

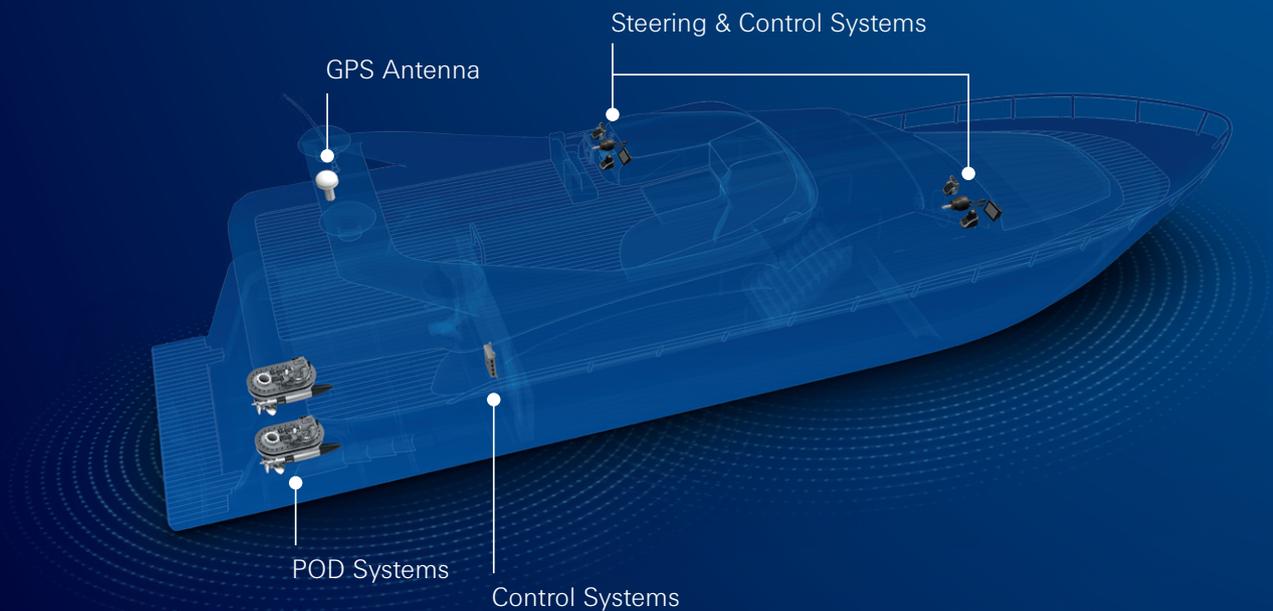


Unrivaled Comfort. Effortless Control.

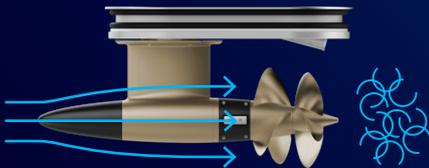
ZF POD Propulsion Systems



Unrivaled Maneuverability and Propulsion Efficiency



Heading to the right direction



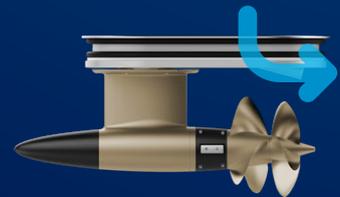
More efficiency, less drag

The optimized torpedo design ensures ideal water flow for counter-rotating propellers, increasing efficiency and avoiding turbulent flow at the bottom and related drag that are typical of forward-facing propellers.



