

MADE IN GERMANY

NOW WITH EVEN MORE FEATURES IN THE **MYCOBOT** MODULAR SYSTEM.

LORCH
smart welding

THE LORCH COBOT WELDING WORLD.

Automated growth:
maximum productivity, consistent quality and more freedom for your team.

www.lorch.eu

Cobot welding: the solution for medium-sized businesses.

The best Cobot welding solution from the market leader. Secure and effective..

Cobot welding means collaborative robot welding for medium-sized businesses – a system made for the automation of small to medium batch sizes.

This form of welding automation leaves the welder in control of the system while the cobot performs the instructions perfectly and precisely. They work hand in hand together. This makes their workplace more attractive, relieves the welder, and increases productivity and quality in the company.

Compared to other automation solutions, your investment costs will remain much lower in comparison to the much less flexible world of industrial robot welding.

THE ANSWER TO ...

Lack of specialists
in the welding industry

Cost pressure
from international competition

Technology gaps
due to uncertain and high investment costs

For further information, see
www.lorch.eu/en/cobot-welding

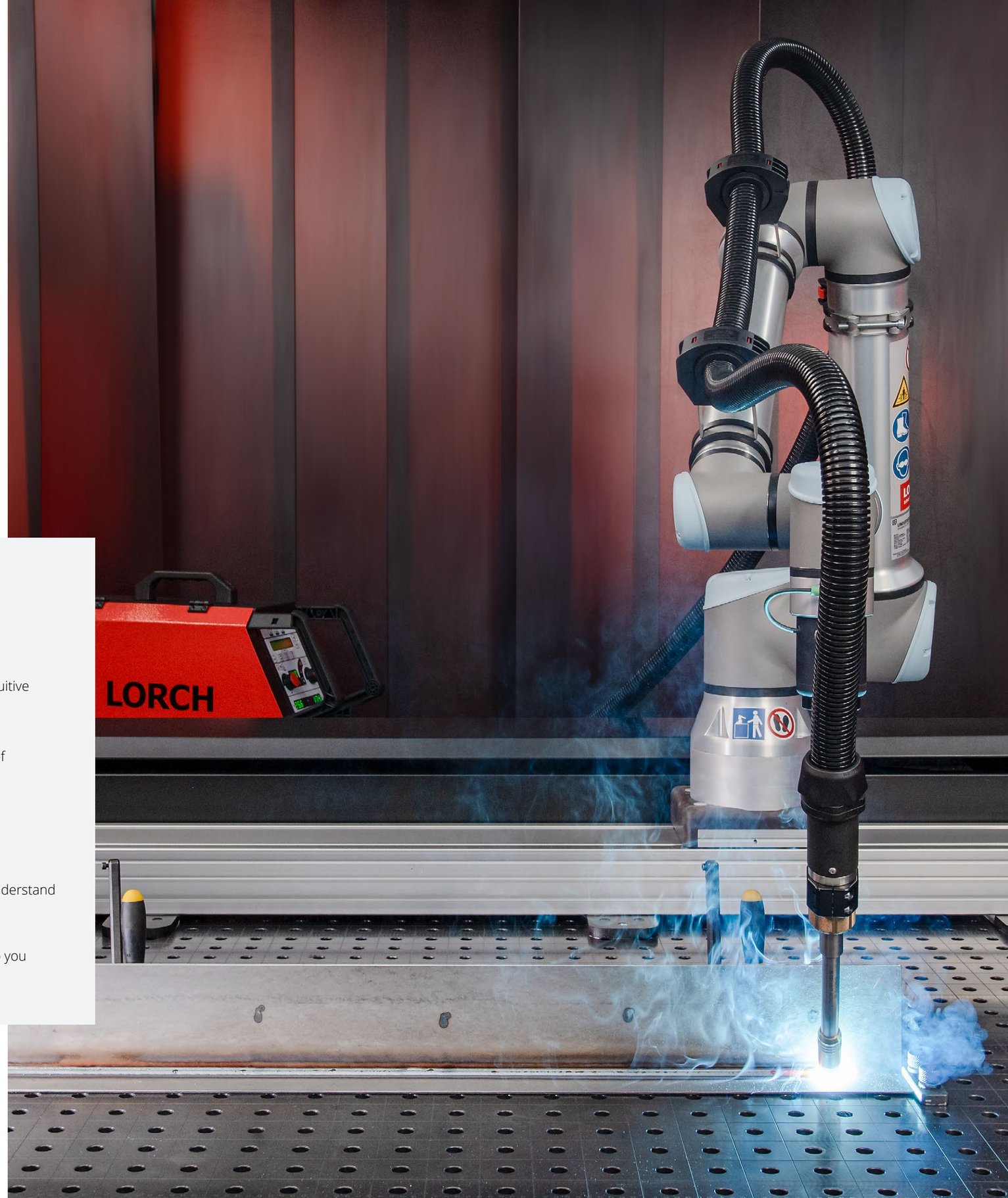
Top welding technology and maximum service.

A world for winners: Everything is interlocking – leading to top performance.

The Lorch Cobot Welding World allows a simple entrance into welding automation for medium-sized companies. Our myCobot system kit offers customised complete solutions that will integrate easily into your work processes. Smart software, perfect processes, and an international partner network make the difference for your production.

FIRST CLASS ADVICE AND SUPPORT

Consulting	Transparent consulting based on your work processes and targets
Individual complete solution	Perfectly coordinated components for intuitive operation and efficient work
Financing, leasing, or rent	Attractive offers from rental to financing of your automation package
Setup and assembly	Reliable setup and integration up to commissioning of your system
Training and instruction	Immediately productive due to easy-to-understand training for operation and functions
Customer service	Our qualified Cobot partner is available to you with comprehensive services



Selected **references.**

Profitable stories from already successfully implemented Cobot automation solutions.



"With the TIG cobot, depending on the complexity of the component, we can produce 100 units in a single day – a task that would otherwise have taken us three days. And we are confident that the welds are not only produced much more quickly, but also to a consistently high standard."

Jannik Grimm, Welder,
Ferrotec GmbH



"Thanks to SeamPilot, we don't have to go through time-consuming teaching procedures first; we simply move the torch to the starting point, and the cobot retrieves all further information automatically, ensuring that the 'groove' is reliably located during welding. It's brilliant."

Andre Ostendorf, Team Leader of the Welding Department,
H. Gewing GmbH



"With the cobot, we've significantly expanded our capacity to handle welding jobs and gained a new 'employee' whom we can deploy flexibly. Depending on the nature of the workpiece, batch sizes of ten or more are definitely worthwhile."

