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IAA Transportation 2022: FORVIA showcases strong expertise with Faurecia and HELLA

- FORVIA, 7th largest automotive industry supplier, will propose several world premieres at IAA Transportation
- New Cryogenic Hydrogen Storage Solution as part of zero-emission products for hydrogen mobility, as well as the world's first truck seat platform
- New modular, customized full-LED lamp and its latest intelligent battery sensor for smart energy management

FORVIA is exhibiting at this year's IAA Transportation in Hanover from September 20 to 25, 2022, for the first time with its two brands Faurecia and HELLA. Located in Hall 12 Booth B27 & 31, FORVIA will showcase the combined expertise of both companies in the fields of lighting and electronics as well as clean and sustainable mobility.

Hydrogen drive train and storage solutions

FORVIA is demonstrating its true system capabilities in terms of heavy-duty fuel cell vehicles, being able to provide to our customers the **full hydrogen system**, including a complete hydrogen storage system (80 kg of gaseous hydrogen stored) and Symbio's 150kW fuel cell stack. Supporting our ambition in the race against climate change and commitment to safety, FORVIA is also exhibiting both sustainable and smart tanks. These innovations will enable both recyclable tanks, with thermoplastic solutions, and safety enhancement through structure integrity monitoring.

FORVIA will also introduce its **Cryogenic Hydrogen Storage** solution developed by Faurecia for the first time, highlighting the innovative capabilities of the company. Leveraging the higher energy density of liquid hydrogen, we offer a compact storage solution that enables to store the same quantity of hydrogen within a 40% reduced volume, facilitating vehicle integration and maximizing the quantity of hydrogen on-board. It is suited for intensive usage and large autonomy of ranges of up to 1,000 kilometres. This sub cooled liquid hydrogen storage system is co-developed with Air Liquide.

Additionally, FORVIA will also present its **containerized storage solution**, adapted for various industrial applications and fleet management, such as hydrogen transportation and distribution (refuelling stations). By providing these lightweight and competitive solutions to the hydrogen ecosystems, such as the Zero Emission Valley in France, FORVIA is reinforcing its positioning as a key player in the hydrogen value chain and enabler of clean mobility.

State of the art emission reduction technologies

To fulfil the Euro VII or equivalent Ultra Low NOx requirement (still under definition), further technologies are being developed by FORVIA. One of our leading solutions in this area is the **Heated Doser**, developed by Faurecia, which drastically reduces nitrogen oxides especially at low temperatures and is compatible with current and future aftertreatment architectures. As part of a full system approach, this technology will enable compliance with the next wave of regulations (EPA2027, EuroVII) cutting NOx emissions by 90% in the most CO₂ efficient way.

FORVIA is further developing technologies and producing **Exhaust Compact Systems** which optimize the engine's thermal efficiency leading to fuel consumption reduction and as well contributing to emissions reduction. As an example, the new Scania Exhaust After Treatment System produced by Faurecia (part of the next generation powertrain "Scania Super") is contributing to an overall 8% fuel reduction. Furthermore, a wide mixer portfolio, including the Flex Mixer, is available to support our customers to optimize AdBlue® usage in a wide variety of aftertreatment types.

New generation of truck seats

Another world premiere is the **first truck seat platform**: with this patented platform, FORVIA succeeds in transferring its extensive passenger car expertise in the areas of safety, comfort, personalization and platformization to truck seats. Its modular architecture allows OEMs to produce a wide diversity of seats at the lowest development and implementation cost. At the same time, the platform not only supports the circular economy through easy exchange and recycling of parts, but also allows the integration of particularly sustainable materials such as covers, foams or lightweight components. For example, it enables up to 16% weight saving per complete truck seat.

In the light commercial vehicle and passenger car segment, FORVIA will present the second generation of the **Smart Massage Cover** - the first retrofit massage mat proven

to prevent and alleviate back pain. The latest version of the massage mat will be available from mid-October. In addition to intuitive control via an app, voice control is now also integrated, enabling activation of the massage mat while driving.

Modular lighting for trucks and trailers

A special FORVIA product highlight will be the brand new, **modular full LED rear combination lamp for 24 V trucks and trailers**. The patented HELLA LED light curtain in combination with a rear reflex reflector realises the tail light of the full-LED rear combination lamp and can be individually designed with this innovative light by means of printed graphic structures such as dots, stripes and shapes. In addition, manufacturers can also freely choose the colour of the support frame and, for example, design it along their respective corporate colours. This makes the tail light a central eye-catcher and supports the branding of the manufacturers on the road. Trucks and trailers thus become unique.

FORVIA will introduce the new modular **LEDayFlex III** lighting system by HELLA in Hanover using a demonstration model. The LED combination lamp combines three lighting functions in one module and is equipped with innovative EdgeLight technology. The modules can be integrated horizontally, vertically or diagonally into any headlamp. The flexible alignment options give the respective vehicle a distinctive appearance.

Intelligent sensors

As one of the world's leading suppliers of vehicle electronics, FORVIA will also be presenting innovative electronics solutions for a wide range of applications in Hanover. These include **intelligent battery sensors (IBS) designed** for 24-volt vehicle electrical systems which ensure optimum energy management in trucks and buses as well as large construction machines and are suitable for both combustion engines and electric motors.

FORVIA's large sensor portfolio will be represented at IAA Transportation by, among other things, an innovative **combined rain-light sensor** designed for steep windscreens with a windshield inclination of 80° to 90°. We are currently the only supplier of such a combined rain-light sensor that is ideally suited for vehicles such as trucks, buses or large construction machinery.

Furthermore, FORVIA will present **accelerator pedals, linear actuators for folding and closing systems as well as space-saving rotary actuators** developed by HELLA

for low forces for locking and unlocking systems in confined spaces, e.g. fuel filler flaps, glove compartments or charging plugs on e-vehicles and charging columns from its comprehensive electronics segment.

Experience FORVIA's innovative power at IAA Transportation from September 20-25, 2022, in Hanover, Germany in Hall 12, Booth B27&31. On September 19, a press conference with Patrick Koller, CEO of Faurecia, will also be held at 14:30 at the FORVIA booth B27 & 31 in Hall 12.

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About FORVIA

FORVIA comprises the complementary technology and industrial strengths of Faurecia and HELLA. With over 300 industrial sites and 77 R&D centers, 150,000 people, including more than 35,000 engineers across 40+ countries, FORVIA provides a unique and comprehensive approach to the automotive challenges of today and tomorrow. Composed of 6 business groups with 24 product lines, and a strong IP portfolio of over 14,000 patents, FORVIA is focused on becoming the preferred innovation and integration partner for OEMs worldwide. FORVIA aims to be a change maker committed to foreseeing and making the mobility transformation happen. www.forvia.com