Press Release
Bosch Engineering GmbH

METSTRADE: Bosch Engineering enables fast boat electrification with plug-and-play complete solution

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- Complete solution electric drive for marine applications (EDM), featuring an electric inboard motor as its core
- High product quality thanks to the use of automotive components
- Fully functional demo sport boat makes outstanding dynamics, efficiency, and low-noise comfort a tangible experience

Abstatt – The integration of an electric inboard motor into recreational boats or commercial vessels involves considerable engineering effort and requires a high level of understanding of the overall system. The complete system electric drive for marine applications (EDM) from Bosch Engineering enables fast and simple high-voltage electrification. Boatbuilders, system integrators, and naval architects benefit from this when equipping motorboats, sailing yachts, catamarans, and smaller commercial vessels.

Plug-and-play for modern boat building

Bosch Engineering delivers the EDM as a ready-to-install inboard motor, which combines the electric motor with gearbox, the inverter, the on-board charger, the heat exchanger, an E-box with control unit, and the necessary cooling pumps in a single compact unit. The scope of delivery of the system also includes the high- and low-voltage cabling, a charger inlet along with a display and control elements. But hardware is only half the story: the complex control software offers extensive application flexibility to precisely calibrate and tune the propulsion system to the respective vessel.

High power density and installation flexibility

With a continuous output of 160 hp or 120 kW and weighing only around 195 kg, the EDM sets standards. The resulting high power density of around 0.6 kW/kg makes it one of the leading direct-drive inboard solutions in this performance class.

The installation dimensions of the compact EDM unit are comparable to those of an inboard combustion engine with the same power output and offers great flexibility for mechanical integration. Thanks to a shaft coupling that can be tilted

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by +/- 8 degrees fore or aft, the motor can be aligned precisely with the propeller shaft and installed flexibly in either direction depending on the available onboard space. This enables easy integration into an existing hull design or replacement of the drive as a retrofit solution.
In addition to cooling the integrated drive components, the thermal management of the EDM also ensures effective temperature control of the high-voltage battery. The high-voltage battery is not included in the scope of delivery. The standardized communication interface of the EDM ensures software compatibility with various high-voltage batteries on the market. This provides customers with great flexibility to choose freely based on their specific requirements and space constraints.

Automotive-grade quality flexible from quantity one
Bosch Engineering supports EDM customers from the initial installation concept to the eventual commissioning of the drive on the water. The system components of the EDM are sourced from Bosch's production for the automotive sector and satisfy the high quality standards of the passenger car and commercial vehicle segments. Bosch Engineering supplies the EDM complete system from quantity one, making it possible to economically electrify even custom one-off projects and small series.

Impressive driving dynamics in the demo boat
Bosch Engineering demonstrates just how well hardware, software, and system integration are coordinated as a complete system with a 6.5-meter-long sports boat on the water. With a peak output of 140 kW or 190 PS, the test boat proves just how dynamic this technology is. It accelerates to planing speed in just four seconds and reaches its top speed of 30 knots after 14 seconds. The EDM system in maneuvering mode demonstrates that this power can also be controlled with high precision: This special control function enables sensitive and controlled maneuvering in the harbor, even in the tightest berthing situations.

The Electric Drive for Marine Applications (EDM) will be presented at **METSTRADE in hall 1 Stand 01.462**.

Press photos are available on the Bosch Media Service at www.bosch-press.com.

Further information:
https://www.youtube.com/watch?v=vDwm6IHxMVc
https://www.bosch-engineering.com/industries/water/motorboats-and-sailing-yachts/

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About Bosch Engineering GmbH

Bosch Engineering GmbH, a wholly owned subsidiary of Robert Bosch GmbH, is a global development partner for customized mobility solutions. In the maritime sector, the company transfers its deep system and software expertise from large-scale automotive production directly onto the water. Boatyards, boatbuilders, and system integrators receive electric propulsion solutions that specifically adapt proven and robust automotive components for the demanding conditions of the marine environment.

The portfolio ranges from highly integrated, plug-and-play complete systems, such as the Electric Drive for Marine Applications (EDM), to the modular Electric Drive System Platform (EDSP) and individual electric drive components. Bosch Engineering supports customers holistically from the initial concept phase to commissioning on the water – ensuring a seamless transition to future-proof, emission-free marine propulsion.

For more information, visit: https://www.bosch-engineering.com/industries/water/motorboats-and-sailing-yachts/

Mobility is the largest Bosch Group business sector. It generated sales of 55,8 billion euros in 2025, and thus contributed around 61 percent of total sales. This makes the Bosch Group one of the leading mobility suppliers of technology and services. For its customers, the outcome is integrated mobility solutions. The business sector's main areas of activity are electrification, software and services, semiconductors and sensors, vehicle computers, advanced driver assistance systems, systems for vehicle dynamics control, repair-shop concepts, as well as technology and services for the automotive aftermarket and fleets. 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 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 and user-friendly products. With technology that is "Invented for life," Bosch wants to help improve quality of life. 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.

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