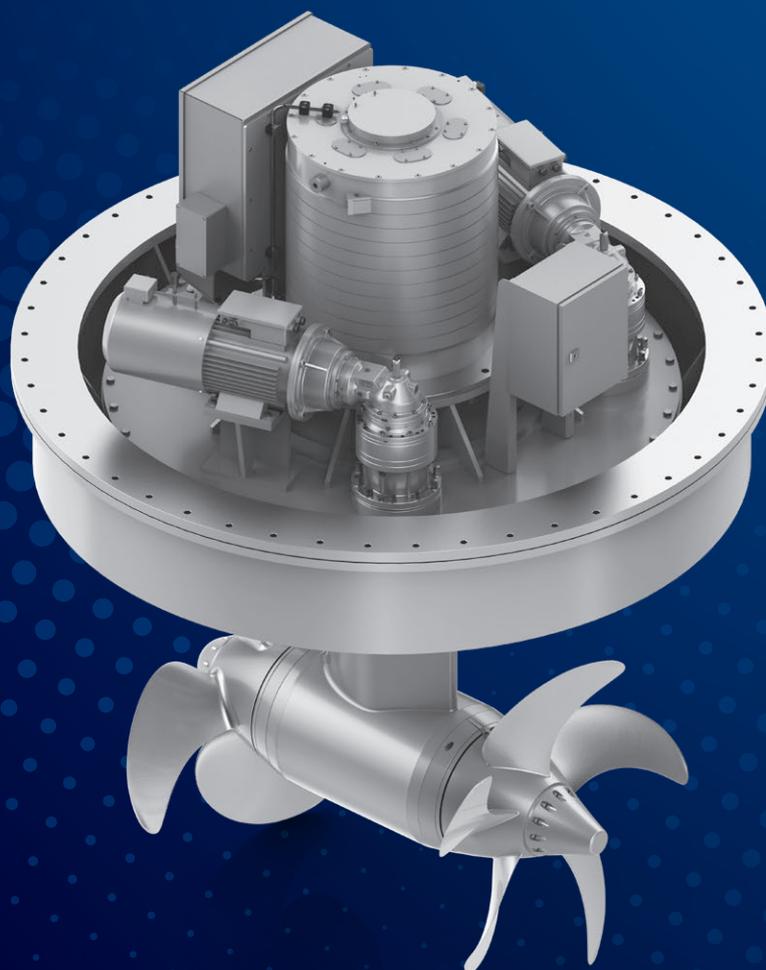




# ZF Contra Rotating AT Series

Twice the t(h)rust



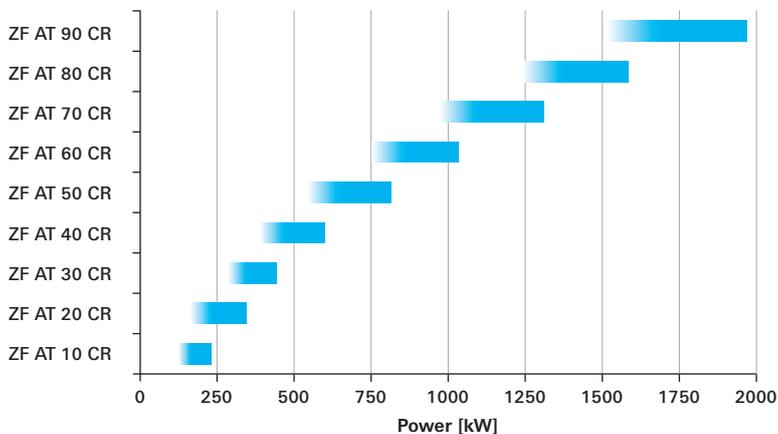
# Proven ZF design for maximum performance

The Contra Rotating AT series stands for excellent performance, maximum efficiency and low noise propulsion. This is proven by ZF technologies, streamlined design, comprehensive testing, field references and classification approvals which makes this the best solution for your vessel.

Equipped with twin propellers the ZF AT-CR is specifically designed for vessels with cruising speeds above 12 knots. Compared to single-propeller thrusters, the contra rotating thruster achieves higher efficiency with the same propeller diameter or similar efficiency when the diameter is reduced, which is advantageous in shallow draft applications. The double propeller reduces noise and vibration level inside the water and vessel. This is generated by dividing the load over multiple propellers, which does also lead to an increased level of efficiency.

The CR thruster series is also available as a compact thruster (WMC 30, 40 and 50), making it ideal for applications with limited installation height, especially in combination with a permanent magnet electric motor.

## ZF AT-CR portfolio – power range\*



\* Rating subject to classification and application. Mentioned data for indication purpose only. Consult ZF technical staff to determine applicable power for each specific use.



ZF AT-CR



ZF AT-CR Compact

## Features

- Available up to 2,000 kW
- Significantly higher efficiency compared to a single propeller
- Reduced draft due to decreased propeller diameters
- Noise reduction due to lower blade load
- Customizable to customer requirements
- Certified by all major classification societies
- Support from ZF experts worldwide
- Excellent, worldwide availability of spare parts



Scan QR code for more information

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