

AKSON

ARCBRO Laser Welding & Cutting &
Cleaning Systems



ARCBRO[®]

■ Laser welding, cutting and cleaning machine

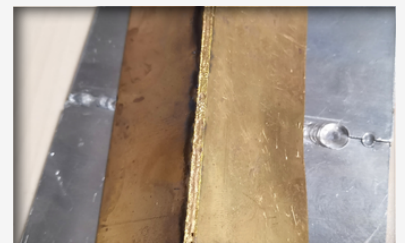
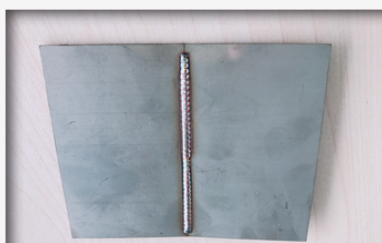
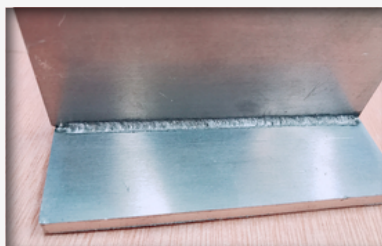
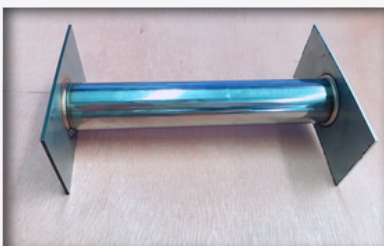
Lightweight portable handheld laser welding machine, using an integrated fiber laser, equipped with Kirin double pendulum welding head, has multiple advantages such as simple operation, beautiful welding seam, fast welding speed, small size and convenient transportation.



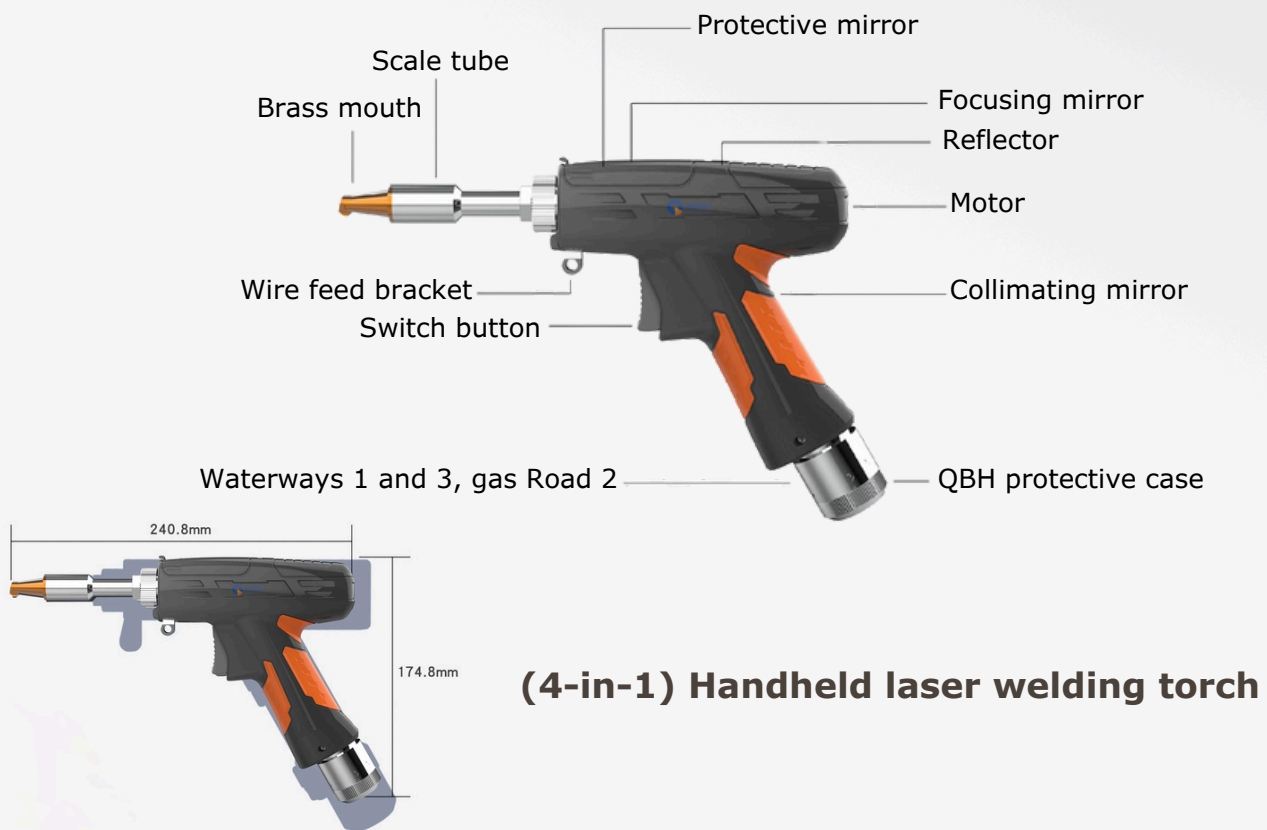
SUP's powerful handheld laser welding head covers a handheld welding torch and a self-developed control system. It uses ST high-speed processors and sets multiple safety alarms and active safety power-off and light-off settings. This product is compatible with various brands of fiber lasers; the optimized optics and water-cooled design enable the laser head to work stably for a long time.

