



WELDING SOLUTIONS

AUTOMATED CELLS - COLLABORATIVE ROBOT
JIGS & FIXTURES - LASER WELDING



INNOVATION IN AUTOMATION &
INDUSTRIAL DIGITALIZATION

Why Alien?

- **One stop shop, we do it all.**

We take care of every stage: from engineering and integration to commissioning and after-sales service.

- **Partner with you over the long run.**

We build lasting relationships based on trust, continuous support and mutual growth.

- **Provide optimum solutions at competitive investment costs.**

We design each project to maximize performance and efficiency, always taking care of your budget.

- **Training and support is available for our customer partners.**

We provide technical support and personalized training so that you can get the most out of each solution.



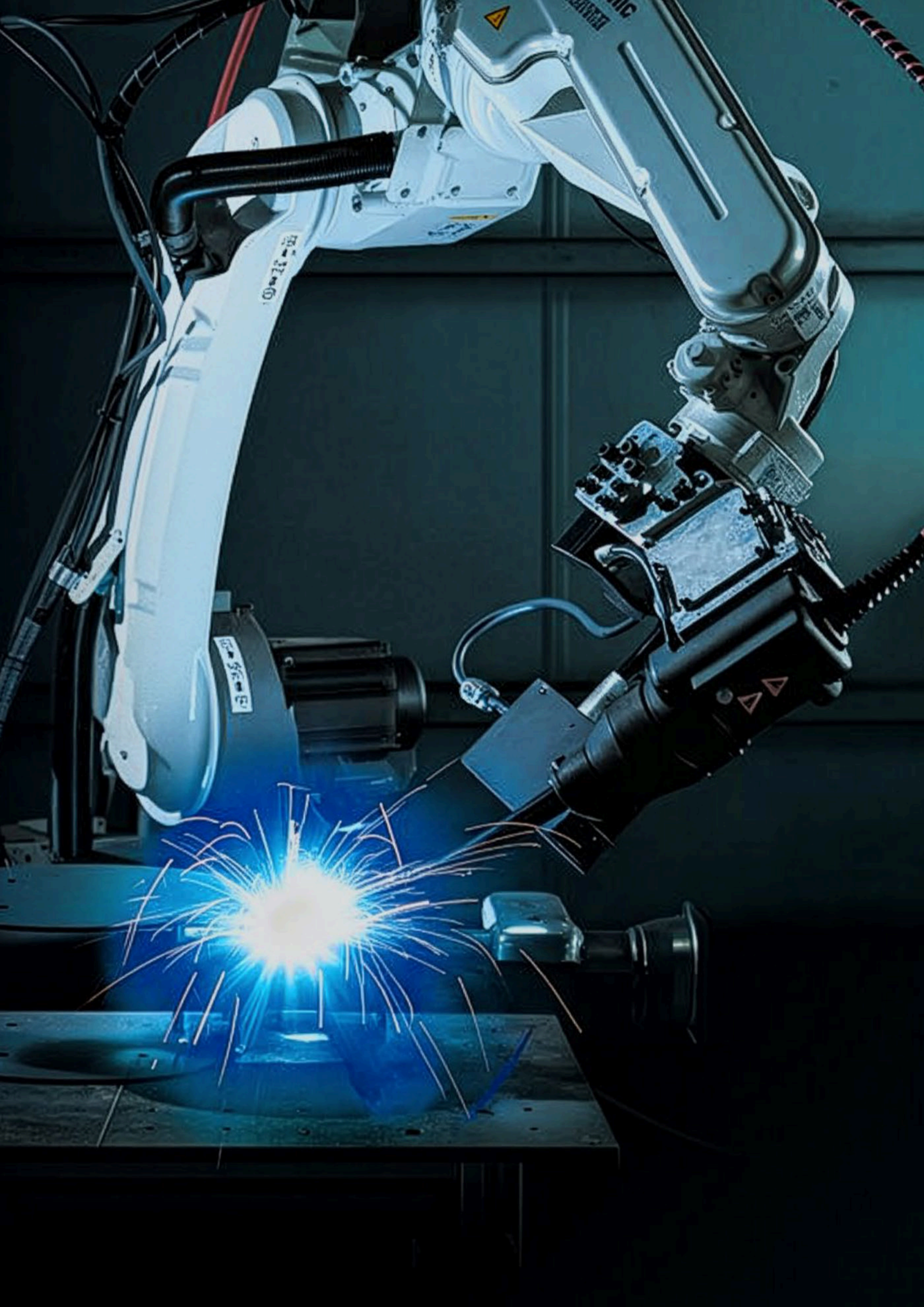
**SALES LEADER
FOR 3 YEARS**
in South America

+10

**OPERATIONS IN MORE
THAN 10 COUNTRIES**

+500

**MORE THAN 500
EQUIPMENT INSTALLED**
in America



ROBOTIC WELDING CELLS

PC-1105P & PC-2507P



The **PC-1105-P** and **PC-2507-P** feature safety cells that allow operation while robotic welding is in progress, enhancing both safety and efficiency. Offered with **350A or 450A power sources**, they can be integrated with **2D/3D sensors, inspection systems, and external controls**. Both models are also equipped with an **indexing table that can operate either automatically or manually**, ensuring a flexible, reliable, and productive welding process, with an optional fixture rotation system available to expand configuration possibilities.

Technical Information					
Model	PC-1105P	PC-1105RP	PC-1105M	PC-1105RM	PC-2507RP
Rotation of Fixture	×	✓	×	✓	✓
Table Size (in)	43 x 21				98 x 27
Table Size (mm)	1100 x 550				2500 x 700
PayLoad Capacity	1000 kg / 2200 lb (tot. on vertical axis)				
Weight	2800 kg / 6172 lb	3150 kg / 6944 lb	2750 kg / 6062 lb	3150 kg / 6944 lb	4300 kg / 9500 lb
Footprint (in)	173 x 86 x 88				165 x 307 x 82
Footprint (mm)	4400 x 2200 x 2250				4200 x 7800 x 2100

ROBOTIC WELDING CELLS

PC-1107D & PC-1507S



The **PC-1107-D** and **PC-1507-S** feature safety cells that allow operation while robotic welding is in progress, enhancing both safety and efficiency. Offered with **350A or 450A power sources**, they can be integrated with **2D/3D sensors, inspection systems, and external controls**. They are available in both **single and dual-station configurations**, delivering a compact, secure, and efficient setup for continuous robotic welding operations, with an **optional fixture rotation system** available to expand configuration possibilities.