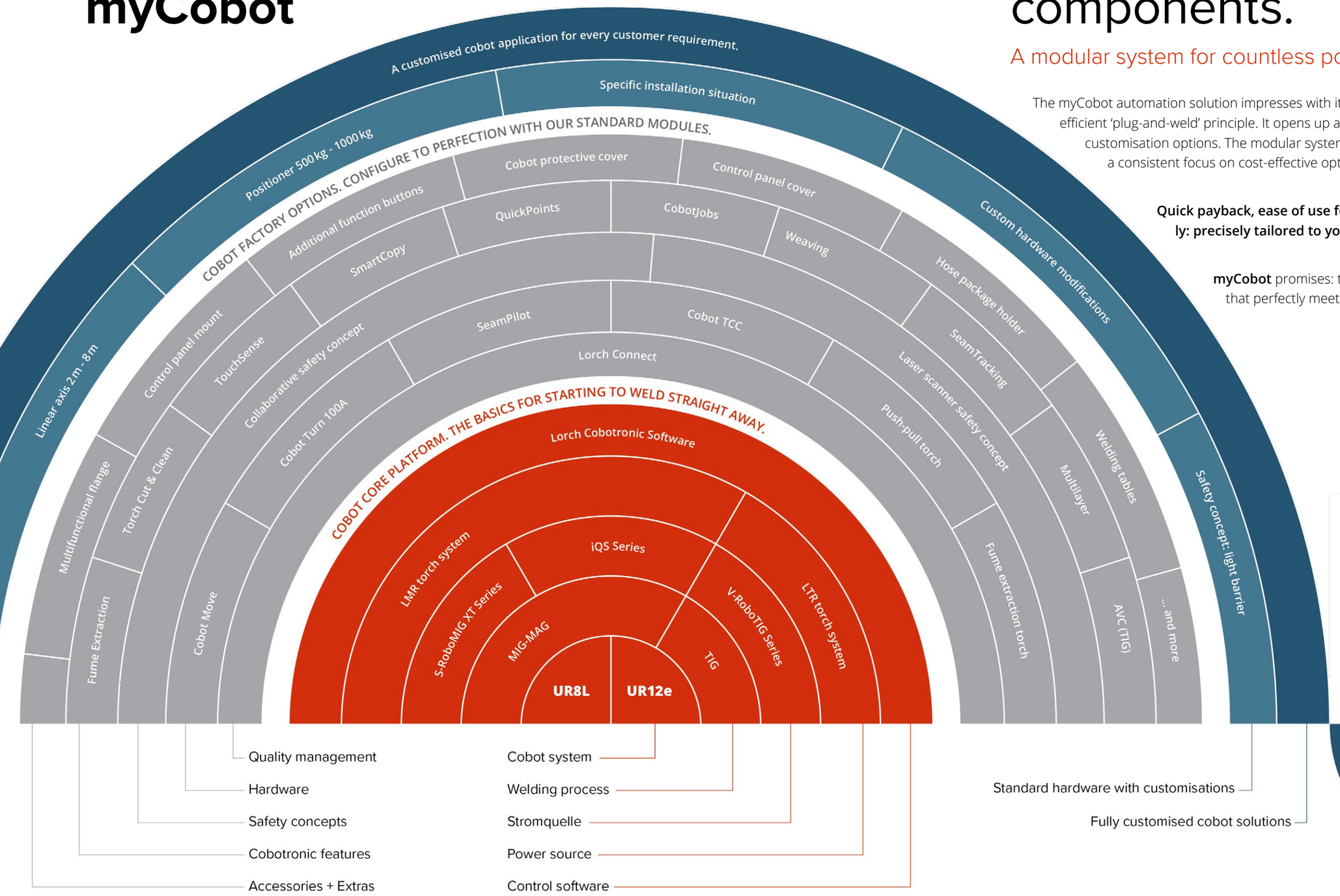
Lukas Loosen, Junior Managing Director,
Loosen Metallbau GmbH & Co. KG

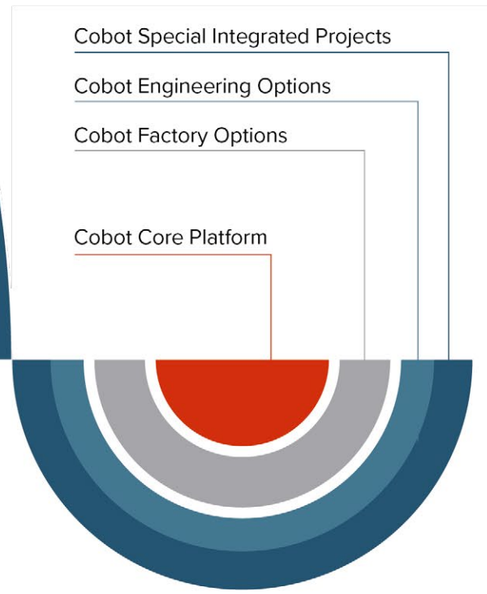


"We achieve massive time savings of up to 40% thanks to the welding Cobot solution with turn-tilt table. We also relieve our welders of particularly long, exhausting welding work."

Alexander Hörzenberger, head of steel constructions,
Habau Group

Modular system myCobot





Flexibly combine all components.

A modular system for countless possible applications.

The myCobot automation solution impresses with its well-designed system and the efficient 'plug-and-weld' principle. It opens up a wide range of tried-and-tested customisation options. The modular system combines targeted flexibility with a consistent focus on cost-effective options.

Quick payback, ease of use for your welder and, most importantly: precisely tailored to your individual application!

myCobot promises: the best automation solution that perfectly meets your requirements.

Detailed information on the **myCobot modular system**

Cobot **Engineering Options.**

The expanded modular system for bespoke cobot welding solutions.

Not every welding task fits into a standard concept. Not every solution requires us to constantly reinvent the wheel. With our expanded modular system, we offer you the flexibility to tailor cobot welding systems precisely to your manufacturing requirements, without having to forego tried-and-tested system components.

The result: individual solutions with a systematic approach.

Flexibility meets proven standards

The expanded modular system combines a high degree of standardisation with targeted customisation:

- Flexible configuration options tailored to your production environment
- Various external axes, linear axes, rotary-tilt tables, rotary table systems with counter-bearing and much more
- Scalable safety solutions tailored to the application and layout
- Tried-and-tested system components for maximum reliability and rapid implementation. Freely selectable on request

Your benefit: you receive a solution that is precisely tailored to your application, whilst offering a high degree of planning certainty and proven quality.

Everything from a single source. Cobot Engineering Options.

1. Customer requirements
Requirements that go beyond the capabilities of the Cobot Core Platform and the Cobot Factory Options.

2. Quick indicative quote
You will receive a quick, no-obligation quote containing the key information regarding the indicative price, along with an invitation to a meeting to discuss the specifications.

3. Specification meeting
We will work with you to identify the best solution should any customi-sations to the indicative quote be required.

4. Full and binding quotation from Lorch for the turnkey solution
Our comprehensive offer includes the complete cobot package, comprising individual components, integration work and CE certification.

