

Bosch expands its hydrogen portfolio

Partnership with OMB Saleri to develop H₂ tank components for mobile applications

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- ▶ Bosch now offers tank valves and pressure regulators for hydrogen tanks.
- ▶ Bosch and OMB Saleri jointly developing products further for volume production.
- ▶ Bosch expects one in eight new commercial vehicles to be powered by fuel cells by 2030.

Stuttgart, Germany / Brescia, Italy – Bosch has expanded its product portfolio for mobile hydrogen applications: as of now, it also includes components for H₂ tank systems such as tank valves or pressure regulators. For this purpose, the supplier of technology and services has entered into an engineering partnership with the Italian specialist OMB Saleri in which the products are jointly further developed. “In the drive to achieve climate neutrality, hydrogen will be an important building block in the future powertrain mix,” says Dr. Uwe Gackstatter, president of the Bosch Powertrain Solutions division. “Together with OMB Saleri, we are making H₂ tank components ready for volume production.”

Targeting the global market for hydrogen refueling solutions

Demand for powertrains that run on hydrogen will experience strong growth in the years ahead, especially in commercial vehicles. Bosch expects that by 2030, around one in eight newly registered commercial vehicles worldwide will be powered by a fuel cell. Bosch and OMB Saleri hope that the partnership they have now put in place for components for hydrogen refueling systems will expand their market positions in the H₂ sector. Their collaboration includes a licensing and engineering agreement for several products relating to hydrogen storage solutions at pressures of 350 bar and 700 bar. Joint simultaneous engineering teams are now further developing the existing products and optimizing them for volume production. The two companies’ goal is to leverage economies of scale and offer components for hydrogen refueling solutions at competitive prices.

Bosch and OMB Saleri pool expertise

The partnership brings together the two partners' know-how. The Italian technology company OMB Saleri, based in Brescia in northern Italy, is considered one of the world's leading specialists in components for hydrogen storage solutions. As a partner, Bosch will benefit from its engineering expertise, a modern H₂ test infrastructure and testing stations, and components that have already proved their worth in initial applications. In return, Bosch will contribute its experience in the commercialization of innovative products as well as a global development and manufacturing network for large volumes.

Bosch is working on mobile and stationary fuel cells

Bosch believes that hydrogen has a bright future as an energy carrier, and is making considerable upfront investments in this area. From 2021 to 2024, the company plans to invest around 600 million euros in mobile fuel-cell applications and a further 400 million euros in stationary ones for the generation of electricity and heat. The portfolio for vehicles ranges from individual sensors to core components such as the electric air compressor and the stack to the complete fuel-cell module.

Press photograph: #3029fc4b

Contact person for press inquiries:

Thorsten Schönfeld

Phone: +49 711 811-43378

Twitter: @BoschPress

Mobility Solutions is the largest Bosch Group business sector. In 2020, its sales came to 42.1 billion euros, or 59 percent of total group sales. This makes the Bosch Group one of the leading automotive suppliers. The Mobility Solutions business sector pursues a vision of mobility that is safe, sustainable, and exciting, and combines the group's expertise in the domains of personalization, automation, electrification, and connectivity. For its customers, the outcome is integrated mobility solutions. The business sector's main areas of activity are injection technology and powertrain peripherals for internal-combustion engines, diverse solutions for powertrain electrification, vehicle safety systems, driver-assistance and automated functions, technology for user-friendly infotainment as well as vehicle-to-vehicle and vehicle-to-infrastructure communication, repair-shop concepts, and technology and services for the automotive aftermarket. Bosch is synonymous with important automotive innovations, such as electronic engine management, the ESP anti-skid system, and common-rail diesel technology.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 395,000 associates worldwide (as of December 31, 2020). The company generated sales of 71.5 billion euros in 2020. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and

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