



# Bow Thrusters

185 - 250 - 300 Series



Powerful

Quiet

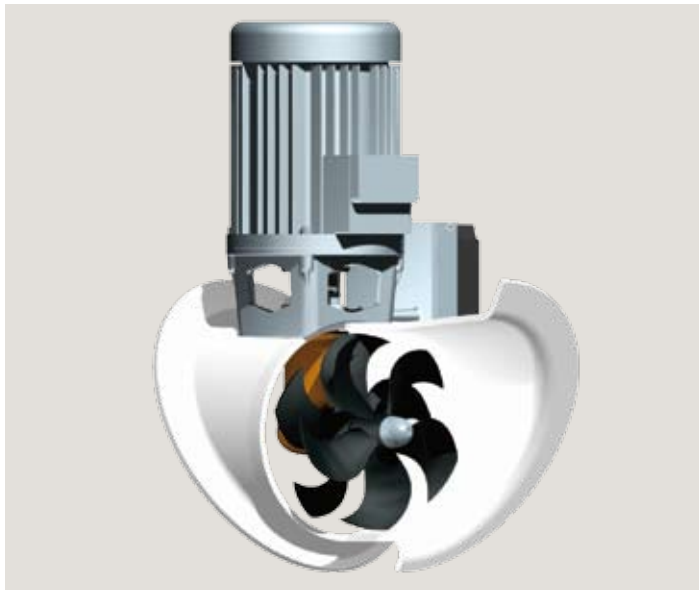
Efficient



ZF Marine, the world's largest supplier of propulsion systems, has expanded its wide product range with a new line of electric bow thrusters.

ZF Marine bow thrusters represent the latest development in technology and maximize performance in terms of:

- More thrust
- Less noise
- Extended operation with heavy duty cycles



### Thrust

Counter-rotating propellers, coupled with an innovative, patented tapered-tunnel design, provide up to 20% increased thrust over the whole range of operation.

Special five-blade, skewed propellers have high efficiency and low noise.

This improves comfort and maneuverability, enabling the boat to be docked quickly and precisely.

### Noise

The patented tunnel design minimizes cavitation, resulting in noise reduction of up to 10 dB (A) - significantly quieter than any existing tunnel installations.

### Duty Cycle

Powered by electronically controlled AC motors, these bow thrusters are suitable for heavy duty applications. This means continuous thrust for up to 30 minutes, without over-heating.

Proportional control ensures that only the right amount of thrust is provided, as necessary for precise maneuvering, which minimizes the load on the batteries.

ZF bow thrusters perfectly complement the ZF Joystick Maneuvering System for unparalleled maneuverability and boating comfort.



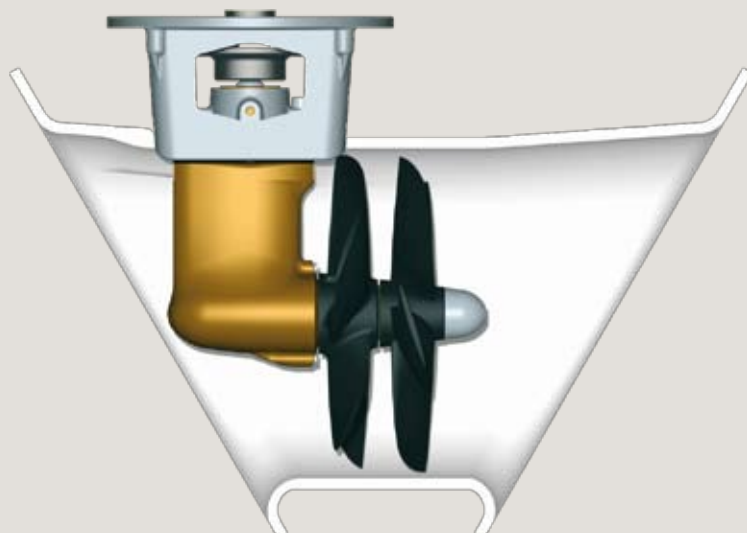
Joystick Maneuvering System

## ZF Bow Thruster Range

### Technical data

Model	Tunnel dia mm (inch)	Props	Electric motor power kW (hp)	Thrust kg (lbs)	Voltage (V)
ZF BT-E 185/3 SP	185 (7,3)	Single	3 (4)	65 (143)	12 / 24
ZF BT-E 185/6 TP	185 (7,3)	Twin Counter Rotating	6 (8)	105 (231)	24
ZF BT-E 250/10 TP	250 (9,8)	Twin Counter Rotating	10 (13)	230 (501)	48 *
ZF BT-E 300/15 TP	300 (11,8)	Twin Counter Rotating	15 (20)	315 (694)	48 *

\* 48V motor. The bow thruster includes a 48V-24V series-parallel battery switch box.





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