

Marex OS II-3D for intuitive maneuvering



The Marex OS II-3D eases the steering of a ship by integrating all propulsion elements into one 3-axes-joystick.

The idea of the innovative maneuvering assistance is to control the vessel only by moving a joystick intuitively without having to control the individual propulsors independently. Thus, the captain has the whole ship in one hand allowing him to focus on the surrounding area.

Intuitive control by joystick

The joystick has two modes: it can be used as control unit for the bow or stern thrusters or as vector control unit for all propulsors (3D-mode). Like this, the captain can decide in every situation whether to use the traditional control levers together with the lever for the bow and stern thruster or to use the comfortable maneuvering assistant. When in 3D-mode the movements of the joystick are translated into commands for each propulsor based on vector control.



Lateral movements

Especially in harbour maneuvers the lateral movement helps the captain to dock the vessel. Sidewise thrust is created precisely by counterrotating main propulsors and additional bow thruster support. Additional safety is achieved by the function "heading compensation" which keeps the vessel's bow in the original direction.



Rotational movements

A rotation of the vessel can be achieved simply by turning the joystick. The rotation is created by running the propulsors in opposite direction.



Combination of commands

Of course, all single commands for movements can be combined for example to a lateral movement with a rotation.

Innovative, reliable, safe – the joystick control

As easy as possible – it's in your hand

The Marex OS II-3D makes maneuvering, docking and casting off in the harbour easy and safe as never before. It's a technical highlight on every vessel and offers a surplus of comfort, safety and driving pleasure either in maneuvering as well as in cruising.

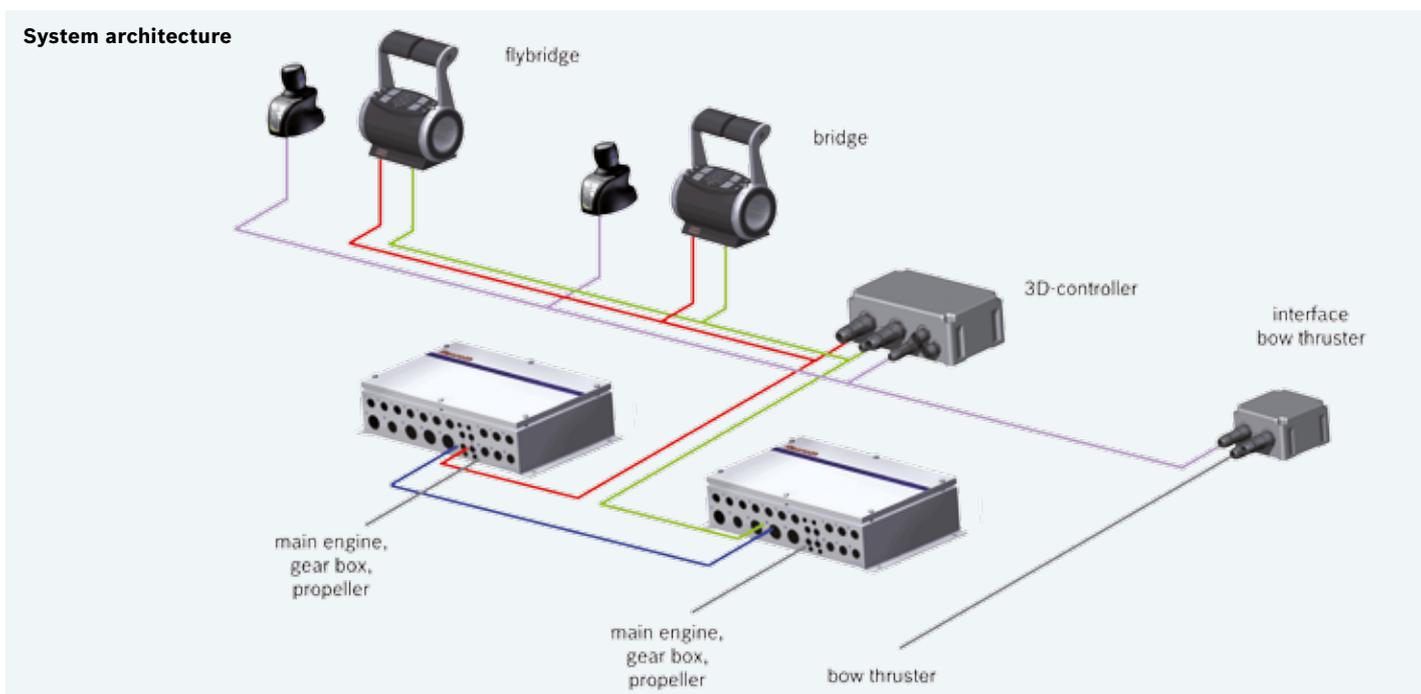
Components and applications

The integration of the joystick control system into the proven system architecture of the Marex OS II guarantees the highest flexibility. Due to the modular set-up, the system is highly adjustable. Be it waterjets, rudder propellers, controllable or fixed pitch propeller applications – there is a solution for every propulsion line.

All the components of the Marex OS II-3D can be configured to your individual needs and application requirements. Everything is thoroughly tuned – from the joystick station to the 3D-controller up to the thruster interfaces with pre-configured CAN-cables.



- ▶ Two operating modes: 3D-mode or thruster control
- ▶ 3D-control for cruising and maneuvering
- ▶ Modular system: maneuvering station, 3D-controller, thruster interfaces, CAN-bus and signal cabling
- ▶ Integration into the Marex OS II remote control system by CAN for the main propulsors



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