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HUBEI BUVA LASER

Hubei Buva Technology Co . , Ltd.

Laser Welding | Laser-Arc Hybrid Welding | All-in-One Laser Soldering System | Laser Cutting | Laser Cladding & Hardening | Laser Cleaning | Laser Marking

Company Profile

Hubei Buva Technology Co., Ltd., based in Wuhan Optics Valley, China, is a high-tech enterprise specializing in R&D, production, and sales of laser engineering equipment.

We provide customized and cost-effective laser solutions, with products covering laser cladding, laser-arc hybrid welding, handheld laser welding, integrated laser soldering, cutting, cleaning, and marking systems.

Supported by advanced expertise and a strategic partnership with Wuhan University of Technology, we focus on developing practical applications in laser welding and additive manufacturing.

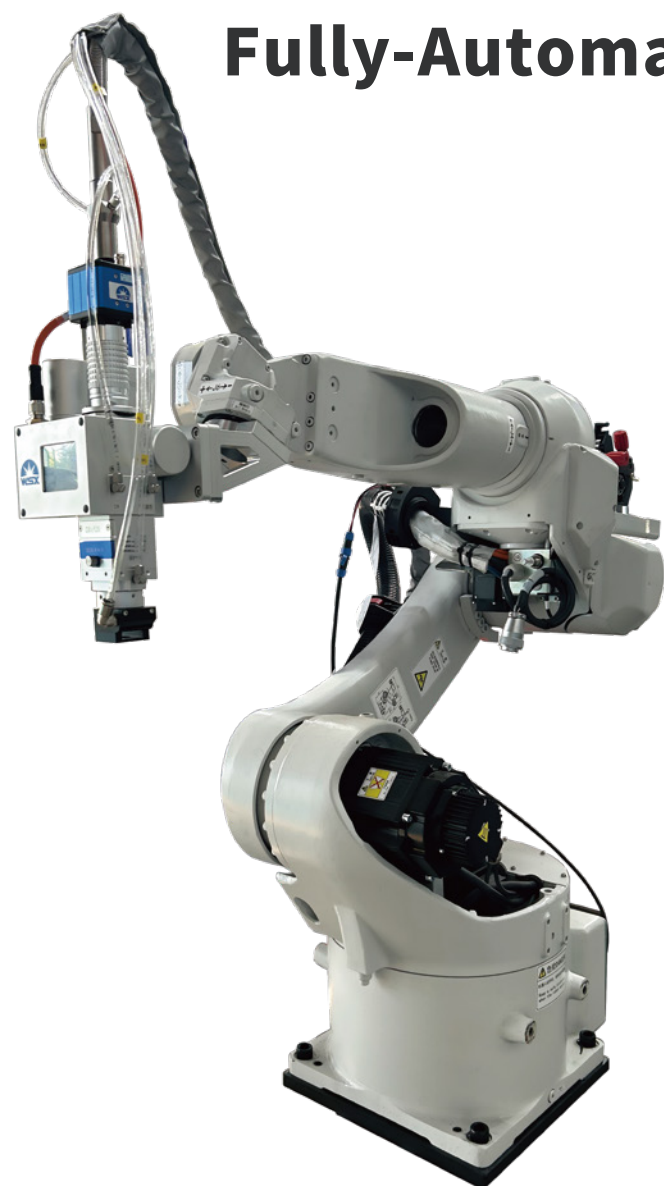
To ensure rapid response, we have established technical service centers in North America and Eastern Europe, with plans to further expand our global support network.



Catalog

Our Product Portfolio

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Fully-Automatic High-Precision Welding Robot

Product description

Integrating a CNC system, precision robotic arm, real-time sensing, and a welding unit into a synchronized operation, this advanced robot delivers fully automated welding with unmanned operation and micron-level control over trajectory and parameters. By replacing human expertise with mechanical precision, it enables robotic TIG welding, laser-arc hybrid welding, laser autogenous welding, and laser wire-feed welding—ensuring consistently stable and high-quality weld seams.

Complex Parts

Flawless Welds

Total Automation

Brand: BUVAuncom	Model: BV-R12-1400/1800/2000
Mechanism	Articulated Robot
Number of Control Axes	6
Laser Power	3000W/6000W/12000W (Optional)
Repeat Positioning Accuracy	$\pm 0.03 \text{ mm} \sim \pm 0.05 \text{ mm}$
Working Voltage	AC 380V/50Hz
Drive Method	AC Servo Drive
Installation Method	Floor / Ceiling / Wall

Product Application

1 Application Scenarios

Vehicle skin laser tailor welding, battery structures, high-speed train door laser seal welding, airtight cylinder structures, high-temperature high-pressure intake/exhaust systems, large stainless steel water-cooling structures, corrosion-resistant high-strength sealing structures, ballistic armor components, graphite compression structures for fourth-generation reactors.

2 Applicable Industries

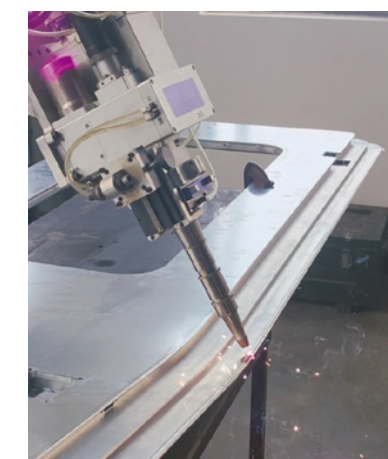
Automotive manufacturing, aerospace, electronics, sheet metal and steel structure industries.



