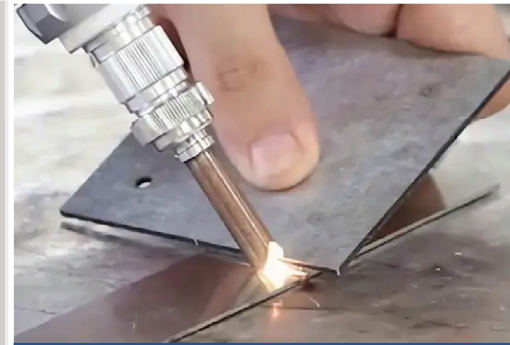


Water Cooling Laser Welding Machine

www.tsfuae.com.

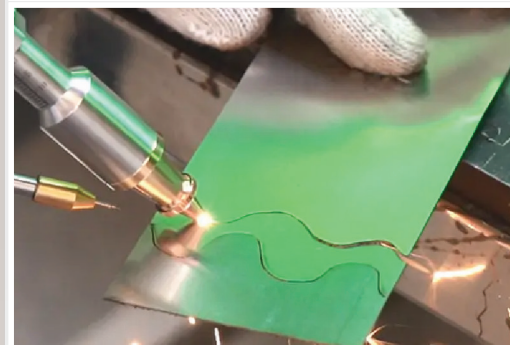
**MODEL NO.
LW-3000/30WW**



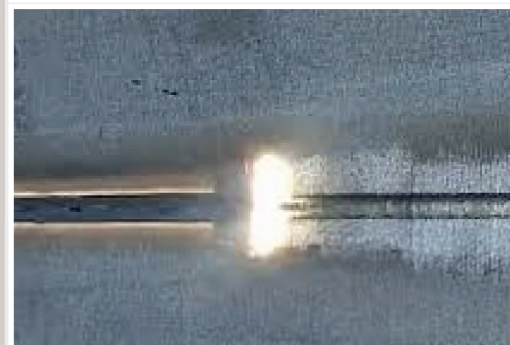
Laser Welding



Laser Cleaning



Laser Cutting

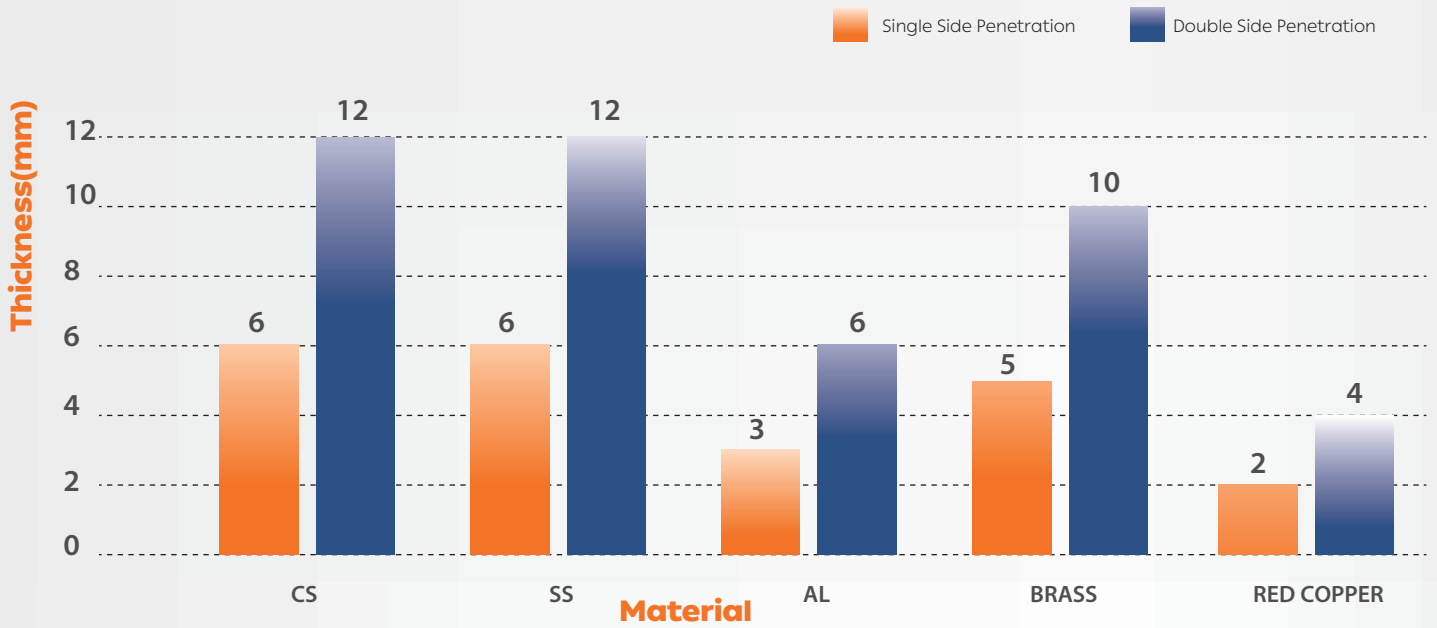


Seam Cleaning

Technical Parameters

MODEL	LW-3000W-30WW
LASER POWER	3000W
BRAND	Weldex
Laser wavelength	1070 ± 20 nm
Optical Fiber Interface	QBH
Collimation Focal Length	D20* F60
Focus Focal Length	D20* F150
Protective Lens Specification	D18*2
Swing Width	0-5 mm
Max. supported air pressure	0.6Mpa
Adjust Spot Light	dotted/line
Welding Material	Carbon Steel, Stainless Steel, Aluminum, Galvanized Steel
Cooling System	Water cooling
Supported Languages	18 kinds
Power Supply	220V/1- Phase/ 50Hz
Wire feeder	Auto double wire feeder
Overall Dimension	1050x595x805mm
Machine Weight	158kg
Wire Feeder Weight	20kg
Brand New	China

Welding Parameters



Cutting Parameters

METAL	THICKNESS (mm)	DUTY CYCLE	FREQUENCY	FOCUS (mm)	GAS	Pressure Mpa	Speed m/min
SS	1	100%	1000HZ	0	N2	0.4	4
	2	100%	1000HZ	0			3
	3	100%	1000HZ	-1.5			2
	4	100%	1000HZ	-2.0			1
CS	1	100%	1000HZ	0	O2	0.1-0.4	2.0
	2	100%	1000HZ	0			1.5
	3	100%	1000HZ	-1.5			1.0
	4	100%	1000HZ	-2.0			0.6
Alu	1	100%	1000HZ	0	N2	0.4	2
	2	100%	1000HZ	-1			1.5

Cleaning Parameters

POLLUTION	CLEANING WIDTH	CLEANING DEPTH	CLEANING EFFICIENCY
Light Rust	80mm	20µm	30cube/hour
Paint	80mm	100µm	14cube/hour
Rust	80mm	120µm	9cube/hour

Technical Configurations

	COMPONENT	DESCRIPTION	BRAND/ORIGIN
	3000W MAXPHOTONICS LASER SOURCE	100,000 hours life time more stable and cost-efficient maintenance free. Mainly used in metal welding and cladding and other fields such as new energy, 3C, precision machining.	
