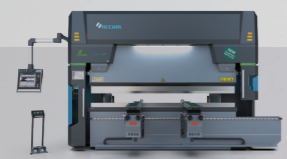
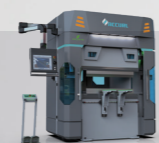
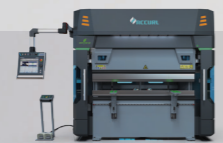


ACCURL PRODUCT RANGE:

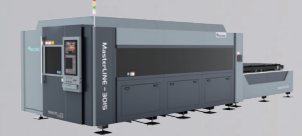
EUROMASTER
Medium sizes



EB ULTRA
SMALL sizes



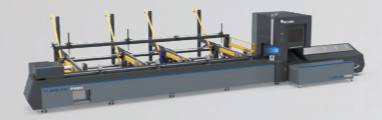
MASTERLINE
ALL sizes



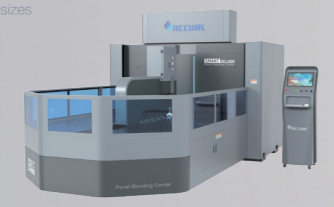
SMARTLINE
ALL sizes



TUBELINE
ALL sizes



SMART BEC
Medium sizes



HANDHELD LASER
WELDING TECHNOLOGY



Laser Welding Machine
▶▶ NEXT

Shaping your future



ACCURL MACHINE TOOLS
ANHUI | CHINA

Industrial Park in Bowang Special
Economic Zone Maanshan
Anhui | China

T | +86 0555 2780563
M | +86-188 5555 1088
E | info@accurl.com

ACCURL.com

LOCAL DEALER\

HANDHELD LASER WELDING TECHNOLOGY

Easy to & Operate
Simple & Fast to Set up
Consistent High-Quality Results

HANDHELD LASER WELDING TECHNOLOGY

ACCURL® SMART HLW Handheld fiber laser welding machine has the best fiber laser beam for fast welding speed, high quality weld seam and no consumables.



PERSONAL SAFETY PROTECTION

ACCURL's overall design pays more attention to the safety of operators, and the product design conforms to EU and international safety standards. Multiple safety protection functions has a higher safety protection:



Handheld Laser welding technology

LASER SAFETY

The laser output is 1070nm which belongs to invisible class IV laser. During the working of laser, it requires to carry out the whole body protection.

REVOLUTIONIZING THE WELDING INDUSTRY

- The Laser welding power up to 3000 W is easily adjusted with intuitive controls to quickly dial in optimum weld settings for various materials and thicknesses. With up to 74 stored preset and user-defined process parameters, novice welders can be trained and welding in a matter of hours.
- Handheld fiber laser welding machine has the best fiber laser beam for fast welding speed, high quality weld seam and no consumables.



INTERNATIONAL SAFETY STANDARDS

EMC Test Standard	
EN55011:	2009 + A1: 2010
CISPR 11:	2015

Electrical safety standard	
EN 61010-1:	2010

EMC Immunity Standard	
IEC 6132601:	2012
EN61326-1:	2013

Laser safety standard	
EN68025-1:	2014
CDRH 21 CFR 1040.10	



HANDHELD LASER WELDING TECHNOLOGY

SMART HLW handheld laser welding and cleaning systems are fast, easy to learn and operate, and produce high quality, consistent results across a wide range of materials and thicknesses. Pre-weld and post-weld laser cleaning functionality optimizes weld quality while increasing productivity.



LASER WELDING

The High speed, low heat input, and a small HAZ make laser welding thick, thin, reflective materials, and materials with dissimilar thicknesses far less challenging for all skill levels

ADVANTAGES & BENEFITS

SMART HLW enables dramatically faster welding & is easier to learn and operate than MIG or TIG. HLW provides higher-quality, consistent results with minimal distortion or part deformation.

LASER PRE-CLEANING

The Pre-weld cleaning removes rust and other contaminants from materials and increases weld quality. This is much faster than manual cleaning and uses no chemicals or abrasives.

BENEFITS

- Low heat input for minimal part distortion or deformation
- Built-in factory presets for all materials and thicknesses
- High-speed welding across a wide range of materials and thicknesses

	Traditional Systems	SMART HLW Systems
Speed	Average	Fast - Over 4X Faster than TIG
Quality	Depends on user experience	Consistent high-quality results
Learning curve	Steep	Quick and easy
Part Setup	Critical and time consuming	Minimal and fast
Material flexibility	Limited with consumables changes	Wide range with no set up
Heat affected zone	Large	Small
Distortion & Deformation	High	Very Low
Wobble welding	No	Yes - up to 5 mm
Pre-Weld Cleaning	No	Yes - Removes rust, oxides, oil & grease
Post-weld Polishing	No	YES- Removes soot, debris & discoloration

