PRESS INFORMATION

Perfect welding results around the globe

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Arplas and Bosch Rexroth combine their strengths in projection welding process and welding control technology



Arplas combines its welding expertise with the PRC7000 welding control from Bosch Rexroth. Through close technical collaboration and testing, Arplas's QCS technology was built into the welding control, where it assesses the quality of every weld. (Image source: Arplas Europe BV)

Arplas, market leader in aesthetic resistance welding for the automotive industry, combines its welding expertise with the PRC7000 welding control from Bosch Rexroth, and offers its proven Quality Control System (QCS) technology on this platform. Customers benefit from a control platform that is available worldwide and well-established in the automotive industry, together with the quality of the Arplas welding process.

Arplas welding is a specialized form of projection welding, distinct from conventional spot welding. With its special projection geometry and proprietary weld unit, it offers excellent surface quality with fully structural welds. The welding control used to be fully developed and assembled in-house by Arplas. The company now uses the PRC7000, including integrated Arplas welding functionality, from Bosch Rexroth as its preferred welding control system: "With Bosch Rexroth, we are relying on a strong, flexible partner that is continuously evolving and offers a particularly powerful welding control in the PRC7000, that is already supplied in a ready-to-install welding cabinet," summarizes Joost van Haperen, CEO of Arplas.

Arplas benefits from long-term component availability as well as solutions prepared to meet new regulatory requirements, such as the Cyber Resilience Act. Through the PRC7000, Bosch Rexroth automatically provides the data logging properties required by the automotive industry in accordance with various standards.

Together to the optimal welding process

Through close technical collaboration and testing, Arplas's QCS technology was built into the welding control, where it assesses the quality of every weld and appears in the interface as the "Arplas" production process.

This gives customers access to the advantages of the Arplas welding process, together with the welding control from Bosch Rexroth, which are both well-established worldwide in the automotive industry. This simplifies the integration of Arplas into production lines and reduces potential barriers.

Invisible welds for automotive industry

The welds in the welding process developed by Arplas are virtually invisible on the outer sheet metal skin of the body panel. There is no need for plastic covers or complex rework or expensive

laser welding, which is used in other methods to receive a clean result. The QCS system verifies the quality of each individual weld. Narrower flanges save material, reduce weight and lower energy consumption by up to 75% compared to spot welding. The Arplas process welds a wide range of materials, including high-strength steel, mild steel, sheet aluminium, cast aluminium and magnesium. It can also be used in tight, hard-to-reach areas and complex geometries where conventional methods such as spot welding, riveting or laser welding are difficult or impossible to apply. In this way, Arplas enables state-of-the-art car designs.

PRC7000 welding control from Bosch Rexroth for highly efficient welding processes

The PRC7000 welding control combines freely configurable hardware and adaptive controllers with an open system architecture to create a highly precise and flexible solution for resistance welding processes. It can be used to realize various applications in the field of resistance welding with different basic materials, high-strength steel, aluminum and cast aluminum. The integrated servo logic significantly simplifies the integration of a servo drive. The system can be operated and commissioned very easily with the intuitive, web-based "PRI-web" user interface. When used in conjunction with the PRI7000 engineering software, the system can be monitored in detail and with precision. The IoT Connector provides all relevant process and quality data via OPC UA or MQTT protocol for higher-level MES and cloud systems.

Information about Arplas: Arplas is the market leader in aesthetic resistance welding for the automotive industry. Its Arplas process produces welds that are fully structural yet clean enough to remain in sight, even on visible surfaces of the car body, at low energy input and across a wide range of materials and coatings, including including high-strength steel, mild steel, sheet aluminium, cast aluminium and magnesium. This enables carmakers to reduce material, weight and cost while achieving greater design freedom. Founded in 1971 and active in automotive welding for more than 25 years, Arplas serves nearly all major automotive manufacturers worldwide. Its QCS technology verifies the quality of every weld. Headquartered in Amersfoort, the Netherlands, Arplas operates as equal local divisions in Europe, China, Korea and the United States, with service representation in India, combining global reach with local manufacturing, sales and support.

Basic Information Bosch Rexroth

As one of the world’s leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile and Industrial Applications as well as Factory Automation. With its intelligent components, customized system solutions, engineering and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, around 31,900 associates generated sales revenue of 6.5 billion euros in 2025.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 413,000 associates worldwide (as of December 31, 2025). The company generated sales of 91 billion euros in 2025. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, digitalization, electrification, and artificial intelligence. In this context, Bosch’s broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in hardware, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture intelligent, user-friendly products. With technology that is “Invented for life,” Bosch wants to help improve quality of life. The Bosch Group comprises Robert Bosch GmbH and its roughly 500 subsidiary and regional companies

in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. Bosch employs some 82,000 associates in research and development.

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