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THOUGHT-LEADER IN STEEL PROCESSING AUTOMATION

AUTOMATED ROBOTIC WELDING SYSTEMS FOR STEEL CONSTRUCTION COMPONENTS



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TACKLING AUSTRALIA'S STEEL CONSTRUCTION CHALLENGES WITH CLOOS ROBOTIC WELDING

Australia's steel construction industry is facing increasing challenges, from labour shortages and rising material costs to the growing demand for precision and efficiency. Traditional welding methods are struggling to keep pace, making automation a necessity for manufacturers looking to stay competitive. With stricter compliance standards and the need for greater productivity, businesses must adopt smarter welding systems to maintain quality and reduce operational costs.

CLOOS automated robotic welding systems offer a game-changing system by reducing reliance on skilled labour, increasing production efficiency, and ensuring consistent weld quality. These advanced systems enable manufacturers to achieve higher throughput with minimal downtime while also enhancing workplace safety. By integrating precision-engineered robotic welding systems, businesses can streamline their operations, minimise rework, and meet sustainability targets.

CLOOS robotic welding systems are already transforming steel fabrication worldwide. Explore our reference projects and layout options to see how leading manufacturers have successfully integrated CLOOS robotic welding systems into their production lines.



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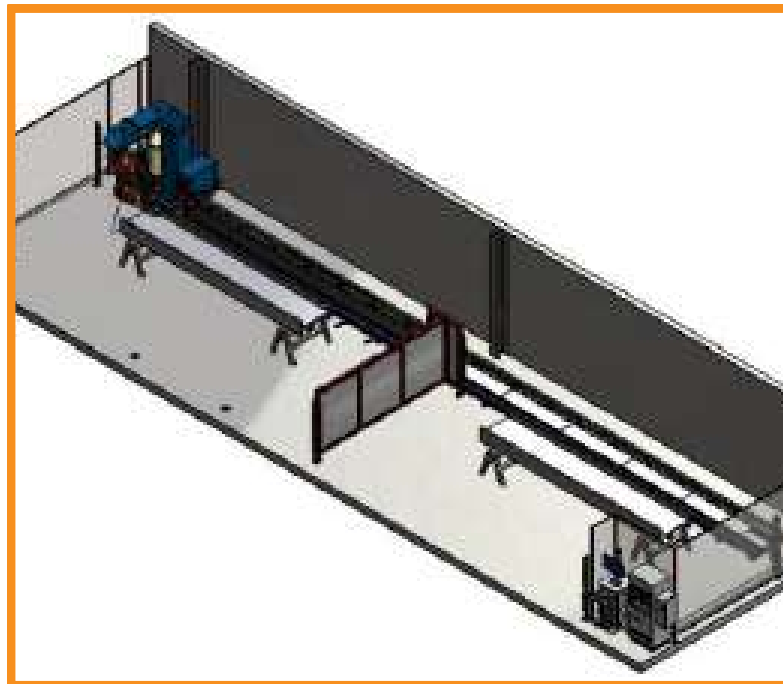
DISCLAIMER

Non-disclosure agreements have been concluded with customers for many projects. Therefore, the information and/or data to be kept secret may not be disclosed to third parties without consultation and approval.

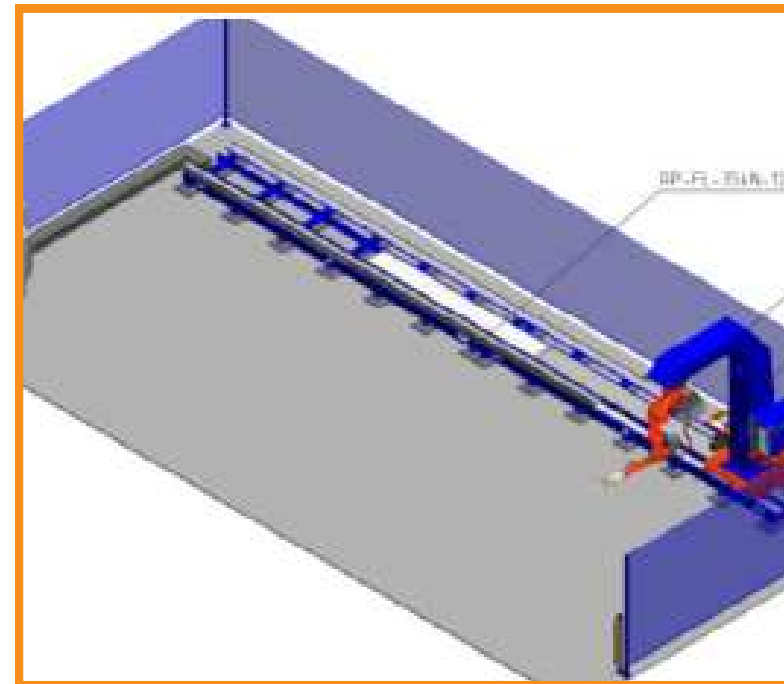


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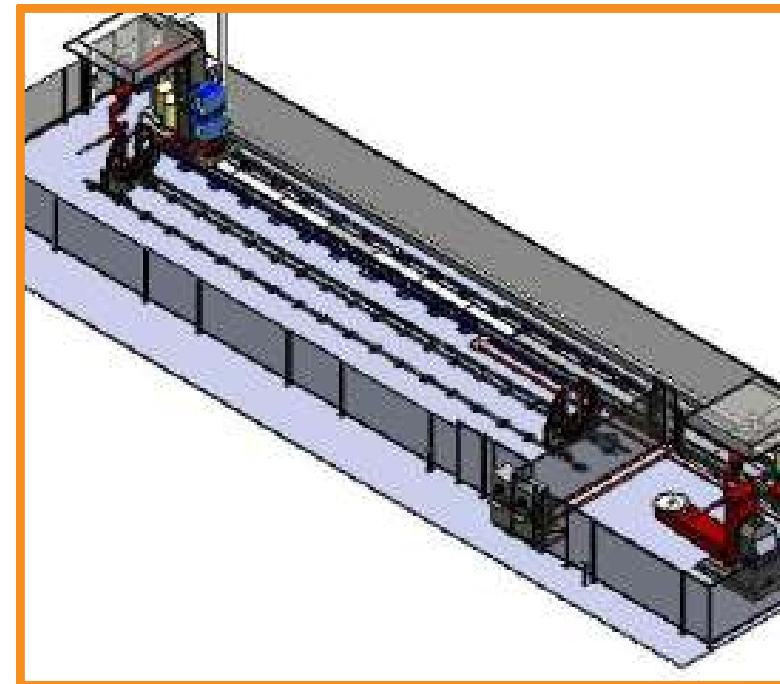
BENEFIT FROM OUR WELDING AND ROBOT SYSTEMS FROM A SINGLE SOURCE



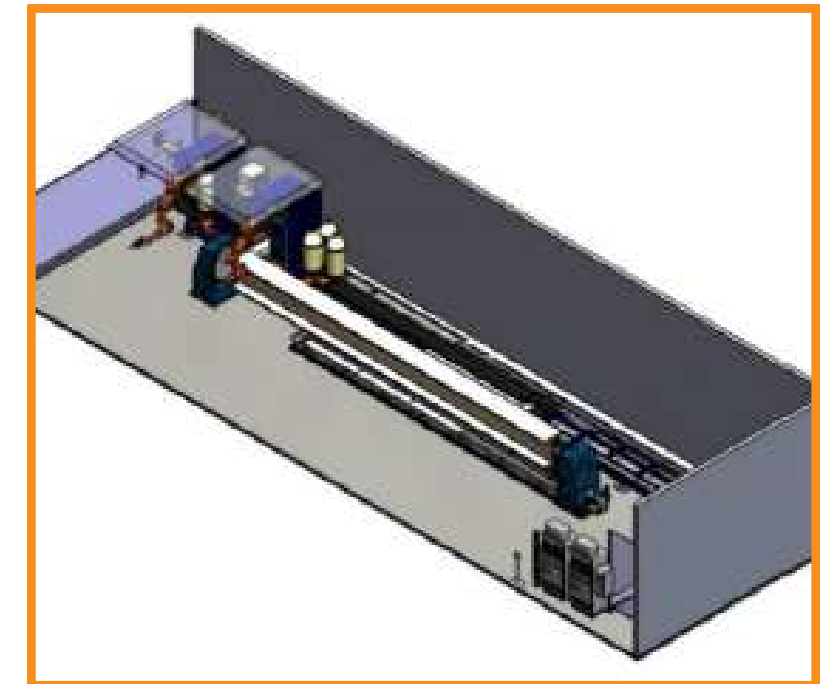
ECONOMIC
single part production



FLEXIBLE
production planning



RELIABLE
production



CONSTANT
quality



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FOUR GOOD REASONS FOR A ROBOT SYSTEM BY CLOOS

Economic single part production

- Automatic programming with IRPS Instant Robot Programming System and offline programming software
- Improved cycle times by eliminating search routines when using IRPS
- Maximum welding speeds with Tandem Weld
- Low production costs
- Short payback periods

Flexible production planning

- Special positioners for steel construction
- Programming during production
- Big robot working area

Reliable production

- Simple and intuitive operation
- Efficient and innovative welding technology from our own development
- Planning reliability and collision control due to prior simulation

Constant quality

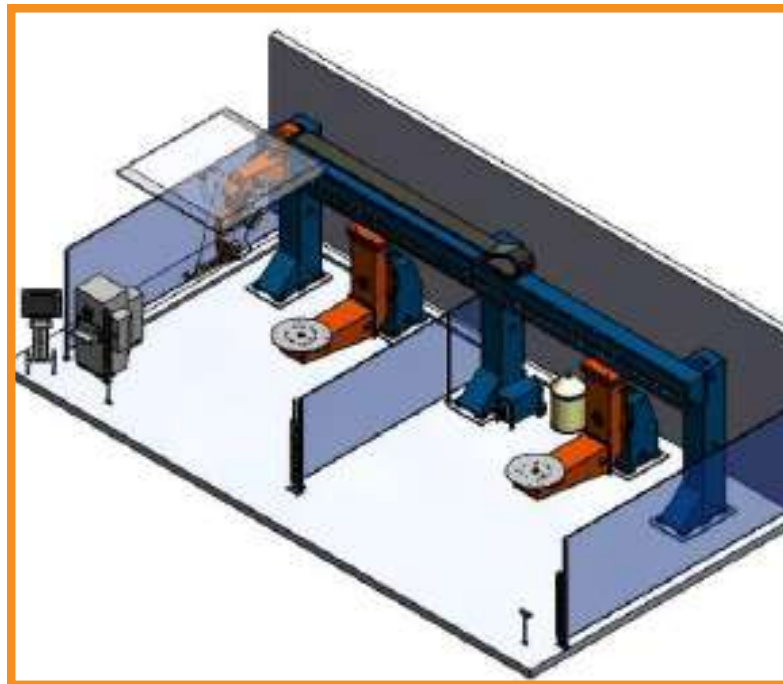
- Automatic weld data recording for assemblies requiring documentation
- Tolerance compensation by means of sensor technology
- The right process for every welding task