5. Order

6. Installation and commissioning

7. Service and maintenance
By specially trained Lorch staff.

A selection from our wide range for **limitless automation.**



Precision with heavy workpieces

500 kg rotary table with counter-bearing | UR8L

- Positioning system for heavy and complex components
- UR8L integrated onto a plinth within a sturdy base frame
- iQS power source for maximum welding performance
- Open cell with light barrier for optimum access

Ideal for: rotationally symmetrical workpieces or those requiring machining on multiple sides in the optimum welding position



Compact solution for exceptional accessibility

Suspended 2 m axis | UR12e | Push-pull torch

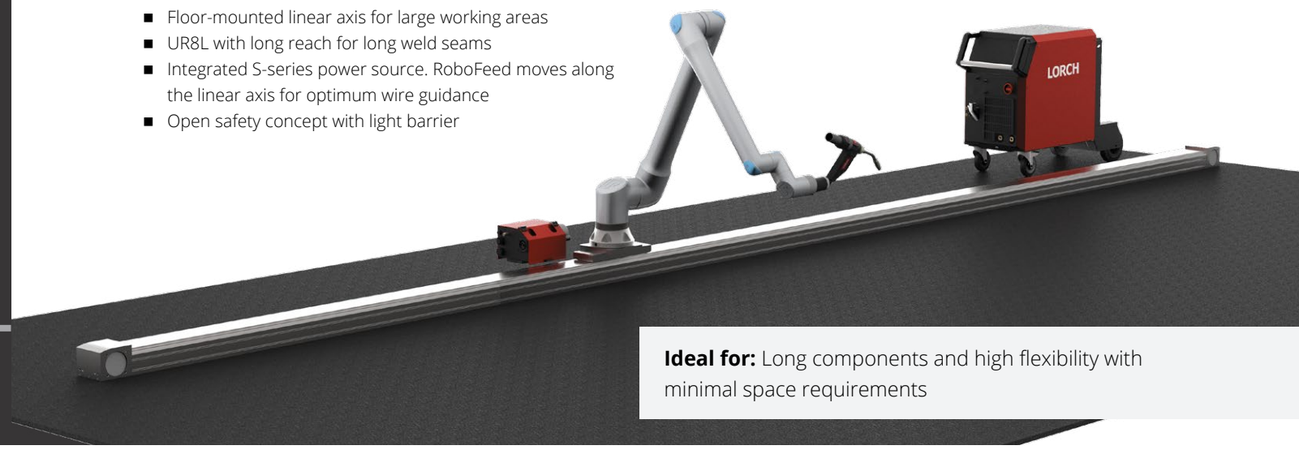
- Suspended linear axis on a support column for maximum use of space
- UR12e with 6 m push-pull torch for a long reach
- Integrated 2400 x 1200 mm welding table
- Safety via light barrier and Makrolon protective screens

Ideal for: Complex welding tasks in confined spaces

Maximum reach for large components

6 m linear axis | UR8L | RoboFeed

- Floor-mounted linear axis for large working areas
- UR8L with long reach for long weld seams
- Integrated S-series power source. RoboFeed moves along the linear axis for optimum wire guidance
- Open safety concept with light barrier



Ideal for: Long components and high flexibility with minimal space requirements

The **welding peripherals.**

Cobot integration meets welding expertise.

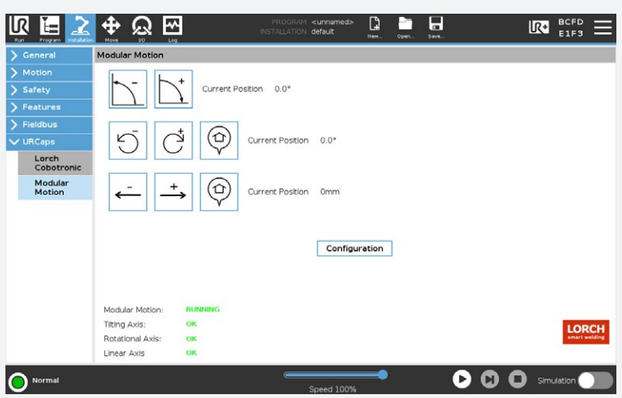
Perfectly coordinated: Advanced cobot solutions only realise their full potential when implemented as a well-designed, integrated system. We focus on the seamless interaction of all components and develop precisely coordinated welding technology. And we do so with a clear understanding of the process and without compromise.

Engineering down to the last detail: We consider all factors influencing the welding process, from the power source, wire feed and torch system right through to the routing of the hose assembly. This results in a process-reliable system for automated applications that not only functions mechanically but also delivers outstanding welding performance in practice. The result: stable operations and reproducible processes for consistently high seam quality.

Tailor-made for your production: Every solution is precisely tailored to the component, material and production objective. In doing so, we draw on tried-and-tested Lorch technologies and adapt them specifically to the requirements of your plant.

Complex technology, simply integrated: The cobot concept runs through the entire system: despite its high technical performance, the application remains consistently simple. Thanks to intuitive operation and rapid commissioning, users can make a productive start with automation even without in-depth automation expertise.

The usual ease of use, even for various external axes.



Greater flexibility must not lead to greater complexity. Modular Motion offers the same tried-and-tested, simple operating logic even for custom-built systems.

- Same user interface as for standard axes
- Intuitive operation
- No additional training required
- Open to flexible axis concepts in the background

Precision in wire feeding: RoboFeed

With Lorch RoboFeed, we integrate a high-performance wire feed unit, specially developed for automation, into your system.

- Consistent wire feeding even over long travel distances
- Stable processes for consistent weld quality
- Optimal integration into complex plant layouts
- Perfectly suited to push-pull applications as well



Condensed
welding competence.

No matter if it's about MIG-MAG or TIG –
Lorch offers best arc performance, perfectly
aligned with the Cobot.

iQS 5 Cobot

MIG-MAG

UR12e + UR8L

True high-end welding performance: iQS 5 Cobot.

The new reference in industrial welding.

A new, robust inverter has been developed for the iQS. This ensures that processes run even more smoothly and quietly. The user can adjust the parameters continuously and select the perfect operating point. This improves the quality of the weld seam and minimises rework.

Thanks to its high performance, the iQS is also ideally suited for cobot integration – offering companies the opportunity to further optimise operator comfort, cost-efficiency and welding results. **This is Welding 4.0.**



Further information on iQS 5 Cobot

S5 ROBOMIG XT

MIG-MAG



For further information about S5 RoboMIG XT

UR12e + UR8L

For maximum performance: S5 RoboMIG XT.

MIG-MAG welding on the highest level.

With its complete FullProcess equipment and lightning-fast control technology, the high-performance S5 RoboMIG XT enables you to weld virtually anything that you may want to weld – with greatest efficiency.

Cutting-edge processor technology ensures optimum interaction of all parameters and components involved in the welding process while maximising arc performance.

Peak values in arc control are achieved and optimal welding results can be reproducibly achieved for all materials.

V30 ROBOTIG

TIG

Best arc properties: V30 RoboTIG.

Heavy-duty TIG welding for pros.

TIG welding with outstanding performance – long welding times and outstanding performance are the key features of the V30 RoboTIG AC/DC.

Contact-free HF ignition warrants increased arc stability and optimises material transition. Thanks to outstanding ignition properties, this system is perfect for automated operation. The integrated fast-pulse technology also ensures maximum efficiency in TIG welding automation. Outstanding TIG technology and tried and tested inverter technology optimise practicality and productivity in automated welding.



UR12e

For further information about V30 RoboTIG

Automated TIG welding? It’s very simple with the Cobot.

No compromises. Comprehensive functions, also for TIG applications.

TIG welding is demanding – automated TIG welding is a challenge.

Do you need TIG welding because you have to weld very thin sheets, aesthetic appearance is particularly important, or standards and other requirements to weld seam quality require TIG? We have the solution for you! The TIG Cobot!

No matter if you need to weld aluminium, copper, stainless steel, or titanium: our TIG Cobot supplies full performance at a remarkable scope of functions!

Cobot technology **by the market leader.**

Lorch fully relies on the experience of Universal Robots.



The multitalent Cobot UR12e.

Lorch offers the best team player for any challenge.

Looking at the five most frequent causes of injuries at production sites, 8% are due to monotonous movement processes and 24% due to excessive strain. The tried-and-tested Cobot series from the market leader Universal Robots not only relieves your team of these tasks but in combination with our Lorch Cobotronic software also opens up new dimensions when processing your welding demands.

