

### **METSTRADE: Bosch presents platform solution for electric boat drives**

#### The future of electrified drives

October 26, 2023  
PI11738 BEG MBC/Cd

- ▶ With the new electric drive system platform (EDSP), Bosch Engineering offers a system solution for simple, fast integration into the boat
- ▶ Platform solution based on proven, powerful, and compact components from the automotive sector
- ▶ Drive components can be purchased individually and integrated independently into existing systems

Abstatt – Stricter environmental requirements and emissions standards around the world are strengthening electrification in the maritime industry. This is a trend seen not only at shipyards and many boat manufacturers. Increasing customer demands for an eco-friendlier solution are also spurring the industry on. With its electrification solutions for recreational boats and yachts, Bosch Engineering intends to play a key role in driving this change in the maritime sector. To do this, drive components and system solutions are available to boat manufacturers. At METSTRADE, Bosch Engineering will present its new platform solution for the first time. “With our electrification solutions, we support low-emission and sustainable shipping. Whether boat manufacturers require an individual or platform solution, we want to offer them the optimal solution for their needs. In addition to providing original equipment, our solutions can also be used to retrofit existing fleets of boats,” explains Philip Kurek, who is responsible for off-highway and maritime solutions at Bosch Engineering.

#### **Electric drive system platform: simple integration thanks to platform approach**

With the electric drive system platform (EDSP), Bosch Engineering offers boat manufacturers a solution for electric boat drives. This comprises Bosch’s own drive components, such as the electric motor, inverter, and transmission, as well as all other relevant components, such as the high-voltage battery, charger, and cable harnesses. Users also receive a description of all the key information they

need to incorporate the technology into their boat. This includes a system manual, component specifications, electronic control unit software, and a startup packet. In addition, the EDSP approach significantly shortens the development time to series use. With the EDSP, boat manufacturers benefit from a complete, predefined solution that can be installed quickly and cost-effectively in recreational boats or yachts.

### **Highly dynamic electric drive offers new degree of enjoyment**

Boat manufacturers receive individual components that they can even integrate into their systems themselves. For this purpose, a Bosch electric motor with an optional transmission and an inverter with an integrated DC/DC converter and an electronic control unit are available. The motors are available in 90 and 140 kW power levels. The design of the 400 V permanent magnet synchronous motor is characterized by a high-power density and very high efficiency. The inverter is equipped with a powerful DC/DC converter for supplying the 12 V onboard power supply system. The transmission impresses with its high efficiency and quiet, low-maintenance operation.

The compact dimensions enable boat manufacturers to easily integrate the components even into small spaces or to retrofit existing applications. The low overall weight of the components allows the maximum range of the boat to be increased. The dynamic behavior of the electric drive offers a new level of enjoyment when piloting yachts and recreational boats.

Visitors and interested parties can find out more about Bosch Engineering's electrification solutions at **METSTRADE at booth 07.218**.

### **Further information:**

<https://www.bosch-engineering.com/stories/stories-detailpages/marine.html>

<https://www.bosch-engineering.com/branches/ohw-overview.html>

<https://www.bosch-presse.de/pressportal/de/en/salone-nautico-venezia-venice-boat-show-bosch-presents-sustainable-electric-drives-for-yachts-and-recreational-boats-255040.html>

<https://www.bosch-presse.de/pressportal/de/en/bosch-engineering-and-x-shore-develop-new-electric-drive-system-for-the-x-shore-1-255424.html>

**Press photos:** #dad5af5a, #2fdb34be

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**About Bosch Engineering GmbH**

Bosch Engineering GmbH is a wholly owned subsidiary of Robert Bosch GmbH and is headquartered in Abstatt, Germany. As a systems development partner to the automotive industry since 1999, the company with its more than 3,300 associates offers development services for powertrains, safety and convenience systems, and electrical and electronic systems – from the original concept to series production. Specialized in electronics and software, it draws on Bosch's proven large-scale series production technology to develop tailored solutions for a wide variety of applications in passenger cars, commercial vehicles, off-highway and recreational vehicles, and in rail applications, ships, and industry. Bosch Engineering GmbH also coordinates all the Bosch Group's motorsports activities. Additional information can be accessed at [www.bosch-engineering.com](http://www.bosch-engineering.com).

Mobility is the largest Bosch Group business sector. It generated sales of 52.6 billion euros in 2022, and thus contributed almost 60 percent of total sales. This makes the Bosch Group one of the leading automotive suppliers. The Mobility business sector pursues a vision of mobility that is safe, sustainable, and exciting. 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 421,000 associates worldwide (as of December 31, 2022). The company generated sales of 88.2 billion euros in 2022. Its operations are divided into four business sectors: Mobility, 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 470 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. 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 136 locations across the globe, Bosch employs some 85,500 associates in research and development, of which nearly 44,000 are software engineers.

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