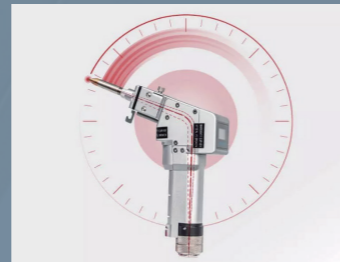
Material	SMART HLW-1000	SMART HLW-1500	SMART HLW-2000
Stainless Steel	up to 2.5 mm	up to 4 mm	up to 6.35 mm
Galvanized Steel	up to 2.5 mm	up to 4 mm	up to 6.35 mm
Mild Steel	up to 2.5 mm	up to 4 mm	up to 6.35 mm
Aluminum 3 & 5 Series	up to 2.5 mm	up to 4 mm	up to 6.35 mm
Nickel Alloys	up to 1.5 mm	up to 4 mm	up to 5 mm
Titanium	Large	Large	Large
Copper	High	High	High

LASER WELDING SOLUTIONS

The ACCURL laser welding machine is equipped with a modern welding head with a moving beam and a swinging electrical system. It has a patented mechanism to drive the focusing lens, allowing you to automatically change its position, thereby changing the width of the beam.

VERSATILE WITH ALL WELDING MODES

- It can be equipped with nozzles of various angles to meet the welding requirements of various products.
- Operators can instantly switch between presets to accommodate many material thickness combinations.



LASER WELDING IS EASY TO OPERATE

- Compared with traditional welding machines, 0 experienced operators can work on duty for one day of practice.
- Built-in parameters ensure high-quality results.
- Create highly aesthetic seams and weld parts with poor fit up.
- Simple controls allow new welders to be trained within hours & experienced welders realize an immediate increase in productivity.



ACCURL EASYWIRE AUTOMATIC WIRE FEEDER

ACCURL is equipped with a fully automatic wire feeder and is integrated with welding software. The system allows you to work at a thickness of 0.8-1.6mm in "push" or "pull" mode.

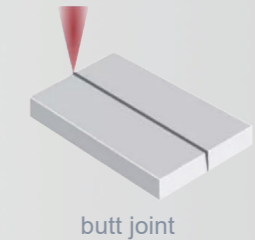
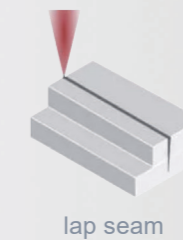
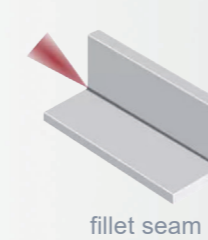
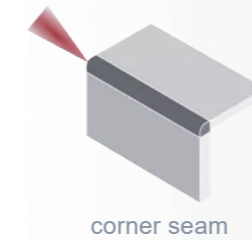


VERSATILE WITH ALL WELDING MODES

It can be equipped with nozzles of various angles to meet the welding requirements of various products.

LASER PROCESSING TOOLS

SMART HLW handheld laser welding and cleaning systems are fast, easy to learn and operate, and produce high quality, consistent results across a wide range of materials and thicknesses. Pre-weld and post-weld laser cleaning functionality optimizes weld quality while increasing productivity. changing the width of the beam.



PARAMETERS

MODEL NUMBER	SMART - HW
Conduction type	fiber
Wavelength	1080nm
Laser Power	1000W / 1500W / 2000W
Frequency	20-5KHz
welding head weight	Approximately 760g
Output focal length	120mm
Cooling method	Water cooling
Fiber length	5M/10M/15M
Port	1 way gas
Power consumption	≤6KW
welding wire model	0.8-1.6mm
Air pressure requirement	4-6Bar (Select nitrogen,argon or compressed air according to process requirements.)
Electricity demand	1KW/1.5KW-AC220V/50/60Hz

SIMPLE INSTALLATION AND OPERATION

The Clearly labeled rear connections make getting started fast and easy. Just plug in the power cord and gas connection, attach the workpiece clamp, and the system is ready to go.



220 V Power



Standard Gas



Workpiece Clamp

ELEVATE YOUR PERFORMANCE IN 2D LASER CUTTING

High axes speeds and acceleration paired with a rigid mechanical structure to achieve excellent cutting performance and accuracy.

100% FULLY-ELECTRIC SERVO TECHNOLOGY

The synchro servo-electric system offers an effective profitability increase, more user-friendly, precision and comfort.



INDUSTRY

EB ULTRA SERVO-ELECTRIC SYNCHRONIZATION

ACCURL eB Ultra model is fully electric. It uses the SYNCHRO technology to control two servo-electric axes in bending control, thus being able to compensate Y1 and Y2 axes independently.

MASTERLINE TECHNOLOGY AND PRECISION MORE ACCESSIBLE

Using all the technology SmartLINE, MasterLINE combines quality performance and accuracy at a competitive price.