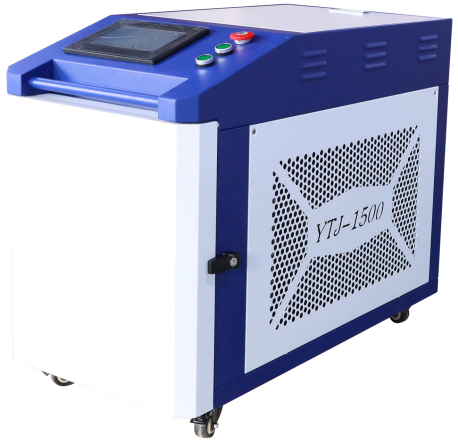


Protable 4 in 1
Laser Welding & Cleaning & Cutting Machine

Machine Display











4 IN 1 Function

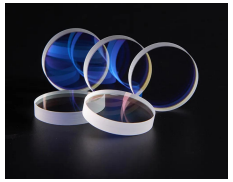

Welding


Cutting


Cleaning


Weld cleaning

Quotation

Option Parts				
Item	**Picture**	**Specification**		**Unit Price**
Nozzle		AS-12; BS-16; CS-12; ES-12; FS-16; Nozzle C; AS-20D; Cutting nozzle.		
Protect Lens		D18-T2		
Welding Wire		Stainless Steel	304SS OCR18NI9 *5kg (0.8/1.0/1.2/1.6/2mm)	
			308SS O6CR20N11 *5kg (0.8/1.0/1.2/1.6/2mm)	
		Carbon Steel	CS *5kg (0.8/1.0/1.2/1.6/2mm)	
		Aluminum	ER5356 *2kg (1.2/1.6/2mm)	
			ER5356 *7kg (1.2/1.6/2mm)	

Main Parameter

Laser Power	1500W	2000W	3000W
Laser Wavelength	1080±10nm		
Cooling Mode	Water Cooling (Smart Dual Temperature Chiller)		
Voltage	220V 1PH, 50/60Hz		380V 3PH, 50/60Hz
Machine Power	≤6KW	≤8KW	≤12KW
Feeding Wire	0.8/1.0/1.2/1.6/2.0mm		
Welding Gap Requirements	≤0.5mm		
Power Adjustable Range	10-100%		
Welding Speed	0-120mm/s		
Cleaning Area	≤20M²/h	≤30M²/h	≤50M²/h
Laser Source	Reci/Raycus/MAX		
Laser Head & Control System	SUP/Relfar/SKAI/Raytools		
Water Chiller	Hanli/S&A		
Fiber Cable Length	10m		
Working Ambient Temperature Range	-15 - 35 ℃		
Working Environment Humidity Range	< 70% No Condensation		
Packaging Dimension	1380*550*910mm/0.70cbm		1580*720*1000mm/1.14cbm
Packing Weight	120kg		210kg

Main Parts



01
Reci Laser Source

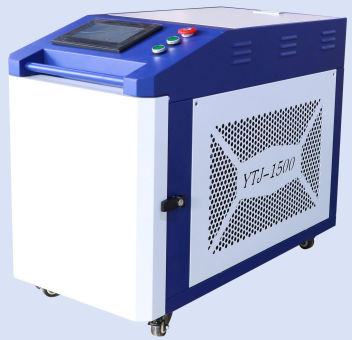
It has higher photoelectric conversion efficiency, better and more stable beam quality, stronger anti-high-reflection ability, and introduces an optimized second-generation optical fiber transmission system to ensure a more stable and precise cutting effect in thick plate cutting.



02
SUP21T Laser Head

1. Add a variety of protection measures to the control signal part;

2. Avoid potential safety hazards caused by misoperation, incorrect wiring or current interference.



03
Huaku Water Chiller

Automatically adjust the temperature according to different working environment, no need to change settings parameters. Reduce the temperature of the laser source and the laser head.