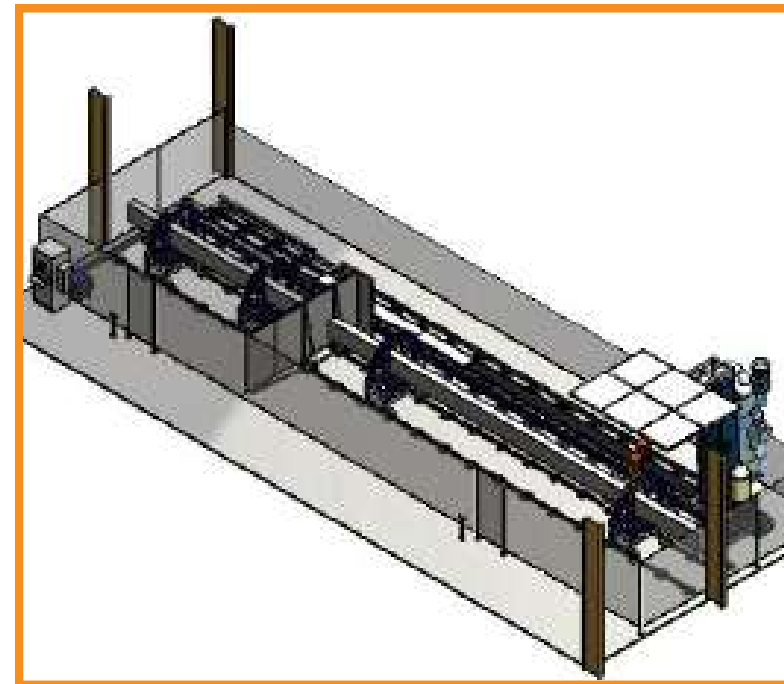


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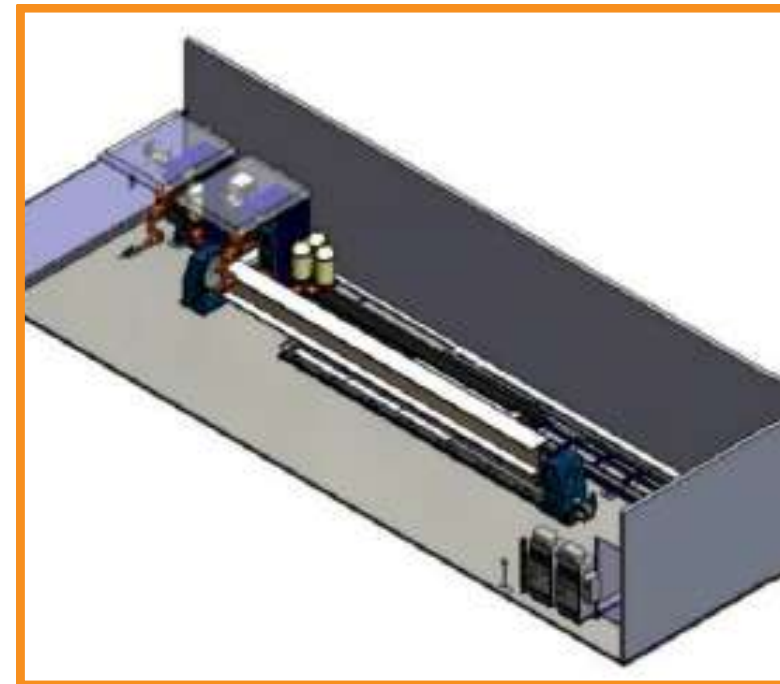
SAMPLE LAYOUT OPTIONS



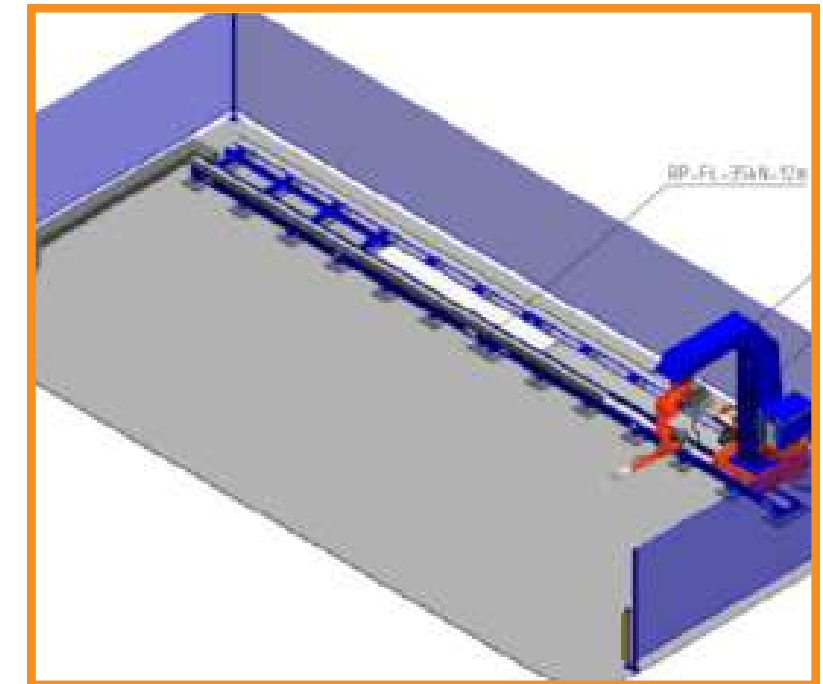
LAYOUT OPTION 1



LAYOUT OPTION 2



LAYOUT OPTION 3

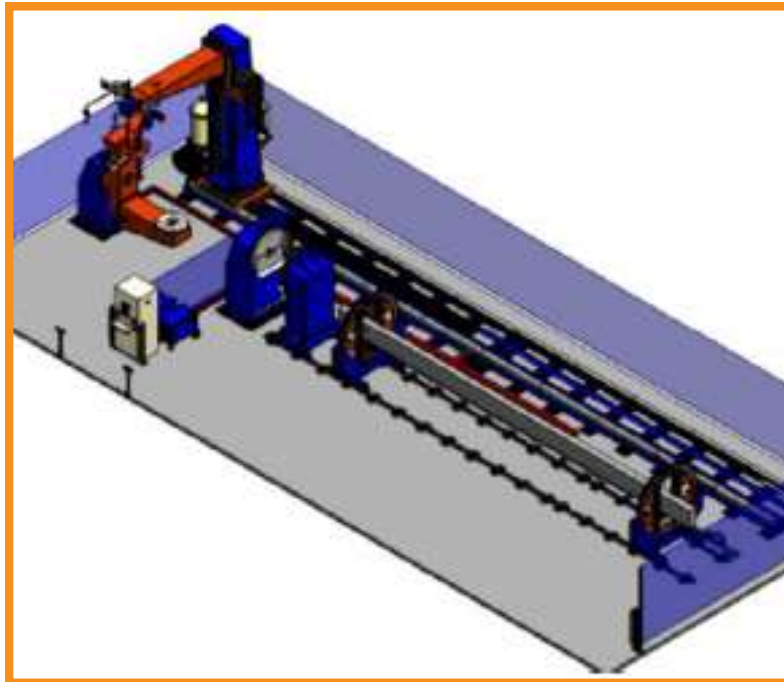


LAYOUT OPTION 4

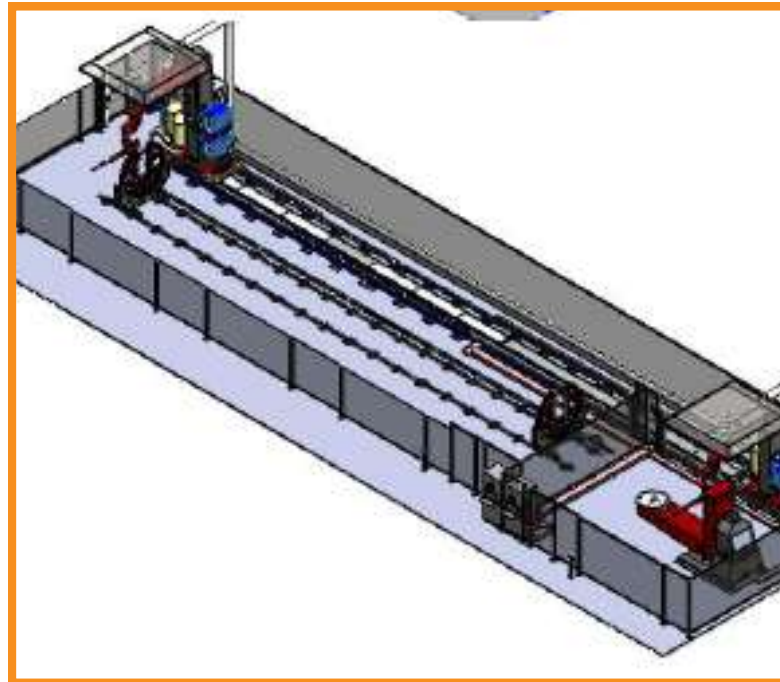


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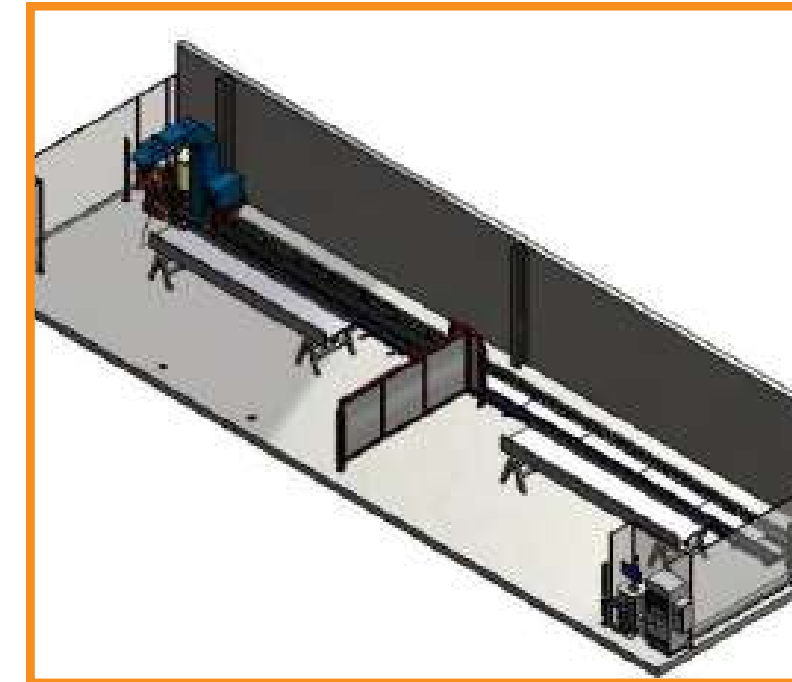
SAMPLE LAYOUT OPTIONS



