

Bosch showcases technologies for the truck of the future at Mobility Experience Days

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Software, sensors, AI and a multi-lane powertrain strategy point to what's next for pickups and large SUVs

- ▶ Bosch foresees a multi-lane highway of full hybrids, range-extended EVs and other propulsion options.
- ▶ Truck buyers expect 8,000 lbs. of towing capacity as a given, and two-thirds want vehicle-to-load power built in.
- ▶ Vehicle Motion Management software provides highly personalized experiences for trucks and SUVs in use-cases like off-roading.
- ▶ Sensors and AI enable the truck of the future to respond to its environment.

Flat Rock, Mich. September 22, 2026 – Bosch is highlighting the key elements of what it calls the “truck of the future,” a showcase of the software, sensors and powertrain technologies the company believes will define the next generation of pickups and large SUVs, as part of Mobility Experience Days at its proving grounds in Flat Rock, Mich.

The event comes as automakers face a central question: what will truck and SUV buyers demand next? Bosch's answer is that no single powertrain will win. Instead, the company is betting on what it calls a “multi-lane highway” – Full Hybrid Electric Vehicles (FHEVs) and Range Extended Electric Vehicles (REEVs) and other configurations built to serve different customers and use cases, all without asking buyers to compromise on the capability they expect.

“The truck of the future isn't defined by what's under the hood. It's defined by what the vehicle can do for the people who depend on it, and by the software and sensors that make that possible,” said Paul Thomas, president and CEO, Bosch in North America and president, Bosch Mobility, Americas.

Bosch research shows truck buyers expect a baseline of roughly 8,000 pounds of towing capacity, even when they rarely use it, and that two-thirds want vehicle-to-load power to run job-site tools or back up a home during an outage. Meeting those expectations while also improving efficiency, Bosch says, requires flexible vehicle architectures and common components that can scale across multiple platforms and powertrain types.

At its Mobility Experience Days event, the company highlighted how hybrid technology for the truck of the future does not mean sacrificing performance.

- The **hybrid work-truck demonstrator** showcases the pathway to meet emissions targets below Tier 4 Bin 20 standards while delivering performance – including towing – of a conventional internal-combustion only truck.
- For the **next generation of eAxle systems** from Bosch, **silicon carbide MOSFETs** (metal-oxide-semiconductor field-effect transistor) with advanced vertical trench technology combines with direct cooling of the motor's stator windings and rotor magnets to create higher power density and significant cost reduction. By packaging the **e-motor, compact inverter, and gearbox into a single, ultra-compact design**, Bosch has created the ultimate modular solution for the multi-energy platform. Supporting the next generation of eAxle secondary drive for hybrid and battery electric vehicle applications, this unit operates as a dedicated boost system to provide on-demand power and instant all-wheel-drive (AWD) capability.

Software delivers vehicle dynamics control in new use cases

The truck of the future goes beyond propulsion. Software provides the opportunity for highly personalized experiences, particularly when it comes to vehicle dynamics. The baseline is Bosch Vehicle Motion Management software, which can be applied in multiple use cases.

- **Bosch Vehicle Motion Management software combined with FOX semi-active suspension technology** coordinates chassis actuators in real time to show how software-defined mobility is going off-road. The result is a vehicle that can balance off-road capability, comfort and stability by continuously adapting suspension behavior to terrain and driver inputs.
- With **Vehicle Motion Management off-road** propulsion and braking can be coordinated into a single pedal to help precisely modulate vehicle speed during trail driving, obstacle negotiation and rock crawling while maintaining control of vehicle dynamics.
- The combination of **Vehicle Motion Management software with steer-by-wire** provides a coordinated vehicle dynamics ecosystem where steering, braking, propulsion and suspension work together in real time. The result new levels of driving precision, personalization and automation while laying the groundwork for the next generation of software-defined vehicles.

Sensors and AI deliver personalized experiences and awareness

The truck of the future will also increasingly use sensors and AI to provide hyper-personalized experiences and situational awareness by the vehicle.

- Bosch will showcase its new **AI cockpit** inside a vehicle for the first time, as contextual awareness and scalable automotive computing work together to enable the next generation of user-centric vehicle functions and highly personalized in-cabin experiences.
- The **Bosch AI extension platform** allows vehicles to add AI features without changes to existing hardware or system architecture. This enables automakers to easily integrate their own AI models and agents in highly successful truck programs without major system overhauls.
- The truck of the future should sense and respond to its environment. Bosch will showcase its new **Wet Road Detection** feature for the first time in North America, which utilizes ultrasonic generation 7 to detect wetness levels in real time to help vehicle recognize changing driving conditions and adapt accordingly.

“At Bosch, our job is to give automakers the flexible architecture and the software foundation to meet the expectations of truck drivers here in the market,” Thomas said. “The result is that buyers get the capability, range and affordability they’re asking for, without automakers having to reinvent the vehicle for every option.”

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About Bosch

Having established a presence in North America in 1906, today the Bosch Group employs around 38,000 associates in more than 100 locations in the North American region (as of Dec. 31, 2025). In 2025, Bosch generated consolidated sales of \$18.8 billion in the U.S., Mexico and Canada in 2025. For more information visit www.bosch.us, www.bosch.mx and www.bosch.ca.

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, and sustainable products. With technology that is “Invented for life,” Bosch wants to help improve quality of life and conserve natural resources. 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.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861-1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-four percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a limited liability company with a charitable purpose. The remaining shares are held by Robert Bosch GmbH and by a company owned by the Bosch family. The majority of voting rights are held by Robert Bosch Industrietreuhand KG. It is entrusted with the task of safeguarding the company's long-term existence and in particular its financial independence – in line with the mission handed down in the will of the company's founder, Robert Bosch.

Additional information is available online at www.bosch-press.com, www.bosch.com.

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