



# ZF Tunnel Thruster Series

Improved maneuvering with bow thrusters from ZF

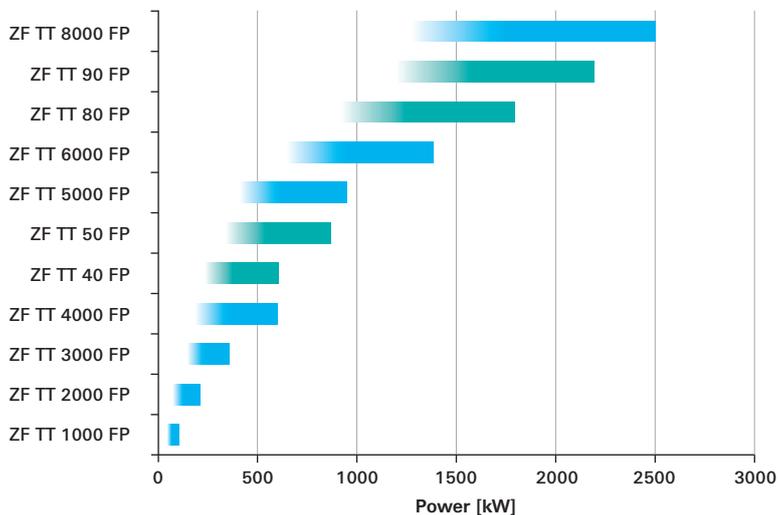


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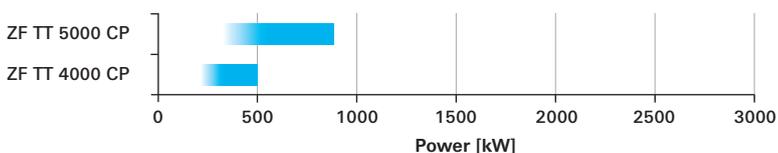
## What can Tunnel Thrusters provide?

The ZF Tunnel Thrusters with optimized hydrodynamic efficiency lead to significantly increased maneuverability for traditional shaftline equipped commercial vessels and pleasure craft boats. In auxiliary use the ease of mooring can be improved. In essential use for more demanding applications, such as dynamic positioning, performance can be optimized. The thruster can be delivered in a performance range of 50 – 2,500 kW.

## ZF Tunnel Thruster TT Fixed Pitch portfolio – power range\*



## ZF Tunnel Thruster TT Controllable Pitch portfolio – power range\*



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

## Features

- Available up to 2,500 kW
- Fixed Pitch Propeller (FP) also available as Controllable Pitch Propeller (CPP)
- L-drive or Z-drive
- A flanged arrangement makes it possible to remove the tunnel thruster from the vessel without dry docking
- Increased tunnel lengths possible
- Also available with aluminum gearbox and tunnel (only up to size ZF TTL 3000 FP)
- Drive options; Diesel engine, electric or hydraulic motor
- Support from ZF experts worldwide
- Excellent, worldwide availability of spare parts
- Certified by all major classification societies

## ZF Group

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ZF Tunnel thruster FPP Z-Drive



ZF Tunnel thruster FPP L-Drive