04
SUP Control System

Support continuous welding, spot welding, cleaning, cutting, passcleaning, automatic welding control, password authorization andother functions.Applicable for hand-held laser welding system,cleaning system,4-in-1 system, air cooling system, water coolingsystem,support nineteen languages.

Main Parts



05
Automatic Wire Feeder

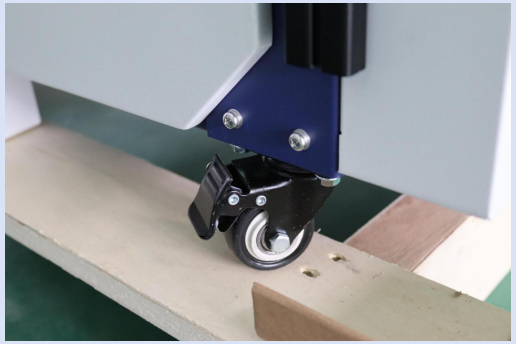
1. Touch screen display, four-wheel dual-drivewire feeding structure,feeding speed 15-600cm/min, continuously djustable,support continuous wire feeding mode and pulsewire deeding mode;

2. 0.8mm/1.0mm/1.2mm/1.6mm/2.0mm (can be customized)



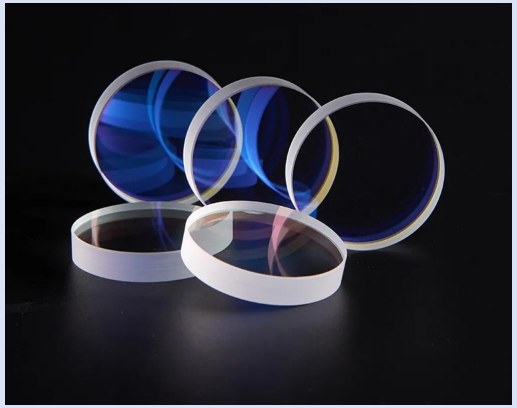
06
Nozzle & Graded Tube

High-quality welded copper nozzle, durable.



07
Moving Wheel

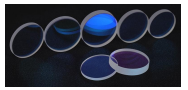
The machine is equipped with casters at the bottom, making it easy and effortless to move, and allowing for easy placement and adjustment of the equipment.



08
Protect Lens

Applicable for 1500-3000W, hightemperature resistance, laser resistance, double anti-reflection film.

Standard Packing List

NO.	Item	Specification	Unit	Quantity	Picture
1	Laser Source	2000w Reci	1	Set	
2	Optical Fiber	10m	1	Set	
3	Control System	SUP	1	Set	
4	Welding Gun				
5	Wire Feeder				
6	Nozzles	7 *Welding Nozzles + 1 *Cutting N+ 1 *Scale Tube	1	Set	
7	Lens	5 *Protective Lens + 1 *Focusing Lens	6	Pcs	
8	Water Chiller	Bulit in Machine Body	1	Set	
9	Goggles	Laser Safety Goggles	1	Pair	
10	Wire Feeding Tube	5m	1	Set	