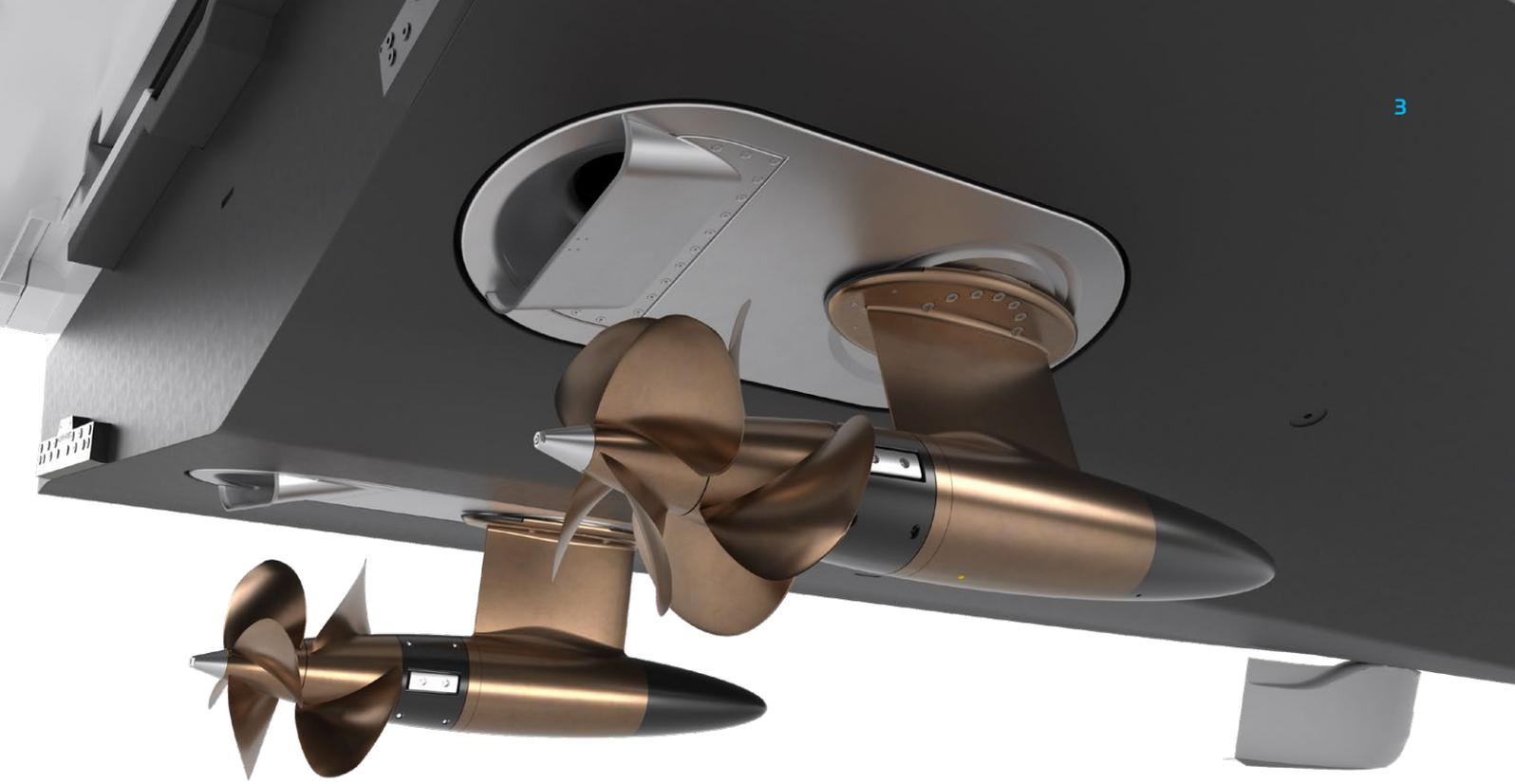
Propellers protection

Torpedo prevents propellers damages deflecting underwater objects.



Less back-pressure

Especially at low speed (no "bubbling"). Additionally, exhaust outlet can be customized according to operational vessel speed.



ZF POD Propulsion Systems

Experience the thrill of true marine innovation with ZF POD Propulsion Systems – where power meets precision and efficiency drives every journey. Designed to elevate performance for recreational and professional vessels, ZF's advanced POD technology delivers outstanding maneuverability, reduced fuel consumption by up to 20 percent, and quieter, more comfortable cruising. Whether you're charting open waters or navigating tight harbors, these propulsion systems redefine what's possible at sea. With hybrid-ready capabilities and optimized engineering, ZF ensures you're prepared for the challenges of tomorrow while enjoying peak performance today. It's not just about moving forward – it's about leading the way with confidence, freedom, and intelligent power.