Simple and easy to operate, no deformation of the welding seam; stable laser output to ensure welding consistency; high power density after laser focusing; fast speed, great depth and small deformation; 360-degree micro-welding.

Breaking through the limitations of the original workbench, it is suitable for all kinds of complex welding seams, and it is easy to weld any part of the workpiece at any angle. The humanized design and technology upgrade can weld beautiful welding seams.



Detail Presentation

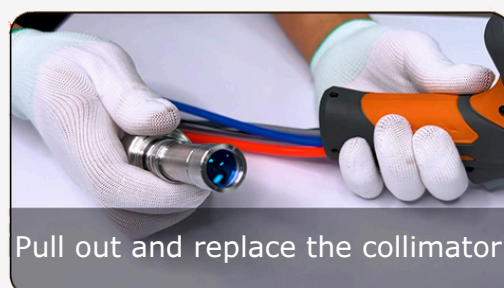


Handheld Laser Welding Torch Feature

- Multi-point temperature measurement, real-time monitoring
- Dustproof, anti-falling, anti-jamming
- Efficient and Convenient: Focusing mirror/protective mirror drawer, easy to replace. The collimator and QBH are integrated for easy field replacement.



Focus mirror/protective mirror replacement



Collimator replacement

Multiple Function



Laser Welding



Laser Cutting



Laser Cleaning

Features and Advantages

- Welding speed is fast, 2-3 times faster than traditional welding
- Welding consumables are less, long life, safer and environmental protection
- Smooth and beautiful weld, without secondary treatment, saving time and cost
- Welding workpiece has little thermal influence and no deformation

Better Weld Forming

Swing the laser head, the beam can be adjusted 0.5-6mm, which makes up for the disadvantage of a small spot of laser welding, expands the tolerance range and weld width of processing parts, and obtains better weld forming.



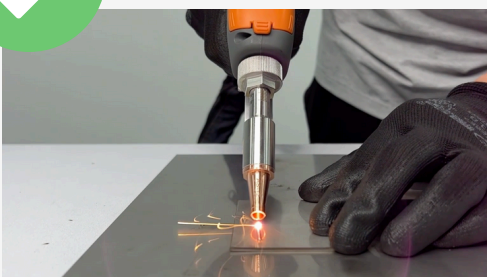
TIG Welding

TIG welding can generate extreme heat that deforms thin materials. Welding copper is difficult and welding metals of dissimilar thicknesses is limited. And it's a highly skilled process, and experienced TIG welders are a scarce resource.



MIG Welding

MIG welding requires consumable wire, material pre-cleaning, and beveled joints for full penetration of thick metals. And the welded aluminum plate joint is not beautiful enough, requiring subsequent grinding and polishing. MIG welding Travel and work angles are limited, and vertical positions are extremely challenging. MIG is a high-heat process that can cause part deformation.



Akson systems are easier to learn and operate. and are 3X faster than TIG welding. The low heat input and extensive material and thickness capabilities increase productivity, and improve weld quality for operators of all skill levels. In addition to welding, Akson offer laser cleaning capability and laser cutting capacity. Cut the desired shape, pre-weld cleaning remove oxides, rust, paint, oil, or grease from surfaces to be welded. Post-weld cleaning removes soot and weld-related debris.

SPECIFICATIONS

| Product Type | Laser Welding | | |
|---------------------------------------|---|--------------|---------------|
| Model | Akson-1500 | Akson-2000 | Akson-3000 |
| Laser power | 1500W | 2000W | 3000W |
| Working voltage | 220V/380V | | |
| Laser wavelength | 1070±20 | 1080nm | 1080nm |
| Conduction type | Fiber laser | | |
| Welding speed range | 0~120mm/s | | |
| Water chiller | Industrial constant temperature water tank | | |
| Working environment temperature range | 10 □40°C | | |
| Humidity range of working environment | <70% No condensation | | |
| Welding ability | Stainless steel 6mm/Carbon steel 6mm/Aluminum 4mm | | |
| Welding seam requirements | ≤0.5mm | | |
| Machine size(mm) | 860*390*620 | 1050*480*845 | 1213*606*1239 |
| Weight(kg) | 80 | 85 | 110 |

ARCBRO SUPPORT

ARCBRO LEARN CAMPUS

Learn the machines before you get them.

Make the work simple! View ARCBRO learn campus online to learn the machines before you get them. ARCBRO learn campus is a online CNC plasma cutting training program in the industry. It takes our customers through a series of knowledgeable and concise videos and files to give them in-depth training and technical instruction. These videos will take even your newest operator to an expert level in no time. They were formulated with our customers at the forefront of our minds, which has transcended into fast and effective training for many different markets, such as: education, metal art, custom automotive part fabrication, and many others. Link: <https://www.arcbro.com/learning-campus/>



ARCBRO TROUBLESHOOTING


You can buy any arcbro product without any hassle!


All our products have a precise and reliable manufacturing quality inspection system. In addition, all products have a one-and-a-half year warranty and are accompanied by the best after-sales protection system in China. Multilingual professional engineers perform online machine diagnostics in 24 hours. We bear the cost of any parts failure or damage during the warranty period and you only need to pay the shipping cost.

In addition, you can easily find all the after-sales solutions you may need on our official website. We have organized the questions that customers have asked us when using the machine for many years, and gave answers in detailed but easy to understand words to help you solve the problem as quickly as possible.

Want to know more, just browse our official website, click support, enter Arcbro troubleshooting system. Link: <https://www.arcbro.com/troubleshooting/>

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