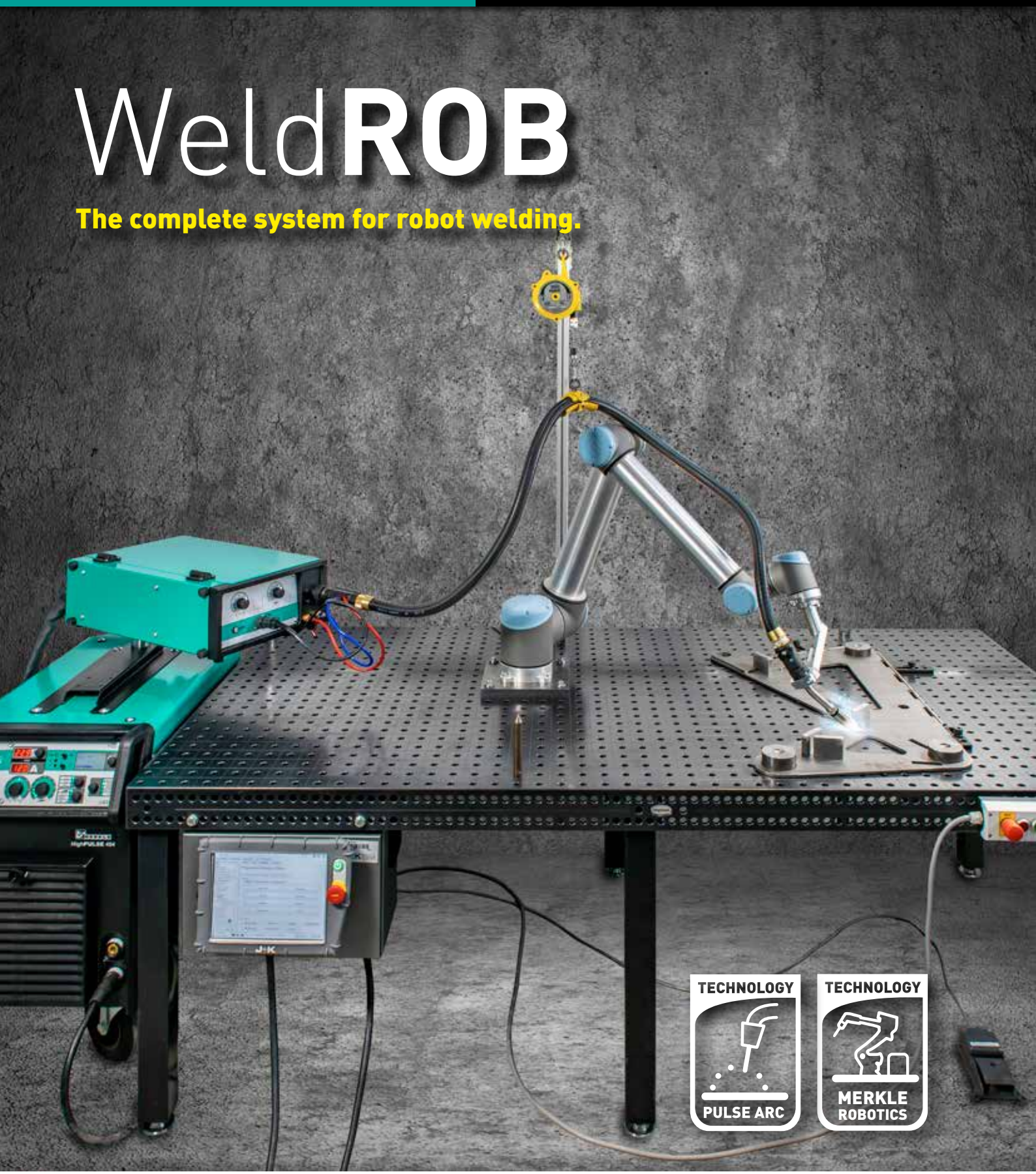
WeldROB

The complete system for robot welding.