Battery Structure Welding



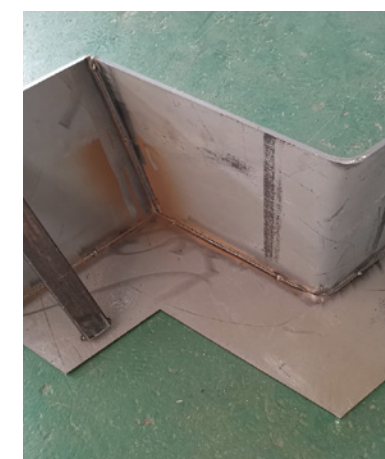
Intake and Exhaust System Welding



High-Speed Train Door Welding



Gas-Tight Cylindrical Structure Welding



Ballistic Armor Structural Component Welding

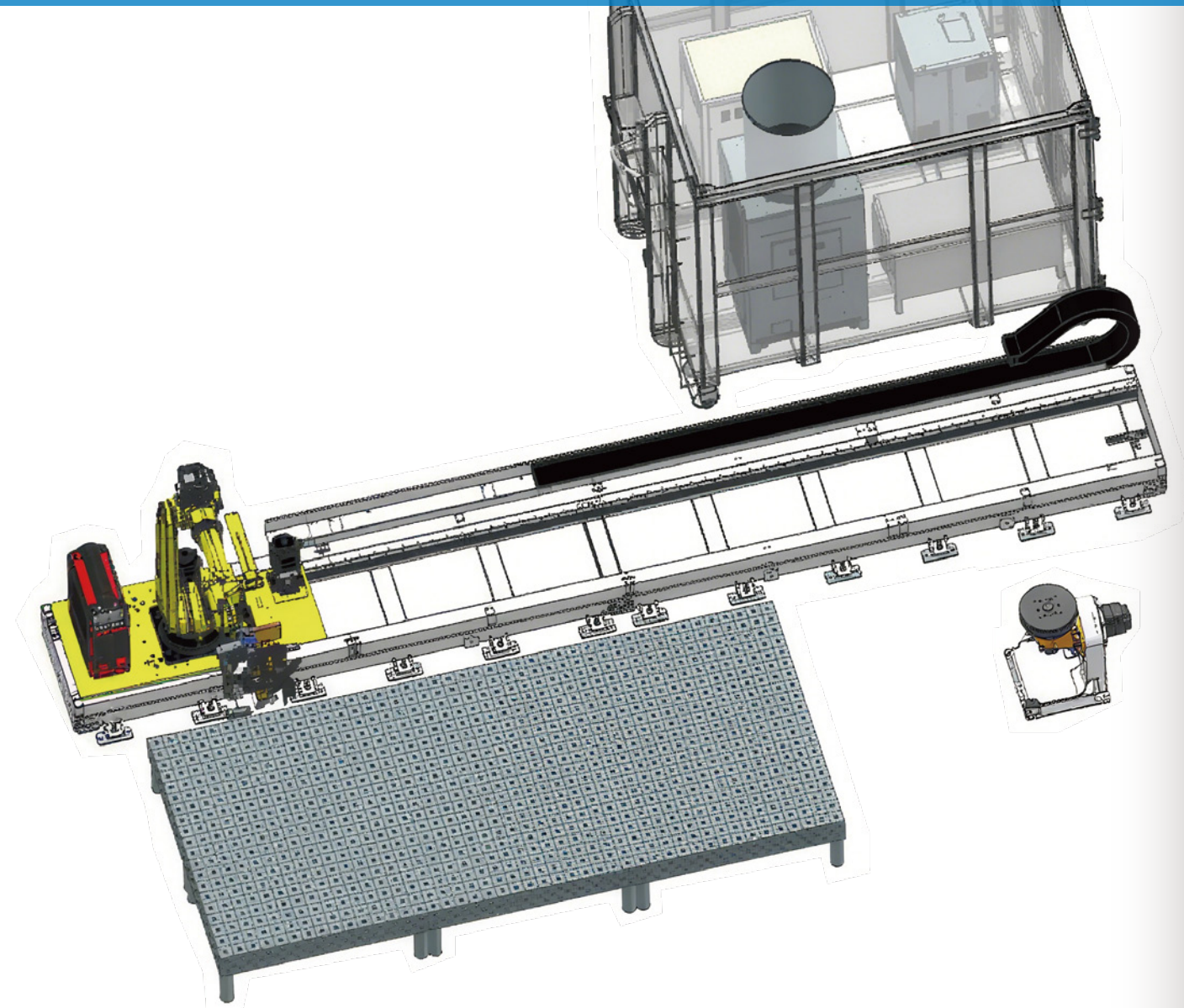


Corrosion-Resistant High-Strength Sealing Structure Welding

Laser-Arc Hybrid Welding

Product description

Laser-arc hybrid welding is a process that combines a focused laser beam with an electric arc into a unified heat source, which acts on the material surface to achieve welding through controlled movement. By integrating two fundamentally different heat sources in terms of physical characteristics and energy transfer mechanisms, this technology creates a synergistic effect that overcomes the limitations of single-source welding. It offers high efficiency, superior quality, and energy savings, making it particularly advantageous for medium-to-thick plate welding applications.