LAYOUT OPTION 5



LAYOUT OPTION 6



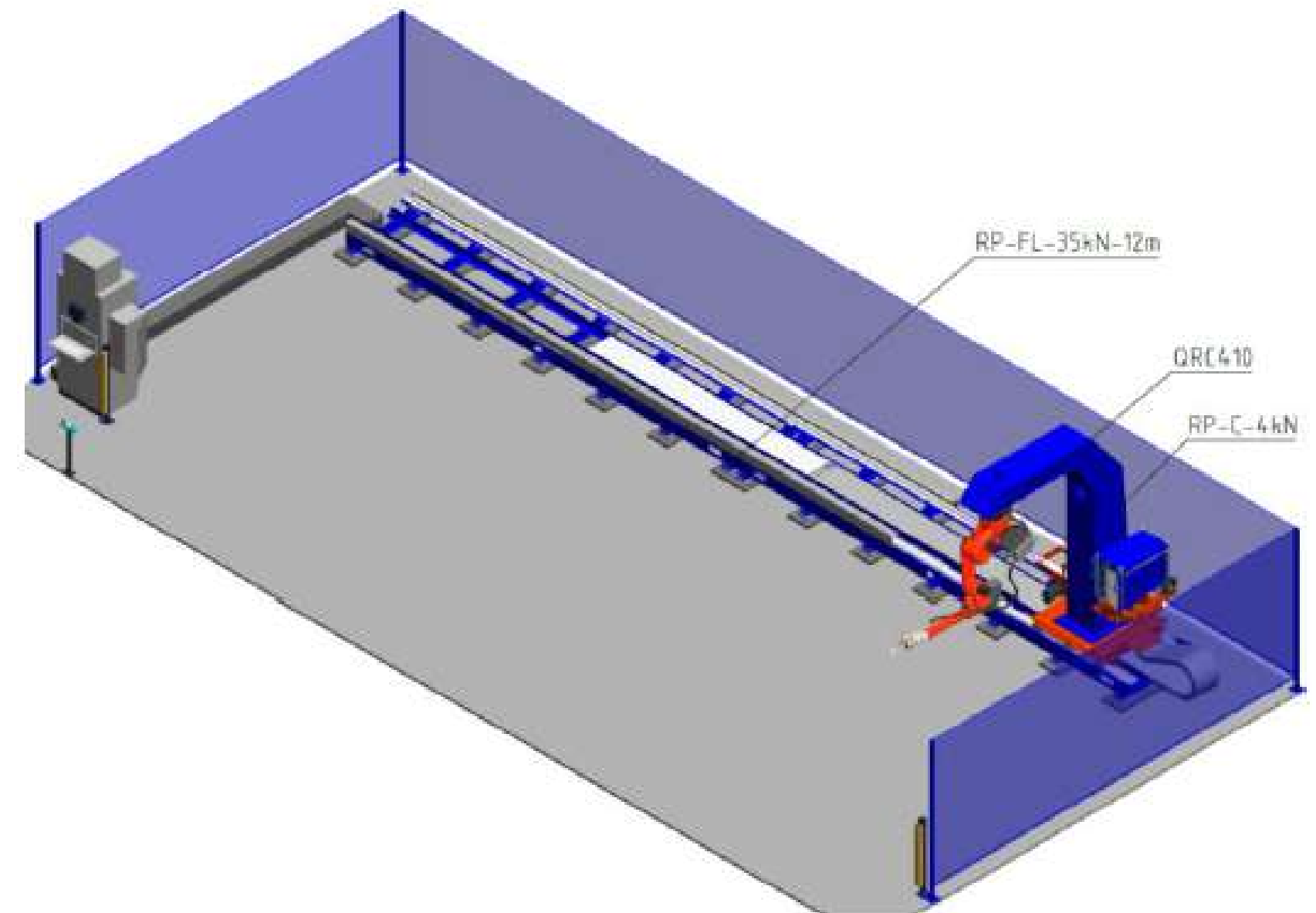
LAYOUT OPTION 7



BUDGET LAYOUT 1 - ONE-STATION SYSTEM

System Price	starts from € 240,000.00
External Dimensions of the System (approx.)	14 x 6.5 x 3.5 m
Component Length Concept	10 m (every other length possible)

- Overhead mounted QIROX 6-axis robot for flexible and greatest possible coverage of the working area
- QINEO MIG/MAG Pulsed arc welding power source for optimum welding results
- Welding technology in water-cooled design for highest loads
- Workpiece positioner optionally available

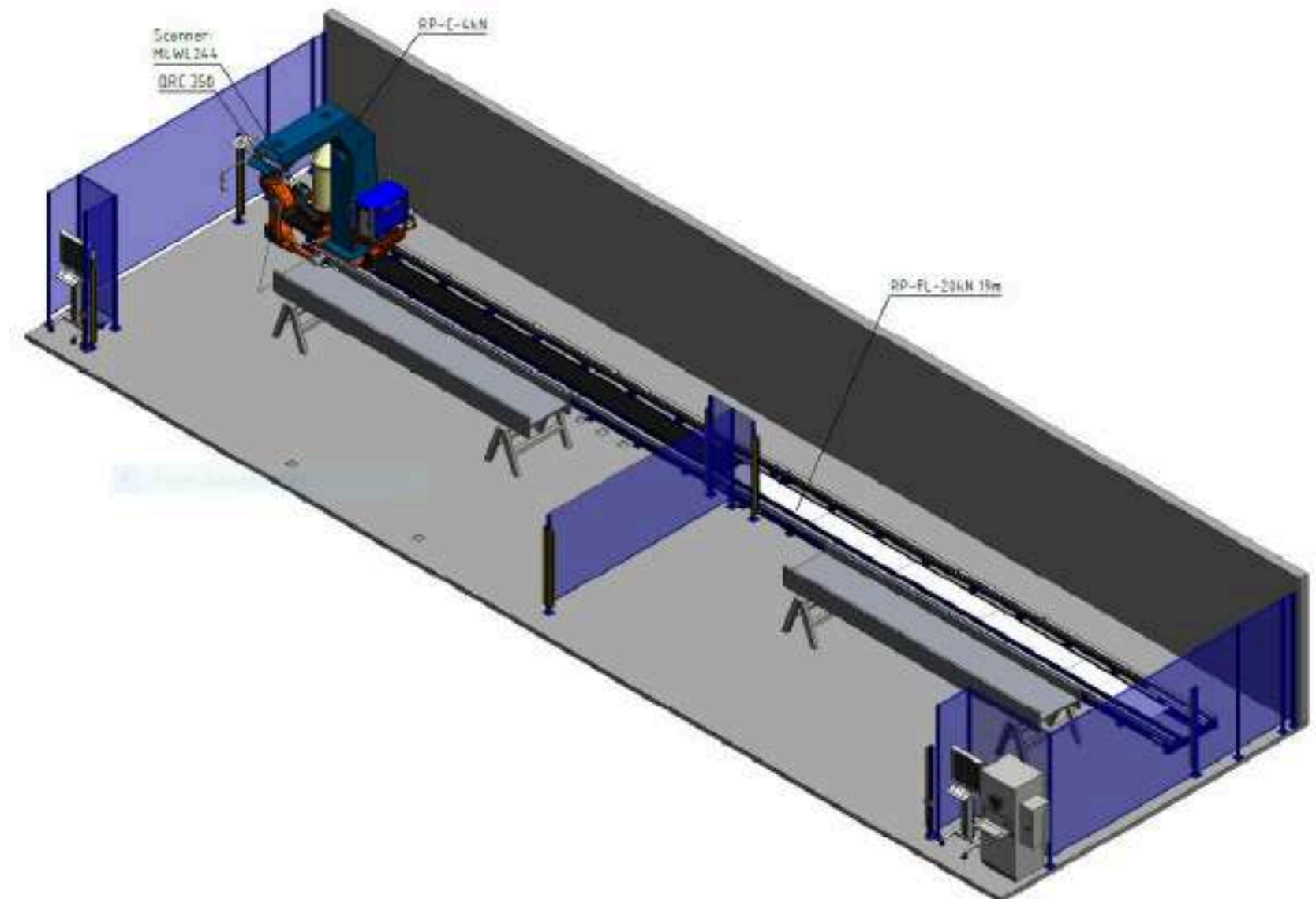




BUDGET LAYOUT 2 - TWO-STATION SYSTEM

System Price	starts from € 276,000.00
External Dimensions of the System (approx.)	24 x 6.5 x 3.5 m
Component Length Concept	2 x 8 m / 1 x 20 m (every other length possible)