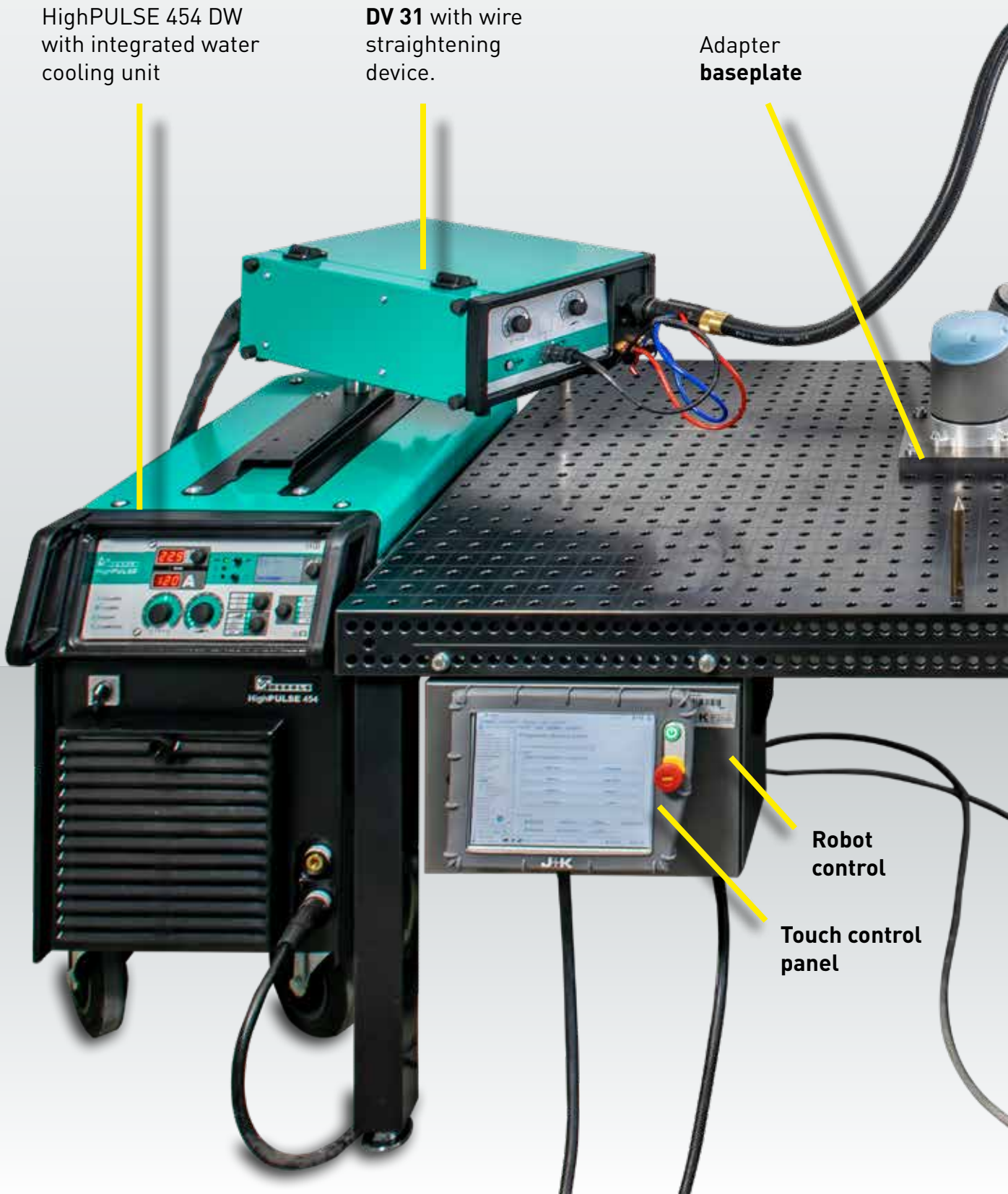
www.merkle.de

The workplace of **TOMORROW** – available **TODAY**!