Product Application

- 1 Shipbuilding**
Widely adopted for large-scale structural components such as decks and bulkheads. Kilowatt-level hybrid welding replaces traditional arc welding, increasing efficiency by over 50%.
- 2 Construction Machinery**
Growing demand for welding structural parts like box girders and U-ribs drives lightweight manufacturing upgrades in the industry.
- 3 New Energy Vehicles**
Aluminum alloy body welding has become a mainstream approach, with hybrid welding effectively solving thermal deformation issues caused by conventional processes.
- 4 Emerging Applications**
Hybrid welding technology is rapidly expanding into sectors including rail transit bogies, oil and gas pipelines, and energy storage equipment.



Solder Dispensing & Welding Integrated System



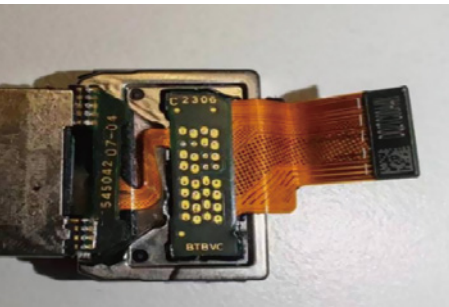
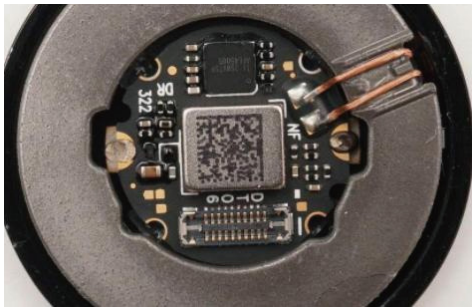
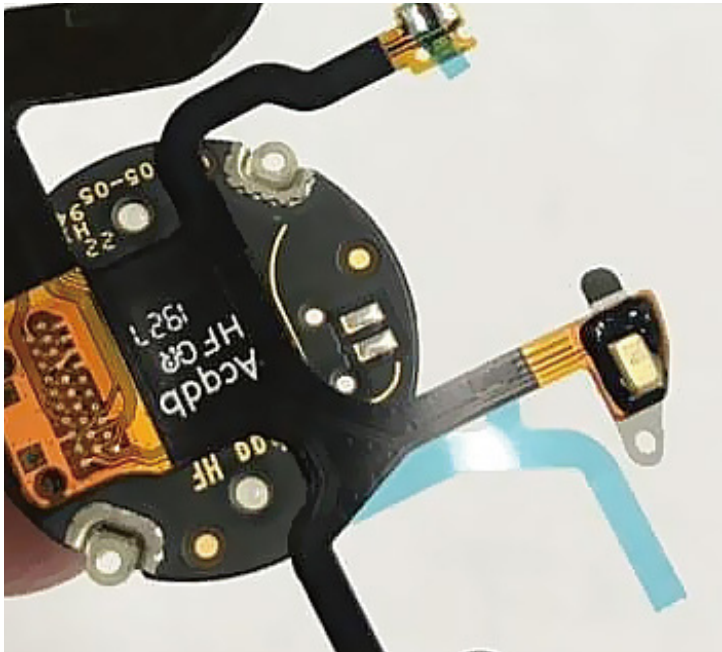
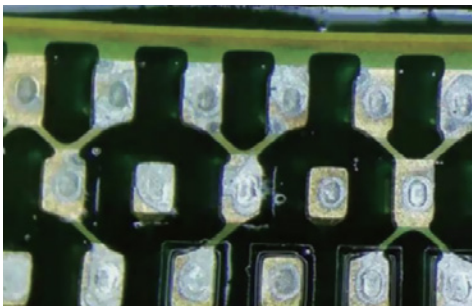
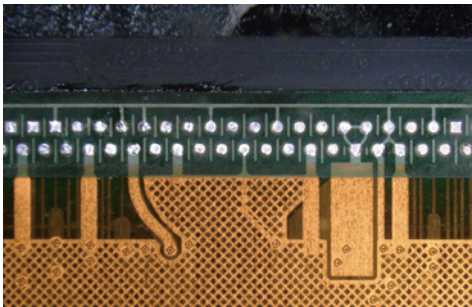
Product description

BV-SW100 Integrated Laser Solder Welding System
Developed by Chuangbufan Tech, the BV-SW100 integrates automatic solder dispensing and laser welding into a single station. Through precision wire feeding, accurate laser heating, and real-time positioning correction, it achieves a fully automated closed-loop process from material supply to soldering — eliminating reliance on manual operation.

Model	BV-SW100
Laser Source	Semiconductor Laser
Laser Power	100W /200W (Optional)
Cooling Method	Full air-cooling/water-cooling
Positioning Method	Coaxial CCD automatic positioning
Control Method	PC control, temperature feedback, constant temperature welding, dual station
Air Source	0.4~0.6MPa (dry and clean air)
Operating Environment	Temperature 25±5°C, Humidity <60% (non-condensing)
Working Voltage	AC 220V/50Hz
Dimensions	1100×1100×1800mm

Product Features

- 1 Dual-track Feeding System ensures continuous and stable material supply, eliminating downtime caused by material interruption.
- 2 High-precision CCD Positioning corrects solder joint locations in real time, effectively compensating for workpiece clamping deviations.
- 3 Imported Precision Dispensing Controller guarantees accurate solder volume control (error $\leq 0.01\text{mm}$), preventing defects caused by excess or insufficient solder.
- 4 Closed-loop Temperature Control with real-time monitoring and customizable multi-stage profiles prevents overheating damage to sensitive electronic components.
- 5 Dual-station Independent Operation enables simultaneous loading/unloading and welding, significantly improving overall efficiency while ensuring process stability and consistency.



