



TITAN 62 SPORT FISHING YACHT

MARINE PRODUCTS

Twin Disc transmission, controls drive custom sport fishing vessel



Vessel:	Titan 62 sport fishing yacht
Builder:	Titan Custom Yachts in Ocean City, Maryland
Transmission:	Twin Disc MGX-5146A transmission
Controls:	EC300 electronic controls
	EC300JS Express Joystick System®
	EC300EPS Express Positioning System®
Power:	1360-1531 HP @ 2300 rpm, depending on ratio



Twin Disc transmission and controls drive custom sport fishing vessel

Titan Custom Yachts worked with Great Lakes Power, a Twin Disc service partner, to find the best transmission and controls solution to meet its demanding performance requirements.

Situation

Titan Custom Yachts, based in Ocean City, Maryland, builds high-quality custom sport fishing yachts. Founded in 2001, the company specializes in 50' to 80' vessels that combine performance, comfort and speed.

Implication/Problem

When planning the company's latest vessel, the Titan 62, designers wanted a powerful, responsive transmission as well as a responsive control system that could be integrated with hydraulic thrusters. The vessel required a transmission system that permitted very fine modulation of the clutch to allow low shaft speeds for trolling. Any systems used had to provide good slow-speed control for fishing and maneuvering.

"Great Lakes Power is superb. This is my second boat with them, and I would highly recommend them. Any question I had was answered in a better than timely manner. The Twin Disc transmission provides instant response when you put it in gear. The (control system) is everything I thought it would be – plus more. It's pretty sweet really. People have asked me 'How are you moving that boat around so slowly like that with no prop discharge.' It's because of the express mode. It's fantastic. It really surpasses anything I thought it would be."

Russ Garufi
Titan Yachts

Solution

Titan Custom Yachts worked with Great Lakes Power, a Twin Disc service partner, to find the best transmission and controls solution. To meet its demanding performance requirements, they chose to incorporate a Twin Disc MGX-5146A transmission, EC300 electronic controls, EC300JS Express Joystick System, and EC300EPS Express Positioning System into the vessel.

The MGX-5146A offers features including:

- Rated at 1360–1531 HP at 2300 rpm depending on ratio
- Electric GP-valve with manual override
- EC050 Profile module – interface for engagement signals
- Twin Disc QuickShift® technology

The EC300 electronic controls features include:

- Stainless steel control head stations and independent CAN-Bus networks offer greater redundancy
- Twin Disc graphic monitor

The Twin Disc EC300JS provides:

- "Push, twist and go" directional maneuvering
- Proven QuickShift transmission and EC300 control technologies
- Simultaneously and instantaneously controls engines, transmissions and thrusters
- During docking, eliminates steering wheel and control lever activities
- Extremely intuitive responsiveness

The Twin Disc Express Positioning System maintains a vessel in a fixed position and heading at the touch of a button. A dedicated, highly accurate and reliable GPS receiver determines the vessel's exact location and heading, allowing the system to maintain the precise station coordinates and heading.

EPS features include:

- Maximum power available to continuously hold station without producing excess heat or wear
- Compatible with single- and twin-engine applications
- Compatible with twin-engine bow or bow/stern thruster applications
- Can be retrofit to existing EJS® applications

Results

The Titan 62 serves as the company's demo boat. The MGX-5146A QuickShift transmission allows very fast shifting compared to older-style systems, allowing shifts in a quarter-second or less, and provides excellent speed control for fishing and other activities.

The EC300, EJS and EPS provide unparalleled navigational control and precise, proportional thrust on main propellers and bow and stern thrusters to allow for continuous, powerful maneuverability. The Titan 62 also includes Twin Disc Express Positioning System (EPS) technology. With the push of a button, the EPS allows the boat to hold a specific position, allowing it to remain in place.