Technical Information

Model	PC-1107D	PC-1107RD	PC-1507S	PC-1507RS
Rotation of Fixture	×	✓	×	✓
Work Station	Dual Station		Single Station	
Table Size (in)	43 x 27		59 x 27	
Table Size (mm)	1100 x 700		1500 x 700	
Payload Capacity	1000 kg / 2200 lb (tot. per station)			
Weight	2200 kg / 4850 lb	2860 kg / 6283 lb	2000 kg / 4410 lb	2350 kg / 5180 lb
Footprint (in)	83 x 118 x 88		83 x 88 x 88	
Footprint (mm)	2120 x 3000 x 2250		2100 x 2250 x 2250	

ROBOTIC WELDING CELLS

PC-2207H & PC-3010H

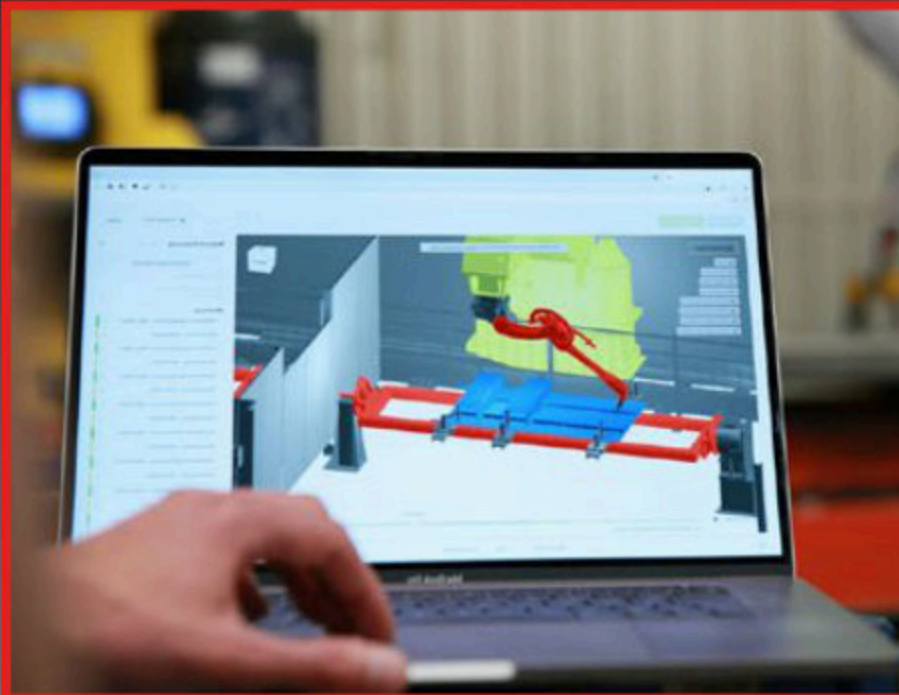


The **PC-2207-H** and **PC-3010-H** feature safety cells that allow operation while robotic welding is in progress, enhancing both safety and efficiency. Offered with **350A or 450A power sources**, they can be integrated with 2D/3D sensors, inspection systems, and external controls. Designed with **dual work zones for high-productivity** applications, enabling loading and unloading on one side while welding is performed on the other, with an **optional fixture rotation system available** to expand configuration possibilities.

Technical Information					
Model	PC-2207H	PC-2207RH	PC-3010H	PC-3010RH	PC-3010RF
Rotation of Fixture	×	✓	×	✓	✓
Table Size (in)	86 x 27		118 x 39		
Table Size (mm)	2200 x 700		3000 x 1000		
Payload Capacity	1000 kg / 2200 lb (tot. per station)				
Weight	3000 kg / 6614 lb	3650 kg / 8046 lb	3500kg / 7716 lb	4150 kg / 9150 lb	3100 kg / 6834 lb
Footprint (in)	115 x 147 x 172		106 x 185 x 231		90 x 215 x 189
Footprint (mm)	3000 x 3700 x 4400		2700 x 4700 x 5870		2280 x 5460 x 4800

Optionals

Optional Features for Welding Cells

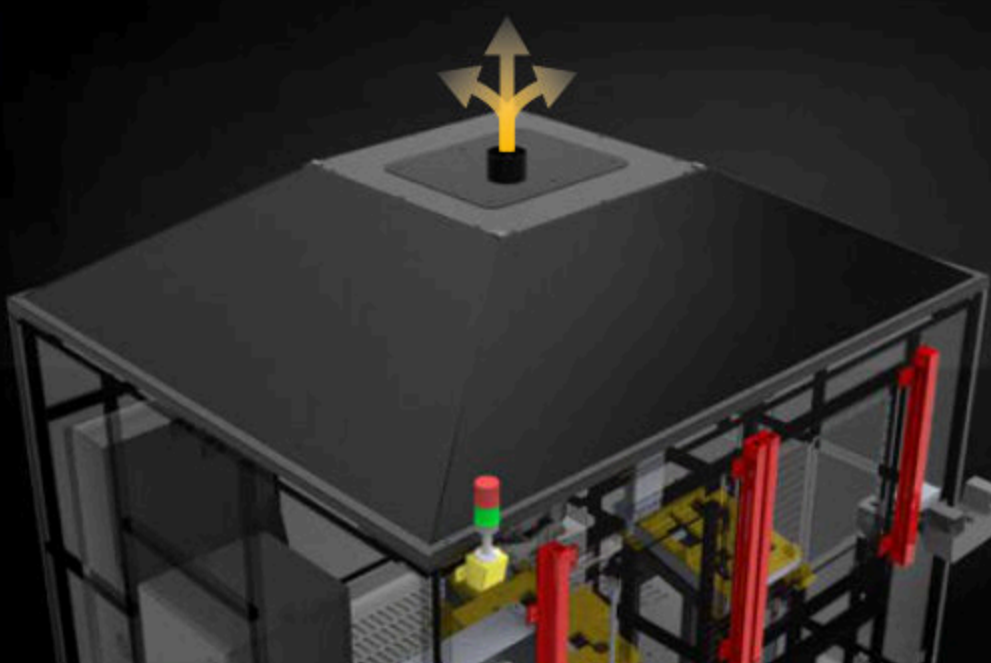


AI-Powered Welding Software **Perfect ARC®**

Perfect Arc® is an artificial intelligence welding software that **automatically detects beads in 3D assemblies**, without the need for manual programming. It optimizes sequences, **calculates safe paths and adjusts the process to the actual geometry of each part.**

HMI touch panel **Multi-program Selector**

The 9" Siemens HMI Touch Color panel with Profinet protocol delivers an intuitive, high-resolution interface. With IP65K protection, it's built for demanding industrial environments, ensuring durability and efficient system control.



