

# SP 110-S V3.1

Technology inspired by  
our clients

# Premium welding technology for plastic piping systems

In a world where safety, efficiency, cleanliness and quality are essential, AGRU has taken another step to address these key elements of plastic pipe welding. The optimized welding process and user-friendly design set new standards in IR welding technology, ensuring fast, consistently high-quality infrared welds.

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## Time-saving, cleanroom-compatible production of pipe isometrics

The new machine provides maximum efficiency thanks to time-optimized, monitored welding sequences and considerably shorter cooling times. The significant increase in performance is made possible in part by the further developed machine components, such as the innovative planer design for leveling the pipe ends. The consistently high quality and perfectly reproducible results of AGRU piping systems are ensured, among other things, by switchable welding path monitoring.



## Reliable and monitored clamping of the pipe components

## User-oriented machine design

Easily adjustable clamping jaws, which also protect the welding area, allow for reliable and monitored clamping of the pipe components. Furthermore, integrated waste collection containers enable sorted recycling.



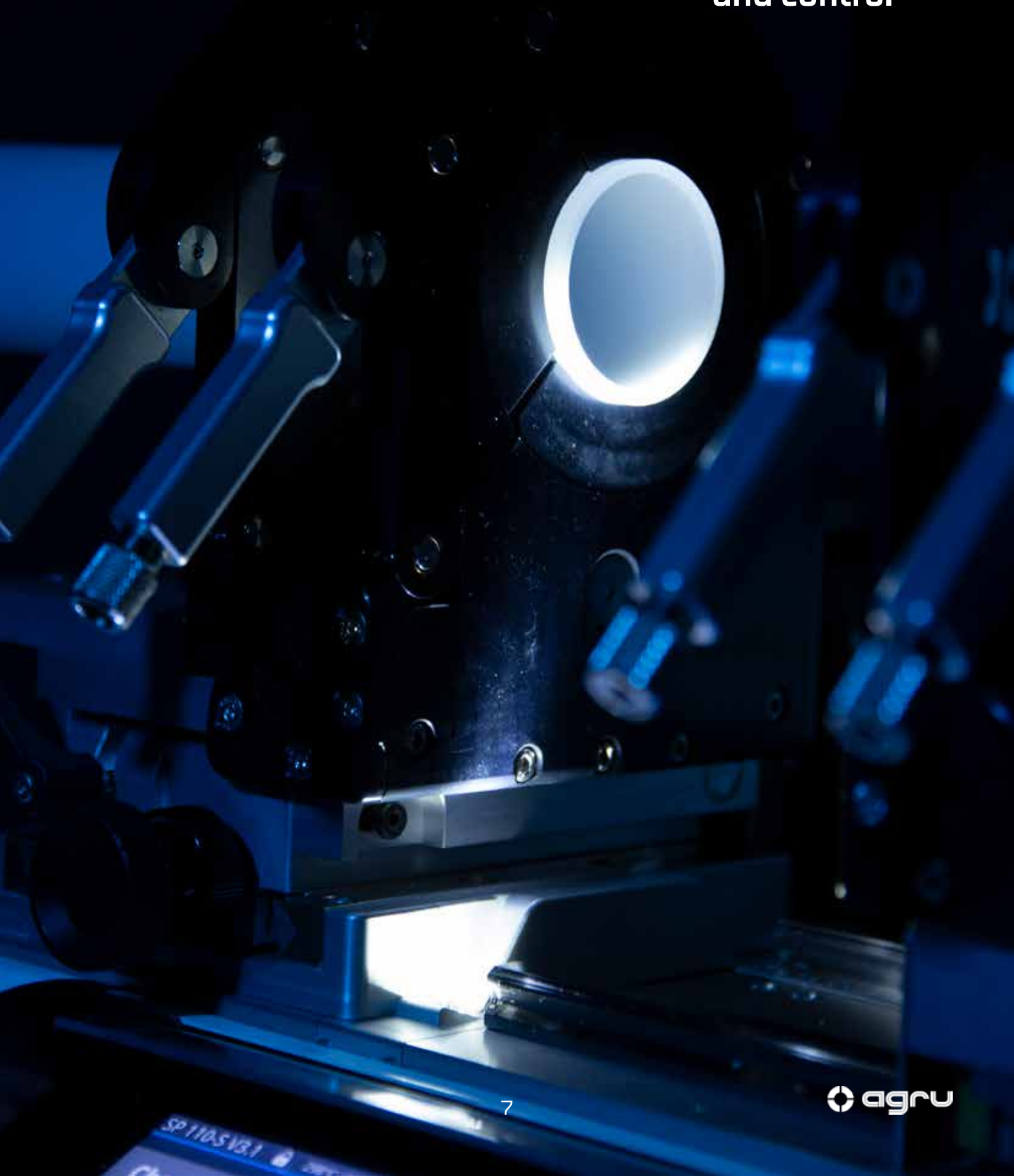


## Smart switching of the clamping jaw inserts

**Integrated  
cleanroom capable  
wheels for easy  
movement of the  
machine**



**Built-in mechanical  
system for precise  
alignment, adjustment  
and control**



## Scratch-resistant, high-resolution display with advanced touch capability

The menu visualized in the app design guides intuitively through the entire welding process. All welding data and the QA/QC guidelines can be viewed at any time.



