

PRESS RELEASE

Cologne, January 18, 2020

DEUTZ subsidiary Torqeedo enters into partnership with technology company ZF for development of high-tech electric boat drives

- First products by the end of this year
- Climate-friendly drives for yachts, ferries, and water taxis
- Autonomous power supply on the water thanks to hydro generation

The DEUTZ subsidiary Torqeedo – the global market leader in electric boat drives – has entered into a partnership with the international technology company ZF Friedrichshafen AG. Torqeedo will integrate ZF’s innovative Steerable Pod Propulsion (SPP) into its successful Deep Blue drive systems. The cooperation agreement was recently signed, and the plan is to have the first products ready by the end of this year. Under the terms of the partnership, ZF will supply components, while Torqeedo will carry out the worldwide sales and servicing activities for the Deep Blue systems. The collaboration will help Torqeedo to build on its existing competitive advantage and give it a strong technological USP in the 50 and 100 kW power output range.

Climate change and the problems caused by emissions in urban centers mean that electrification offers a huge amount of potential, including in the marine segment. Torqeedo drives do not produce any local emissions and make an important contribution to climate protection. Chairman of the DEUTZ Board of Management, Dr. Frank Hiller, offered the following explanation: “The various transport segments have different requirements when it comes to the shift to carbon-neutral drive systems. The partnership between Torqeedo and

ZF is an important step in the process of driving forward this transition for sailing yachts, urban ferries, and water taxis.”

ZF's Steerable Pod Propulsion system (SPP) will add two revolutionary functions to Torqeedo's electric drives. As well as enabling joystick docking for high-precision maneuvers, it allows electric power to be produced on the water itself by means of hydro generation. So when yachts are sailing, for example, the Deep Blue system's propeller, driven by the movement of the boat through the water, is used to run the electric motor thanks to the SPP. The electric power that is produced is used to recharge the system's batteries. This stored energy can then be used for when the yacht is coming into a harbor or for the on-board power supply. The system therefore generates power autonomously, which means the otherwise essential diesel generator now functions solely as an auxiliary drive for emergencies.

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Picture caption: Thanks to the integrated Steerable Pod Propulsion system (SPP) from ZF, the Torqeedo Deep Blue system is able to produce its own energy on the water by means of hydro generation.

Picture credit: ZF / Torqeedo



Picture caption: Joystick docking enables the high-precision steering of the drive by joystick for docking maneuvers.

Picture credit: ZF / Torqeedo

About DEUTZ AG

DEUTZ AG, a publicly traded company headquartered in Cologne, Germany, is one of the world's leading manufacturers of innovative drive systems. Its core competencies are the development, production, distribution, and servicing of diesel, gas, and electric engines for professional applications. It offers a broad range of engines delivering up to 620 kW that are used in construction equipment, agricultural machinery, material handling equipment, stationary equipment, commercial vehicles, rail vehicles, and other applications. DEUTZ has around 4,700 employees worldwide and over 800 sales and service partners in more than 130 countries, and in 2018 generated revenue of €1,778.8 million.

Further information is available at www.deutz.com.

About Torqeedo

Torqeedo is the market leader for electric mobility on the water. Founded in 2005 in Starnberg, the company develops and manufactures electric and hybrid drives from 0.5 to 100 kW for commercial applications and recreational use. Torqeedo products are characterized by an uncompromising high-tech focus, maximum efficiency and complete system integration. Torqeedo is part of DEUTZ Group, one of the world's leading manufacturers of innovative drive systems. www.torqeedo.com

About ZF

ZF is a global technology company and supplies systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. With its comprehensive technology portfolio, the company offers integrated solutions for established vehicle manufacturers, mobility providers and start-up companies in the fields of transportation and mobility. ZF continually enhances its systems in the areas of digital connectivity and automation in order to allow vehicles to see, think and act. www.zf.com