Multi-Axis Precision Laser Welding Station

Product description

The Multi-Axis Laser Welding Platform enables micron-precision welding of complex components through synchronized multi-axis motion, adaptive sensing, and CAD-guided control. It solves traditional limitations by reaching inaccessible geometries and maintaining consistent accuracy with real-time corrections.



Brand: BUVAuncom	Model: BV-MAW1500/2000/3000/6000
Working Voltage	AC 220V 50Hz/60Hz
Laser Power	1500W/2000W/3000W/6000W (Optional)
Positioning Method	Infrared Positioning, CCD Inspection
Supported Vector File Formats	Dwg、Dfx、Bmp、Jpg、Png、Tif、Pcx、Tag、Gif、Plt
Stroke X/Y/Z-axis (C/A-axis Optional) (mm)	500×300×400 (Customizable)

Product Application

- 1 **High-Tech Industries**
Critical welding for aerospace and automotive manufacturing.
- 2 **Daily Use Products**
Suitable for home appliances, electronics, hardware, and other industries.
- 3 **Precision Product Welding**
Applicable to medical devices, watches, jewelry, new energy batteries, etc.



Handheld Water-Cooled Laser Welding Machine



Easy Operation

Precision Welding

Superior Flexibility

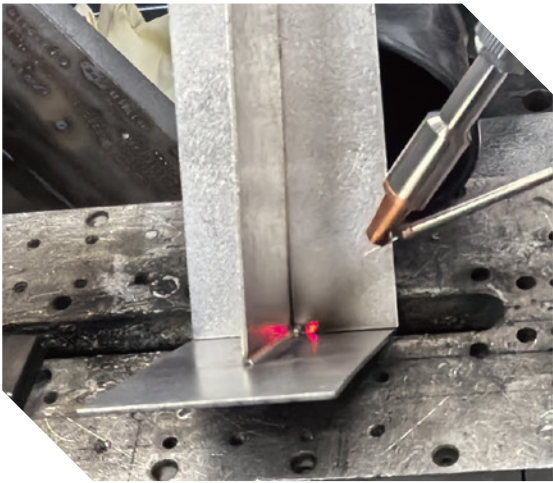
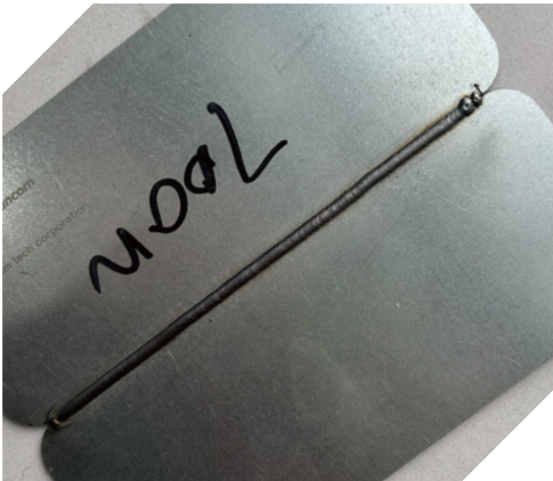
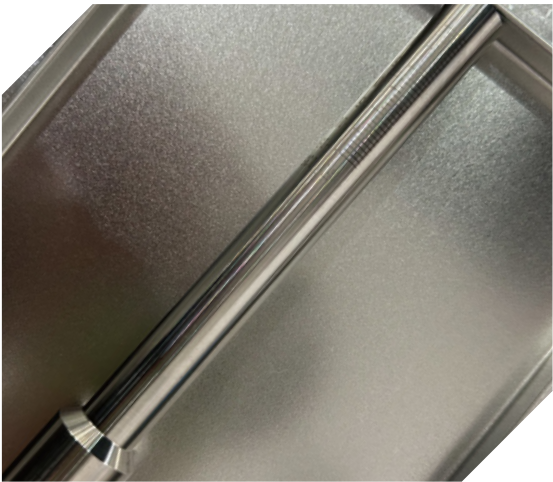
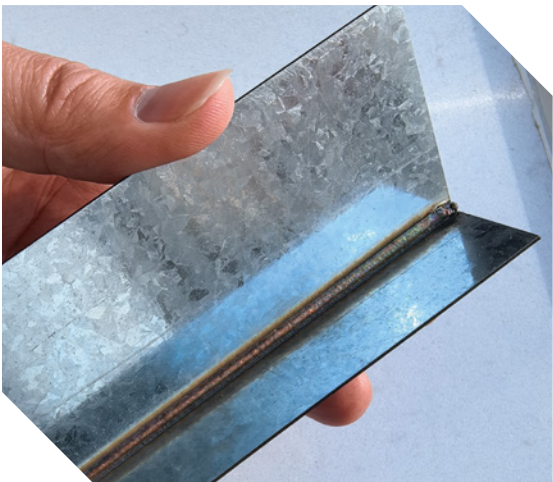
Product description

Powered by a medium-low power fiber laser, this handheld welding system delivers exceptional flexibility through an ergonomic gun design. Its integrated air-cooling ensures stable operation while maintaining precise energy control for base material/-filler wire melting. Combining portable operation with efficient thermal management, it's engineered for small-medium components, complex welding paths, and on-site repairs.

