



COBOT WELDING.

Make your team stronger with simple,
industry 4.0 automated welding solutions.

Fast, efficient and flexible.

MADE IN GERMANY

LORCH
smart welding

Lack of skilled labour, cost pressures, technology gap?

Do you find that it is becoming increasingly difficult for you to find qualified welders? Are you and your company facing enormous cost pressure, even though you and your employees are expected to meet the highest quality standards?

This is the reality for many medium-sized companies. Only when companies make efficient use of their qualified employees and optimise work processes without sacrificing quality will they remain competitive.



The simplest solution to your challenge is: Lorch Cobot welding.

Cobot welding or **collaborative robot welding** is fast, flexible, economical - a system created for automation in medium-sized businesses. With this type of welding automation, the welder stays in complete control of the system, either programming the welding tasks for others to simply load parts or doing all himself with, possibly, multiple cobots. The cobot executes the instructions perfectly and precisely every time. Compared to other automation solutions, your **investment costs** are significantly lower.

The all-round carefree package for welding automation in medium-sized companies.

SERVICES



Consulting



Training



Service



Financing

WELDING



Welding system



Cobot Torch



Speed Processes



Equipment

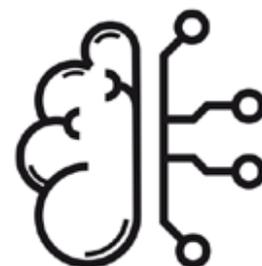


Lorch Connect

COBOT



Universal Robots



**LORCH
COBOTRONIC
SOFTWARE**

Complete system including CE Certification

The cobot: easy to integrate into your daily production.

Thanks to lightweight construction and integrated safety technology, cobots can be used in direct interaction with humans. The Lorch Cobot Welding Package includes the UR10 cobot arm from market leader Universal Robots - with generous reach, sufficient payload, low-maintenance engineering and sophisticated technology.

Your advantages:



Easy operation:

Thanks to the touch display and intuitive user interface. The Cobot thus becomes a self-evident automation tool for your employees.



Immediately productive:

The basics are quickly understood - a two-day training course provides everything you need to know about commissioning, operation and welding functionalities.

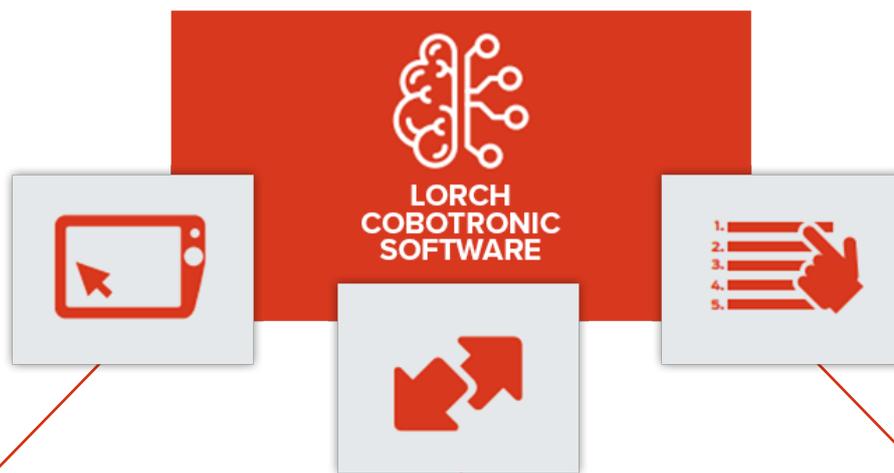


Simple programming:

With the free-drive function, the cobot is shown by hand where to weld - including intermediate waypoints and sections.

The software makes the difference: Lorch Cobotronic for maximum comfort and efficiency.

What sets the Lorch Cobot Welding system apart from other cobot solutions is its purpose built hardware and optimised Cobotronic software. Perfectly developed and refined for multiple forms of welding, increasing the efficiency of your production through simple and fast set-up with user-friendliness and intuitive functionality. You can choose between three operational modes and additional special advanced functions.



Job mode:

Easily and conveniently takes over parameter control by the cobot

Individual mode:

Enables full parameter access to the power source

Assistance mode:

Sample parameter suggestions for optimum welding results, depending on the application

Cobot welding with two different processes:

MIG-MAG (GMAW) welding process



Use the **Lorch Cobot Welding Package MIG-MAG Edition** to take the efficiency of your production to the next level: Our MIG-MAG Cobot is significantly more productive than conventional manual welding processes and works without a break!

Cobot meets MIG-MAG welding technology combined with Lorch quality.