Smarter Propulsion, Superior Performance

Efficient, quiet, and incredibly smooth – this advanced propulsion system reduces fuel use, cuts noise, and maximizes onboard space. Precision handling and unmatched maneuverability deliver the ultimate luxury cruising experience.

Engineered for excellence, the highly efficient counter-rotating propellers and optimized horizontal thrust deliver outstanding propulsion performance – all while reducing drag, fuel consumption, and emissions. With no need for rudders or shaft supports, the streamlined design translates to greater efficiency and more space onboard for luxurious accommodations.

Comfort is built into every detail: the elastic mounting system minimizes vibrations and structural noise, ensuring a quieter, smoother ride.

Unrivaled handling is where POD propulsion truly shines. Independent thrust direction enables exceptional maneuverability, effortless docking, and precise dynamic positioning. This is smart propulsion for those who demand more from the sea.

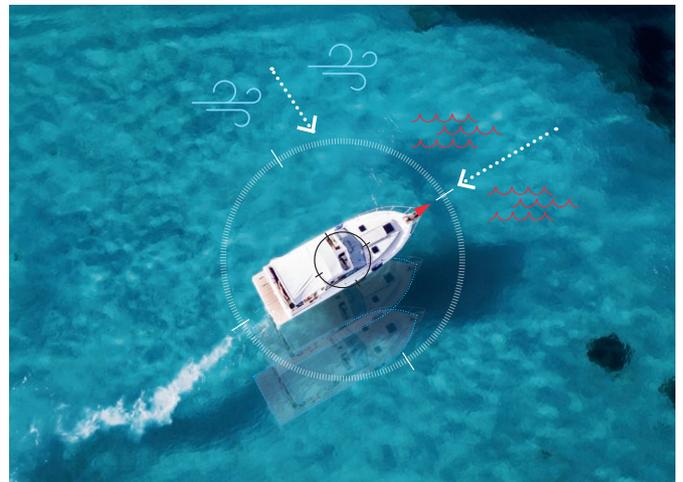


Features of ZF POD Systems

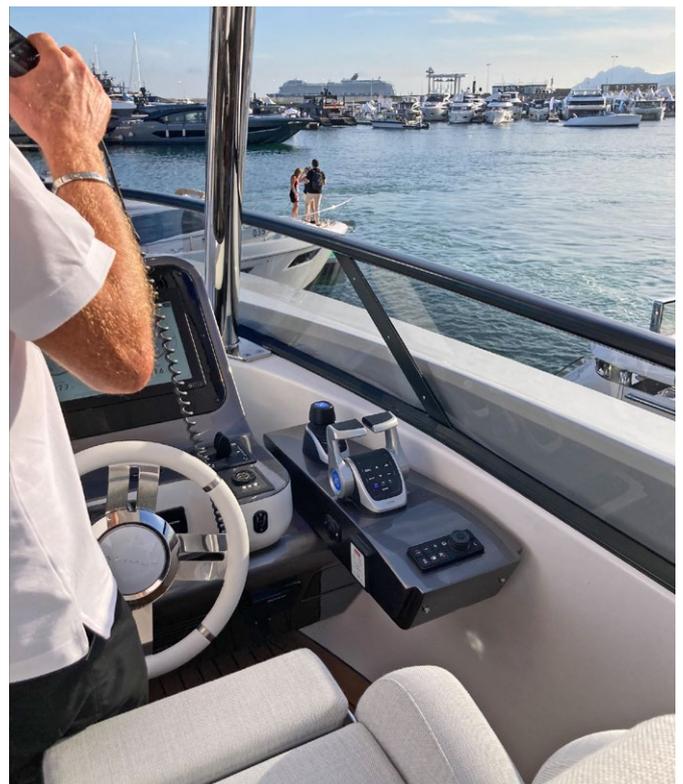
- Pushing twin counter-rotating propellers covering boat speeds from 20 to 35 knots
- Applicable on planing and semi-displacement hulls. Suitable for both recreational and professional applications (type approvals available)
- Compatible with all the main OEM engines up to 2,000 hp @ 2,450 rpm
- Electro-hydraulic steering, hydraulic gear shift with low speed mode and trolling
- PTO (Power Take Off) and PTI (Power Take In) available for hybrid propulsion
- Integrated exhaust system
- Nickel Aluminum Bronze and stainless steel in all main under water components granting best corrosion resistance performances
- Interface with all main autopilot systems
- Interface with all main bow and stern thrusters
- Joystick and iAnchor (Dynamic Positioning) available
- Lower unit safe release in case of impacts with underwater objects