Reference Welding Parameters

Welding parameters for carbon steel and galvanized sheet								
Material	**Thickness**	**Scan Speed**	**Scan Width**	**Power**	**Welding Wire Model**	**Welding Angle**	**Welding Situation**	**Wire feed Speed**
Carbon Steel	1	400	2.5	380	ER1.0	Flat fillet welding	90% penetration	80
Carbon Steel	1	400	2.5	380	ER1.0	Inner fillet welding	Slightly yellow	80
Carbon Steel	1	400	2.5	380	ER1.0	Outside fillet weld	70% penetration	90
Carbon Steel	0.5	400	2.5	220	ER0.8	Flat fillet welding	Penetration	100
Carbon Steel	0.5	400	2.5	220	ER0.8	Inner fillet welding	Slightly yellow	100
Carbon Steel	0.5	400	2.5	220	ER0.8	Outside fillet weld	Penetration	100
Carbon Steel	2	400	3	700	ER1.2	Flat fillet welding	Penetration	70
Carbon Steel	2	400	3	700	ER1.2	Inner fillet welding	White	70
Carbon Steel	2	400	3	700	ER1.2	Outside fillet weld	Penetration	60
Carbon Steel	3	400	3	1200	ER1.2	Flat fillet welding	Penetration	65
Carbon Steel	3	400	3	1200	ER1.2	Inner fillet welding	White	75
Carbon Steel	3	400	3	1200	ER1.2	Outside fillet weld	80% penetration	60
Carbon Steel	4	400	3.5	1500	ER1.6	Flat fillet welding	Penetration	60
Carbon Steel	4	400	3.5	1500	ER1.6	Inner fillet welding	Penetration	60
Carbon Steel	4	400	3.5	1500	ER1.6	Outside fillet weld	80% penetration	60
Carbon Steel	5	400	3.5	1700	ER1.6	Flat fillet welding	Penetration	60
Carbon Steel	5	400	3.5	1700	ER1.6	Inner fillet welding	Penetration	60
Carbon Steel	5	400	3.5	1700	ER1.6	Outside fillet weld	80% penetration	60
Carbon Steel	6	400	4	2000	ER1.6	Flat fillet welding	80% penetration	60
Carbon Steel	6	400	4	2000	ER1.6	Inner fillet welding	60% penetration	60
Carbon Steel	6	400	4	2000	ER1.6	Outside fillet weld	80% penetration	60
Carbon Steel	6	400	3.5	2200	ER1.6	Flat fillet welding	Penetration	60

Reference Welding Parameters

Carbon Steel	6	400	3.5	2500	ER1.6	Inner fillet welding	Penetration	60
Carbon Steel	7	400	3	2600	ER1.6	Flat fillet welding	Penetration	50
Carbon Steel	7	400	3	2800	ER1.6	Inner fillet welding	Penetration	50
Carbon Steel	8	400	3	3000	ER1.6	Flat fillet welding	Penetration	45
Carbon Steel	8	400	3	3000	ER1.6	Inner fillet welding	Penetration	45
Note: Affected by the zinc layer of the galvanized sheet, the power of the galvanized sheet can be appropriately reduced.								