Welding fume extraction **Smoke Extraction System**

The fume extraction system is designed to efficiently capture welding gases, improving air quality and ensuring a safer working environment. Ideal for continuous operations and demanding industrial settings.

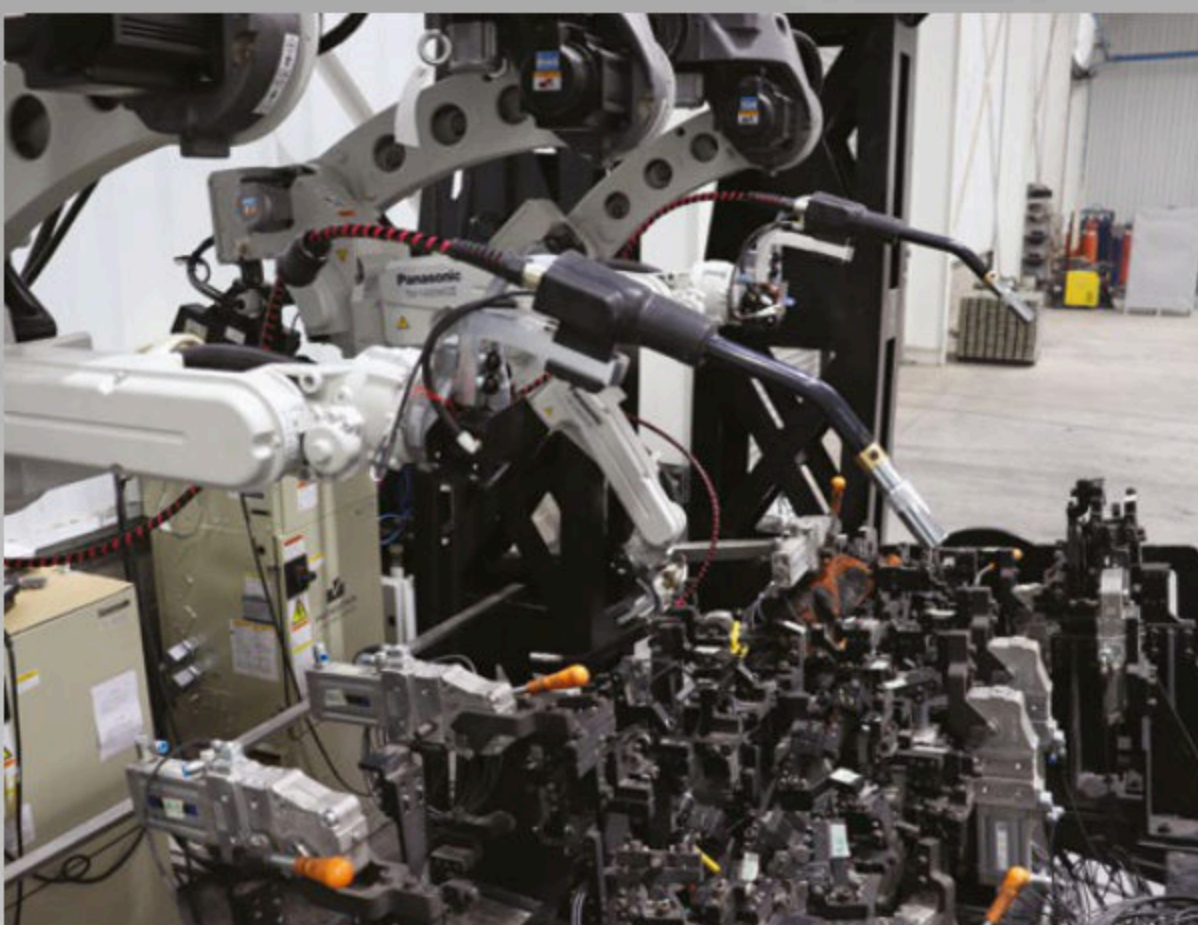
Torch Cleaning Station Cleaning, Anti Spatter & Wire Cutter

The cleaning station allows the robot to automatically position itself for wire cutting, torch nozzle cleaning and anti-spatter application. This automated process significantly reduces maintenance downtime, extends consumable life, and ensures efficient and continuous welding system performance.



Custom Projects

We offer turnkey automated solutions designed to maximize productivity and safety. Our team works closely with each client to develop custom systems tailored to their specific production processes.