Highest quality for practical use. Quick to use and intuitive to operate, for consistently high-quality welding results. Always with the goal of creating a better and more efficient solution for you.

Proven reliability
guarantees consistently high-quality welds

Safe by design
fintegrated safety features, even for confined collaborative working environments

A wide range of customisable options
covering ease of use, programming workflow and control of the cobot

Overview of the Cobot UR12e

- 1,300 mm work radius
- 12.5 kg payload
- simple, intuitive programming
- very small footprint
- short time to amortisation
- plenty of plug & play accessories

Even greater reach within the portfolio: Cobot UR8L.

Greater accessibility. Greater precision. Greater welding performance.

The UR8L is a high-performance collaborative robot designed specifically to meet the demands of modern welding automation. Robust, precise and flexible, it delivers the highest weld quality even on complex components. With its long arm and compact wrist, the UR8L achieves outstanding motion stability, reaches hard-to-access areas with ease and integrates seamlessly into confined workspaces.

It thus opens up new possibilities in manufacturing and pushes the boundaries of traditional welding automation. The result: the highest weld quality, component after component.

Maximum reach for maximum flexibility

- Larger and more complex components
- Longer weld seams
- Improved accessibility in component geometries that are otherwise difficult to reach

Precision that impresses

- Precise path guidance for perfect seam profiles
- Maximum repeatability even in demanding applications
- Stable process control for reproducible results

Performance without compromise

- Increased speed whilst maintaining the same collision forces
- Faster welding without compromising safety
- Optimum balance between productivity and collaboration

Overview of the Cobot UR8L

- 1,750 mm work radius
- 8 kg payload
- simple, intuitive programming
- very small footprint
- short time to amortisation
- plenty of plug & play accessories



FullProcess – for any Cobot solution.

The innovative welding processes by Lorch.

Speed, quality, penetration, and weld appearance pose high demands to the welding process to produce a perfect weld seam in a vast variety of welding positions.

Our engineers have developed outstanding MIG-MAG-process innovations for you based on experience from industry practice as well as the wishes of many users.

This has led to Lorch Speed processes that significantly increase your welding speed, noticeably simplify the process, and enable unparalleled productivity.

iQS processes



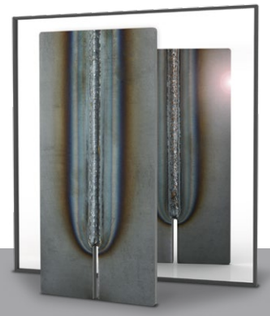
SPEEDUP

Experience a real highlight for vertical seam welding.



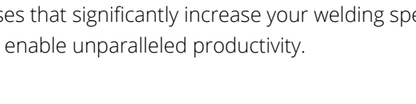
SPEEDCOLD

For cold hard efficiency during thin sheet welding.



SPEEDROOT

Noticeably better quality for MIG-MAG root welding.



SPEEDTWIN

Maximum speed + individuality for perfect seam appearance..

Video to the Lorch Speed processes
https://youtu.be/lx4m2DugkFg

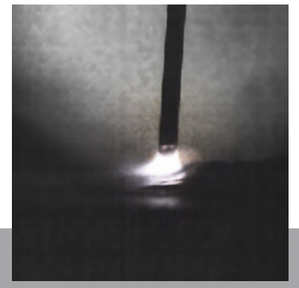
TWINPULSE XT

Looks really fantastic. Picture-perfect seams at maximum speed.



SPEEDPULSE XT

Extra fast. Extra low-spatter. Extra proficient handling.



SPEEDARC XT

Deeply impressive. SpeedArc XT sets itself apart by its highly focused and stable arc.

Overview of the advantages

- Higher speed
- Better weld seam quality
- Higher penetration
- Better look of the weld seams
- Lower welding fume emissions
- Quieter work
- Higher result security due to improved process control



The autopilot for Cobot welding.

The SeamPilot will find, detect, and track the weld seam – even with high tolerances.

Programming complicated weld seams? Time-consuming Cobot teaching? Where conventional programming requires specification of all paths before the Cobot can track them, the SeamPilot will find its own path.

A rough starting point is all it takes. Everything else will be done by the autopilot independently. It even produces some beautiful weld seams.

Video to Lorch SeamPilot
https://youtu.be/CdTKeJpXoGo

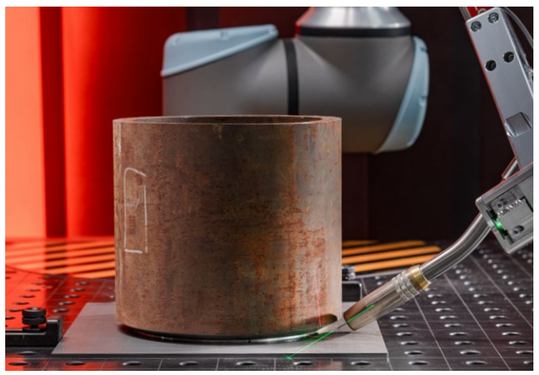
Overview of the advantages

- **Unbelievably simple programming:**
  Only a rough starting point needs to be specified. SeamPilot will find the further course of the weld seam.
- **No teaching:**
  Automatic implementation of the pre-defined torch position and angle.
- **Weld seam length specification:**
  Via weld seam length, rough end point, or automated recognition..
- **Even for complex demands:**
  Easily mastering outer edges or multiple weld seams in sequence on the same part.
- **Adaptable:**
  Flexibly adjustable parameters for optimised welding results.

Welding at the push of a button.

All the SeamPilot needs for its work is a rough starting point – simply place the laser in the desired position and get going. The laser will find its own weld seam, track the seam course, and guide the torch precisely.







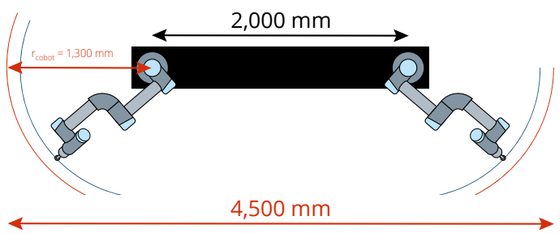
UR12e + UR8L

More workspace, maximum freedom.

The Cobot Move linear axis – for long, large, and nesting operation.

The Cobot Move linear axis is THE supplement for enlarging the Cobot workspace even more. The Cobot remains highly precise thanks to the high-quality ball screw drive installed in the Move linear axis in order to ensure a consistent welding quality across the entire workspace.

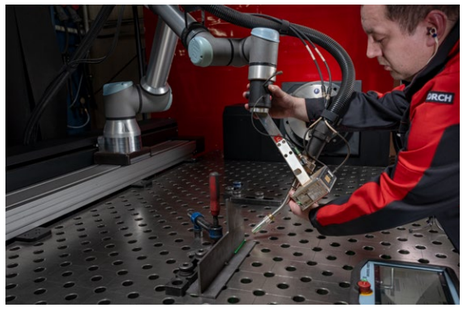
Cobot Move is truly smart: The Cobot remains CE-compliant for collaborative use without needing any additional safety technology such as laser scanners, housings, etc. This ensures true simplicity in installation of the Cobot Move as well: just a few steps are needed.