ZF iAnchor, combined with advanced POD propulsion systems, keeps your vessel steady and on course – even in wind or strong currents – for unmatched control, precision, and effortless positioning.



ZF joystick and lever controls, perfectly paired with ZF POD systems, deliver maximum control – for smooth handling and effortless maneuvering at any speed.



Integrated Power and Precision

ZF POD Propulsion Systems offer integrated propulsion and steering systems for large vessels of all types, being compatible with all main marine OEM engines. The POD 4600 is designed for a power range of up to 1,250 kW (1,700 hp), while the ZF POD 4900 covers a power range of up to 1,470 kW (2,000 hp).

up to
20%*

fuel savings and
less CO₂ emissions

up to
30%*

longer cruising
range

up to
20%*

more speed



Main Data

	ZF POD 4600	ZF POD 4900
Max. input power [kW / hp] @ 2,450 rpm	1,268 / 1,700	1,472 / 2,000
Max. input torque [Nm]	5,036	6,107
Max. bollard pull each unit [tons]	9.2	
Reduction ratio	2.434	2.434 – 2.612
Unit dry weight [kg / lb]	1,540 / 3,395	1,580 / 3,483
Propellers diameter [mm / in]	up to 978 / 38.5	
Installation	Twin / multiple	
Hull	Planing and semi-planing	
ZF duty ratings	Pleasure Light Medium	0.5275 kW/rpm 0.4382 kW/rpm 0.3771 kW/rpm
		0.6400 kW/rpm 0.5757 kW/rpm 0.4262 kW/rpm
MTBO [hours]	12,000	
Speed range [knots]	20 to 35	
Type approvals	RINA, BV, Lloyds, ABS	
PTO (optional)	SAE C 650 Nm	

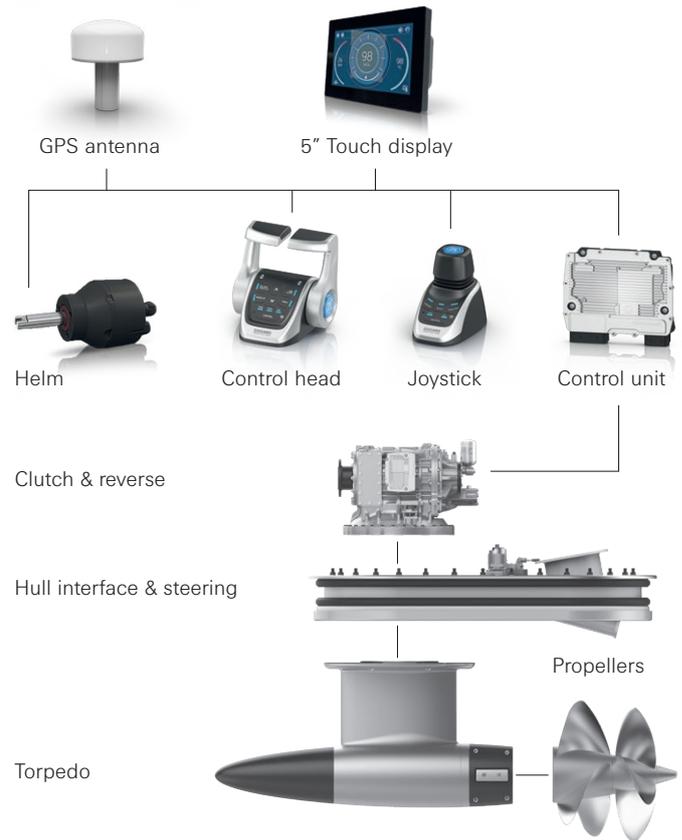
* POD results are based on an internal simulation-based study and sea trials. Results may vary depending on various factors. The results of the study are intended for informational purposes only and are not guaranteed.

