



SteerCommand





Steer-by-wire technology has long been used by the aviation industry, and now it's available for your boat! No more messy mechanical and hydraulics links – just fit & fly!

Photo: courtesy of Ferretti Group

The System

The main advantages of SteerCommand are:

- improved control
- better performance
- reduced maintenance
- easy installation
- reduced weight
- minimum space required

Like active steering systems in luxury cars, SteerCommand gives you a similar feeling when driving your boat, thanks to a patented reactive electronic force feedback system specially designed by ZF Marine. During the development, the designers could tap the experience gained from the R & D work done by ZF Friedrichshafen AG – one of the world's leading suppliers of driveline and chassis technology to the automotive industry. Controlled by ZF Marine's SmartCommand electronic control system, when taking the helm you experience unmatched handling and performance, enabling you to cruise and maneuver with maximum safety at any speed.

SteerCommand comprises of a linear actuator which turns the rudder, according to the signal sent via CAN bus, from the helm.

Performance characteristics

- faster rudder response
- tighter turning radius
- higher efficiency with continuous micro-processor control
- highest safety in any sea condition
- maximum smooth control, with active feedback to the helm
- automatic back-to-zero position of the steering wheel (optional)



* actual components could differ slightly from those shown on pictures

The whole system is designed for heavy loads and has been proven to work continuously, safely and reliably, guaranteeing maximum performance under the most arduous conditions.

Technical features

- Linear Actuator, using roller screw technology
- vector drive, controlling the linear speed of the shaft
- 24VDC system
- CAN bus communication
- micro-processor control integrated into SmartCommand control unit
- dual control stations (bridge and flying bridge)
- optional integration with GPS and autopilot
- angle between rudders varies as a function of boat speed available with the two linear actuator configuration
- automatic roll control (optional)

Safety

- In case of electronic network failure, the rudders automatically return to the center position.
- In case of total power failure, the rudders can be actuated mechanically.
- 100% redundancy (full system can function with either the starboard or port processor).

SteerCommand layout



