

## Press release



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06/28/2021

ID: 304

## World-class automotive developments at Bosch Miskolc

Technologies to meet the needs of future hybrid and electric vehicles have been developed

- Introduction of new research areas in Miskolc
- Cooling technology further developed for future electric and hybrid vehicles

Miskolc – Bosch, the leading global supplier of technologies and services, has a strategically important location in Hungary, where outstanding innovations and significant investments are made worldwide. Robert Bosch Energy and Body Systems Kft. in Miskolc is a dominant automotive company for the entire region, and one of the main employers of the area, which not only produces automotive components and electric drives but also carries out activities with high added value, such as research and development, testing and supplier development. In recent years, the company has implemented a number of capacity-building, research and development and innovation projects, and places a strong emphasis on the training and competence development of associates.

“The key to our future is continuous improvement. Therefore, research and development projects that can make our technologies better and more efficient are of paramount importance, so that they meet not only the expectations of the present but also those of the future” – said Dr. Frank-Stephan Kupfer, commercial plant manager of Robert Bosch Energy and Body Systems Kft. Launched in 2017, the project related to the electric or hybrid vehicles of the future sought to overcome five technical challenges of two vehicle components. Bosch's developers worked with the University of Miskolc and Bay Zoltán Applied Research Public Benefit Non-Profit Kft. The aim of the consortium partners was to create scientific results that can be used both in the long-term and commercially. In the GINOP-2.2.1-15-2017-00090 tender, the total cost of the project part of the Miskolc automotive company was 600 million forints, for which it received non-refundable state subsidy of 300 million forints from the European Regional

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Development Fund and the domestic central budget.

### **World-class solutions from Miskolc**

The project has developed technical solutions for next generation circulating pumps and engine cooling fan units operating in the vehicle refrigeration circuit. The aim was to ensure that the service life of the devices also met the requirements of future electric or hybrid vehicles. "Thanks to our successful R&D project, a new production process and component has been created, which represents a significant step forward in the creation of the vehicles of the future" - emphasized Dr. Frank-Stephan Kupfer. In addition to technological progress, the project also resulted in the creation of new research and development capacities and competences related to electromobility among the consortium members. In connection with the further development of the products, it was possible to implement new research areas in Miskolc.

### **About Robert Bosch Energy and Body Systems Kft.**

Robert Bosch Energy and Body Systems Kft. was founded in the summer of 2003, and it is engaged in the production of automotive components and electric drives, employing 2,700 employees. Bosch's automotive parts manufactured in Miskolc are supplied to major automotive companies. In addition to automotive components, the plant's flagship product is the eBike drive, an engine unit that uses a highly advanced and intelligent power assistance system. On top of production activities, the plant also carries out research and development and other activities with high added value. Besides launching high-quality dual training, the company has become one of the main employers in the region and has made a number of small and medium-sized enterprises its strategic partners. The factory further strengthens the role of the region and Miskolc in the automotive industry with its high-quality, future-oriented and innovative projects.

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## **Basic information:**

Bosch has been present in Hungary since 1898 with its products. After its re-establishment as a regional trading company in 1991, Bosch has grown into one of Hungary's largest foreign industrial employers with currently nine subsidiaries. In fiscal 2020 it had total net sales of 1,497 billion forints and consolidated sales to third parties on the Hungarian market of 238 billion forints. The Bosch Group in Hungary employs more than 15,500 associates (as of December 31, 2020). In addition to its manufacturing, commercial and development business, Bosch has a network of sales and service operations that covers the entire country.

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 exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 129 locations across the globe, Bosch employs some 73,000 associates in research and development, of which nearly 34,000 are software engineers.

Additional information is available online at [www.bosch.hu](http://www.bosch.hu), [iot.boschblog.hu](http://iot.boschblog.hu), [www.bosch.com](http://www.bosch.com), [www.iot.bosch.com](http://www.iot.bosch.com), [www.bosch-press.com](http://www.bosch-press.com), <http://www.twitter.com/BoschPress>.