Brand: BUVAuncom	Model: BV-WW1200/1500/2000/3000
Working Voltage	AC 220V 50Hz/60Hz
Laser Power	1200W/1500W/2000W/3000W (Optional)
Fiber Optic Length	10m (Customizable)
Operating Temperature & Humidity	10~40°C; 30-70% RH (Non-condensing)

Product Application

- 1 Applicable Industries**
It supports stainless steel and carbon steel welding, suitable for various industries including manufacturing, construction, advertising, and more.
- 2 Multiple Welding Modes**
Spot welding, seam welding, overlap welding, seal welding, fillet welding, inner/outer corner welding.
- 3 Application Scenarios**
Sheet metal, molds, chassis, water tanks, kitchenware & sanitary products, hardware & lighting, billboards, doors & windows, household appliances, automotive parts.



Handheld Air-Cooled Fiber Laser Welding Machine

Compact Design

Energy Smart

Easy Operation



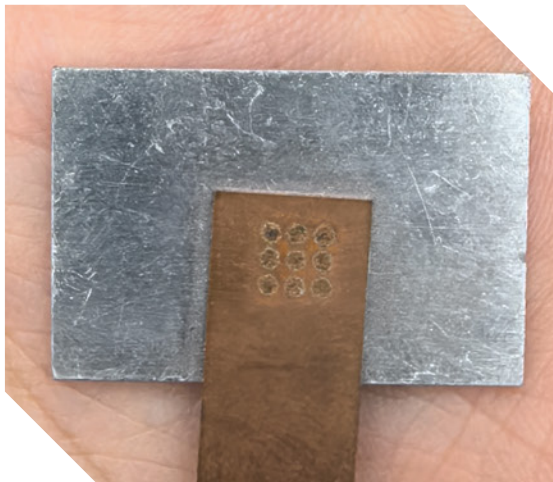
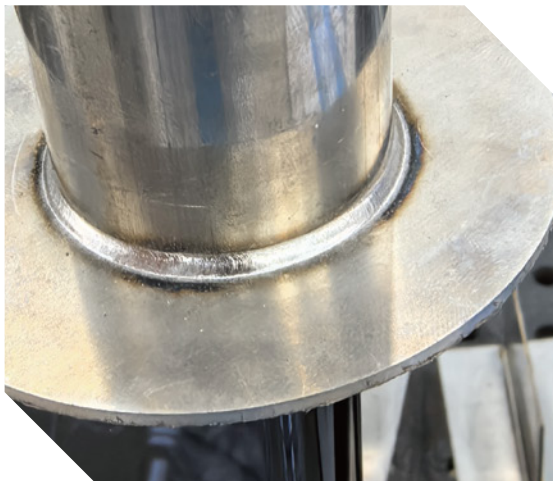
Product description

Featuring a medium-power fiber laser source and handheld operation, this air-cooled welding solution delivers precise energy control for base material and filler wire applications. Combining portability with efficient thermal management, it excels in small-to-medium workpiece processing, complex path welding, and on-site repair tasks across manufacturing and maintenance applications.

Brand: BUVAuncom	Model: BV-AW750/1200/1500/2000
Laser Power	750W/1200W/1500W/2000W (Optional)
Fiber Optic Length	10m (Customizable)
Operating Temperature	10~45°C
Working Voltage	AC 220V 50Hz/60Hz
Total Power	4.5kW

Product Application

- 1 Suitable Materials**
It supports stainless steel and carbon steel welding, suitable for various industries including manufacturing, construction, advertising and more.
- 2 Welding Modes**
Spot welding, seam welding, overlap welding, seal welding, fillet welding, inner/outer corner welding.
- 3 Applications**
Sheet metal, molds, chassis, water tanks, kitchen & sanitary products, hardware & lighting, billboards, doors & windows, home appliances, automotive parts.



Fully Automated Fiber Laser Cutter with Integrated Exchange Table



Product description

Featuring a twin-table system with automatic positioning and synchronized control, this machine enables simultaneous cutting and loading. Table exchange occurs in under 13 seconds, eliminating downtime and maximizing productivity through continuous operation.

Brand: BUVAuncom	Model: BV-3015CS
Laser Power	3kW-15kW
Positioning Accuracy	±0.03mm/m
Repeat Positioning Accuracy	±0.02mm
Working Voltage	AC 380V/50Hz
Operating Temperature	0°C-40°C
Work Table Size	3000x1500mm / 4000x1500mm / 6000x1500mm (Customizable)

