600cm/min (adjustable), support continuous wire feeding mode and pulse wire feeding mode
<b>Application</b>	Automatic wire feeding for laser welding The mechanical arm automatically delivers wire Plasma automatic wire feeding Argon arc welding automatic wire feeding, etc
<b>Wire diameter</b>	0.8/1.0/1.2/1.6mm, 2.0/2.5mm(Customizable)

The weld line is smooth and beautiful, the welded workpiece is free of deformation and welding scar, the welding is firm, the subsequent grinding process is reduced, and the time and cost are saved.

1	Flat welding	500~600	3.0	350	0.8~1.0
2	Flat welding	600~700	3.0	350	1.2
3	Flat welding	700~1000	3.5	350	1.2~1.6
4	Flat welding	1000~1500	4.0	350	1.6
5	Flat welding	1600~2000	4.0	350	1.6~2.0

## 2.4 Configuration list

Configuration list				
NO.	Item	Quality	Unit	Spec.
1.	Laser machine	1	set	BWT
2.	Water chiller	1	set	S&A / Doluyo / Similar
3.	Laser welding joint	1	set	KOKO-TAWA
4.	Main cabinet	1	set	KOKO-TAWA

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5.	Wire feeder	1	set	KOKO-TAWA
6.	Nozzles	7	pcs	KOKO-TAWA
7.	Protective lens	4	pcs	KOKO-TAWA
8.	Protective glasses	1	set	KOKO-TAWA
10.	Laser welding joint's holder	1	set	KOKO-TAWA
11.	Power supply cable	1	set	KOKO-TAWA
12.	Gas pipe	1	set	KOKO-TAWA

## 2.5 Consumables

NO.	Item	Replacement period
1.	Nozzles	About 3-4 months
2.	Protective lens	3 months or as appropriate.
3.	Distilled water	one month
4.	Wire	Depending on customer usage

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