The welding system

The Lorch Cobot Welding Package MIG-MAG Edition comes with the high-quality Lorch welding power source S-RoboMIG-XT, made in Germany with its high-end inverter technology, digital interface, precision feed system and lightning-fast control technology. The Lorch Cobot Welding Package allows you to weld almost anything with the highest efficiency.



The torch

The system is complemented by the LMR 450 W torch, which has been specially developed for MIG-MAG cobot welding: cobot-optimised mounting and dual-circuit cooling for longer service life of the wear parts ensure ideal welding performance and greater user safety.



The Speed Processes

All of our innovative advanced Speed processes are also included as standard. This means that the optimum welding process is always available, depending on the application. With TwinPulse-XT, for example, you can produce excellent TIG like seams with unbeatable speed and ease.



The optional multi-function flange

Enables easy Freedrive programming from the 6th joint. In addition, the multifunction buttons on the flange support tacking and wire inch.



“Programming the welding cobot is fun and easy to understand. The robot welds reliably and the time savings performing repetitive, tiring and monotonous welding tasks are enormous for our company.”

Simon Ludwig, welder Hodapp GmbH

TIG (GTAW) welding process

The **Lorch Cobot Welding Package TIG-Edition** includes the high-quality Lorch welding system V30 AC-DC. Thanks to excellent ignition properties, this system is perfectly suited for automated operation. The integrated fast-pulse technology also ensures maximum efficiency in TIG welding automation.



Cobot welding: now with Lorch quality TIG welding technology.



The welding system

The Lorch Cobot Welding Package TIG-Edition includes the high-quality Lorch welding system V30 AC-DC. Thanks to excellent ignition properties, this system is perfectly suited for automated operation. The integrated fast-pulse technology also ensures maximum efficiency in TIG welding automation.



The torch

The LTR 350 torch, specially developed for TIG Cobot welding, complements this high-quality system. Its slim and robust design and the cobot-optimised mounting make it the perfect partner. The hybrid cooling concept with innovative heat pipe technology also enables fast and precise torch changes without leaking cooling water.



The cold wire feeder

The digital fully integrated Lorch Feed 1 cold wire feeder enables precise and reliable cold wire feeding during welding operations. In combination with the cobot, the cold wire feeder ensures a high-quality welding result for all TIG applications requiring a filler wire. Lorch Feed 1 is included as standard in versions III and IV of the Lorch Cobot Welding Package TIG Edition.



The optional multi-function flange

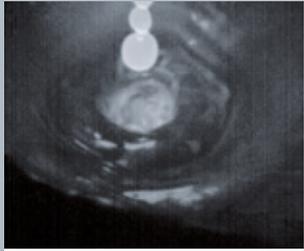
Enables easy Freedrive programming at the 6th joint. In addition, the multifunction buttons on the flange support tacking and wire inching.

“The high demands of TIG welding are easily met by the system. Temporary or contract operators can take over running the welding process once the cobot has been programmed. This means no loss of production when staff are on holiday or sick leave.”

Helmut Krezdorn, Project Manager SCHAEFER GmbH



All advanced speed processes included. For maximum productivity, quality and weld integrity.



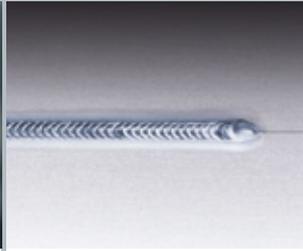
SpeedPulse-XT

Extra fast.
Extra high quality.



SpeedArc-XT

Offers a particularly focused arc and a significantly higher deposition rate for fast welding of thicker material.



TwinPuls-XT

Perfect TIG Like MIG-MAG seams with maximum welding speeds.



SpeedUp

Simple and reliable welding of vertical seams without oscillation.



