

bauma 2022, hall/stand A2.538

Digital and emission-free: Marquardt shows solutions for the operation and electrification of construction and commercial vehicles

- Intelli-Controls product family sets standards for control units for off-road vehicles
- Components and charging solutions for electric drives support the zero emissions goal

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Rietheim-Weilheim, August 2022 – At bauma 2022, mechatronics specialist Marquardt will present innovative products for operating and controlling construction and commercial vehicles. These include the intuitive and robust controls in the Intelli-Controls module family, as well as digital drive authorization systems via smartphone. As a partner in electrification, Marquardt also offers ready-to-use components for hybrid and battery-electric drives along with the associated charging solutions.

High-quality and safe – controls for off-road vehicles

The Intelli-Controls product family from Marquardt sets standards for controls for off-road vehicles – in terms of intuitive operation as well as safety and a high-quality feel. Thanks to a functional combination of hardware and software, the dirt and water-resistant button and rotary dial controls with protection class IP69K are highly configurable. They can therefore be easily integrated into the vehicle systems of construction machinery and municipal commercial vehicles.

Simple vehicle access by smartphone

With Marquardt's PnD3 platform, the future of smart access in the commercial vehicle sector has begun. This is because the mass-production-ready drive authorization system enables cyber-secure vehicle access via smartphone. For fleet operators, the ability to securely share the digital key makes vehicle checkouts and

checkins much simpler, while drivers have every key they need at the touch of a button on their smartphone.

Zero emissions – components for charging and drive systems

In the field of hybrid and battery-electric drive systems, Marquardt has been combining its experience in power electronics with expertise in energy management for the past ten years. Marquardt supplies all components – from complete battery management systems to cell voltage monitoring including the associated charging infrastructure. The Interactive Charging Socket (ICS), for example, is designed with a wide range of features and is compatible with all global inlet standards worldwide. Manufacturers of trucks and off-road vehicles benefit from the solution, as do manufacturers of charging stations. As well as various LED lighting scenarios, it offers the option of an automated charging port cover and inlet port flaps to protect the contact pins against dirt.

Look inside the cockpit of the future – with the DemoCar 2.0

Visitors to Marquardt at bauma can experience these and other operation, control and electrification innovations by taking a look inside the cockpit of the future. In the driver's seat of the DemoCar 2.0, Marquardt will also be demonstrating new materials together with Application Light solutions that open up new realms of functional and ambient possibilities. The LED animation also has assistance functions such as warning lights or collision control, and signals various engine states as well as the temperature level in the cabin.

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Marquardt_Press_Photo_Intelli_Controls_Family: The Intelli-Controls product family sets standards for control units for off-road vehicles.



Marquardt_Press_Photo_Intelli_Controls_Family2:
Button and rotary dial controls in the Marquardt Intelli-Controls family are highly configurable thanks to a functional combination of hardware and software.



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Marquardt_Press_Photo_Interactive_Charging_Socket: Makes the whole charging process smarter: the Marquardt Interactive Charging Socket (ICS).



Marquardt_Press_Photo_Democar_2.0: The Marquardt DemoCar: look inside the vehicle interior of the future.

About Marquardt

Marquardt, a family-run company founded in 1925 and based in Rietheim-Weilheim, Germany, is one of the world's leading manufacturers of electromechanical and electronic switches and switching systems. The products of the mechatronics expert are used by many well-known customers in the automotive industry and include operating components, vehicle access, driver authorization systems and battery management systems. The company's systems are also used in household appliances, industrial applications and power tools. Marquardt Group employs approximately 10,200 members of staff worldwide at 21 locations in four continents. The company generated 1.3 billion euros sales revenue in the fiscal year 2021. Each year, Marquardt invests around ten percent of its revenues in research & development.

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