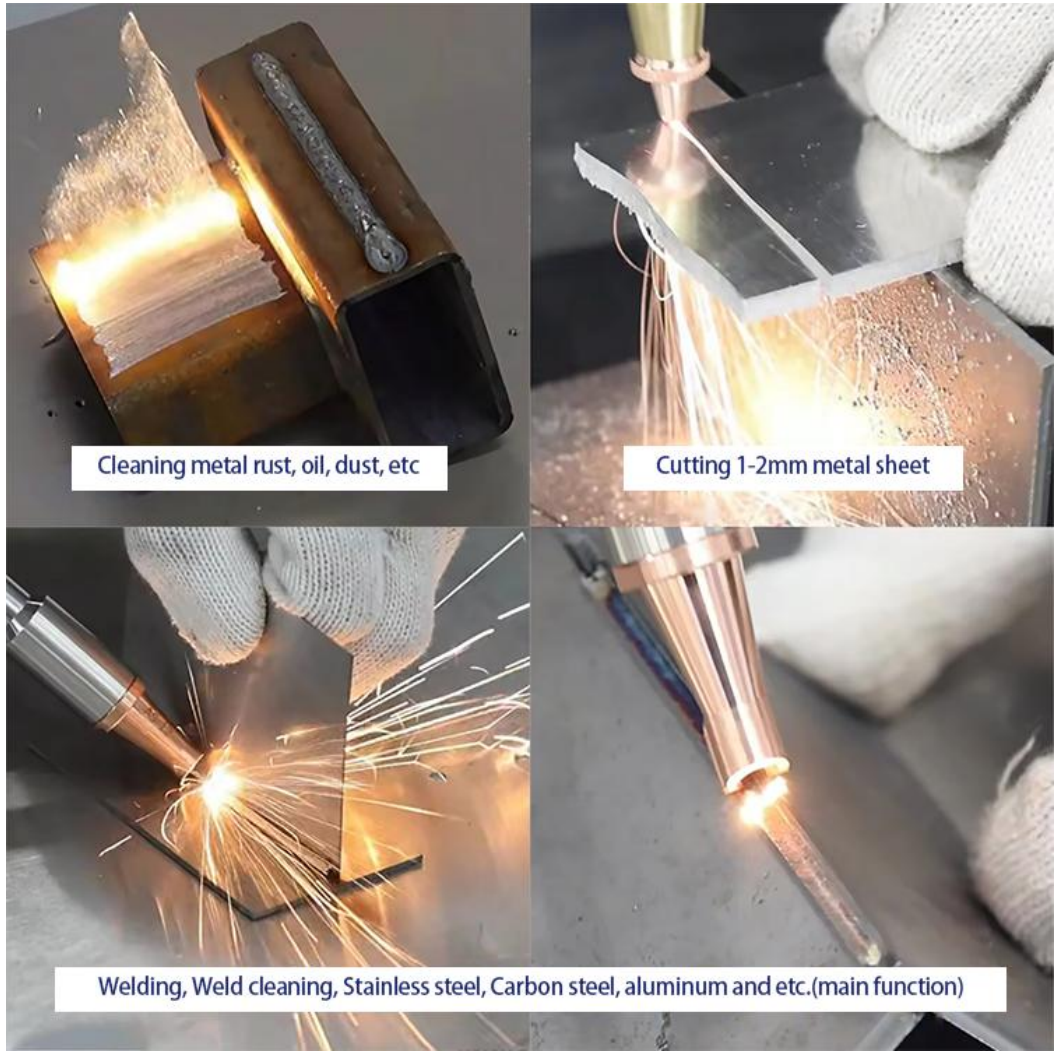


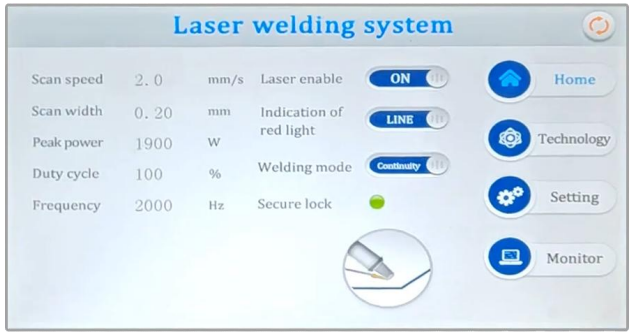
Reference Welding Parameters

Welding parameters for stainless steel and aluminium								
Material	**Thickness**	**Scan Speed**	**Scan Width**	**Power**	**Welding Wire Model**	**Welding Angle**	**Welding Situation**	**Wire feed Speed**
Stainless steel	1	400	2.5	250	ER304. 1.0		White	80
Stainless steel	1	400	2.5	320	ER304. 1.0		Multicolor	80
Stainless steel	1	400	2.5	350	ER304. 1.0		Multicolor	90
Stainless steel	2	400	2.5	600	ER304. 1.0	Flat fillet welding	Penetration	100
Stainless steel	2	400	2.5	450	ER304. 1.0	Flat fillet welding	Blue and white	100
Stainless steel	2	400	2.5	260	ER304. 1.0	Inner fillet welding	Golden yellow	100
Stainless steel	2	400	2.5	200	ER304. 1.0	Flat fillet welding	Slightly yellow	70
Stainless steel	3	400	3	550	ER304. 1.2	Flat fillet welding	Multicolor	70
Stainless steel	3	400	3	700	ER304. 1.2	Inner fillet welding	70% penetration	60
Stainless steel	3	400	3	800	ER304. 1.2	Flat fillet welding	Single-sided molding	65
Stainless steel	4	400	3	1000	ER304. 1.2	Flat fillet welding	Multicolor	75
Stainless steel	4	400	3	1200	ER304. 1.2	Inner fillet welding	70% penetration	60
Stainless steel	4	400	3	1500	ER304. 1.2	Flat fillet welding	Single-sided molding	60
Stainless steel	5	400	3	1500	ER304. 1.6	Inner fillet welding	Multicolor	60
Stainless steel	5	400	3	1500	ER304. 1.6	Flat fillet welding	50% penetration	60
Stainless steel	5	400	3	1700	ER304. 1.6	Outside fillet weld	80% penetration	60
Stainless steel	6	400	3	1500	ER304. 1.6	Flat fillet welding	50% penetration	60
Stainless steel	6	400	4	1700	ER304. 1.6	Outside fillet weld	Penetration	60
Stainless steel	6	400	5	1900	ER304. 1.6	Inner fillet welding	90% penetration	60