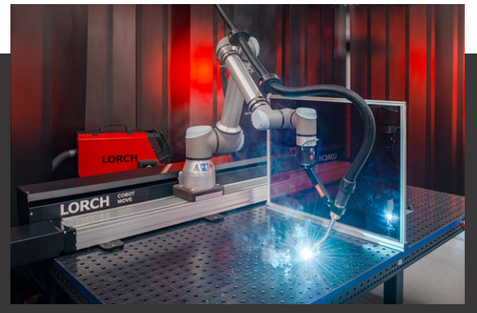


Practice-oriented solution

The Cobot can be operated collaboratively with the Cobot Move:

- **No additional safety technology needed**
- **Sophisticated axis design without any risk of crushing/shearing**
- **Automatic stop and deactivation with unplanned collisions**





Overview of your advantages

- **Movement axis (2,000 mm) to enlarge the Cobot work radius to more than 4.5 m**
- **Optimum expansion for the Cobot Welding Package on welding tables from lengths of 2.40 m onwards**
- **Allows nesting operation or welding of large parts**
- **For long weld seams: Welding is possible even when moving the axis**
- **Fully integrated control and programming of the axis via the Lorch Motion URCap**

Simply ingenious, no matter the direction.

The perfect supplement: the turn-tilt table Cobot Turn 100 A.

The Cobot Turn 100 A turn-tilt table always ensures the optimal welding position for Cobot welding. The precise positioning for any weld seam can be specified in the programme process. This increases quality, productivity, and flexibility while saving valuable time even in demanding welding tasks and roundseams.

Overview of the advantages

- **Two-axis manipulator**
  Longer welding without interruption and re-clamping since the parts need to be repositioned rarely or not at all.
- **Fully integrated Lorch Motion software**
  The dedicated URCap Lorch Motion is fully integrated into the Cobotronic software and easy to retrofit.
- **Simple and intuitive operation**
  The smart software also developed by Lorch is easy to operate. Programme processes can be configured intuitively.
- **Safety technology**
  The laser scanner and virtual housing keep the system freely accessible at all times under consideration of employee protection.
- **Ergonomics at the workplace**
  The avoidance of difficult positions and repositioning saves effort and improves workplace ergonomics.



UR12e + UR8L*

* Cobot Turn compatibility with the UR8L from late 2026

All functions under control – simple, quick, comfortable.

The Cobot multifunction flange with function keys.



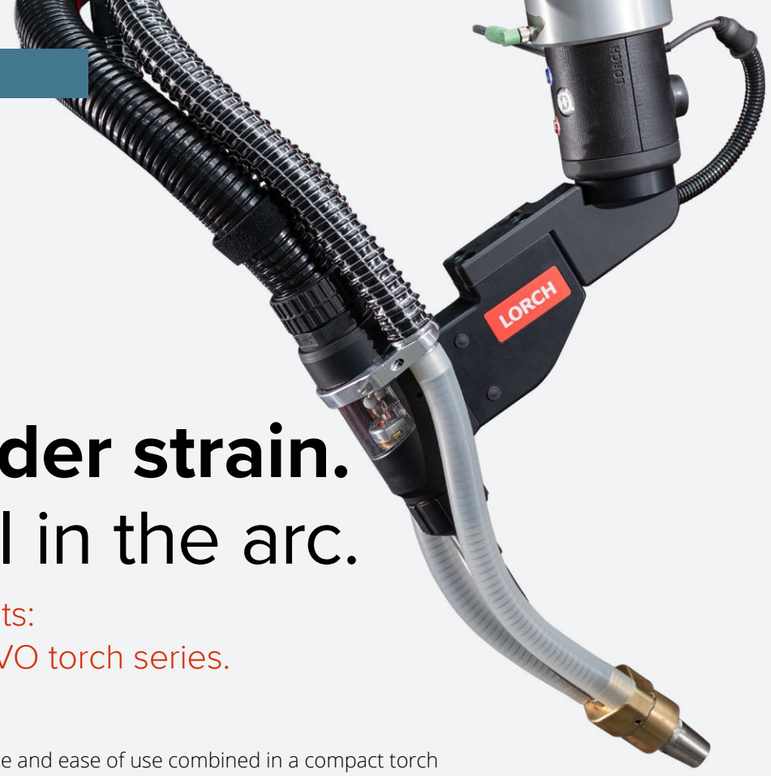
The multifunction flange takes programming from the control panel right to the robot. This not only saves time but is much simpler for specification of the welding tasks. It only takes a few minutes for new parts to be programmed and taught.

Three freely assignable buttons on the new multifunction flange permit direct execution of many functions right at the welding task: one is teaching of parts via QuickPoints, while others include tacking or wire feed/inch-retract. The execution and arrangement of the buttons is, of course, designed for operation with gloves.

Additionally, the ergonomically optimised grip of the multifunction flange permits more relaxed movement and positioning of the Cobot in Freedrive. No more annoying cable routing: the multifunction flange is now connected directly to the Cobot head.

The multifunction flange for the UR12e is compatible with any Lorch Cobot torch.

UR12e + UR8L



Cool under strain.
Powerful in the arc.

Designed for cobots:
The LMR 450 W EVO torch series.

Process reliability, performance and ease of use combined in a compact torch system. The HRC-optimised design was developed specifically for collaborative welding automation and enables safe collaboration between humans and machines. The integrated dual-circuit cooling system ensures stable processes, a long service life and rapid cooling of the torch neck. This allows the operator to safely continue teaching procedures without long waiting times. Thanks to its compact design, the system can be flexibly integrated into various automation cells.
The torch, interfaces and wear parts are optimally matched to one another and guarantee maximum process reliability.

UR12e + UR8L

Push-pull torch:
Maximum wire feeding stability

- **Consistently reliable wire feeding**, even with soft or thin wire materials and longer hosepackages.
- **Stable wire feed:** a combination of feed and pull drives minimises friction and prevents wire disturbances
- **Maximum process reliability:** consistent wire feed for reproducible weld seams.
- **Flexibility in application:** ideal for aluminium and other challenging materials.
- **Optimised for automation:** seamless integration into cobot applications.

Fume extraction torch:
Clean air, safe production

- **Direct extraction at the arc:** effective reduction of welding fumes and harmful substances
- **Improved health and safety:** protection for staff and compliance with legal requirements.
- **No impact on the process:** optimised airflow without affecting the shielding gas or weld quality
- **Retrofit kit:** the fume extraction system can be used flexibly with our LMR 450 W torches.



Clean welding – **clever cleaning.**

UR12e + UR8L

The smart extra: the collaborative torch cleaning station Cobot Torch Cut&Clean.

The collaborative torch cleaning station Cobot Torch Cut&Clean ensures permanently clean gas nozzles – without any additional effort.

It reduces wear on the torch, cuts the wire to length, minimises errors in the welding process and increases process reliability. The result: better quality in the welding process, fewer interruptions, less maintenance and more welded parts per hour.

Thanks to its collaborative design, no additional safety technology is required. This saves costs and makes the station accessible at all times.

The Cobot Torch Cut&Clean is fully integrated into Cobotronic. It is easy to install, flexible to position and intuitive to operate – without any special expertise. This makes automated torch cleaning child's play.

The software for greatest comfort and efficiency.

Lorch Cobotronic makes the difference.