- Overhead mounted QIROX 6-axis robot for flexible and greatest possible coverage of the working area
- QINEO MIG/MIG/MAG Pulsed arc welding power source for optimum welding results
- Welding technology in water-cooled design for highest loads
- Two-station concept: While welding is taking place in one station, the next component can already be prepared in the other station





SYSTEM EQUIPMENT



ROBOT TECHNOLOGY

- QIROX QRC-350 6-axis robot including accessories
- QIROX controller with fully integrated interface for the CLOOS welding technology



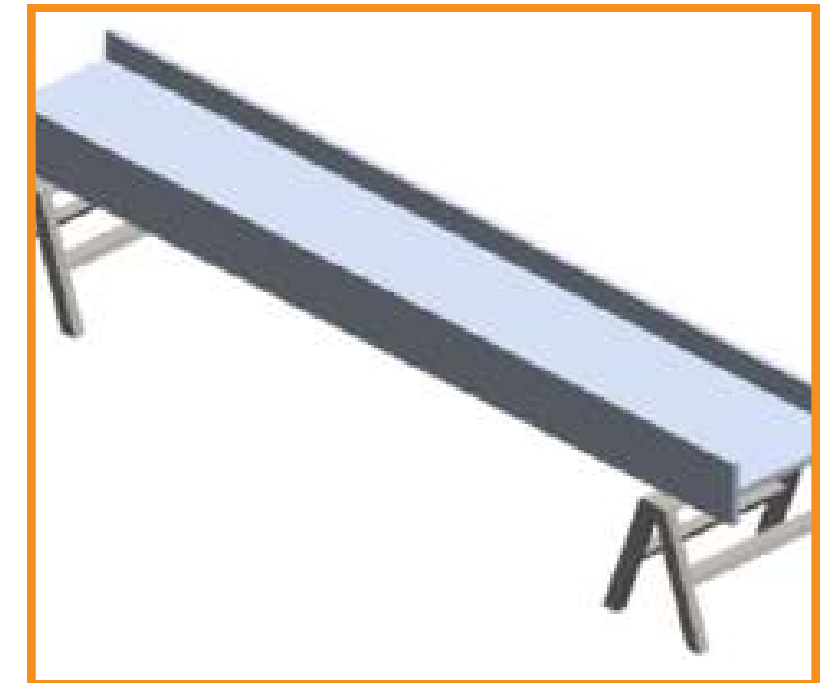
WELDING TECHNOLOGY

- QINEO NEXT 452: MIG/MAG Pulsed arc welding power source including water-cooled accessories
- The latest welding processes for best welding quality



ROBOT POSITIONERS

- FL-20kN Floor-mounted linear track for perfect robot positioning
- Travelling speed: 1.2m/sec
- Console for moving wire drum
- C-frame with big projection or robot overhead mounting



WORKPIECE POSITIONERS

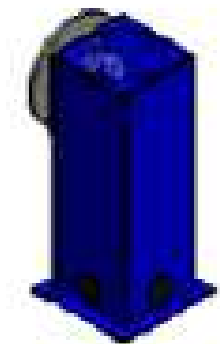
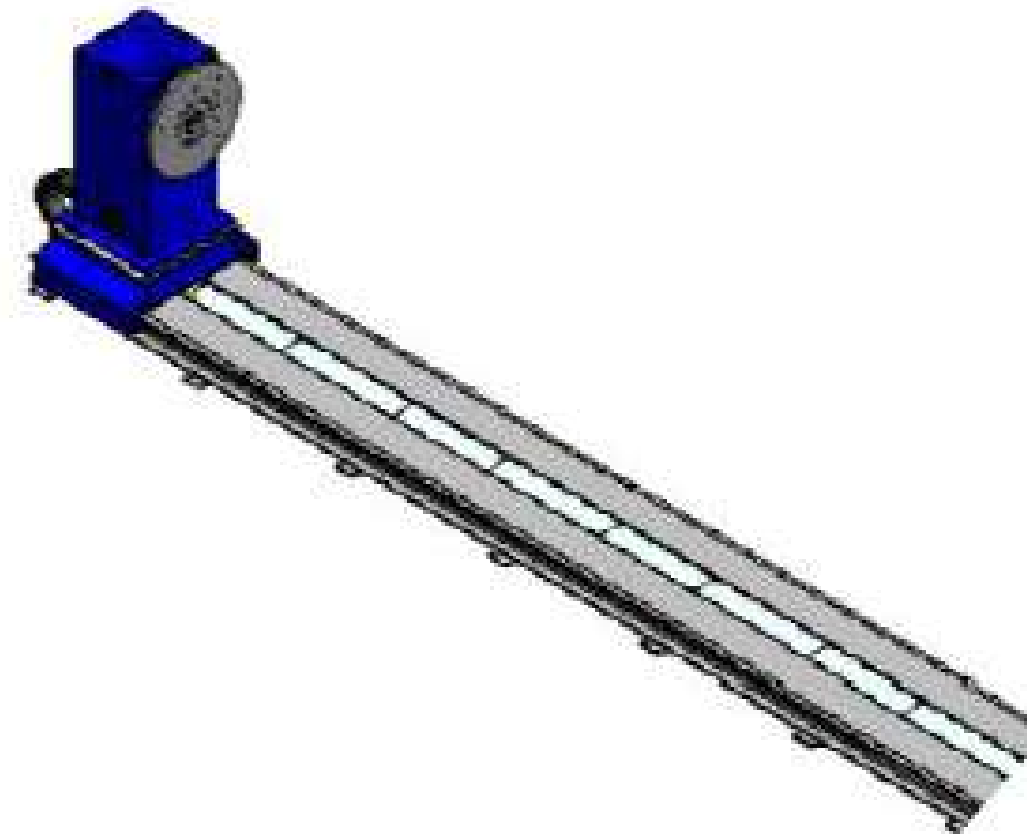
- Provision by customer



OPTION 1 - WORKPIECE POSITIONERS

Price	starts from € 60,000.00
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- Max. payload: up to 200 kN
- Workpiece positioner with vertical rotation, driven counter bearing and perfectly matched mass transfer for long components
- Counter bearing manually movable for flexible component lengths

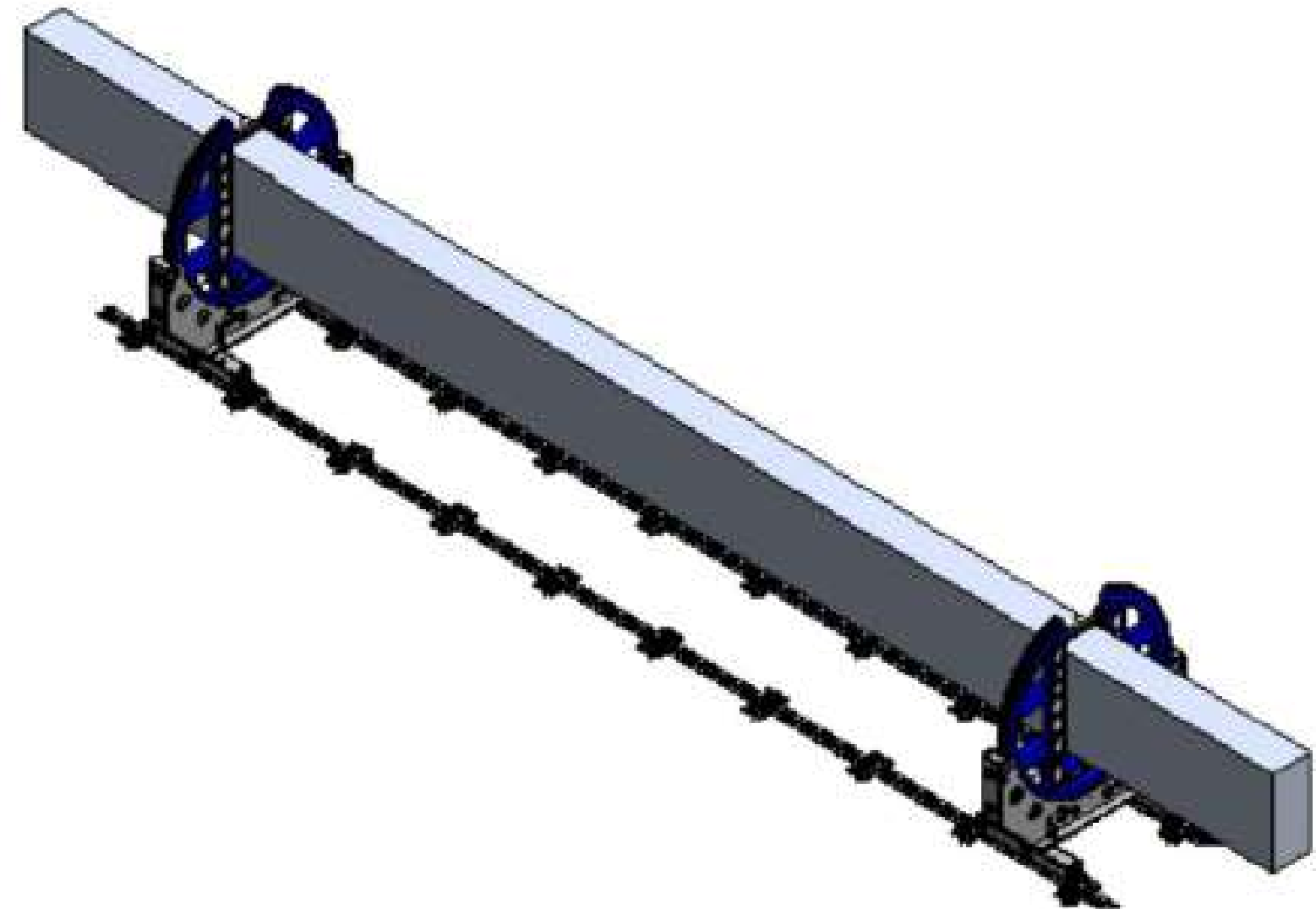




OPTION 2 - WORKPIECE POSITIONERS

Price	starts from € 180,000.00
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- Workpiece positioner with two clamping and turning units
- 2 freely programmable turning axes (electrically synchronised)
- Min. beam dimensions: 70 x 180 mm
- Max. beam dimensions: 400 x 900 mm (up to 1200 mm)
- Max. payload: 30 kN per clamping unit
- Rotating speed: 28°/sec
- Rotation angle (270°): 90 to -180°



CUTTING-EDGE WELDING AUTOMATION AT GYM80

At gym80, a global leader in high-performance fitness and medical equipment, precision and durability are non-negotiable. To meet soaring demand and deliver unmatched quality, gym80 relies on eight CLOOS QIROX robotic welding systems at its Gelsenkirchen facility in Germany.