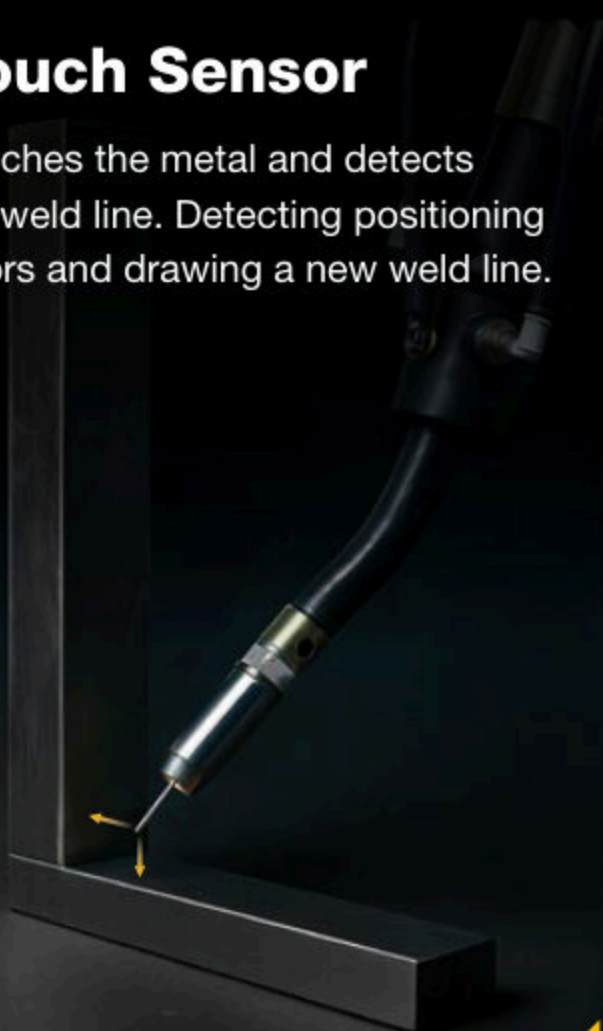
Robotic Welding

MIG/MAG welding on a Tawers System robot



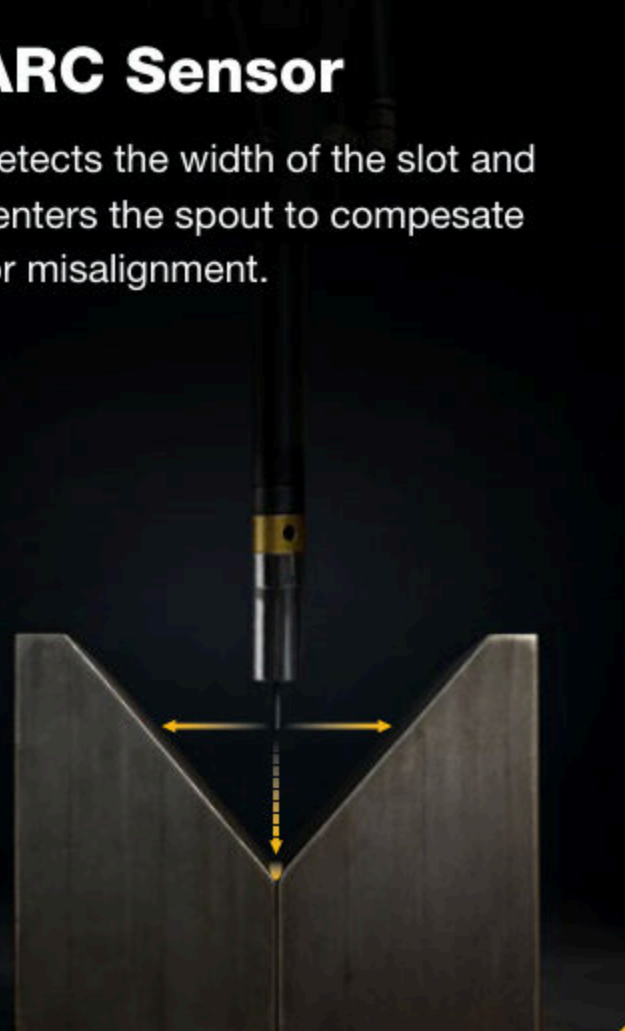
Touch Sensor

Touches the metal and detects the weld line. Detecting positioning errors and drawing a new weld line.



ARC Sensor

Detects the width of the slot and centers the spout to compensate for misalignment.



Robot mounted on Linear Track Welding on linear guide

The system incorporates a **6-axis robot + path extension** on linear guidance, which expands the work envelope and allows welding large parts with precision. This configuration provides greater reach, flexibility and efficiency in demanding industrial applications.



Custom Solutions

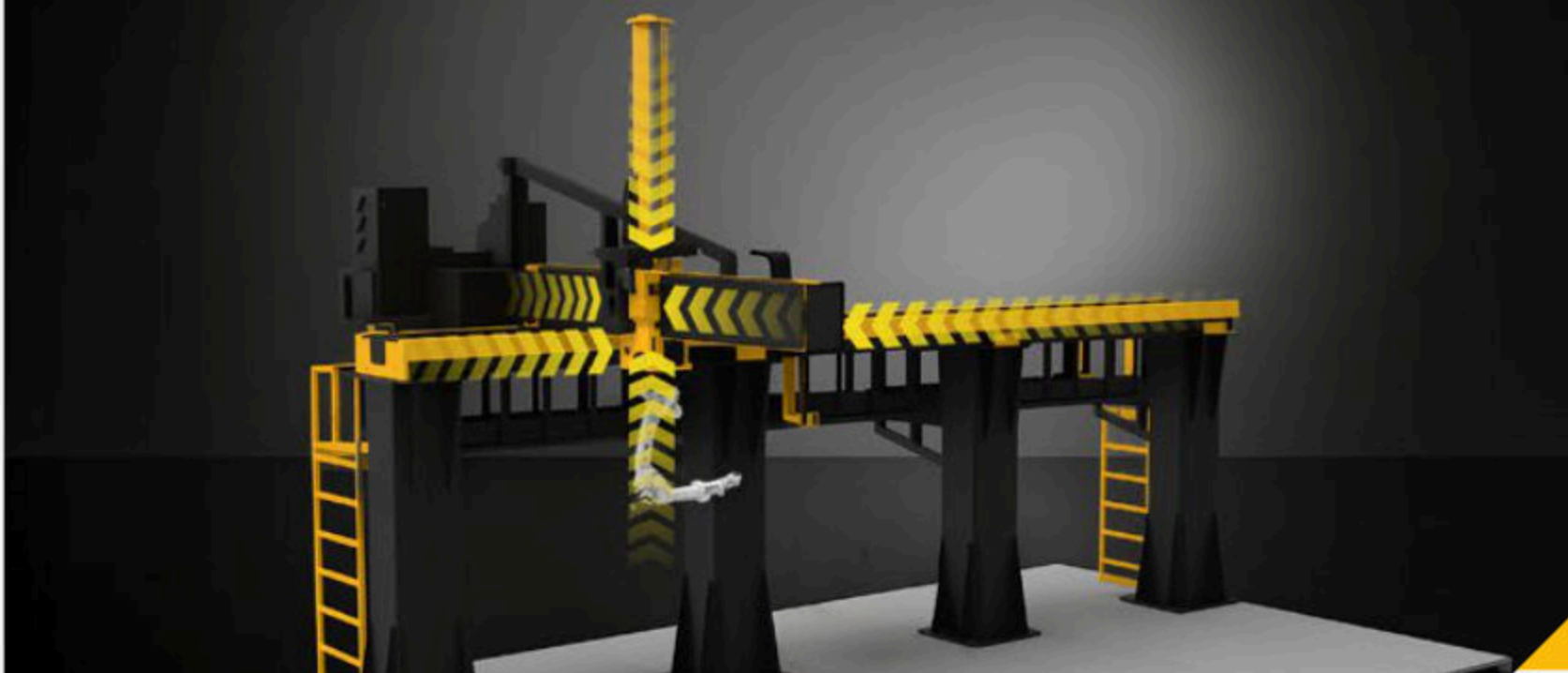
Gantry Solution for large parts applications



Welding system with 6-axis robot and 3-axis vertical gantry for enhanced flexibility. Features long Y-axis travel, X-axis motion, and Z-axis vertical tower for precise welding on large parts with full-angle access.

