



Press Release – Auto Shanghai 2023 Focus #1

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**Marelli to co-create the future of mobility
with technologies for vehicle personality and performance at Auto Shanghai 2023**

Marelli will demonstrate its latest innovations at **Auto Shanghai 2023**, the prominent automotive exhibition to be held from April 18-27 2023, at the Shanghai National Exhibition and Convention Center. Within its booth – located in **Hall 1.2H, Stand 1BF01** – the company will offer an interactive and engaging experience, themed around the concept “**Co-Create What’s Next**”, aimed at **co-creating the future of mobility** with customers and technology partners.

Customers visiting Marelli’s booth will have the opportunity to define their brand’s personality by configuring their own vehicle, choosing from a curated selection of lighting, sensing, electronics, and interior options featured in Marelli’s **Digital Design Studio**. Marelli will also present products that drive **vehicle personality and performance**, including those most relevant for the Chinese market.

In the domain of vehicle personality, Marelli will showcase its **automotive lighting and sensing technologies**, that allow 360° illumination around the car and expand safety, communication, and branding functionalities beyond the vehicle. Perfect examples are **Near-Field Ground Projection** - which allows for welcome, safety and communication messages to be displayed on the ground surrounding the vehicle - and **illuminated front panels**, which integrate lighting systems and sensors, and can display or project messages and customized illuminated elements with animation diversification enabled by software.

Marelli will also premier its **In-Cabin Advanced Technology Showcase**, a physical representation of a vehicle interior that highlights Marelli’s latest innovations in computational hardware, software, exciting user interfaces, and infrastructure. As choices in terms of materials become increasingly important for the cabin of the future, Marelli offers visitors a tactile “touch & feel” experience with its **material collection**, displaying sustainable, eco-friendly, and translucent backlit materials that influence vehicle personality.

Among the technologies driving vehicle performance is Marelli’s electromechanical actuator, known as **Full Active Electro mechanic technology**, which provides the best damping and self-generated reactive force to minimize roll, pitch, yaw, and vibration, allowing new suspension architectures for the carmaker. Other chassis solutions include the **Semiactive Twin valve system** that provides a wider range of tunability independently in rebound and compression to the customer, with a very quick response time.

Catering to the needs of e-mobility, Marelli will be showcasing its **wireless Battery Management System (wBMS)**, that reduces wiring harnesses by 90%, and its **high voltage eAxle solutions**, with a twin design integrating two independent electric machines powered by two independent Silicon Carbide inverters, able to work over 900V. Its very compact and lightweight design ensures best-in-class power density while enabling advanced functions such as torque vectoring and boost charging.

For traditional powertrains, Marelli offers an **integrated multi-domain controller for powertrain and vehicle control**, which manages propulsion, improved torque coordination, and thermal management,



as well as vertical and longitudinal dynamics: this allows for a simpler vehicle architecture and fewer control units, resulting in lower weight and emissions.

Finally, to help OEMs meet emissions legislation, Marelli is highlighting the **Burner Active Catalyst Heating System**, for gasoline and diesel engines, that allows for lower fuel consumption with no effect on engine power output, significant emissions reductions (e.g.: CO, HC, NOx) and a 50% reduction in catalyst warm-up time, with the ability to start in all conditions and at very low temperatures.

Marelli has a local footprint of 22 production facilities, eight R&D centers and nine joint ventures with local partners in China. The company combines innovation, quality and R&D capabilities in the Country, to work hand in hand with local customers and partners and to shape cutting-edge solutions for China needs, that will be key to foster the company's growth locally and globally.

About Marelli

Marelli is one of the world's leading global independent suppliers to the automotive sector. With a strong and established track record in innovation and manufacturing excellence, our mission is to transform the future of mobility through working with customers and partners to create a safer, greener, and better-connected world.

With around 50,000 employees worldwide, the Marelli footprint includes 170 facilities and R&D centers across Asia, the Americas, Europe, and Africa.