By automating more than 70% of all welding tasks, gym80 has doubled production output, improved flexibility across product variants, and ensured perfectly repeatable weld quality—crucial for heavy-duty steel frames used in elite strength training and rehabilitation equipment.

The integration of 7-axis overhead robots and dual-station compact cells allows for seamless loading/unloading, minimal downtime, and safe working conditions—enabling skilled staff to focus on monitoring rather than manual welding.

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HOW SAF MEXICO ACHIEVES TOP-QUALITY WELDING WITH CLOOS AUTOMATION

At SAF Mexico, manufacturing commercial vehicle chassis isn't just about assembly—it's about delivering unmatched strength, precision, and production efficiency at scale. To meet these demands, SAF has partnered with CLOOS, deploying an advanced robotic welding system purpose-built for high-throughput fabrication of truck and trailer frames.

The solution is more than just a robot—it's a fully integrated, high-performance welding cell featuring multi-station robotics, synchronised turntable handling, and automated torch manipulation. These features enable the system to seamlessly adapt to large, complex geometries while maintaining weld consistency and structural integrity across every frame component.

By reducing manual handling, accelerating cycle times, and eliminating variability in weld quality, the CLOOS system delivers both process reliability and operational flexibility—essential for SAF's evolving production goals in the heavy transport sector. It's a solution that not only meets the demands of today's chassis manufacturing—but is future-ready for tomorrow's vehicle innovations.

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INSIDE MERITOR: CLOOS ROBOTIC WELDING CELL

CLOOS has partnered with Meritor, a global Tier 1 supplier of drivetrain, mobility, braking, and axle technologies, to deliver a highly specialised robotic welding automation solution. Designed specifically for the production of commercial vehicle axles and drivetrain assemblies, the V6-1 robotic cell exemplifies how precision engineering and intelligent automation can elevate manufacturing standards in the heavy vehicle sector.

At the heart of the system is a multi-axis QIROX welding robot capable of reaching intricate weld seams with absolute precision. Combined with programmable positioners, advanced torch manipulation, and seamless workpiece handling, the system tackles challenging geometries that would be difficult, inconsistent, or time-consuming using manual welding methods. Integrated safety features ensure operator protection, while the system's dual-station setup enables parallel loading and welding, minimising idle time.

This end-to-end automation not only improves weld consistency and structural integrity across complex components but also allows Meritor to achieve higher throughput with reduced labour input. The result is a robust, repeatable, and scalable production process that aligns with Meritor's global quality benchmarks—delivering both operational efficiency and long-term competitive advantage.

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QIROX ROBOSCAN AT KERN STAHL- UND METALLBAU

Component	Procedure	Material
-	Speed Weld	Steel

Ernst Kern GmbH specialises in both large-scale industrial projects and private construction developments, bringing decades of expertise in steel and metal construction. To enhance efficiency and precision in their manufacturing processes, the company integrated a CLOOS welding robot equipped with the advanced QIROX RoboScan programming system into their production line in mid-2022.

This robotic welding system has significantly streamlined their operations by reducing programming time and simplifying workflows. With its intelligent automation capabilities, the QIROX RoboScan system allows Ernst Kern GmbH to automatically weld even highly customised workpieces in batch sizes as small as one. The result is greater flexibility, improved weld quality, and increased productivity—helping the company meet the demands of both complex industrial contracts and tailored private construction projects with unmatched efficiency.



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EFFECTIVELY WELD SMALL BATCH SIZES WITHOUT PROGRAMMING EFFORT

Component	Procedure	Material
Hall Support	Control Weld	Steel

As an innovation-driven partner in steel and building construction, Schwevers integrates cutting-edge systems to optimise industrial and commercial projects. With CLOOS' QIROX RoboScan, the company has not only streamlined its welding processes but also impressed both customers and employees with its efficiency. The system's minimal programming effort and intuitive operation now enable automatic welding of batch size 1 workpieces.

The process begins with the operator positioning the workpiece, after which a longitudinally mounted scanner records the component's surface. The system identifies various weld seams, converts the scanned data into a 3D model, and automatically generates the welding program by comparing it with stored component geometry.

Before execution, the operator can refine weld seam length or direction. Once finalised, QIROX RoboScan transfers the complete program to the robot controller, and with a single button press, the automated welding process begins—enhancing precision, efficiency, and productivity in steel construction.





TRANSITION TO AUTOMATION AT MAP

Component	Procedure	Material
Stage	Vari Weld	Steel

MAP Maschinen- & Apparatebau Produktions GmbH is ramping up automation to boost efficiency and quality. The Rathenow-based company recently integrated three CLOOS robotic welding systems, streamlining operations and improving weld precision.

A key addition is the 2-station compact system, featuring a QIROX QRC-350-E welding robot. With its seven-axis flexibility, the robot handles complex components with greater accuracy and speed. This setup reduces cycle times while optimising welding precision.

For maximum coverage, the robot is mounted overhead on a C-stand and operates along a floor-mounted track with a motorised carriage. This allows seamless horizontal movement, eliminating the need for repositioning and ensuring higher productivity with consistent weld quality.



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COMPACT ROBOT CELL FOR PROCESS RELIABILITY AND TOP QUALITY AT HALDER

Component	Procedure	Material
Soft-faced hammer	Vari Weld	Steel

Halder, a family-run company and the global leader in soft-face hammers, has been perfecting its craft for over 75 years. To further enhance quality and efficiency, the hidden champion from Achstetten, Baden-Württemberg, has fully automated its welding production with the QIROX QR-CC-6 compact robot cell from CLOOS.

This advanced robotic solution ensures consistent quality, precision, and reproducibility in every hammer produced. Designed for seamless integration, the compact cell takes up minimal space while offering optimised sensor, control, and safety technology. The two-station positioner with rotary and swivel movements allows for efficient, high-precision welding, reducing cycle times and increasing overall productivity.



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WELDING ROBOT FOR LADDER CONSTRUCTION AT HEUN

Component	Procedure	Material
Ladders	Vari Weld	Steel

The Heun Group has relied on CLOOS welding technology for decades. The company uses this robot system to weld ladders for civil engineering. The system consists of two stations that are set up the same on both sides. This allows the employee to remove the welded workpieces on one side and reload the device, while the welding process takes place on the other station. The system produces a wide range of different types of ladder. The width of the ladders and the number of rungs vary greatly.

This is why the robot is equipped with a tactile gas nozzle sensor. The sensor uses an electromechanical sensing principle to determine the start and end of the weld seam. The programmed welding distance is corrected accordingly. The system therefore automatically adapts the welding process to the type of ladder. This means that only one program is required for the robot system, which makes operation much easier.



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ROBOT SYSTEM FOR WELDING COMPONENTS FOR HIGH-BAY WAREHOUSES

Component	Procedure	Material
High-rack Storage	Speed Weld, Tandem Weld	Steel

SSI Schäfer has put a high-performance CLOOS robot welding system into operation for its complex welded assemblies. Equipped with a welding torch changing system, the QRC360E robot uses two welding processes. In addition to the high-performance Tandem Weld welding process, the robot also uses the Speed Weld pulse welding process.

An extended special welding torch and the eccentric axis integrated into the robot mechanics give the robot system the necessary range and flexibility to optimally weld the complex component.





VARIWELD REDUCES REWORK TO A MINIMUM AT MATYSSEK

Component	Procedure	Material
Protective Housing	Vari Weld	Steel

The system consists of two stations and a 7-axis QRC-E 350 robot. The robot is mounted on a floor track and can move flexibly back and forth between the two stations. Due to its long range, it can easily be guided around corners or into niches.

The rotary and swivel positioner always moves the complex workpiece into an optimal position for welding. The large component – here a cover plate – is welded using the VariWeld process. Vari Weld generates an extremely low-spatter pulse arc, which reduces complex rework to a minimum. Due to the comparatively low temperature, the base material remains metallurgically untouched and the corrosion protection of the surface is maintained.



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MATYSSEK USES VARIWELD FOR LOW-SPATTER WELDING

Component	Procedure	Material
Inner Frame	Vari Weld	Steel

The system consists of two stations and a 7-axis QRC-E 350 robot. The robot is mounted on a floor track and can move flexibly back and forth between the two stations. Due to its long range, it can easily be guided around corners or into niches.

The rotary and swivel positioner always moves the complex workpiece into an optimal position for welding. The large component – here a cover plate – is welded using the VariWeld process. Vari Weld generates an extremely low-spatter pulse arc, which reduces complex rework to a minimum. Due to the comparatively low temperature, the base material remains metallurgically untouched and the corrosion protection of the surface is maintained.



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ROBOTS WELD TURNTABLE LADDERS FRO RESCUE VEHICLES

Component	Procedure	Material
Aerial Ladders	Vari Weld	High-strength Steel

Fire departments all over the world use vehicles from Rosenbauer Karlsruhe GmbH & CO. KG. The international technology leader for aerial rescue vehicles relies entirely on CLOOS for automated welding. The turntable ladder elements have been welded with two identical QIROX robot systems since mid-2019. The robot is mounted overhead on a track with vertical and horizontal lifting. The turntable ladders are placed between two workpiece positioners, each of which has a vertically arranged faceplate.

The workpiece attached between the faceplates is rotated around a horizontal axis of rotation into the optimal processing position. In addition, the robot systems are equipped with online and offline sensors to compensate for any component tolerances. By switching to automated welding technology, the company can respond even more flexibly to customer requests, saves time both during welding and in the ancillary processes, and achieves excellent welding results.



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MINIMUM PROGRAMMING EXPENDITURE

Advanced Programming Methods for Steel Construction

Steel construction often involves the production of small batch sizes, sometimes down to single, custom-fabricated pieces. Traditional industrial robot programming methods, such as the teach-in approach, can be time-consuming and inefficient for such highly variable production environments.

