

Dynamic Positioning System (DP) is a computer controlled system for controlling the position of a vessel without the use of mooring anchors. DP is used for many other applications not limited to e.g. cable or pipe-layer, platform supply vessels, crane vessels, cruise ships, diving support vessels, dredging, drill - ships, FPSOs, Flotels, Landing Platform Docks, Research or Survey Ship, rock-dumping etc.

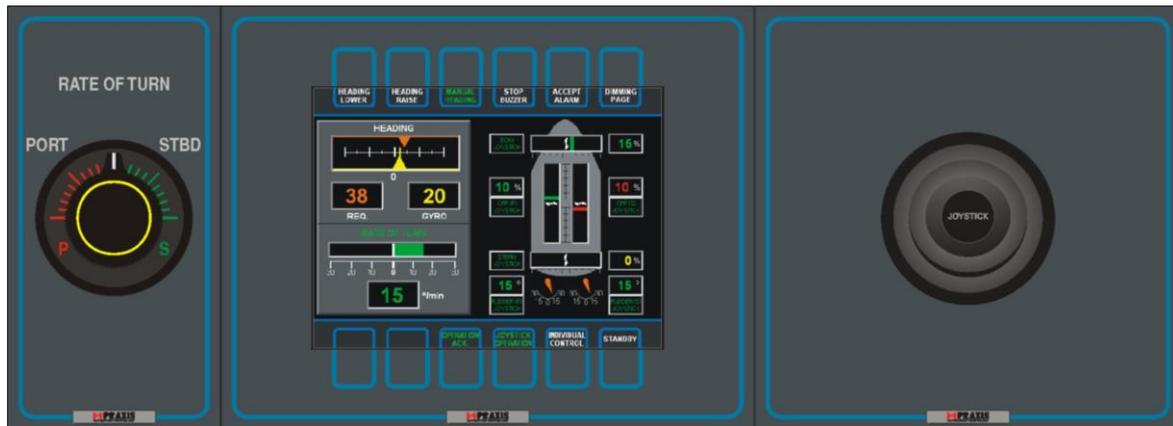
DP systems are becoming more popular and replacing Jack-up barges & Anchoring as offshore work enters ever deeper sea, as in mitigating the problem of congestion or destroy of sea-bed, for faster berthing and other advantages.



Mega-Guard DP console



Mega-Guard DP comes with 19" to 26" TFT screens



Mega-Guard DP consists of a 7" TFT Operator Panel, Joystick and Rate of Turn knob and is equipped with 12 push buttons.

The Mega-Guard Dynamic Positioning System (DP) automatically controls the position and heading of the vessel by activating the thruster base on data measurements from position reference systems, gyrocompasses, wind sensors and motion reference units.

The Mega-Guard DP has a very high MTBF due to low power and powered by 24 VDC only. It is field-proven base on the experience gained in the design and delivery of joystick control systems as supplied for many vessels since 1980.

The Mega-Guard DP and JC systems are in full accordance with the applicable classification and IMO rules (DP1, DP2 and DP3)
 We can provide reliable and fast response with world wide service network and spare part holding at strategic locations.

Mega-Guard Dynamic Positioning System comes with the following control modes and can be selected on our 7" TFT screen of the DP Operator Panel:

1. Joystick Manual Heading Mode for manually controlling the position of the vessel via Joystick and the heading via the Heading Knob.
2. Joystick Auto Heading Mode for manually controlling the position of the vessel via Joystick while keeping the heading under automatic control
3. Auto Position Mode for automatic station keeping by setting absolute or relative coordinates
4. Autopilot Mode and Auto Track Mode for controlling the speed of the vessel via joystick control in the fore direction, while keeping it to set heading. Only the main thrusters and rudders are used in this mode. Auto Track model allows the vessel to move along pre-configured tracks.
5. Target Follow enables the vessel to automatically follow a moving target and keeps the vessel at a constant position relative to the target.
6. Simulation Trainer Mode can be selected when the thrusters are in individual. This mode is used to train and familiarize the operator with the Mega-Guard DP system.