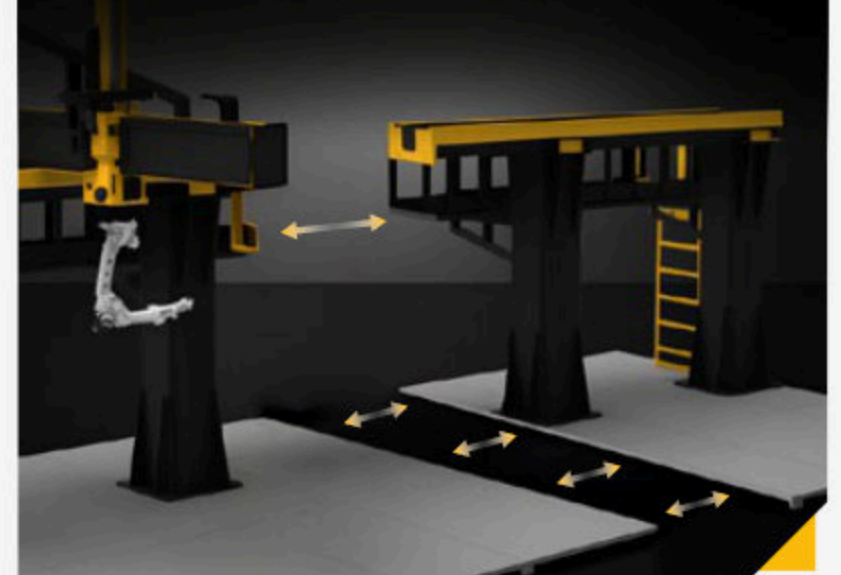
6-Axis Robot with 3-Axis Gantry for Large-Scale Welding

Welding system with 6-axis robot and 3-axis vertical gantry. Offers extended Y-axis reach, X-axis shift, and Z-axis lift for flexible, precise welding of large parts from multiple angles.



Modular Solution Tailored to your Process

The system is fully customizable to fit each client's needs, with adjustable size and layout. It can also host multiple welding stations, optimizing space and productivity.



Collaborative Welding System

6-axis collaborative industrial robot with work table.



The mobile welding solution is a compact and versatile platform combining a robotic arm, MIG/MAG or laser welding source and robot controller. Designed for quick deployment, it features intuitive “drag-to-teach” programming and 3D vision guidance for precise welding with minimal training. Compatible with various digital sources, it adapts to a wide range of industrial applications.

Versatility for Any Welding Process

Our collaborative welding system is compatible with leading MIG/MAG, TIG, and Laser Sources, providing maximum versatility to adapt to various processes and industrial requirements.



Simple and Intuitive Operation

No robotics expertise is needed to operate the system. Its intuitive touch-screen interface enables easy and quick programming, making it simple to use from day one.



Collaborative Welding Cabinet

The system comes with a cabinet specially designed for collaborative welding. It features dedicated spaces for integrating the collaborative robot with the welding source and a perforated table to easily mount devices and accessories during operation.

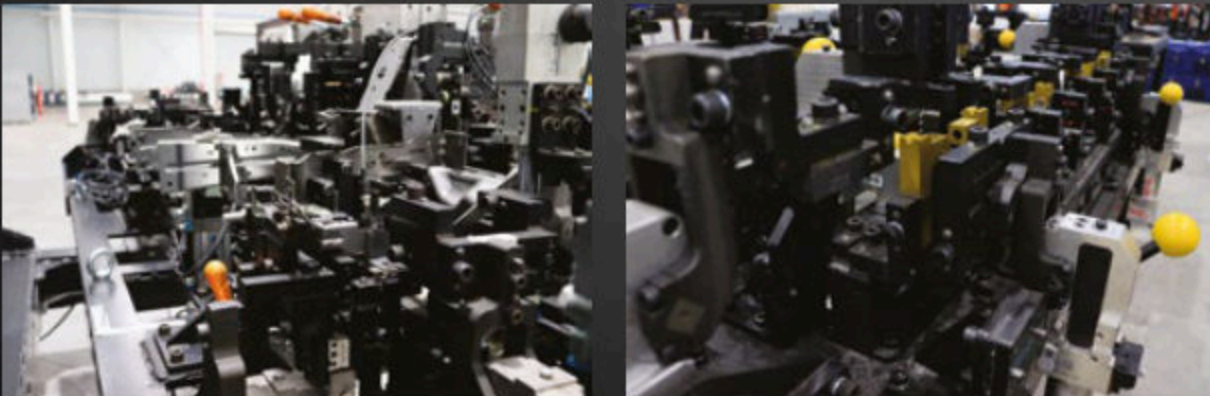
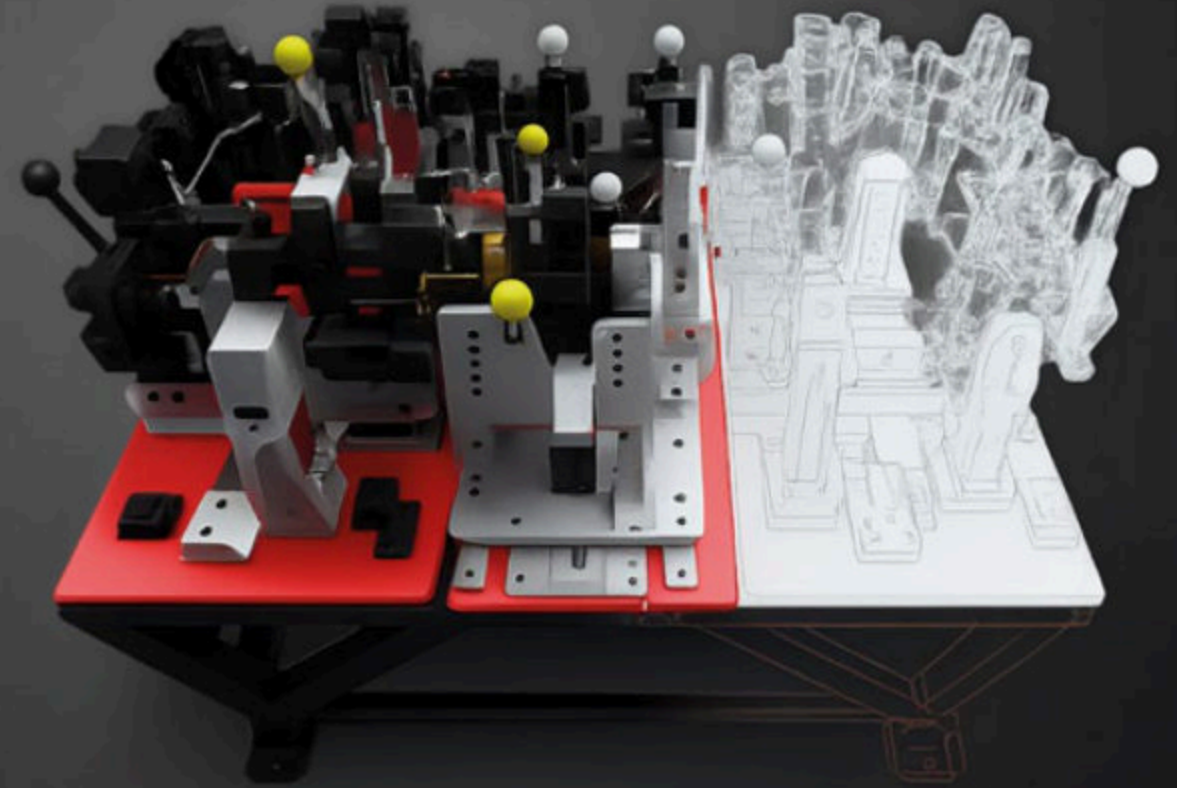