One System From One Source

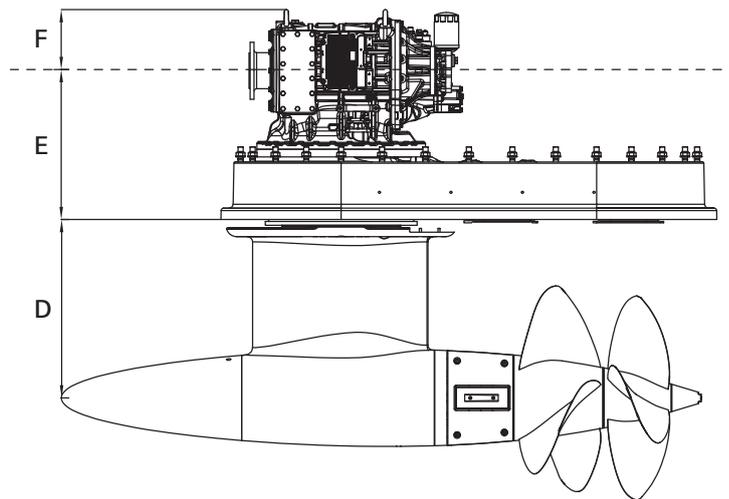
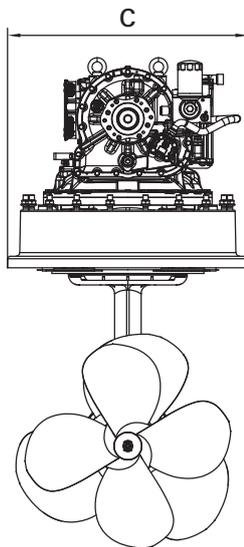
The ZF POD Propulsion Systems offer the latest pod-drive technology, replacing conventional shafts, rudder systems and exhaust systems for ease of installation.

The systems also integrate the latest ZF control technology: TotalCommand, the CAN-bus communication technology with the industry's best multifunction control heads to accommodate up to six stations. The compact control head design combines an ergonomic lever shape with a user-friendly touch pad allowing all system functions to be easily selected using touch push buttons.

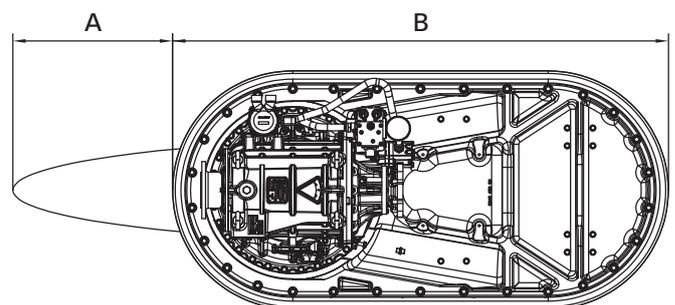
As an added bonus, DP0 (dynamic positioning) and joystick maneuvering are available. The joystick system provides the helmsman with simple and intuitive vessel control. Engines and PODs are automatically controlled together providing smooth, unbeatable "ease of control".



Main Dimensions POD 4600/4900



A mm (in)	531 (20.91)
B mm (in)	2130 (83.86)
C mm (in)	1130 (44.49)
D mm (in)	681 (26.81)
E mm (in)	610 (24.02)
F mm (in)	196 (7.72)



ZF Group

ZF Padova s.r.l.

Via Penghe, 48

35030 Caselle di Selvazzano (PD)

Italy

Phone +39 049 8299 311

info.zfmarine@zf.com

www.zf.com/marine



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