The function scope keeps being expanded by updates and further developments – in 12 different languages to boot! The Lorch Cobot Welding World essentially differs from other Cobot solutions by its outstanding software. It is perfectly adapted to the welding technology, and therefore your needs, by our experienced welding experts – maximum user compatibility and intuitive handling makes production more efficient. **Future updates are possible as we continue to develop further features and functions for your system** – in as many as 12 different languages!

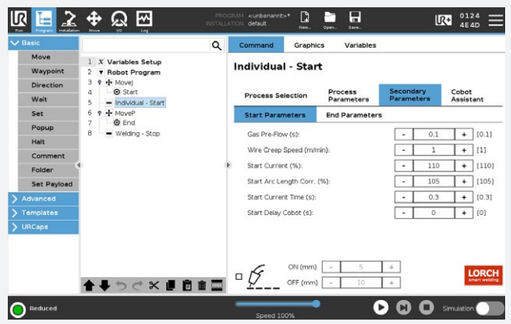
LORCH COBOTRONIC SOFTWARE

Job mode

In job mode, the Cobot will comfortably and simply take over the parameter control from the power source.

Individual mode

For real pros: individual mode permits full access to all parameters and characteristic curves of the power source right on the Cobot control.
The parameter selection is stored directly in the Cobot program, including all secondary parameters, to enable welding in perfect quality without welding in again even after weeks or months.



+ Assistant mode

Even experienced welding pros may find the selection of material, wire, and gas combinations and the proper welding speed to be a tedious and complex process at times. The Cobotronic assistance systems make this simpler and more efficient. This is because a welding speed is suggested directly according to the desired A dimension.

+ CobotJobs

Parameter settings can be adjusted, named, and tagged as CobotJobs as desired by the user. Simply save as a favourite and lock against changes if necessary.
Perfect for ensuring that the proper parameters are always quickly at hand and that welding goes perfectly from the very first weld seam.



UR12e + UR8L

Intuitive operation for quick setup and optimisation.

To the goal in a breeze.

The simple and intuitive operation of the Cobotronic software enables users to set and optimise welding parameters very quickly. The choice of three practical modes is a great help here. With its assistant mode, the software supplies parameter suggestions for optimal welding results, depending on the chosen application.



Video to the Lorch Cobotronic
https://youtu.be/FjA_9h2xbiU

The future **can be upgraded.**

Our solution for your secure investment.

Within the Lorch Cobot Welding World, you also have the opportunity to customise your Cobotronic software to suit your exact requirements.

Additional functions support you in meeting your individual manufacturing requirements and workflows. The range of functions is continuously being developed by our welding experts. Any future enhancements can, of course, be upgraded.



Comprehensive **software features.**

Multilayer
Automatic, high-quality multi-layer welding using the cobot.

Automatic Voltage Control (AVC)
Automatic correction of the torch-to-workpiece distance during TIG welding.

Fume Extraction
Enables the connection of a fume extraction system.

Torch Cut & Clean
Automatic control of the collaborative torch cleaning station.

TouchSense
Use the cobot to easily detect and compensate for variations in workpieces.

SmartCopy
Easily copy pre-programmed welding sequences for specific components.

QuickPoints
Programming waypoints and welding commands with just a single click on the multifunction flange.

Weaving
Linear, circular or along the component – always maintain perfect control of the weld pool.

CobotJobs
Customise welding parameters, name them, tag them – and save them as favourites.

SeamTracking
Automatic weld seam correction for oscillating welds.

Integrated control
of the power source or torch cleaning stations.

Job mode
The cobot conveniently and easily takes over parameter control from the power source.

QuickApps
Quick access to the most important functions – always just a click away.

Cobot Assistant
for determining the optimum welding parameters based on the A-measurement

Motion
Intuitive user interface for controlling external axes such as Cobot Turn and Cobot Move.

Ignition fault handling
Automatic correction attempts if the arc cannot be ignited.

Full: Maximum performance
The complete range of functions, including all the software capabilities the cobot has to offer, for the most demanding applications.

Essential: Smart in action
The essential foundation for productive cobot welding: the key software functions for productivity, ease of use and process quality, intelligently bundled into a single package offering attractive value for money.

Base: The solid foundation
Always included: The key basic functions for a safe start in welding automation.

Spot function
Comfortable tacking – also in the program sequence.

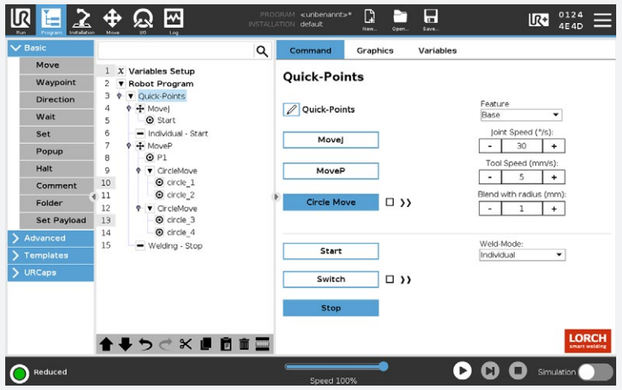
QuickPoints – operating with maximum ease.

Programming of waypoints and welding commands could not be simpler, requiring just a single click on the multifunction flange for each.

Overview of the advantages:

- **“Waypoints” and “welding commands” programmed at the touch of a button**
- **Selection of “waypoints/command type” by navigating through the menu – also at the touch of a button**
- **Direct adoption of the default parameters for the movement**

Even complex components can be fully programmed in this way in a minimum of time.



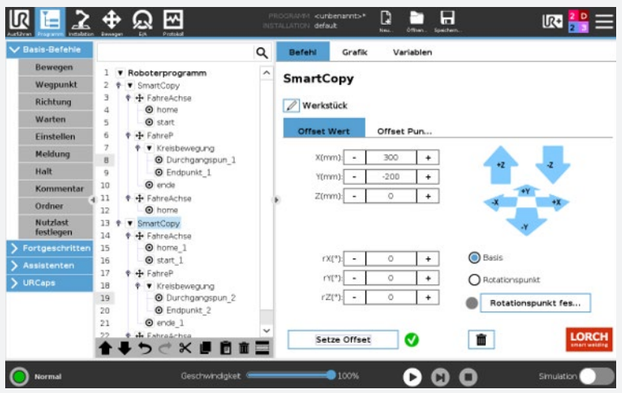
SmartCopy – for higher quantities within the same work area.

Copying pre-programmed welding sequences for specific components – which can then be easily moved and rotated within the workspace – ensures maximum productivity. As a result, the use of cobots can quickly increase performance and output many times over.

Overview of the advantages:

- **Offsetting programmes/parts of programmes by dimension or reference point**
- **Rotating about the base or reference point**

Copying existing programmes ensures maximum productivity..

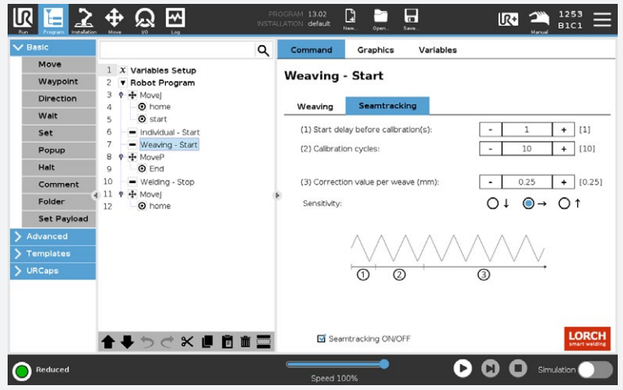


SeamTracking

Automatic weld seam correction for weaving weld seams. Distortion or bigger tolerances in the parts won't matter – the Cobot will stay within the weld seam.