To address these challenges, more advanced programming systems are required to enhance flexibility, reduce downtime, and improve overall efficiency in robotic welding operations. To optimise automation in steel construction, we introduce three innovative programming methods designed to streamline workflow and maximise productivity:

- **Automatic Programming with IRPS Scanner** – This method enables real-time program creation during the production run, using intelligent scanning technology to adapt the welding process dynamically.
- **Automatic Program Generation with MOSES Offline Programming** – A powerful offline programming system that generates welding programs automatically, reducing setup time and ensuring seamless integration into production.
- **Efficient Program Generation with RoboPlan Offline Programming** – An intuitive offline programming tool that simplifies program creation, allowing for rapid adjustments and efficient handling of complex welding tasks.





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INSTANT ROBOT PROGRAMMING SYSTEM (IRPS)

In steel and metal construction, traditional robot programming can be disproportionately time-consuming, often making automation impractical for small batch sizes or custom workpieces. The IRPS (Instant Robot Programming System) revolutionises this process by enabling rapid program creation for automated welding, even for batch size 1. With IRPS, automation becomes not only feasible but also highly efficient, reducing setup time and maximising production flexibility.

Key Advantages

- Minimal Programming Effort – Quickly generate welding programs without the need for extensive manual input.
- No CAD Workplace Required – Simplifies the workflow by eliminating the need for complex CAD modeling.
- Higher System Efficiency – Enhances production output and overall machine utilisation.
- Workpiece Recognition & Tolerance Adjustment – Automatically detects part position and compensates for tolerances to ensure precision.
- Reduced or No Clamping Devices – Minimises the need for costly and time-consuming fixture setups.
- Shorter Planning Times – Accelerates project turnaround from design to execution.
- User-Friendly Operation – Intuitive interface makes programming accessible, even for operators with limited robotics experience.



**SYSTEM PRICE:
STARTS FROM € 180,000.00**

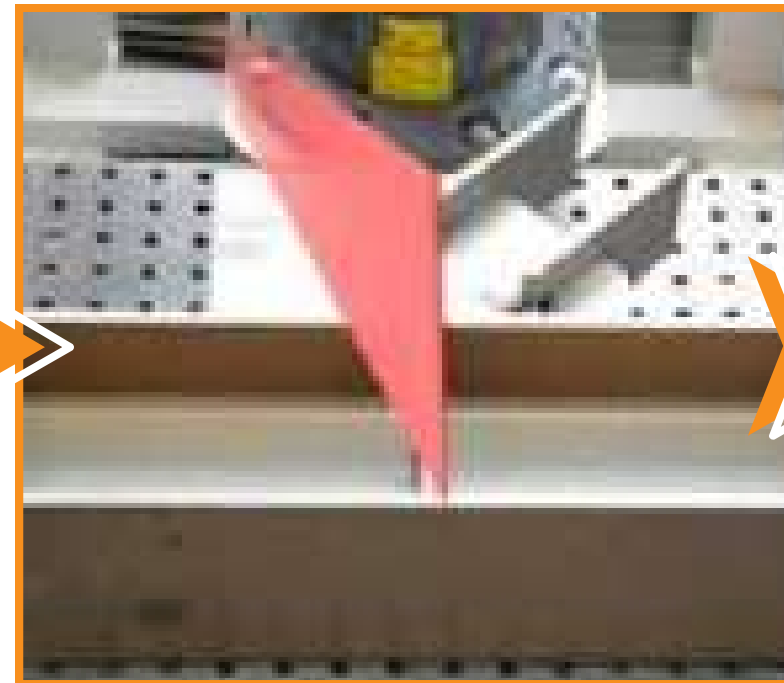


INSTANT ROBOT PROGRAMMING SYSTEM (IRPS)



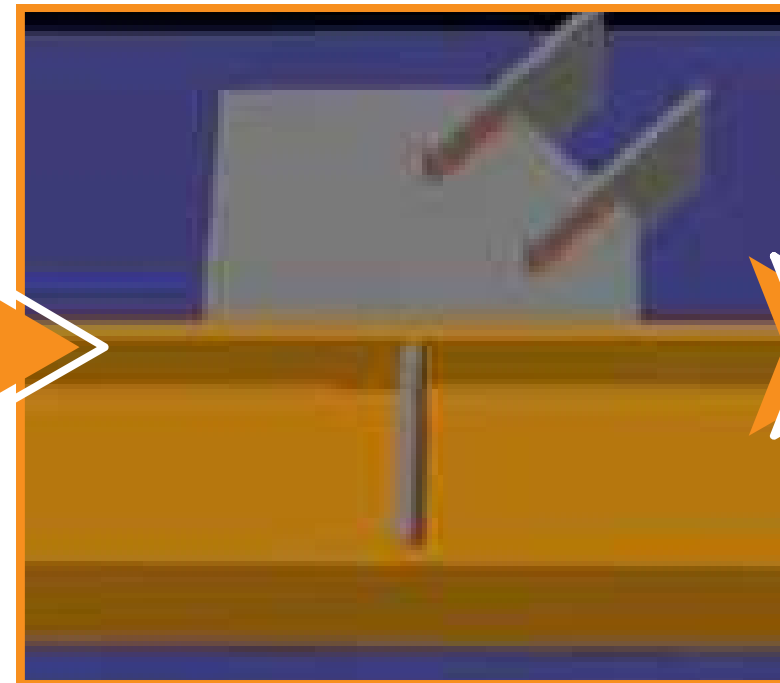
POSITIONING

The operator first freely places the tack-welded workpiece on the workstation of the robot system.



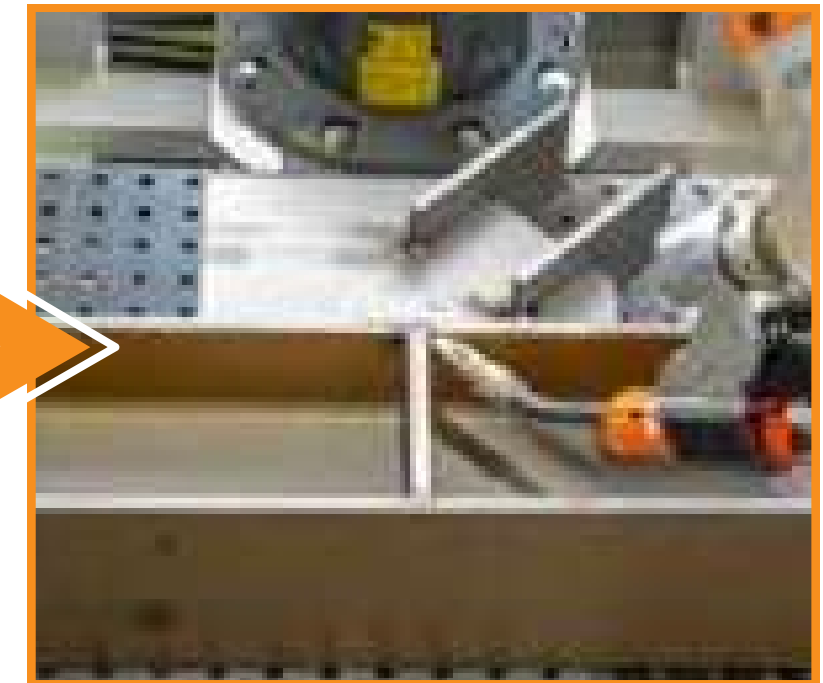
SCANNING

A scanner mounted on a longitudinal carriage scans the working area of the robot system and records the data.



VISUALISATION

The IRPS converts the recorded scanner data into a 3D model. By comparing this 3D model with the stored component geometry in IRPS, the welding program is automatically generated. The IRPS then transmits the fully generated program, including all welding data, to the robot control system.



WELDING

The operator starts the welding process by pressing a button on the IRPS monitor.



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OFFLINE PROGRAMMING - MOSES

The MOSES PC software is a powerful solution for automatic offline programming, specifically designed for the unique demands of steel construction applications. By streamlining program creation, MOSES enhances efficiency, reduces downtime, and enables seamless integration of robotic welding into complex manufacturing workflows.

One of its key features is the automatic program generation module, which eliminates the need for time-consuming manual programming. Data transfer is handled via a dedicated steel construction interface (WISCON) using DSTV-NC files, ensuring compatibility with standard industry formats and facilitating a smooth transition from design to production.

Key Advantages

- Fully Automated Robot Program Generation – Eliminates manual programming, reducing setup time and increasing productivity.
- Cost-Effective for Single-Part Production – Enhances efficiency even for small batch sizes or unique components.
- Parallel Programming and Production – Programs can be created on a PC while the robot system continues operating, minimising downtime.
- Advanced Simulation Capabilities – Enables visualisation of the welding process before execution, optimising accuracy.
- Collision Detection and Prevention – Identifies potential interferences in advance, ensuring smooth and safe operations.



**SYSTEM PRICE:
STARTS FROM € 72,000.00**



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OFFLINE PROGRAMMING - ROBOPLAN

RoboPlan revolutionises welding production by enabling offline programming of welding and travel paths, as well as sensor routines, directly from 3D models. This eliminates the need for time-consuming manual programming while the robot is in operation, maximising system utilisation and optimising the overall production process. By streamlining workflow efficiency and allowing for quick adjustments, RoboPlan provides greater flexibility in modern welding automation.

Key Advantages

- Offline Programming During Production – Increases system utilisation by allowing program creation while welding continues.
- Rapid Product and Component Adaptation – Speeds up changeovers and optimises production for varying workpieces.
- Prototype Programming – Enhances production planning by simulating and validating welding processes in advance.
- Higher Productivity & Flexibility – Enables faster processing of more parts in less time.
- Seamless Integration with CLOOS Systems – Ensures best-in-class function coverage for automated welding.
- Advanced Programming for Complex Structures – Handles intricate geometries with precision.
- Simulation & Collision Testing – Reduces errors and enhances safety by detecting potential conflicts before execution.

