



# SOLDADURA LÁSER

**POWER**  
**YOUR NEXT MOVE!**



# S SERIES

WATER-COOLED HANDHELD LASER  
WELDING

Note: The appearance of the pictures in this solution is for reference only, and the actual equipment shall prevail.



**High efficiency** | **High Quality** | **High Safety** | **High integration**



## Technical Parameter

S SERIES	S 15	S 20	S 30
Laser power (Unit: W)	1500	2000	3000
Fiber length (Unit: m)	10	10	10
Fiber diameter (Unit: $\mu\text{m}$ )	25	25	50
Cooling method	water cooling	water cooling	water cooling
Wire feeding speed range (Unit: cm/min)	15-600	15-600	15-600
Wire feeding tube length (Unit: m)	5	5	5
Wire feeding diameter (Unit: mm)	0.8/1.0/1.2/1.6/2.0	0.8/1.0/1.2/1.6/2.0	0.8/1.0/1.2/1.6/2.0
Standard cleaning width (Unit: mm)	30	30	30
Rated power supply voltage (Unit: V)	220	220	380
Frequency (Unit: Hz)	50	50	50
Power consumption (Unit: KW)	8	9	14
Host size (Length * Width * Height, Unit: mm)	1100*610*1000	1100*610*1000	1300*610*1000
Wire feeder size (Unit: mm)	560*250*350	560*250*350	560*250*350
Host weight (Unit: kg)	146	151	185
Wire feeder weight (Unit: kg)	13.2	13.2	13.2

Note: The data in this table are standard configuration technical parameters, and can also be customized according to the technical requirements.

# Configuration List

Order number	Project	Brand / specification
1	System	QLTEK
2	Laser source	S15、S20、S30: Raycus
3	Welding head	SUPLASERCUT
4	Wire feeder	SUPLASERCUT
5	Water chiller	HanLi

# Cleaning Performance

Model	S15	S20	S30
Cleaning Efficiency	4cm²/s	6cm²/s	10cm²/s
Applicable scenarios	Removing paint, rust, oil stains, welding fumes, etc.		

# Welding Parameters

Material / Auxiliary Gas	Thickness (mm)	S15	S20	S30
Aluminum (nitrogen and argon welding)	1.0	✓	✓	✓
	1.5	✓	✓	✓
	2.0	✓	✓	✓
	2.5	✓	✓	✓
	3.0	✓	✓	✓
	4.0		✓	✓
	5.0			✓
	6.0			✓
	7.0			✓
Stainless steel (nitrogen and argon welding)	0.8	✓	✓	✓
	1.0	✓	✓	✓
	1.5	✓	✓	✓
	2.0	✓	✓	✓
	2.5	✓	✓	✓
	3.0	✓	✓	✓
	4.0	✓	✓	✓
	5.0		✓	✓
	6.0			✓
	7.0			✓
	8.0			✓

Note: The filled color code in the data sheet indicates the limit cutting speed, and batch use is not recommended.