Product Application

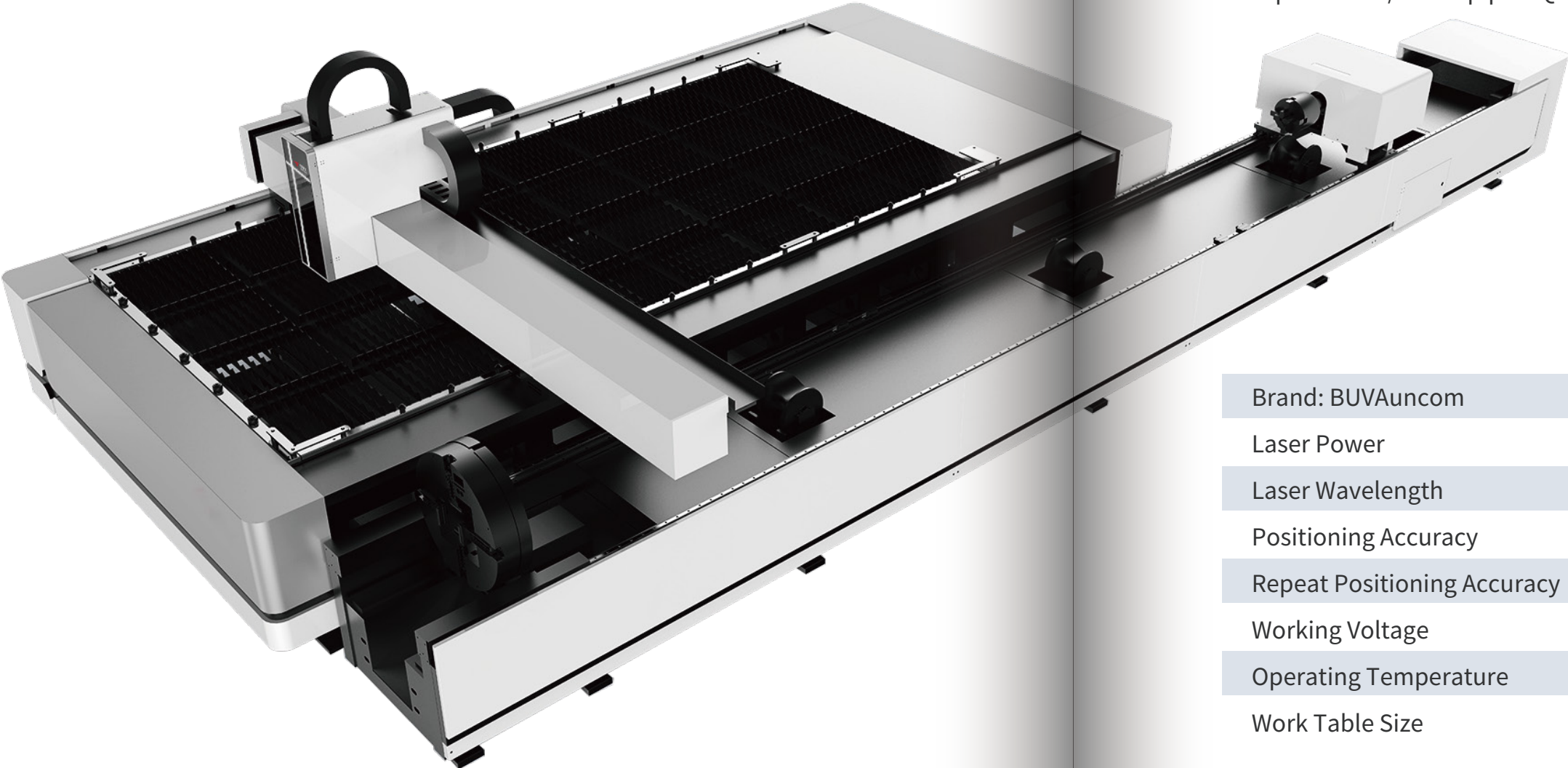
- 1 Industrial Manufacturing**
Metal Processing: Cutting of carbon steel, stainless steel, and other metals for producing sheet metal parts and hardware components.
Automotive Manufacturing: Precision cutting of auto parts including body panels, chassis, and engine components.
- 2 High-End Equipment**
Aerospace: Manufacturing and cutting of aircraft parts and components.



High-Speed Tube & Sheet Integrated Fiber Laser Cutting Machine

Product description

Powered by a high-power fiber laser source, this system utilizes dual processing units with precision CNC control to enable efficient switching and high-speed processing between sheet metal cutting and tube cutting. It retains the core advantages of fiber laser technology—high energy density, exceptional precision, and rapid speeds—while its integrated design solves the traditional pain points of operating separate machines for sheets and tubes. Ultimately, it delivers dual functionality in one system for continuous, high-speed production.