Power source: Merkle HighPULSE 454 DW with integrated water cooling unit

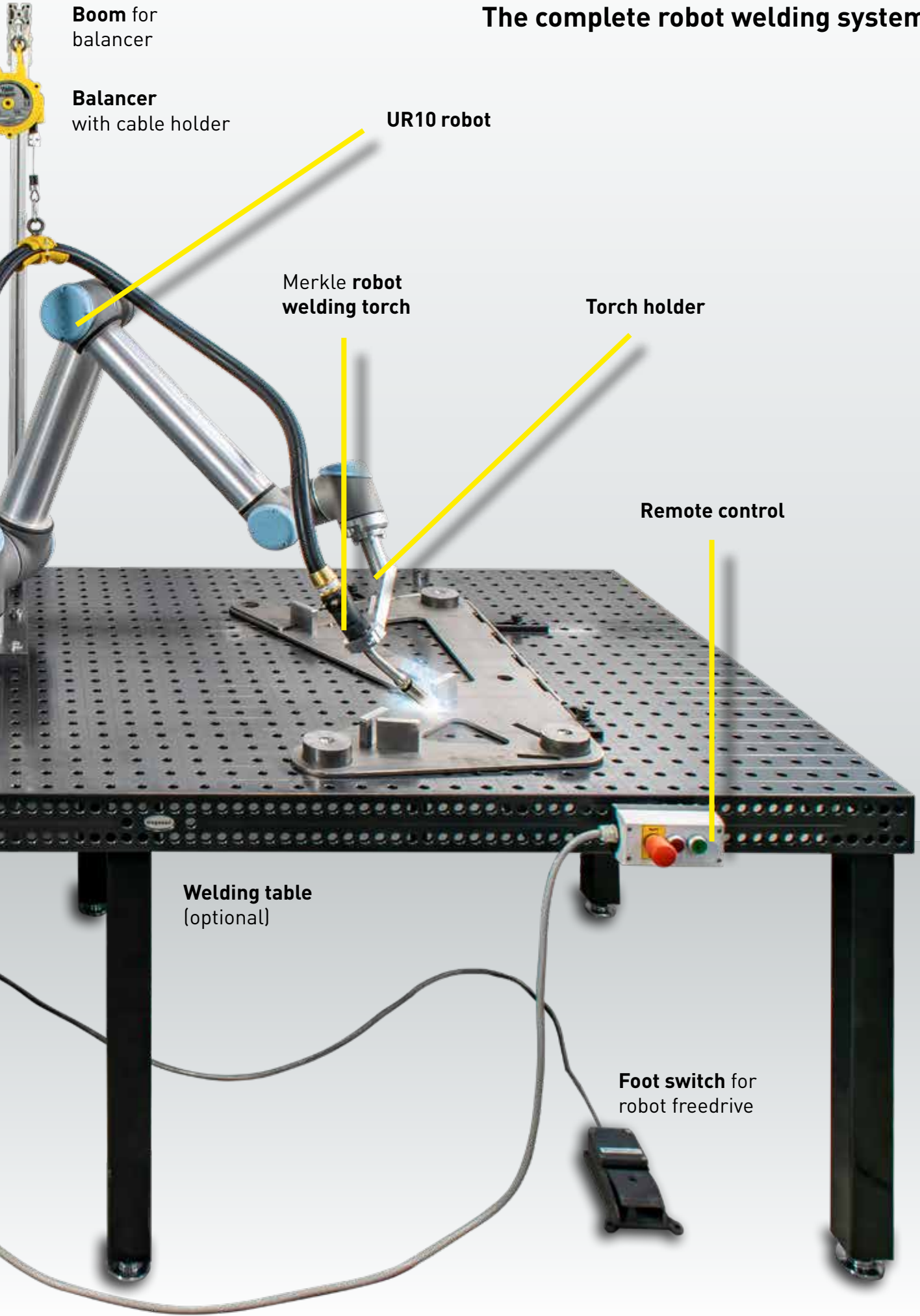
Wire feeder DV 31 with wire straightening device.

Adapter **baseplate**



Merkle Weld**ROB**

The complete robot welding system.



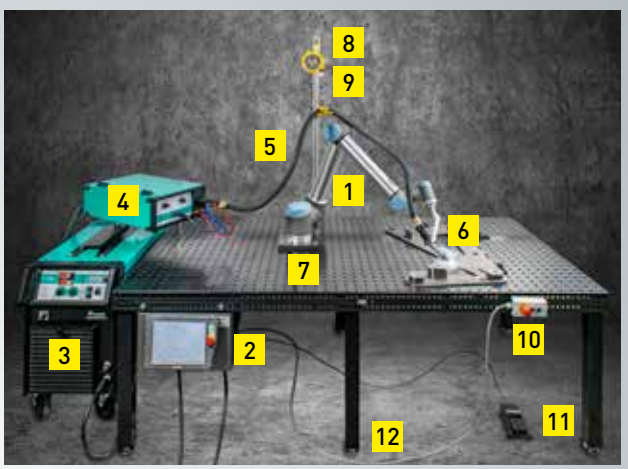
Think 3-dimensional: The use of the **WeldROB** is not limited to short longitudinal weld seams.
Simple welding processes as well as complex weld seams are programmed in just a few minutes.

Individual adjustments and components provide a maximum flexibility for the use in a variety of welding applications.

The **touch control panel** with a long cable allows fast, easy and comfortable programming and operation.

Weld**ROB**

The complete robot welding system from Merkle – All from one hand!