Overview of the advantages:

- **Can be used for weaving fillet welds from a sheet thickness of 4-5 mm onwards**
- **Online calibration: The start of the weld seam is recorded as reference for the further weld seam. Separate welds for calibration are not necessary.**
- **Simple setting parameters: Well-structured and compact adjustment of SeamTracking behaviour**
- **Parameter tables – tested in advance in our welding lab. We supply parameter settings for many different specifications to permit quick implementation of adjustments to your part.**



Automate even more parts even with lack of tolerance accuracy and possible distortion with the Cobot.

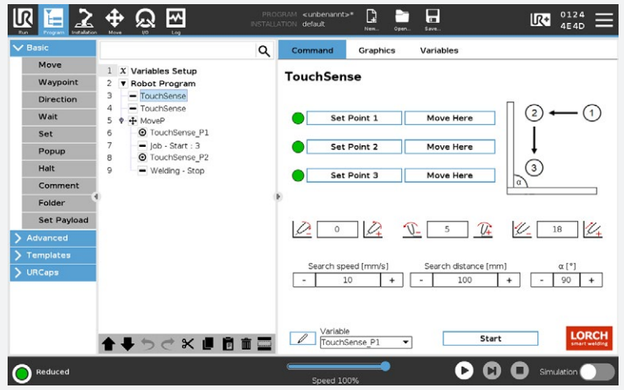
TouchSense

Finding the weld seam with a slight touch by the gas nozzle to compensate for tolerance deviations or workpiece variance.

Overview of the advantages:

- **Simple programming in just 3 steps**
- **Adjustable torch position and angles**
- **For different weld seam opening angles**
- **Perfect for defining a perfect start for SeamTracking**

Workpiece variances can be recorded and compensated for easily by the Cobot

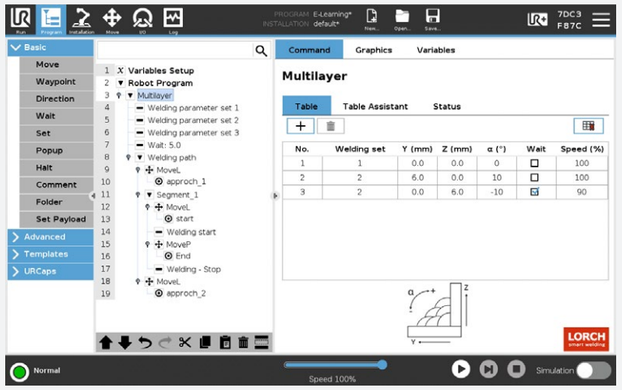


Multilayer

Automatic welding layer build-up with the option of individual customisation for simple and high-quality multi-layer welding with the Cobot. Standalone feature: Cannot yet be combined with other Cobotronic functions.

Overview of the advantages:

- **Three parameter sets for improved root detection and layer fusion**
- **Optimum heat control**
- **Increased productivity thanks to parallel multi-layer welding of several segments**
- **Flexibility in positioning thanks to individual customisability**
- **Efficiency and user-friendliness thanks to simple structure and automatic layer planning.**
- **Suitable for MIG-MAG 90° fillet welds. Automatic layer build-up provided for PB position.**



Automated multi-layer welding to the highest standards and with minimal effort – simple and flexible.

Weaving – linear, radial, or along the part.

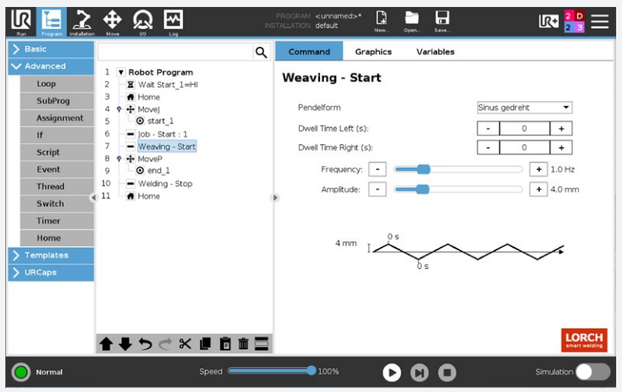
No matter if your part requires large gaps or a high throat thickness a, the weaving function will give you perfect control over the weld pool, no matter if you are working linear, radial, or along an entire part.

Overview of the advantages:

- **“Start weaving” can be selected at any time**
- **All of the following paths are performed with weaving movements – no matter if linear, radial, or in free movements**
- **Stops automatically at “welding stop”**
- **Precisely adjustable dwell time**

Innovations:

- **Weaving in combination with movements of the linear axes Move or tilt-turn table Turn 100A**
- **Weaving forward and backward along the weld seam**



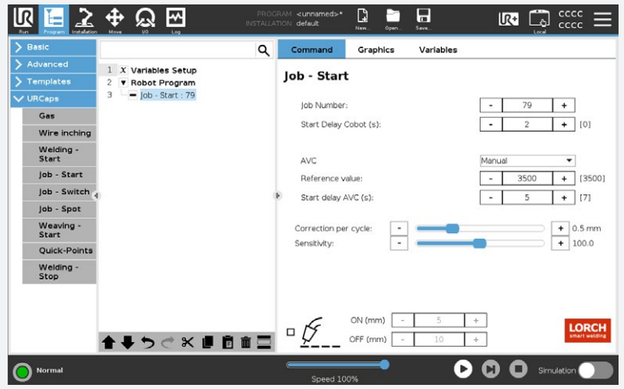
Weld seams made with weaving, just as you need them – easy and flexible adjustment possible

Automatic Voltage Control (AVC)