	RAYTOOLS LASER CLEANING HEAD	Easy to use and high efficiency. Protect modules for calibration and focus lens. Drawer-type of lens mount, quick and easy use	
	RAYTOOLS LASER WELDING HEAD	Easy to use and high efficiency Protect modules for calibration and focus lens. Drawer-type of lens mount, quick and easy use	
	RAYTOOLS LASER CUTTING HEAD	Easy to use and high efficiency. Protect modules for calibration and focus lens. Drawer-type of lens mount, quick and easy use	
	RAYTOOLS CONTROL SYSTEM	Integrated file read, design, processing and output control as a whole. Software provides extensive laser cutting process parameters.	
	INTELLIGENT OPERATING SYSTEM	Adopt touch screen design, easy and quick to click and set, with real time fault reading, feedback and alarm functions. There is a process parameter library, which can realize the rapid storage and recall of cleaning process parameter. Remote controller at the welder side for multi-parameters adjustment, save time and effort, easy to operate	
	WATER CHILLER	Water chiller is a Dual Cooling function of cutting machine's water system adopts double temperature water chiller, one is cooling laser and the other is cooling cutting head	

Machine Accessories



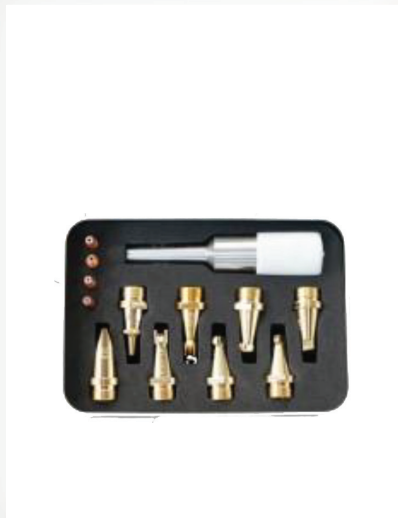
Auto double wire feeder



Raytools Laser Head



Max Laser Source



Nozzles & Other Accessories



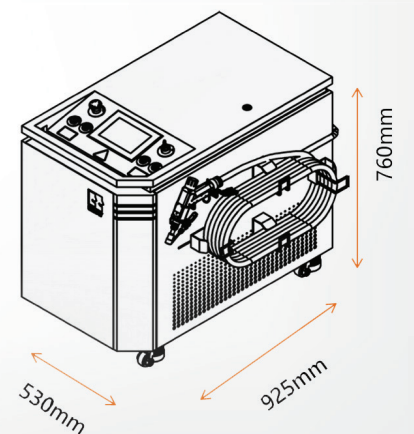
Raytools Control System



Silent Wheels

Machine Size

Small size, light weight, high integration, easy to use, convenient and efficient operation, can complete welding work in multiple scenarios