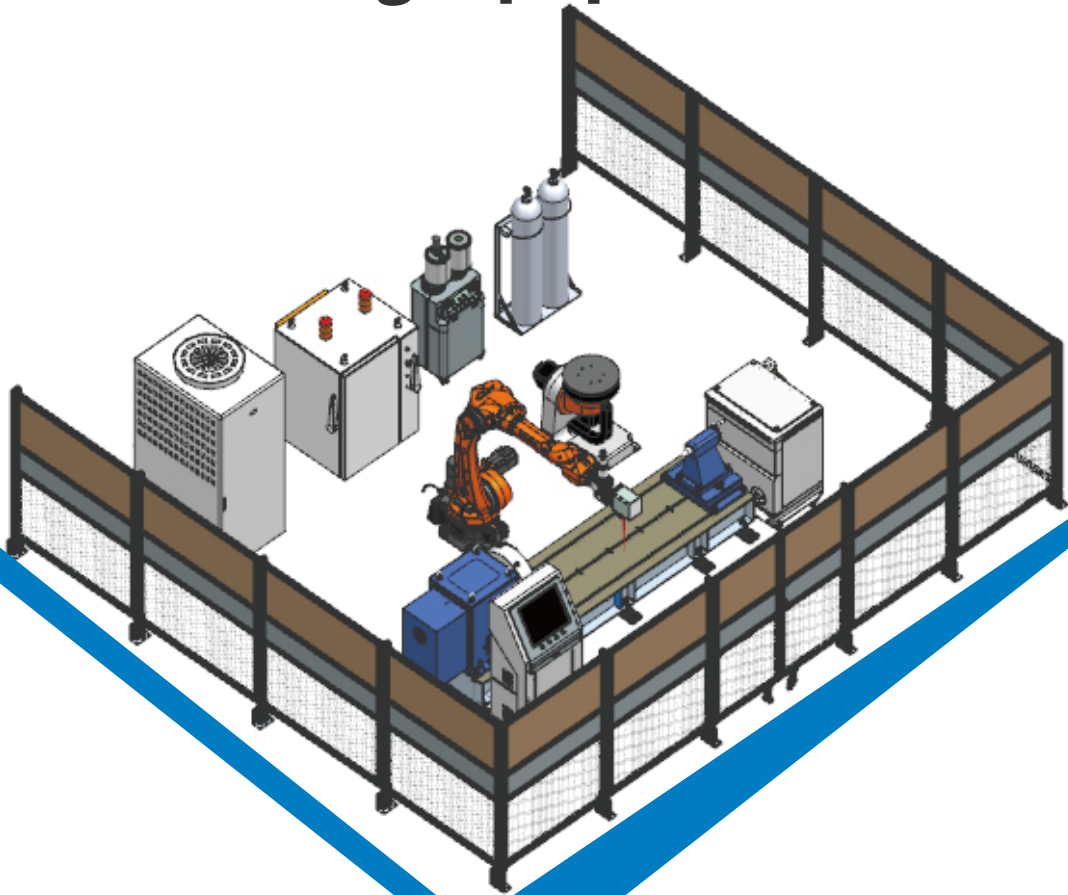


Product Application

- 1 General Machinery**
Precision cutting of equipment frames/end covers (plates) and drive shafts/-support columns (tubes). Dual-station design enhances productivity.
- 2 Steel Structure & Building Materials**
Efficient cutting of thick connecting plates/embedded parts and large-diameter support tubes/guardrail posts. High-speed processing with smooth, burr-free edges.
- 3 Automotive & Medical**
High-precision cutting for chassis brackets/battery cases (plates) and clean exhaust pipes/surgical handle tubes (pipes). Accuracy up to $\pm 0.03\text{mm}$ with nitrogen protection to prevent oxidation.
- 5 Automotive & Medical**
High-speed batch cutting of thin outer casings/trays and small-diameter support tubes/outlet pipes. Quick changeover for flexible and efficient production.

Brand: BUVAuncom	Model: BV-3015CG
Laser Power	3kW–15kW
Laser Wavelength	1070nm
Positioning Accuracy	$\pm 0.03\text{mm/m}$
Repeat Positioning Accuracy	$\pm 0.02\text{mm}$
Working Voltage	AC 380V/50Hz
Operating Temperature	0°C–40°C
Work Table Size	3000×1500mm / 4000×1500mm / 6000×1500mm (Customizable)

Laser Cladding Equipment



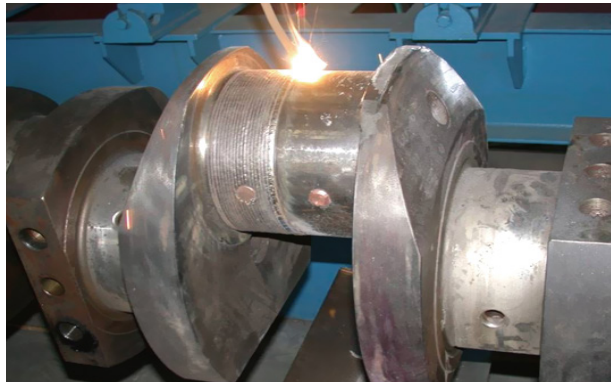
Product description

This surface modification and repair technique uses a high-energy laser beam to melt cladding materials (e.g., metal powder or wire) together with the substrate surface. The process creates a metallurgically bonded functional coating—not merely adhered—that enhances wear, corrosion, and heat resistance, or repairs defects such as wear and cracks.

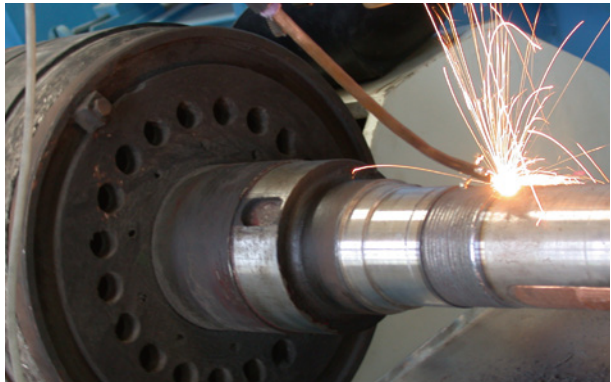
Performance Requirements	Cladding Material Selection	Hardness	Typical Applications
Corrosion Resistance (Abrasion Resistance Not Required)	304/316/17-4	200-350HB	Replacement for Chrome Plating
Basic Corrosion Resistance General Abrasion Resistance	JG-8A JG-11	48-52HRC 53-57HRC	Alternative to Hard Chrome Plating e.g., Laminar Flow Rolls, Hydraulic Rods, and similar components
Corrosion Resistance Heat Resistance (<1000°C) General Abrasion Resistance	Incoloy® alloys (e.g., Inconel® 625)	25-30HRC	Boiler pipes, marine systems (corrosion resistance required), and similar environments
High Abrasion Resistance Extreme Corrosion Resistance Heat Resistance (>600°C)	Stellite® Alloy	28-50HRC	Marine, Power Systems, New Energy, and others