Custom Tooling

Improvements for Welding Cells

In addition to delivering turnkey solutions, we also manufacture jigs, fixtures, and gauges based on the client's designs.

All functional testing and validation are carried out in-house, significantly reducing installation and commissioning time at the customer's facility.

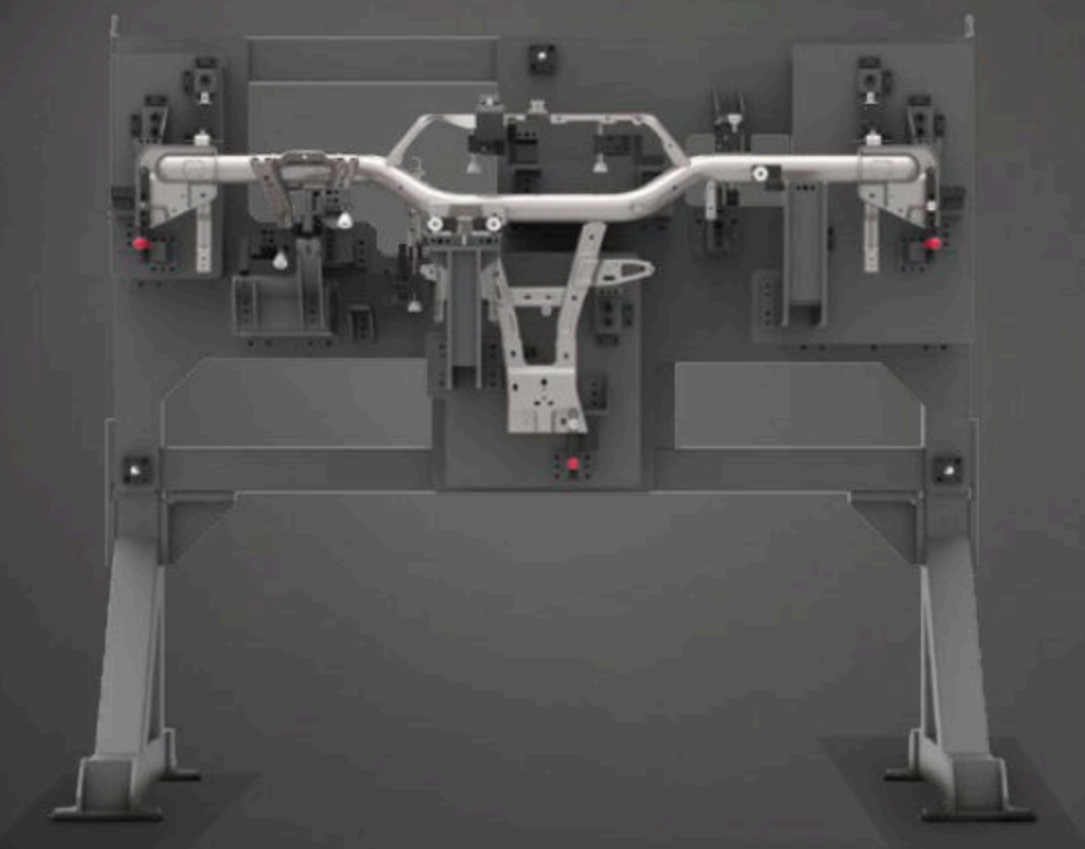
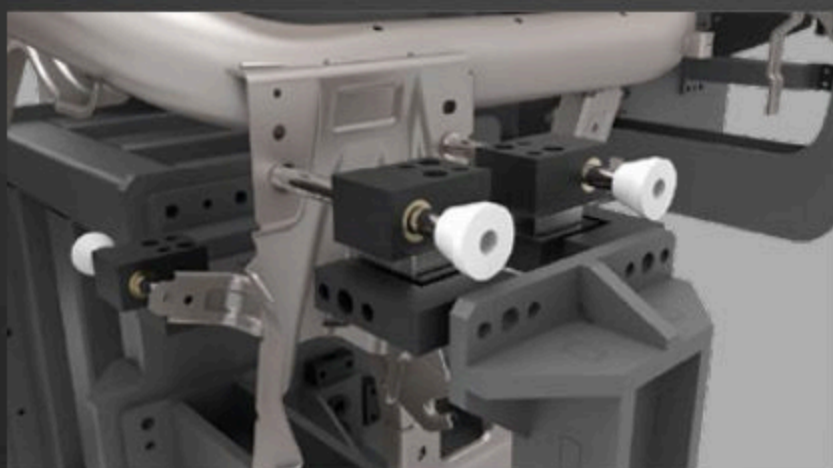
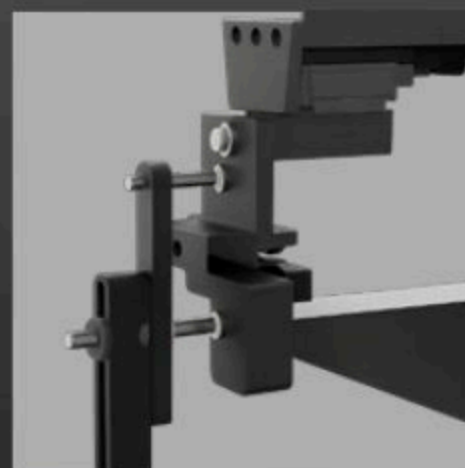