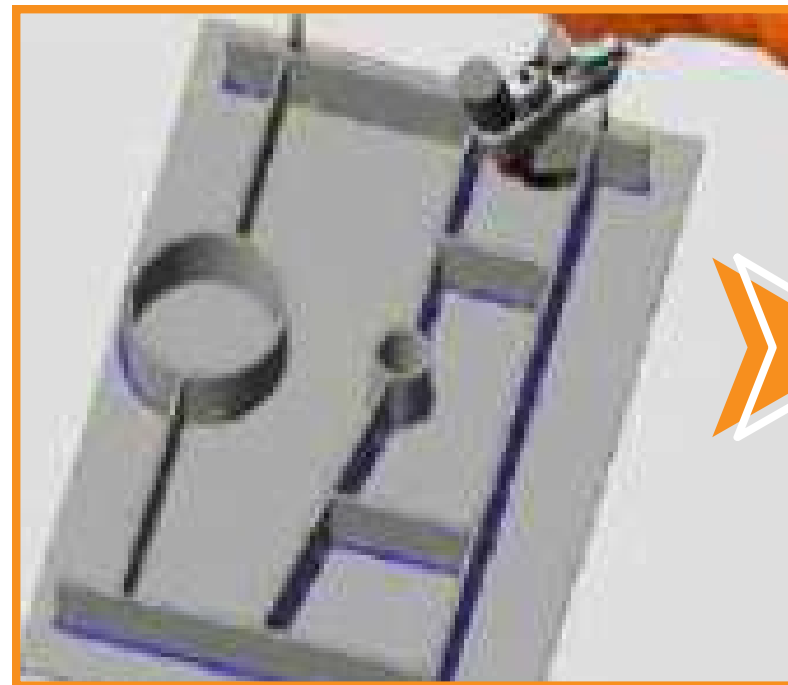


**SYSTEM PRICE:
STARTS FROM € 42,000.00**

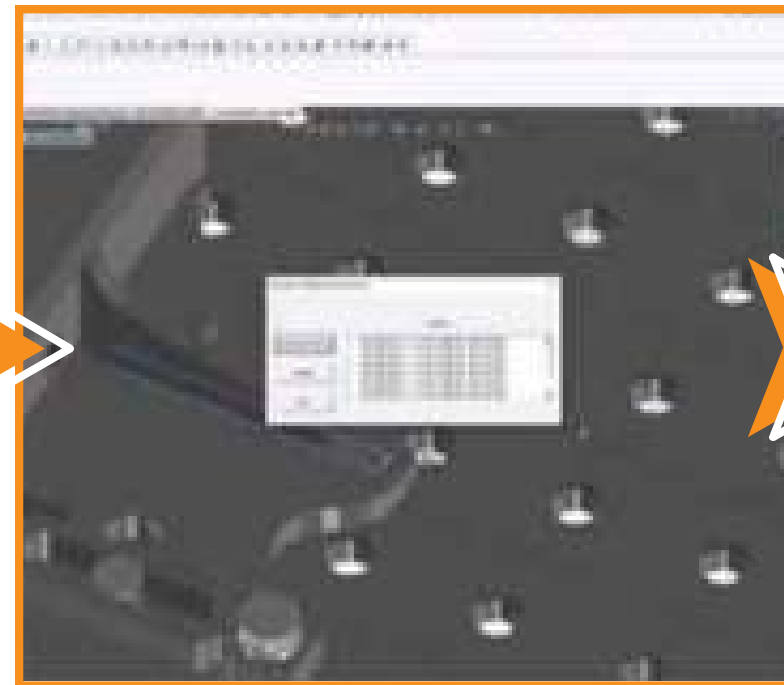


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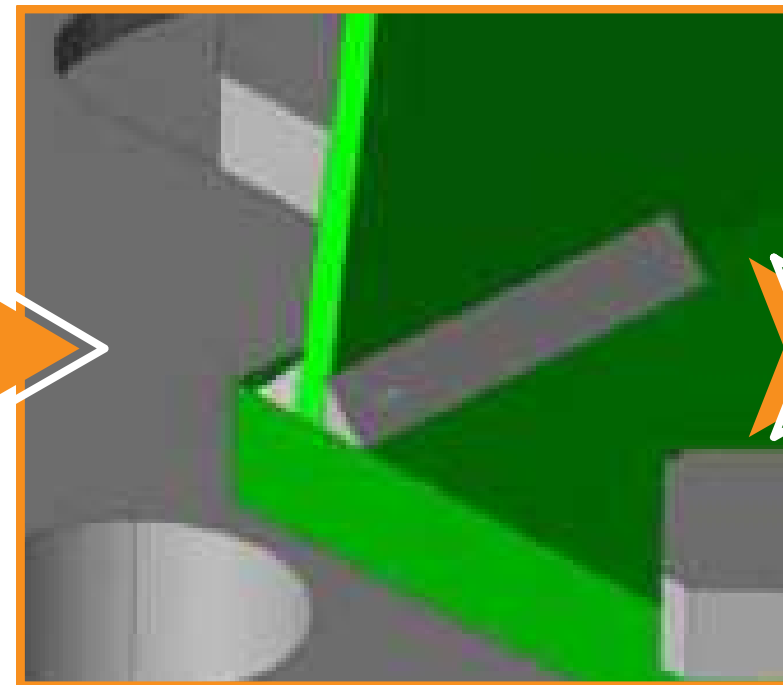
OFFLINE PROGRAMMING - ROBOPLAN



**AUTOMATIC PATH
OPTIMISATION**



**ROBOPLAN
CAD INTERFACE**



**WELDS
FROM CAD**



**WELDS
FROM CAD**



SUPERIOR TUBEX 550 - GERMAN-ENGINEERED HEAVY-DUTY 3D LASER PROFILE AND PIPE CUTTING MACHINE

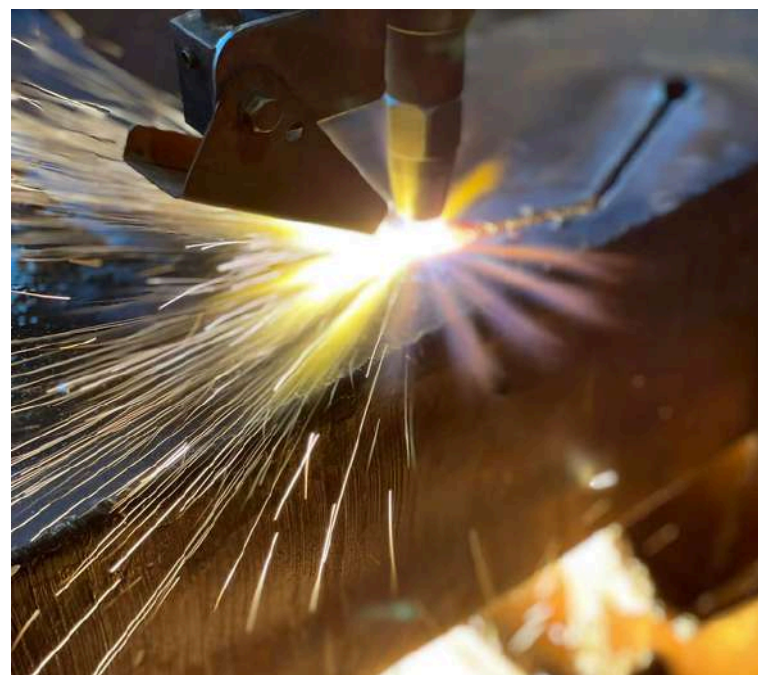
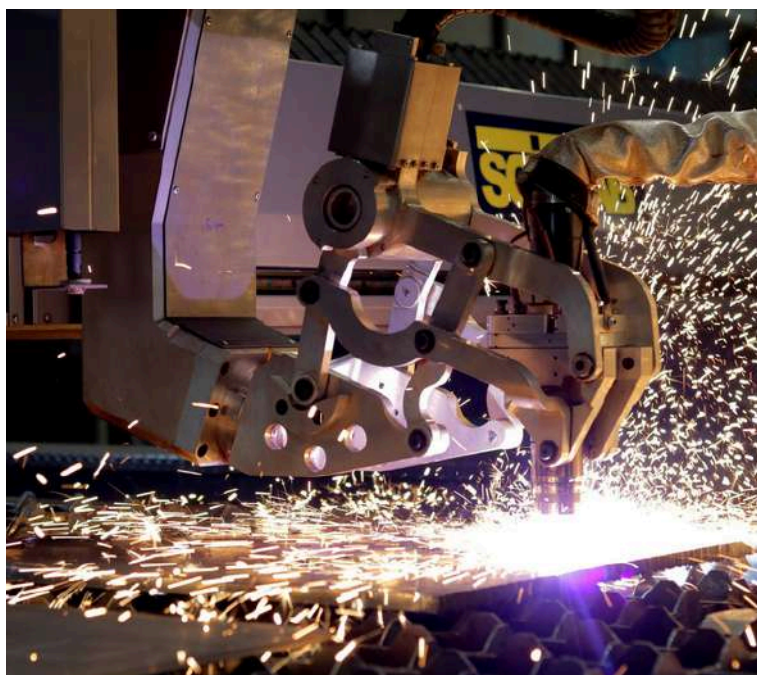
Unlike traditional systems adapted from pipe cutting platforms, the SUPERIOR TubeX 550 was purpose-built for structural steel profiles. Drawing on decades of beamline and coping robot experience, it handles everything from large 530 mm UBs to small 50×50 SHS with precision and efficiency.

Its four intelligent, servo-controlled chucks—superior to standard three-chuck designs—support heavy sections up to 2,200 kg/m while enabling zero-scrap operation. The universal jaws require no changeover, boosting speed and ROI. This exclusive system, developed from European beamline expertise, excels with bowed, twisted, or non-parallel profiles.

With AI-driven software built around structural steel logic, the TubeX 550 integrates layout marking, nesting, coping, and bevel cutting in a seamless, automated workflow. Paired with a next-gen carbon steel resonator, it offers high-speed processing, low operating costs, and the capability to triple throughput—future-proofing operations for growing domestic and export demand.