Product Application

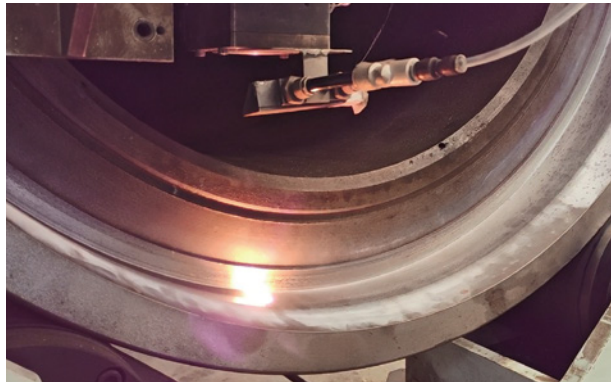
- 1 Laser cladding processing is available for part exteriors, inner holes, flat surfaces, and various complex contours.
- 2 We provide laser cladding services for a wide range of products including plungers, rollers, valve cores, and more.
- 3 Our equipment serves clients across multiple sectors, offering functionalities such as laser hardening, cladding, and alloying.



Crankshaft Gladding



Bearing Cladding



Laser Quenching



Laser Quenching of
Steam Turbine Generator Blades

Portable Pulsed Fiber Laser Cleaning Machine

Precision Cleaning

Effortless Operation

Eco-Efficient



Product description

Powered by a miniaturized pulsed laser, this portable system delivers precise cleaning through instant laser-contaminant interaction. Its ultra-lightweight design enables flexible on-site operation. The technology utilizes high peak power to break contaminant bonds without substrate damage, making it ideal for localized applications such as rust removal, paint stripping, and artifact restoration.

Brand: BUVAuncom	Model: BV-PR100/200/300/500
Working Voltage	AC 220V 50Hz/60Hz
Laser Power	100W/200W/300W/500W (Optional)
Operating Temperature Range	5°C to 40°C / ≤80%
Laser Output Mode	Pulse Mode
Scanning Width (mm):	0-100 / 0-145 (Optional)
	Continuously adjustable, dual-axis, supports 9 scanning modes.

Product Application

- 1 Industrial Maintenance**
On-site rust & deposit removal (valves, bearings, pipes). No disassembly. Non-destructive.
- 2 Precision Manufacturing**
Degrease gears/sensors. Clean PCB residues. Scratch-free precision.
- 3 Cultural Restoration**
Remove rust from metals, stains from stone/artworks. Low-power. Chemical-free.
- 4 Field Service**
Clean ships, turbines, steel structures. Portable. Weather-resistant.
- 5 Medical & Mold**
Clear plastic residues & bloodstains. Substrate-safe. Zero residue.



Laser Coating Removal for Thermoses



Precision Surface Cleaning



Mold Oil & Residue Cleaning



Stone Surface Restoration



Wood Surface Refinement



Laser Ablation Marking Removal

Portable Fiber Laser Marking Machine



Product description

This machine utilizes advanced laser technology and a highly integrated design, resulting in a compact and lightweight body. Equipped with an 8-core processor and a color touchscreen control system, it enables rapid focusing and high marking precision. Suitable for a wide range of metals and certain non-metallic materials, it is ideal for trademark engraving, barcode marking, and personalized graphic marking.

Brand: BUVAuncom	Model: BV-FM20H/30H/50H
Working Voltage	AC 220V 50Hz/60Hz or Li-battery (Optional)
Marking Area	100x100mm, 150x150mm, 175x175mm (Optional)
Line Width	0.03mm
Repetition Positioning Accuracy	0.01mm
Laser Power	20W/30W/50W (Optional)
Positioning Method	Red Light Positioning & Focusing

Product Application

- 1 Industrial Parts**
Trace codes (QR/Serial) on motor covers, valves & hardware. On-site re-marking. Wear-resistant marks.
- 2 Electronics**
Micro model/LOGO on chips, connectors, earbud cases. ≤0.1mm spot. Fits tiny parts.
- 3 Consumer Goods**
Brand marks on tools (wrenches, blades). Engrave leather/bag hardware. Portable operation.
- 4 Medical Instruments**
ID engraving (scissors, tweezers) for traceability. No chemicals. Sterilization-proof.
- 5 Custom Crafts**
Engraved patterns on jewelry (necklaces, badges). Custom text on gifts (cups, USBs). On-site service available.



Automotive Generator Housing Marking



Plastic Marking



Mouse Marking



Ceramic Marking



Jade Marking



Laptop Marking

Buva Technology Co., Ltd.

OUR SPIRIT :

If you win, you toast to each other,
if you lose, you fight to save

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Our service

Long-Term Warranty

Laser Source: 2 Years | Complete Machine:
1 Year

Lifetime Maintenance

Lifetime repair service with only
cost charges for replacement parts

Lifetime Value-Added Services

Free technical consulting, process
optimization and software up-
grades

24/7 Support

Round-the-clock online technical support

Complimentary Training

Professional post-sale technical training provided