Inspection fixtures

Improvements for Welding Cells

We design and manufacture special control gauges for all types of parts with the required precision. Through the use of gauges, dimensional, shape and conductivity controls can be performed.

With different control systems: of surface deviations by means of clearance and flush systems with gauges; of shape and position with go/no-go control points and comparators; of fixing points and part geometry; or of holes by go/no-go gauges.

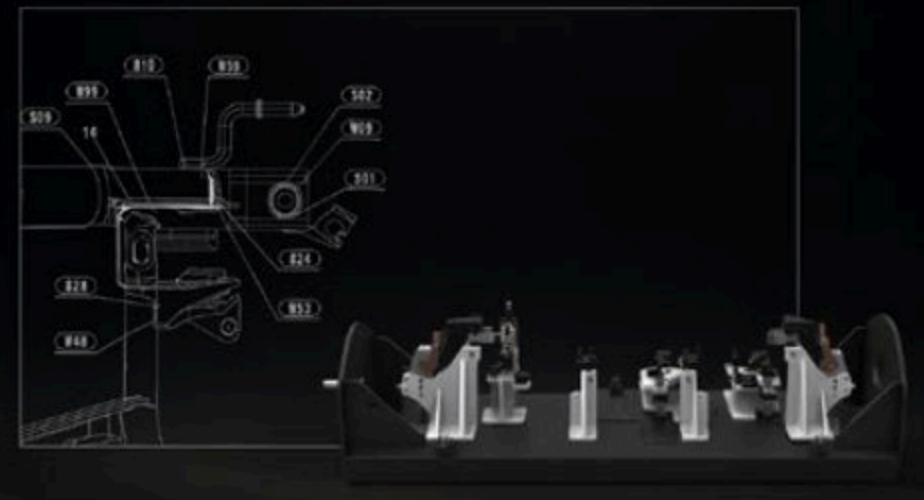


Complete Turnkey Process

From needs analysis to training and production, we work with you every step of the way.

Planification Analysis

Based on the client's input and the 3D models of the parts to be welded, cut, or assembled, we develop a fully tailored project plan. Each solution is designed to maximize efficiency, precision, and results from day one.



Design 3D Software

We use 3D software for the complete design of devices, ensuring their ergonomics and accessibility. This allows us to anticipate and optimize every detail before manufacturing, ensuring efficiency and operator comfort.

Simulation OFF-LINE

We simulate process times and analyze robot or operator access to every point of the device using specialized software and virtual reality. This ensures operational feasibility and optimizes efficiency before implementation.

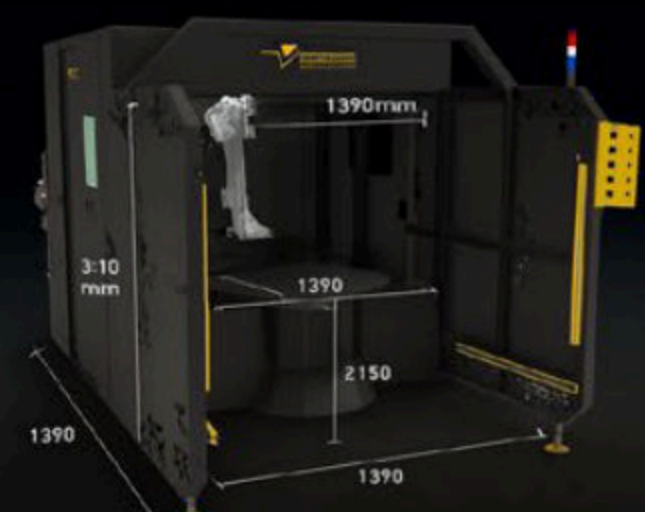


Fabrication Plant Equipped with the best technology

Our production facility is equipped with cutting-edge technology, allowing us to manufacture high-precision solutions with efficient processes and quality control at every stage.

Tryouts Measurements & Corrections

A full testing cycle of the device is carried out, including in-plant welding trials to validate performance. A dimensional verification gauge is also used to ensure process accuracy.



WELDING / CUTTING / CLEANING

Laser Machine



Available models
PTLM3.1-1500W, 2000W & 3000W

MaxPhotonics X Series

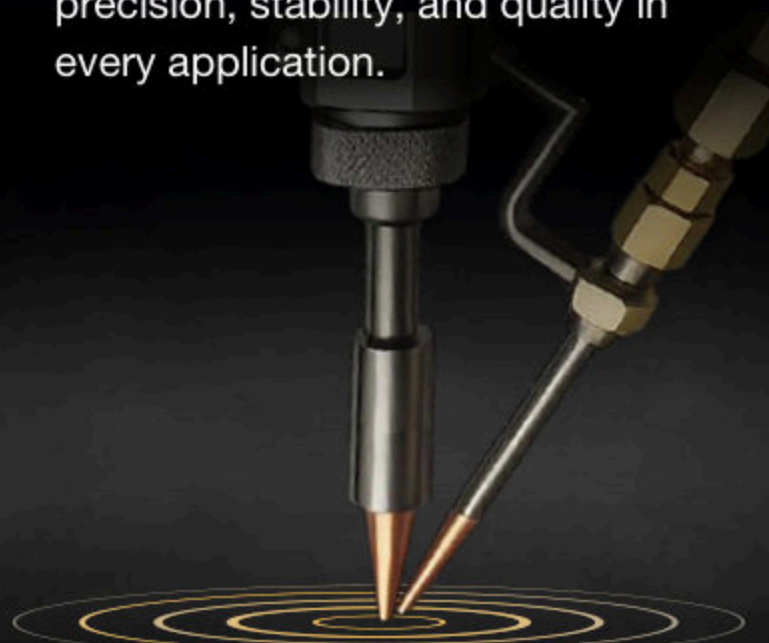
We use X Series laser sources, recognized for their top quality and reliability. They meet the highest standards of North American regulations, guaranteeing stable and efficient performance in every application.