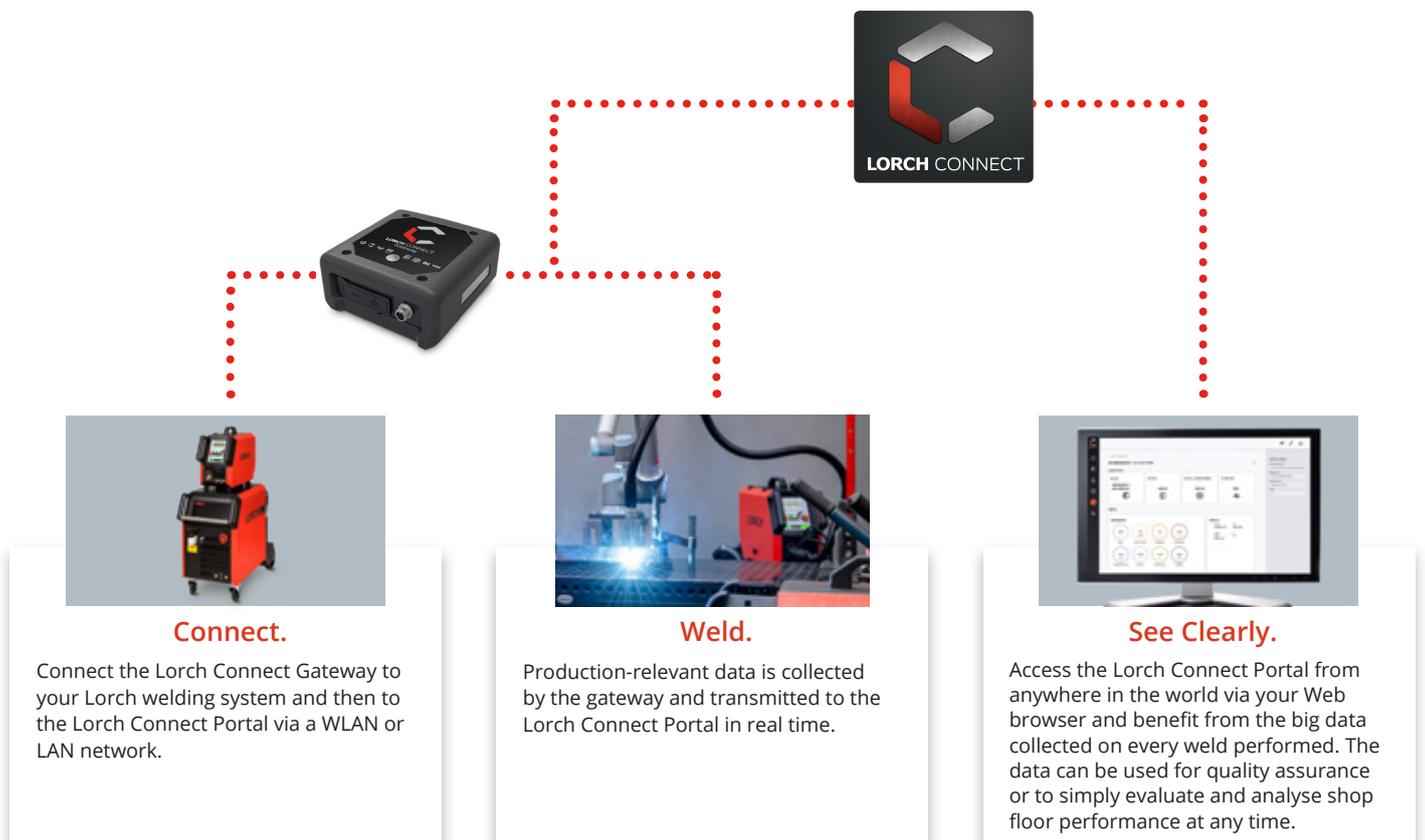
SpeedCold

Ice-cold efficiency in thin sheet welding.

Lorch Connect: Your entry into a digital interconnected world:

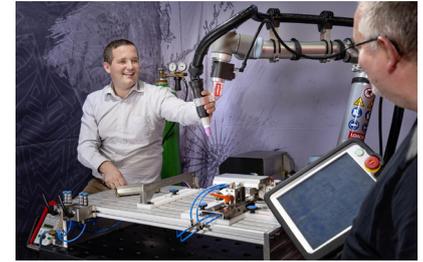
The Lorch Cobot Welding Package is a step towards Industry 4.0. With the optional package add-on Lorch Connect, the simple and cost-effective cloud solution for reliable acquisition and analysis of your welding production data and quality assurance documentation.

Here's how it works:



Lorch Cobot partner near you.

The Lorch Cobot Welding Package is available from your local qualified Cobot partner: personal, close and fast! Simply try out our Cobot there – during a live demonstration on a demo system – and convince yourself. Go to www.lorch.com.au.



Cobot welding! The investment which pays off for you:

Compensating for a shortage of skilled workers

- ✓ Time and physical relief for skilled workers: welders program the welding task; operators perform it with the cobot
- ✓ Increased productivity due to simple operations and high flexibility
- ✓ Efficient and reliable completion of the required production quantities

Improve quality, reduce costs

- ✓ Constant and reproducible welding quality - 365 days a year
- ✓ Very high quality of results: less rework, fewer rejects
- ✓ Significant cost savings thanks to reliably high quality

Keep your finger on the pulse

- ✓ Easy step toward Industry 4.0
- ✓ Increase reputation as an attractive, future oriented and caring employer
- ✓ Rapid payback of investment costs

What sets the Lorch Cobot Welding Package apart from the rest:

1

Intelligent software

2

Perfect processes

3

Support through international Cobot partner network

For your easy step into automation

www.lorch-cobot-welding.com



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