# Welding Parameters

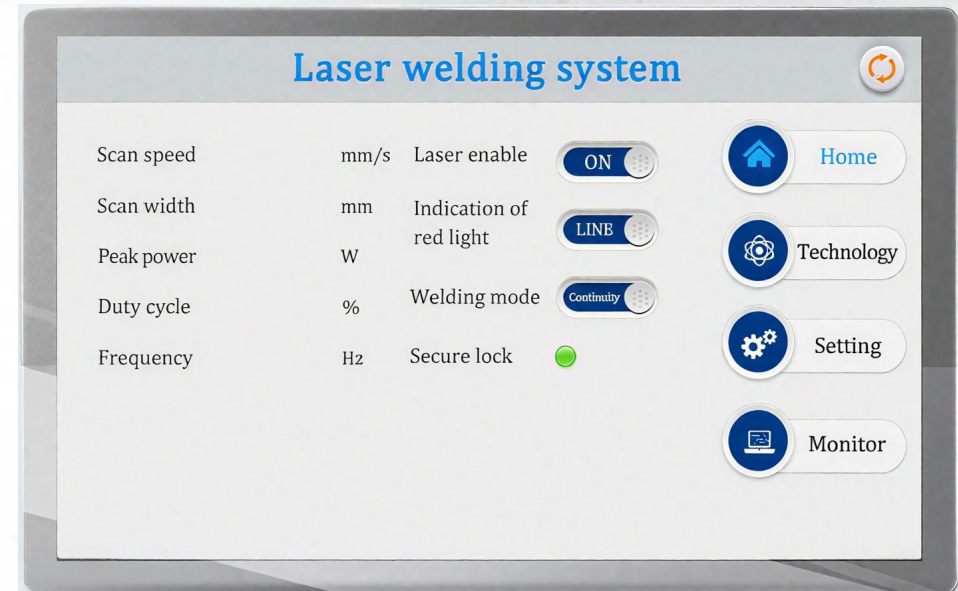
Material / Auxiliary Gas	Thickness (mm)	S15	S20	S30
Carbon steel (nitrogen and argon welding)	0.8	✓	✓	✓
	1.0	✓	✓	✓
	1.5	✓	✓	✓
	2.0	✓	✓	✓
	2.5	✓	✓	✓
	3.0	✓	✓	✓
	4.0	✓	✓	✓
	5.0		✓	✓
	6.0			✓
	7.0			✓
	8.0			✓
Galvanized steel (nitrogen and argon welding)	0.8	✓	✓	✓
	1.0	✓	✓	✓
	1.5	✓	✓	✓
	2.0	✓	✓	✓
	2.5	✓	✓	✓
	3.0	✓	✓	✓
	4.0		✓	✓
	5.0			✓
	6.0			✓
	7.0			✓

Note: The filled color code in the data sheet indicates the limit cutting speed, and batch use is not recommended.

## Welding System

Powerful functions, technological innovation

- Three - in - one function: Integrates the three core functions of welding, cutting and cleaning.
- Self - developed process library: Built - in process libraries for welding various materials, which can be quickly retrieved and used.





## Handheld Welding Head

Comfortable to operate, safe and reliable

- The welding torch is designed in line with ergonomics, and it is easy and comfortable to operate.
- It has functions such as temperature monitoring and grounding protection, making the product safe and reliable.



## Fiber Laser

Ingenious craftsmanship, high - quality weld seams

- Adopt domestic first - tier brand lasers, featuring high power, deep penetration welding and excellent quality.
- It can weld various metal materials, especially for medium - thick plate welding and supports multiple processes such as single wire feeding, double wire feeding, and triple wire feeding.