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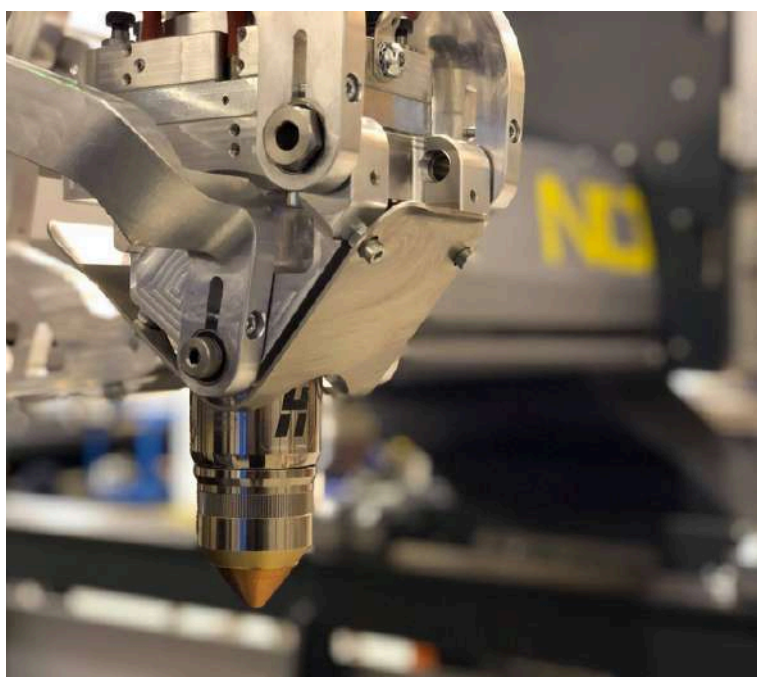


ENHANCE YOUR TRAILER MANUFACTURING WITH SOITAAB PLASMA AND LASER CUTTING SYSTEMS

Precision, speed, and efficiency are critical in trailer manufacturing, where high-quality cuts and optimal material usage directly impact productivity and cost-effectiveness. SOITAAB's advanced plasma and laser cutting machines, available through Specialist Machinery Sales, provide unmatched accuracy and reliability, helping manufacturers streamline production and reduce expenses.

Designed for high-volume steel processing, SOITAAB systems ensure clean cuts, minimal heat distortion, and maximum material utilisation. Whether cutting thick materials with high-speed plasma technology or achieving intricate, precise designs with fiber laser cutting, these versatile machines meet the toughest industry demands while maintaining superior edge quality.

With faster cutting speeds, automated features, and user-friendly CNC controls, SOITAAB machines enhance productivity and simplify operations while minimising waste and rework. Stay ahead in trailer manufacturing by integrating SOITAAB's cutting-edge systems. Contact Specialist Machinery Sales today to discover the best cutting system for your production needs.



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BOOST PRODUCTIVITY AND SAFETY WITH TEQRAM EASYFLIPPER

Efficiency, precision, and worker safety are essential in trailer manufacturing, where handling large, heavy components can be time-consuming and hazardous. TEQRAM's EasyFlipper and automated material handling systems, available through Specialist Machinery Sales, are transforming the industry by eliminating manual strain, reducing risks, and increasing productivity. These advanced systems enable manufacturers to flip, move, and process heavy parts effortlessly, ensuring smoother workflows and improved workplace safety.

Designed for chassis beams, heavy plates, and complex trailer parts, the EasyFlipper provides fast, secure, and damage-free flipping, eliminating the need for inefficient and risky manual handling. By automating material movement and deburring processes, TEQRAM solutions minimise downtime, improve part consistency, and optimise production cycles. This results in higher throughput, lower labor costs, and enhanced product quality, making them a game-changer for trailer manufacturers looking to improve operational efficiency.

By integrating TEQRAM's intelligent automation, manufacturers can eliminate bottlenecks, maximise efficiency, and maintain superior quality standards. Contact Specialist Machinery Sales today to learn how TEQRAM's innovative technology can revolutionise your manufacturing process.

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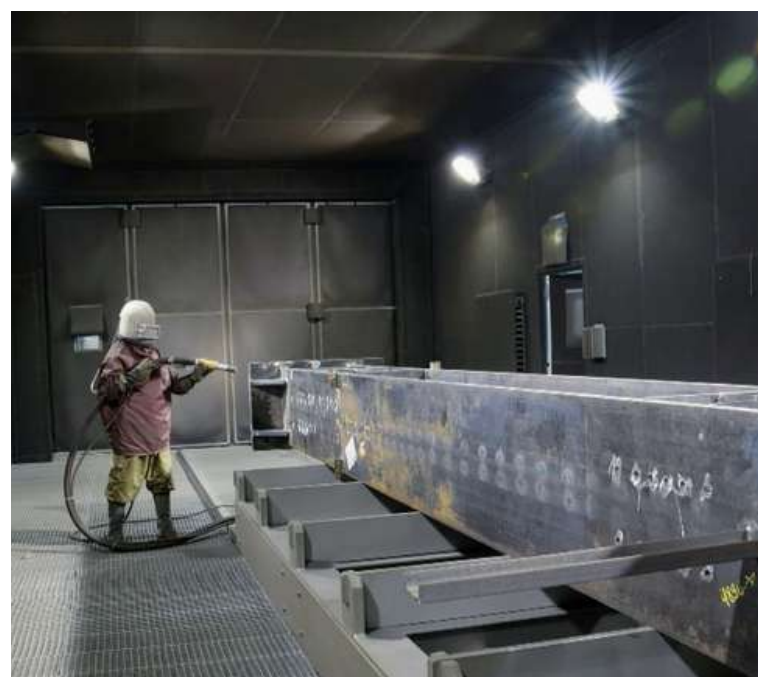
REVOLUTIONISE YOUR TRAILER MANUFACTURING WITH ADVANCED SURFACE TREATMENT SYSTEMS

In the competitive trailer manufacturing industry, durability, corrosion resistance, and flawless finishing are crucial. SLF's advanced surface treatment systems, available through Specialist Machinery Sales, provide cutting-edge blasting and coating systems that enhance quality, efficiency, and cost-effectiveness.

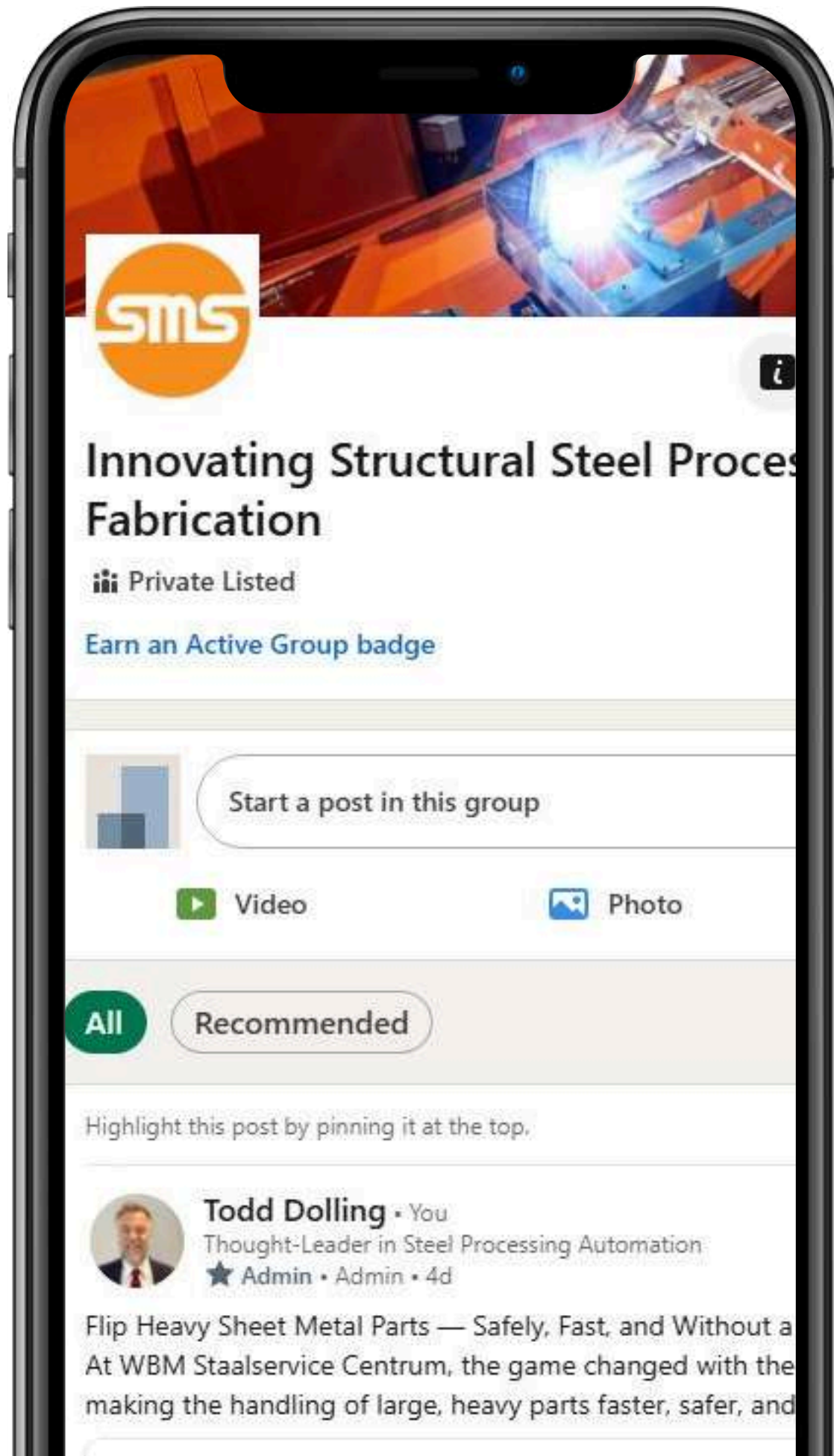
With state-of-the-art abrasive and wet blasting technology, these systems ensure optimal surface preparation for superior paint adhesion and long-lasting protection.

Designed for large and complex trailer components, SLF's automated treatment systems streamline finishing with high-performance spray booths and drying systems, reducing production time while improving throughput. Key benefits include superior corrosion protection, precision blasting and coating, increased efficiency, and eco-friendly operation.

Upgrade your trailer manufacturing with SLF's industry-leading systems—contact Specialist Machinery Sales today to optimise your surface treatment process.



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In this group, we bring in thought leadership content, topics, trends and challenges within the steel industry and steel processing automation. We encourage everyone to share your business challenges and solutions that you have encountered and how steel processing automation had helped achieved your business objectives.

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