Note: The aluminum process refers to stainless steel process, the power can only be increased by 20%-30%. What's more, there are also differences in the focus, which need to be adjusted manually.

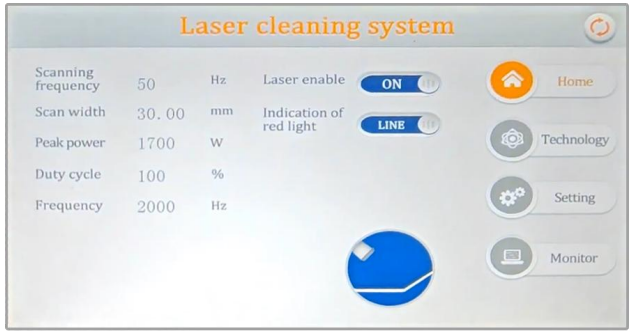
Application Cases





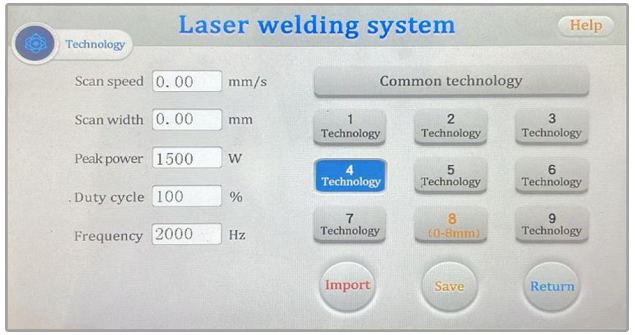


Welding Mode





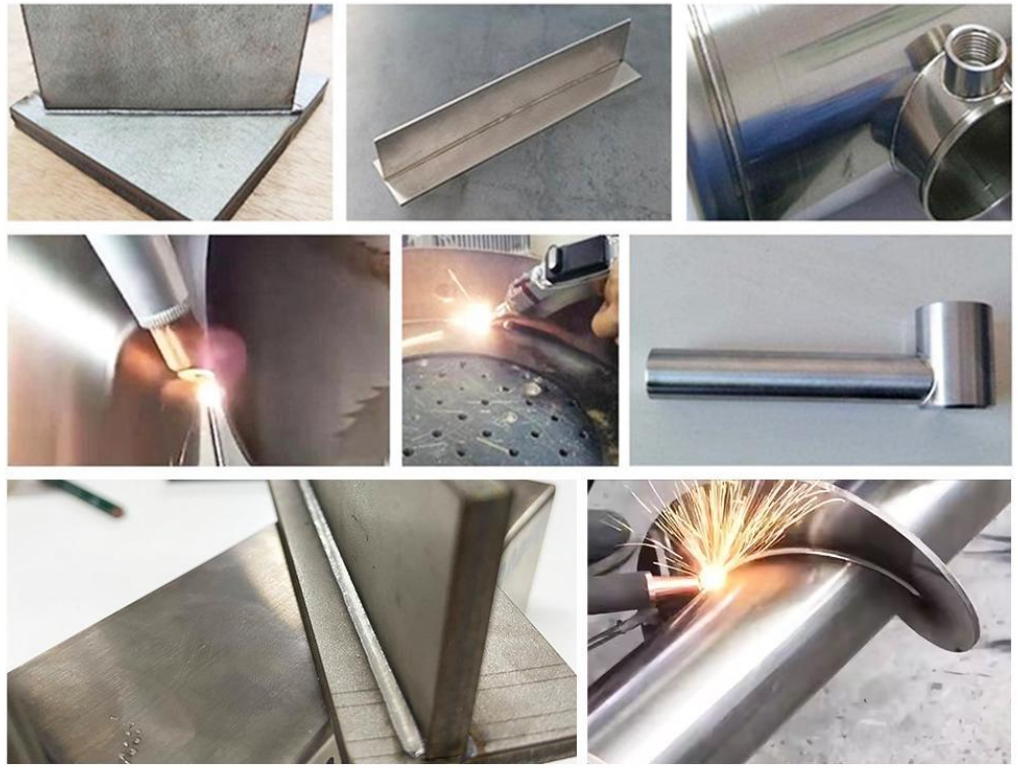
Cleaning Mode





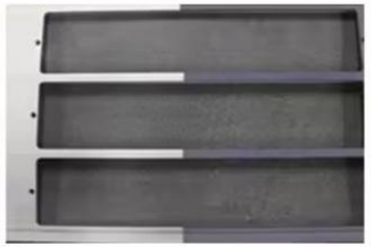
Cutting Mode

Application Cases





Precision rust removal



Coating cleaning



Tire cleaning



Cleaning oil



Cleaning paint



Rust removal of parts



Paint cleaning



Rust cleaning



Seam cleaning

After-Sales Service



Laser Source 3 years Warranty, whole machine 1 year Warranty

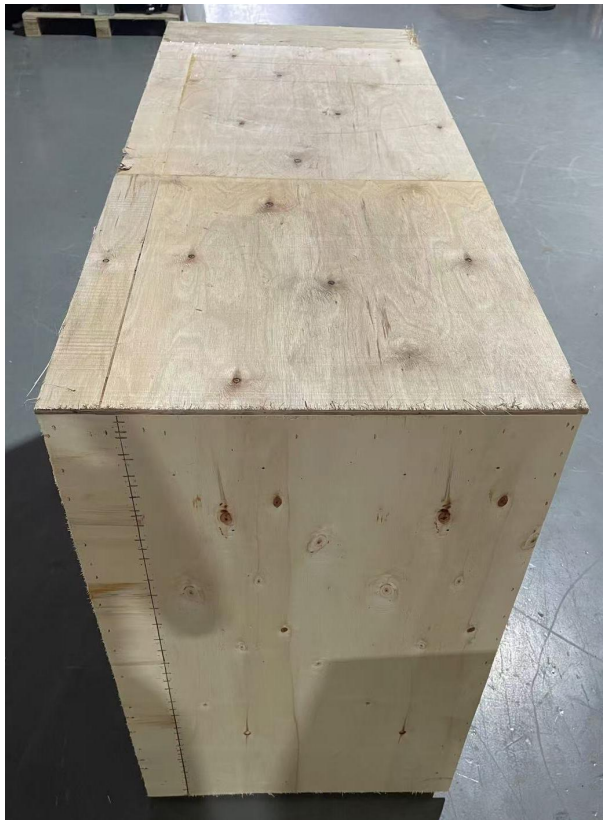
- If any quality problem within warranty time,once confirmed, we will send free parts, or start compensation negotiations.
- After the warranty period, we will offer the part at reasonable price.

Installation & Commission & Technical Training

- The company provides free online guide for Installation & Commission & Technical Training.
- If you have any technical issues, please contact us anytime. We will promptly arrange an after-sales engineer for one-on-one support.
- Training and location: online guide; If any on-site guidance from seller, all costs are borne by the buyer.

Packaging & Delivery







To ensure that you receive the machine in perfect condition and high quality:

The inner packaging uses shock-absorbing foam to prevent impact damage (the machine is secured with screws at the bottom), and the outer packaging uses export-standard, fumigation-free plywood wooden crates.