## Water Cooling System

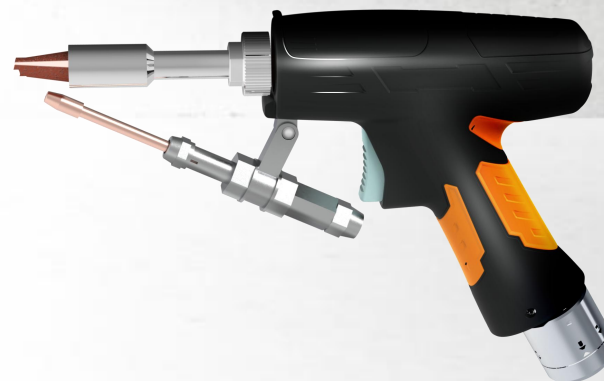
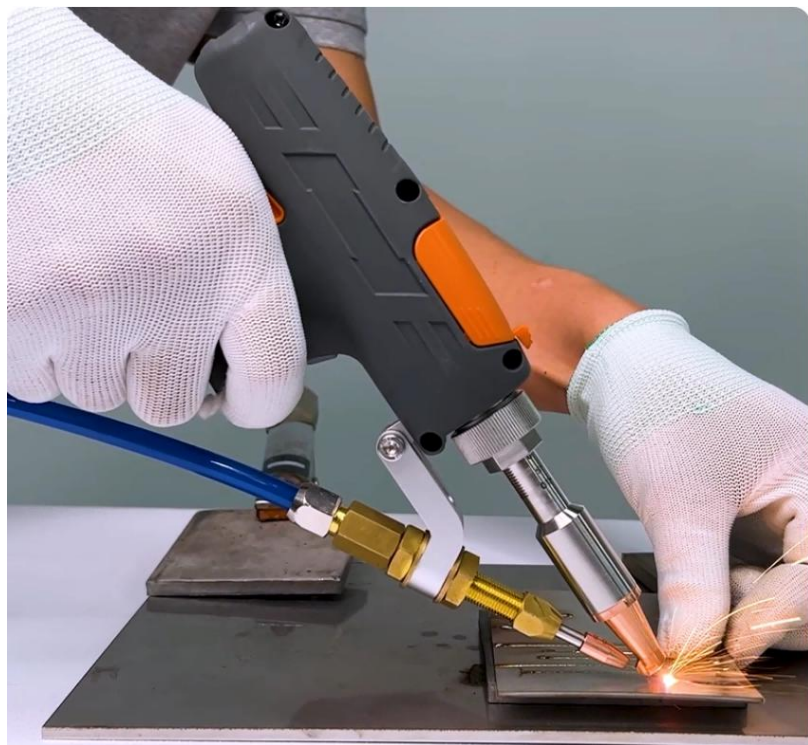
Diverse scenarios, intelligent and efficient

- Equipped with a built-in dual-temperature and dual-control chiller, it cools core components such as the laser and welding head to ensure that the equipment can operate continuously for a long time in extreme environments.



## Three-in-one function

(Welding function, standard configuration)



Welding function; the right figure shows the related accessories

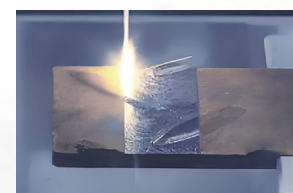


# Sample

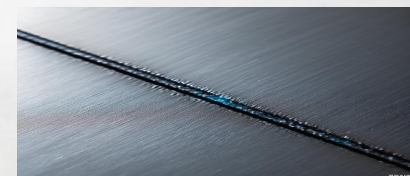
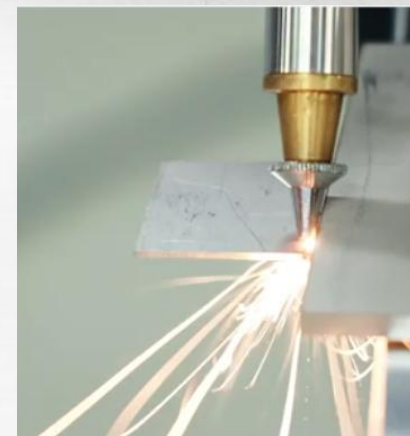
Welding the Sample



Cleaning the Sample



Cutting the Sample





**400,000**

400,000+m<sup>2</sup> Production Area



**1,500**

1,500+ Employees



**8,000**

8,000+ Sales volume

## About Us

QUICK LASER was established in 2009 with a registered capital of approximately 8.8 million USD. The company employs over 1,500 people and operates out of two major bases in Suzhou and Nantong. The Suzhou base spans 50,000 square meters, while the Nantong base occupies 350,000 square meters. QUICK LASER remains committed to the high-end positioning in the industry, focusing on the research, development, production, sales, and service of laser and intelligent equipment. The company's scale, R&D prowess, and growth rate place it at the forefront of its industry.

Driven by research, development, and innovation, QUICK LASER provides a comprehensive range of intelligent equipment production lines and all-round laser application solutions for the global manufacturing industry. Our offerings include laser cutting machines, tube laser cutting machines, laser welding machines, semiconductor equipment, and new energy battery production lines. Our primary products have earned EU CE and US FDA certifications and have been exported to over 50 countries and regions worldwide. Innovations like the hollow high-power and zero-waste three-chuck tube cutting machines are first-of-their-kind in China and are leading on a global scale.







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