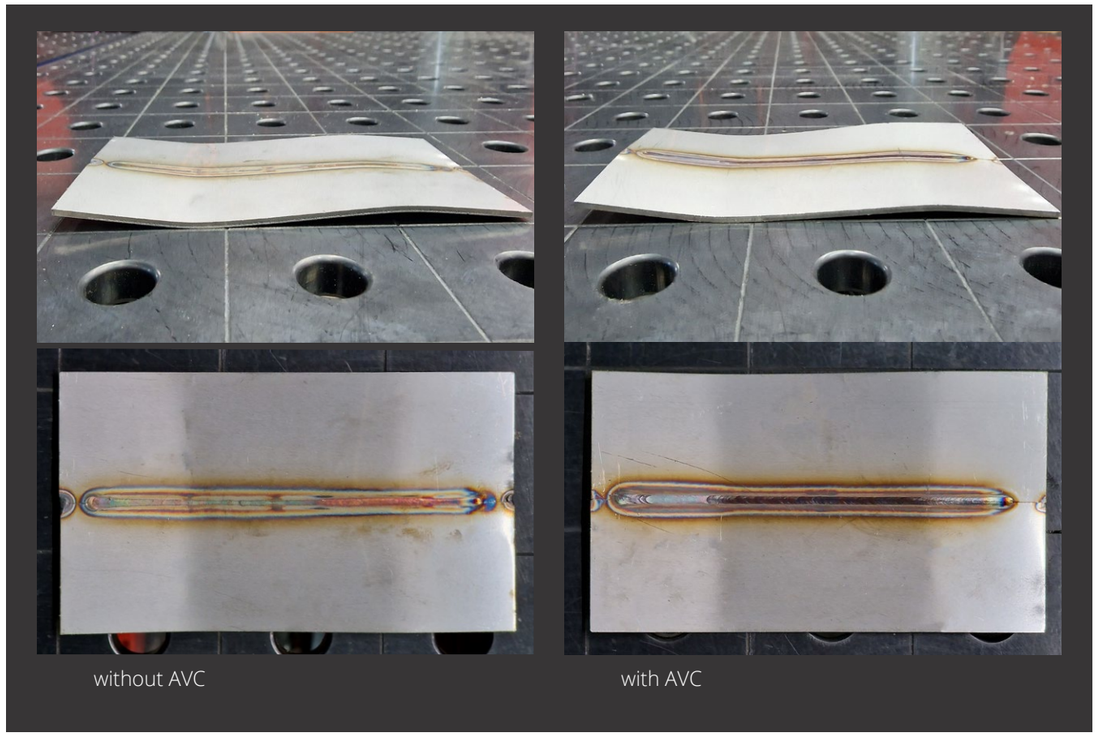
Automatic correction of the torch distance by Automatic Voltage Control (AVC) for parts with a geometry (height) tolerance or to compensate for heat distortion.

Overview of the advantages:

- **Facilitates automation of TIG applications**
- **Automatic and manual distance specifications for simple and flexible use**
- **Simple setting parameters: well-structured and compact adjustment of seam tracking behaviour**
- **Parameter tables for many different specifications to quickly adapt the adjustment to your part.**



Automated TIG welding – it’s very simple with the Cobot.
For perfect TIG weld seams without any rework even at tolerances in the parts or in cases of heat distortion.



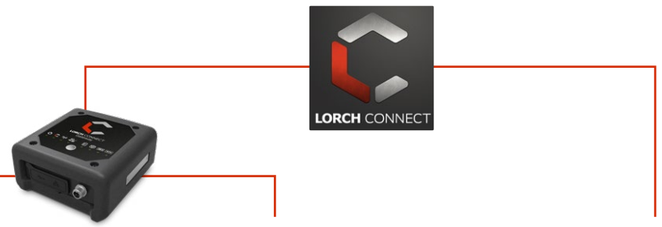
Your perfect gateway into the **digital era.**

Use Lorch Connect to digitise, analyse, and reliably optimise your welding processes.

The start into the Lorch Cobot Welding World takes you one step closer to Industry 4.0. Take two with the Lorch Connect Gateway, now serially integrated. It allows you to use Lorch Connect, the simple and cost-efficient cloud solution for reliable recording and analysis of your welding production data, comfortably and without any additional costs!

Performance and analysis, as well as documentation of results, are particularly important for automation. Enjoy free access to the Lorch Connect Portal for 1 year and try out the digital services entirely without any risk.

How it works:





Connect.

Connect the Lorch Connect Gateway to your Lorch welding system. The Lorch Connect Portal connects via WLAN or LAN.



Weld.

Production-relevant data are recorded by the gateway and transmitted to the Lorch Connect Portal for you in real time.



See clearly.

Call up the Lorch Connect Portal anywhere comfortably by web browser and profit from evaluations and analyses of your welding production at any time.

For further information about Lorch Connect
https://en.lorchconnect.com

Best scores for the Cobot.

Make your team even stronger.

The Lorch Cobot automation solutions bring cost benefits and time savings in many industries.
Contact us – we will enable a simple start into effective welding automation for your company as well.



Trailer



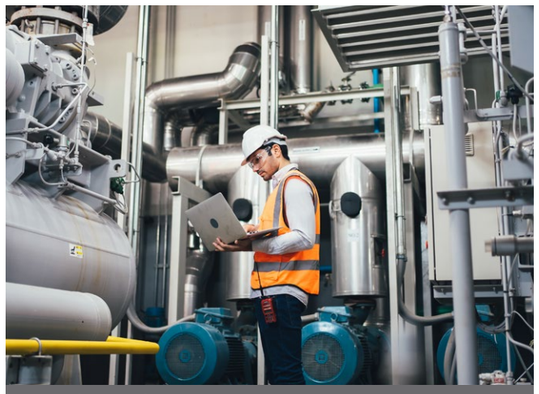
Agricultural machines and attachments



Vehicle construction and construction machinery



Railbound vehicles



Mechanical engineering



Metal construction



Sheet metal processing



Door and facade construction

Success stories
from real-life practice.

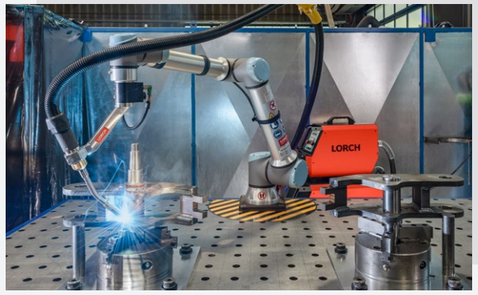
Read about how the cobot is proving its worth in the tough world of welding.

In recent years, Lorch has successfully implemented numerous cobot automation solutions for its customers. Scan the QR code to access detailed case studies about our customers and find out more about the results and benefits for their production processes.

Jorado Maschinenbau GmbH

"The Cobot has certainly outdone our expectations. The perfect interaction of Cobot, power source, and software has created important new capacities for us. The new system also relieves our welders, who are now able to focus on their core competence much more. On top of this, young people who like to program and handle EDP will also find welding more attractive thanks to being able to handle the Cobot."

Jürgen Tippe, head of operations





Hodapp GmbH

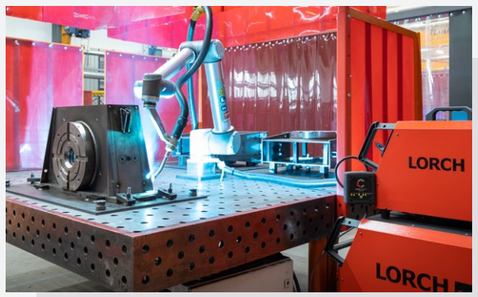
"Programming the welding cobot is fun and easy to understand. The robot welds reliably, and the time saved and the reduction in workload for repetitive, tiring welding tasks are simply enormous for us."

Simon Ludwig, Welder

Rösler Oberflächentechnik GmbH

"We have significantly strengthened our competitiveness by using the Lorch Cobot Welding Package."

Stephan Böhnlein, production department head



To the detailed practice reports



Cobot presentation.
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MADE IN GERMANY

A team of experts are ready for you.

Our Lorch Cobot partners can be found across Europe,
and surely also in your area.

Learn about further advantages of the Lorch Cobot Welding World from your qualified Cobot partner on site: personally, close to you, and quick!

Simply try out our Cobot automation solutions there on a demo system in a live demonstration and experience it for yourself.

Your Cobot contact:

For further information, see
www.lorch.eu/en/cobot-welding

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Lorch Schweißtechnik GmbH
Im Anwänder 24 – 26 · 71549 Auenwald · Germany
T +49 7191 503-0 · F +49 7191 503-199
info@lorch.eu · www.lorch.eu

LORCH
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