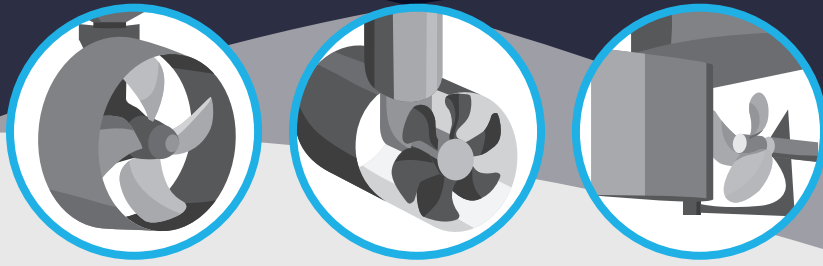


# Precise DP control for thrusters and rudders



## Delta DP

Delta DP is a modular high-level propulsion control system that integrates vessel's propulsion, steering and navigation systems. It provides three main controlling modes: Manual control, Dynamic Positioning mode and Autopilot mode. DP capabilities include dynamic positioning, virtual anchor, and 3-axis joystick propulsion force control. In addition to DP features, Delta DP includes automatic heading keeping, track keeping and has an external waypoint autopilot interface capable of interfacing with NMEA2000 or NMEA0183 autopilot computer.

### SYSTEM ARCHITECTURE

- ✓ Modular CAN bus connected system
- ✓ Proprietary J1939 inspired CAN network
- ✓ NMEA2000 interface for GPS and external autopilot
- ✓ 7-inch display
- ✓ Robust real-time control module for each thruster

### CONTROL HEAD OPTIONS

- ✓ Twin-levers option
- ✓ 3-axis joystick
- ✓ E-Helm

### BOW THRUSTER CONTROL OPTIONS

- ✓ Analog signal
- ✓ PWM controlled proportional valves

### INTELLIGENT FEATURES

- ✓ 3-axis joystick force control
- ✓ Dynamic positioning
- ✓ Virtual anchor
- ✓ Heading autopilot
- ✓ COG autopilot
- ✓ Track following autopilot

### RUDDER CONTROL OPTIONS

- ✓ "Bang bang" control
- ✓ PWM control for proportional valves

### DRIVELINE CONTROL OPTIONS

- ✓ Optoisolated analog engine control
- ✓ J1939 CAN engine control
- ✓ Gearbox solenoid control
- ✓ ZF ClearCommand DP-interface option

### Vessel types:





# Delta DP - System Diagram

