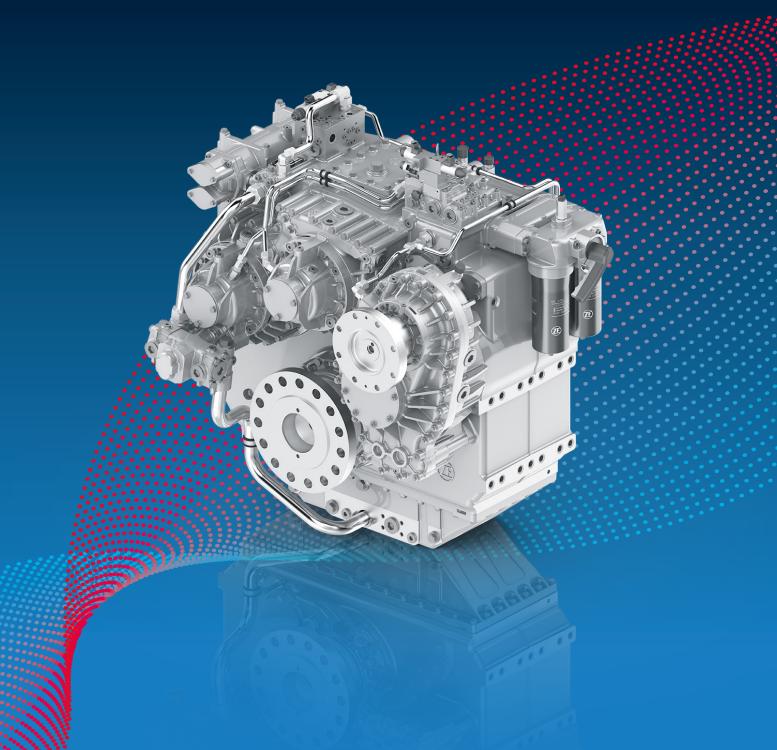


## ZF 8000 series

Brand-new Marine Transmission Familiy



# Modular design and hybrid compatibility

With the ZF 8000 series, ZF is presenting a brand-new marine transmission family for a power range up to 3,000 kW.

The availability of multiple gear ratios, housing sizes, parallel, horizontal, diagonal offsets, A/V and U drives variants gives manufacturers high flexibility for new designs and retrofits. Thus, the ZF 8000 series covers a wide range of applications, from coast guard ships and yachts to ferries, supply vessels and and many types of commercial vessels.

The advantages of this advanced transmission include higher power density, more robust housing and optimized power to weight ratio. Electric clutch actuation is equipped as standard and more PTO options for a larger range of SAE hydraulic pump sizes are available.



#### ZF 8300 PTI specifications and features

- Flexibility to be integrated into a wide variety of hybrid vessel propulsion solutions
- Rated up to 3,000 kW
- Gear ratios from 2.5 to 5.0
- Incl. PTI ratio with spur gear up to 16.25
- Configurable to various applications in the appropriate power range, for both super yachts and commercial vessels
- Top PTO, input shaft PTO and side shaft PTO available
- More PTO options for a larger range of SAE hydraulic pump sizes
- The ZF 8300 PTI, like all ZF marine transmissions, can be certified by all major classification societies

### Hybrid-ready technology from one source

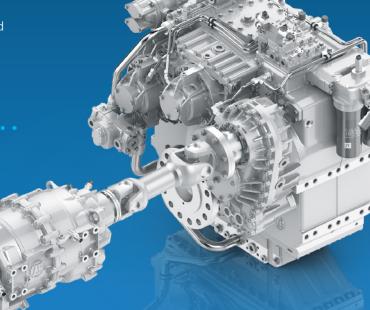
ZF is expanding its already wide range of hybrid-ready marine transmissions with the ZF 8000 series and underlines the claim of being a complete driveline supplier with the marinized electric drive CeTrax which is connected by the additional Power-Take-In.

The electric drive ZF CeTrax is already proven in other applications on land and has been adapted for maritime use in conjunction with powerful hybrid transmissions. The combination of these two innovative technologies in one propulsion system guarantees perfect interaction and optimum power delivery.

The e-drive solution provides additional power of up to 300 kWe to vessels with a maximum main engine power of 3,300 kW. The drive consists of an electric motor and a downstream planetary stage. This stage is the same as in the ZF EcoLife transmission, with thousands of successful units already to its name. The three-phase current asynchronous traction motor is water-cooled, making it suitable for high peak and continuous loading. Through the additional power take-in the electric motor can be connected to the gearbox to gain hybrid functions. This lets vessels maneuver with zero fuel and emissions.

#### ZF CeTrax specifications and features

- Electric drive motor with integrated planetary stage proven and tested in the ZF EcoLife transmission
- CeTrax is configured with a maximum output of up to 300 kWe and a maximum torque of 4,400 Nm
- High-quality ZF inverter, specifically optimized for top performance with ZF components
- High peak and continuous power through liquid cooling
- Compact design, light weight
- Optimal performance as a ZF system with inverter and electronics
- Zero-emission driving in PTI Drive



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