Optional Accessories



Smoke Purifier



Transformer



Protective Glasses



Customized fiber
laser cable

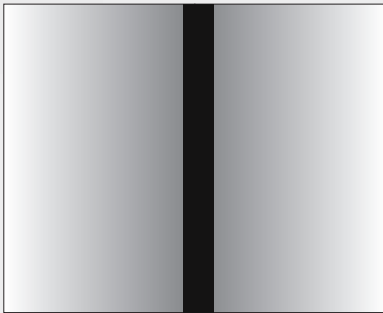


Structure of the machine

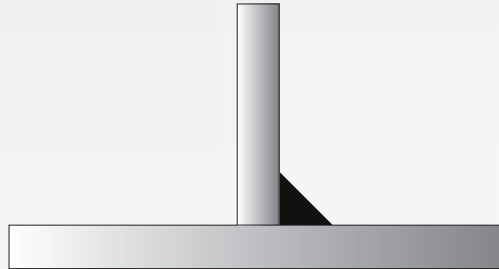
The water level gauge is exposed on the right side of the machine to detect water level changes in the water chilller in real time.

The water cooler display is located at the back of the machine, external, and can detect parameter changes at any time.

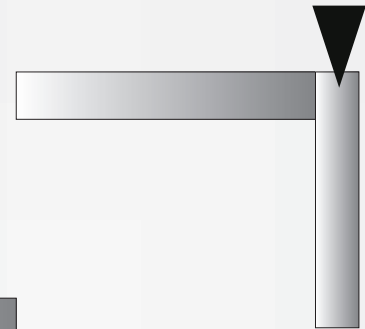
Material welding type



Splice welding



Vertical welding



Flat fillet welding

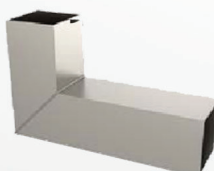
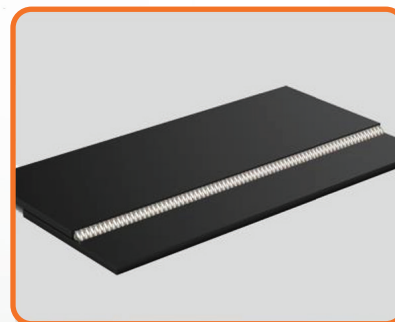
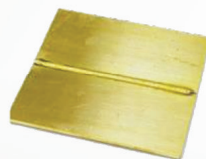
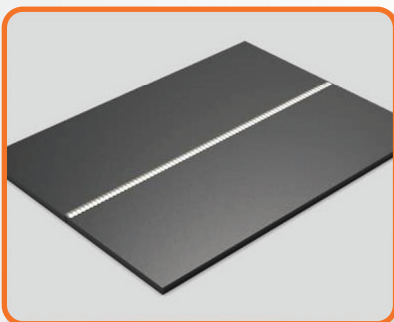
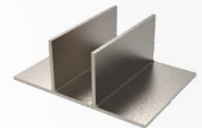
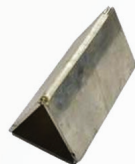
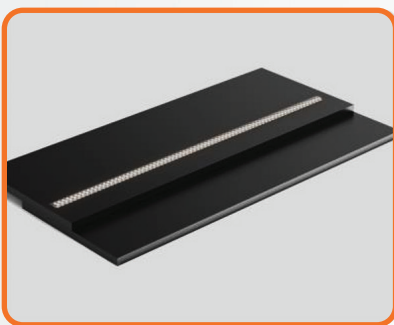


Splice welding



Lap welding

Sample



Industry Application



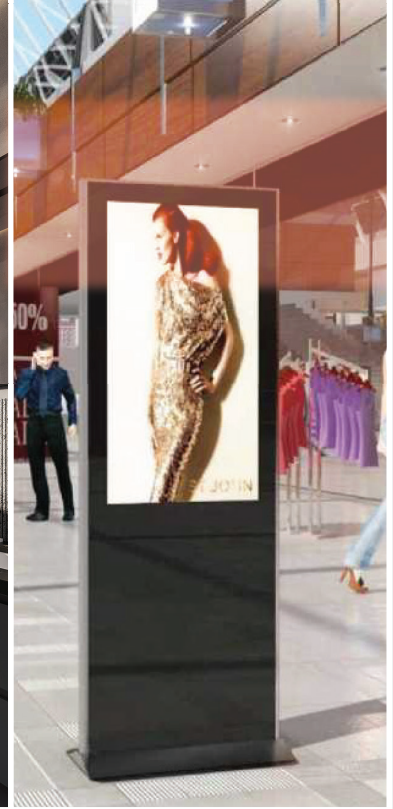
Kitchenware Industry



The bathroom Industry



Automotive Industry



Advertising Industry

DELIVERY & INSTALLATION

1. Delivery at your site within UAE
2. Training & Installation by our skilled Engineers at your site

AFTER SALES SERVICE

1. Two years warranty (One-year spare parts & 2nd year free Service).
Except for consumable items e.g Nozzle, Lens etc.
2. Complaint will be solved within 12 working hours, by our in-house skilled Engineers.