1. Robot UR10
2. Robot control and touch control panel
3. Welding unit HighPULSE 454 DW
4. Wire feeder DV-31
5. Hose assembly 3 m with robot welding torch
6. Torch holder
7. Baseplate for robot
8. Boom for balancer
9. Balancer with cable holder
10. Remote control
11. Foot switch for robot freedrive
12. Basic introduction training

System components

Our Merkle **torch holders** guarantee precision and repeatability.

Robot welding torches from Merkle are proven over many years. Quality and performance - Made in Germany.

Remote control with magnetic holder, on/off switch and emergency stop. Always where it is needed.

The **boom** for the suspension of the hose assembly via a balancer can be adjusted as needed.

The **balancer** with adjustable tension ensures sufficient freedom of movement of the robot arm.

With the comfortable **foot switch** the robot can be released into freedrive mode and moved with both hands.

Consistently proven: UR10 Robot

Collaborative robot technology

The modern and user-friendly lightweight robots from Universal Robots open up completely new possibilities in order to make the production in your company more effective. With sophisticated design and easy programming, you can quickly and cost-effectively implement your automation. The integrated security settings even allow collaborative operation.

Fast set up

The robot can be set up within an hour and integrated into your work process. A special electrical installation is not necessary.

Plug & Play accessories eliminate the need to worry about any additional installation.

Flexible usage

The lightweight and space-saving design allows it to use the robot for many different applications without having to change the production layout.

A quick and easy conversion and reprogramming for changing work processes is possible.

Easy programming

Thanks to the graphical user interface and intuitive modular system programs are written within a very short time. No knowledge of complex programming languages is required.

Fast payback

With its compact design, the easy programming and flexible application possibilities UR has revolutionized the market of lightweight robots. Thus the automation has penetrated into work areas that were previously only accessible with high costs.

Average payback period: 195 days

Technical data

Reach	1300 mm
Payload	10 kg
Repeatability	+/- 0.1 mm
Degrees of freedom	6 Axis
Axis movement robot arm	+/- 360°
Power source	230 V
Weight	28.9 kg

All from one hand!

HighPULSE 454 DW

The Merkle PulseARC welding system comes as a standard with water cooling and all-inclusive package: welding programms for all common materials as well as the special processes DeepARC, ColdMIG and HighUP.

Precise wire feeder DV-31

The reliable 4-roller wire feeder, together with the Merkle wire straightening device, ensures exact and constant wire feed.

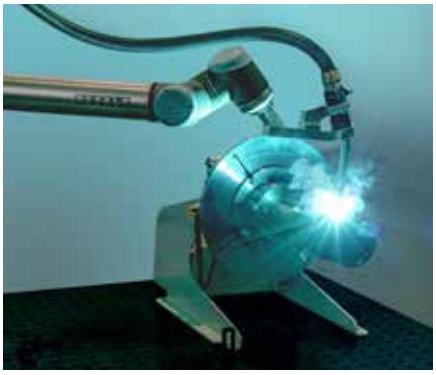
With patented forced contact

Robot welding torch ROB 505 W

The Merkle robot welding torches are watercooled and designed for continuous operation. Equipped with quick-change systems and easy maintenance, they are versatile and available in three different versions.

Peripherals and accessories

We supply everything you need for your robot welding application. Whether an enclosure, a welding table or a platform - you get everything from one source. Together with you we find the best configuration and implement it as quickly as possible.



Automation components

If required the system can be equiped with additional components. Thus allowing the execution of even more complex welding tasks by combining the WeldROB with Merkle turntables or longitudinal slides for example.

Assembly, briefing and training

We don't just deliver and leave. Merkle offers the all-round service. From installation to training, if you wish you can get everything you need to get started right away.

04/2019 EN

CREATE YOUR FUTURE SUCCESSFULLY.

With Merkle. Your specialist for welding units, welding machines, torches and intelligent automation systems.

With own subsidiaries and Merkle dealers in Germany, Europe and many other countries throughout the world.

Welcome to Merkle.

PRODUCT RANGE

- MIG/MAG Welding Units
- Synergic Pulse Welding Units
- TIG Welding Units
- MMA / Stick Electrode Welding Units
- Plasma Welding and Cutting Units
- Turntables and Roller Drive Units
- Welding and Cutting Torches
- Automation Components and Solutions
- Merkle Weld Factory – The **Industry 4.0** Solution
- Merkle Robotics

MADE IN GERMANY

55 JAHRE YEARS

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