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## Big Data ready

The real-time transmission of welding data from an entire machine fleet via LAN/WLAN enables rapid digital evaluation and precise traceability of the IR weld results in the AGRU Weldnet. Furthermore, the wireless connection allows a central network printer to be controlled by all machines simultaneously. The additional Bluetooth function of the SP 110-S V3.1 ensures seamless communication with the WeldTrace app.



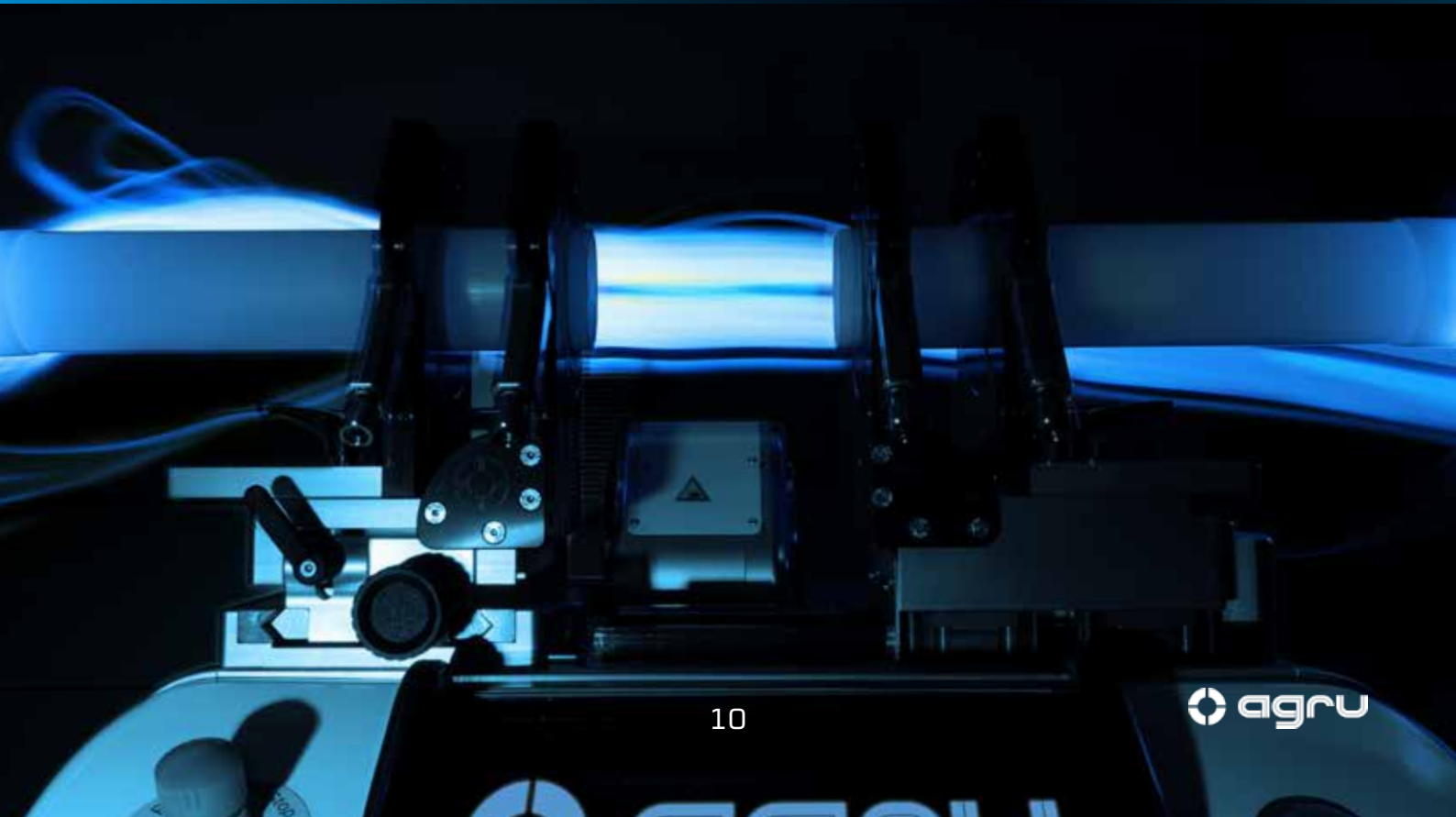
## Faster and easier maintenance

Consistent performance is made possible by the Tool Kit developed for the SP 110-S V3.1. It can be used to carry out autonomous and precise calibration of all machine parameters directly on site, saving time. All calibrations are digitally recorded for continuous traceability.



## Plug & weld

A compact, ready-to-go machine design enabling a high level of weld quality and repeatability due to the fully automated process.



The SP 110-S V3.1 is the ideal welding machine for the following applications:

- Semiconductor Industry
- Industrial Applications
- Chemical Industry
- Hospitals and Laboratories
- Food and Beverage Industry
- Dairy Industry
- Life Sciences
- Solar Industry
- LED/LCD Technology

OD 20 mm (1/2") to  
OD 110 mm (4")

**Weldable plastic types:**

PVDF • PVDF-UHP • ECTFE  
PP-R • PP-Pure • Polypure  
PP-H • PE 100-RC • Poly-Flo  
in PE 100-RC & PP-R • PFA

Best suited for  
piping systems  
in DI, PW and  
UPW plants