Guarantee of immediate
source replacement

High-Frequency Head

Equipped with a high-frequency head that ensures greater precision, stability, and quality in every application.



Efficient Water Cooling System

The water cooling system keeps temperature stable, protecting components and ensuring continuous performance during extended periods of operation.





Integrated Control System

Welding functions and parameters are integrated into the equipment. The user accesses these through an 7" touchscreen.

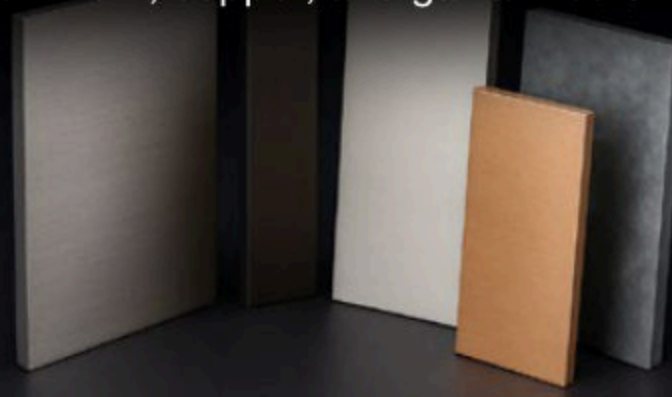
3-in-1 Functionality

A single unit that combines welding, cutting, and cleaning, streamlining processes and reducing the need for multiple machines.



Application Versatility

Supports a wide range of metals, enabling precise and consistent welding on stainless steel, carbon steel, aluminum, copper, and galvanized sheets.



Extended Voltage Range

Operates reliably from 220 to 380 V, adapting to different electrical setups without compromising performance.



Compatible with Single or Dual Wire Feeders

The system can be adapted to use a single or double wire feeder, allowing thicker weld beads when required, without compromising stability or quality.



Technical Information			
Model	PTLM3.1 - 1500W	PTLM3.1 - 2000W	PTLM3.1 - 3000W
Laser Power	1500W	2000W	3000W
Operation Mode	Continuous / Modulation		
Laser Wavelength	1070NM		
Power Stability	±2%		
Electricity Supply	220V / 380V		
Machine Feeding	9Kw	10Kw	12Kw
Ambient Humidity Range	70% Non-condensing		
Maximum GAP	0.5mm		
Max. Welding Speed	120 mm/s		
Dimensions (in)	47 x 43 x 26 in		47 x 43 x 47 in
Dimensions (mm)	1190 x 1100 x 650 mm		1190 x 1100 x 1200 mm

WELDING / CUTTING / CLEANING

Laser Machine



Available models
PTLC3.1-1500W-3 in 1

Integrated Wire With Easy Access

Its smart design conceals the wire inside the machine, providing quick and easy access for faster and safer replacements.



Compact and Efficient Design

Its reduced-size structure optimizes workspace, allowing easy installation in diverse environments without compromising performance.



Protected Head Storage

The head is stored inside the machine when not in use, remaining concealed and protected for greater safety and durability.



Lightweight and Ergonomic Gun

Its lightweight design allows easy handling, providing greater comfort and precision during operation.



3-in-1 Functionality

Engineered to cut, weld, and clean with equal efficiency, delivering versatility and practicality in a single system.



Practical Air Cooling

The air cooling system simplifies maintenance, removes the need for water circuits, and ensures reliable performance at all times.



Low Energy Consumption

Engineered to operate with reduced power demand, optimizing energy use and lowering operating costs.



Material versatility

Supports a wide range of metals, enabling precise and consistent welding on stainless steel, carbon steel, aluminum, copper, and galvanized sheets, ensuring top quality in every application.



Technical Information

Model	PTLC-1500W-3 in 1
Laser Power	1500W
Operation Mode	Continuous / Modulation
Laser wavelength	1070NM
Power Stability	±2%
Electricity Supply	220V / 380V
Machine feeding	9Kw
Ambient humidity range	70% Non-condensing
Maximum GAP	0.5mm
Max. Welding speed	120 mm/s
Dimensions (in)	24 x 12 x 26 in
Dimensions (mm)	620 x 300 x 677 mm

After Sales Support

Excellence in after-sales service

After Sales Technical Service

We have the ability to read the equipment parameters, view the execution of the programs and control the configurations remotely to correct a problem immediately if necessary.



Spare parts Original Spare Parts Always Available

We maintain a complete stock of original spare parts for all our machines, ensuring compatibility, durability, and maximum reliability. Our goal is to keep every system performing without interruptions, providing technical support and immediate availability for replacements whenever needed.



Consumables Nozzles, diffusers and contact tips

We provide original, high-quality consumables for all our machines, ensuring immediate availability and consistent performance in every application.



Alien Industrial Solutions

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Power, Precision, Welding, Delivered.

Built to empower modern fabrication, combining cutting-edge laser welding technology with robust performance, unmatched precision, and flawless seams in every application.



Patagonia CNC

Patagonia CNC Machines, your global partner in industrial automation

We are leaders in industrial automation, operating the largest plant in South America in Argentina, where we design and manufacture CNC machines, robots, production lines and cells, customizable routers and laser cutting machines, and provide integrations for the automotive, MIG/SPOT welding, and general industry sectors.

- Turnkey Solutions, from concept to production.
- Competitive Investment Cost.
- Training and Support
- Post Sales Support.
- Offer Standard and Fully Customized Solutions.

