

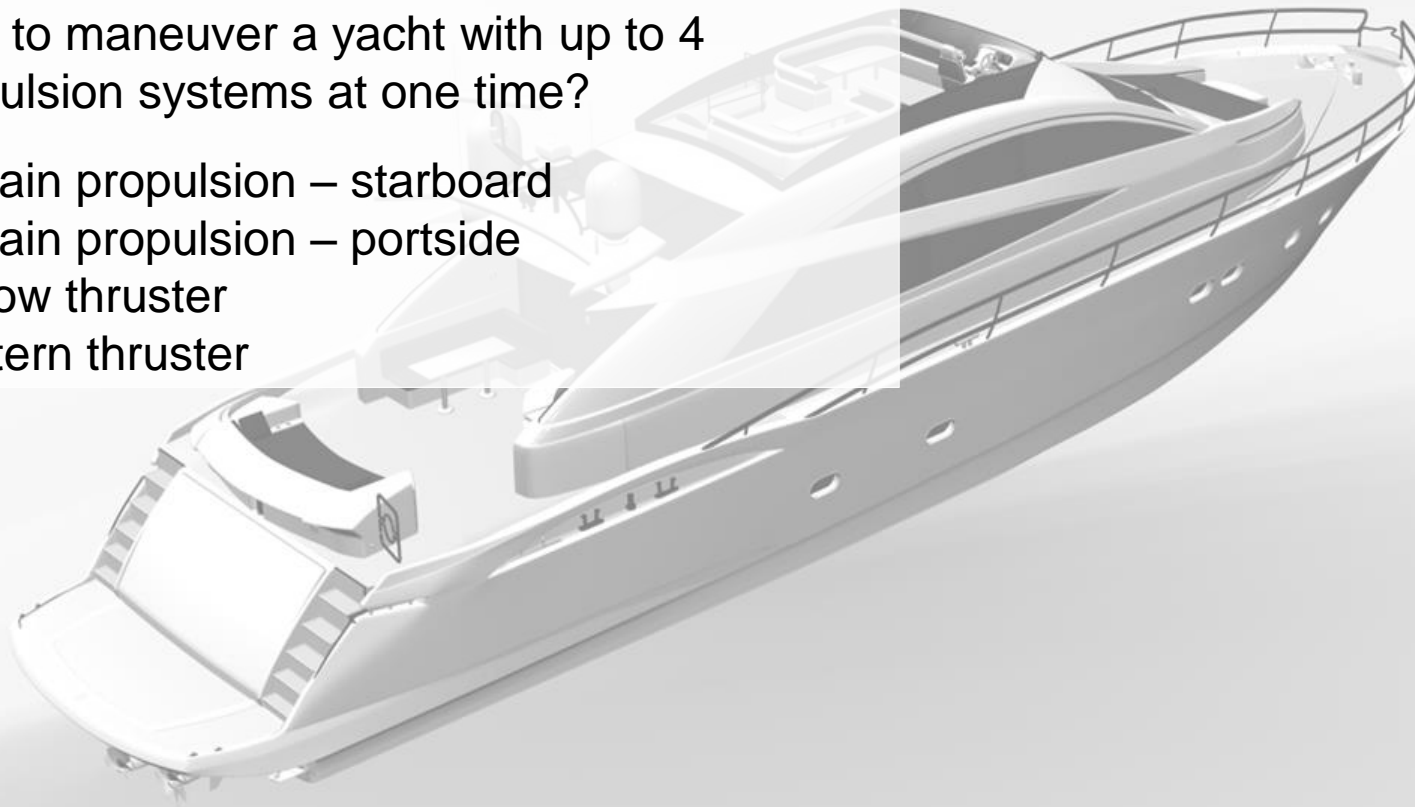
Marex OS 3D:
For intuitive maneuvering



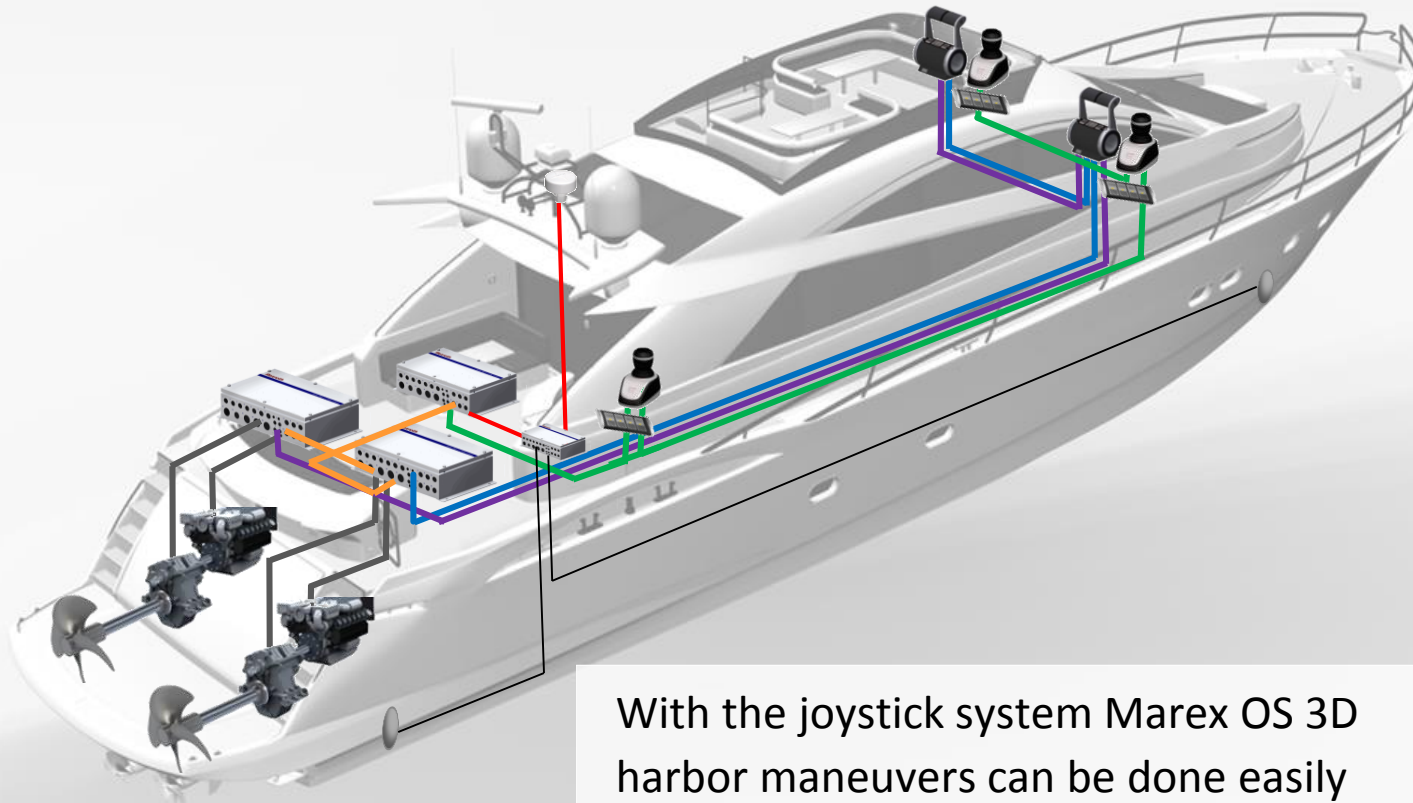
Easy Maneuvering

How to maneuver a yacht with up to 4 propulsion systems at one time?

- Main propulsion – starboard
- Main propulsion – portside
- Bow thruster
- Stern thruster



Easy Maneuvering



With the joystick system Marex OS 3D harbor maneuvers can be done easily



Intuitive maneuvering

State-of-the-art & ergonomic design

Heading compensation

Pairing

Stand-alone station

Flexible interfaces

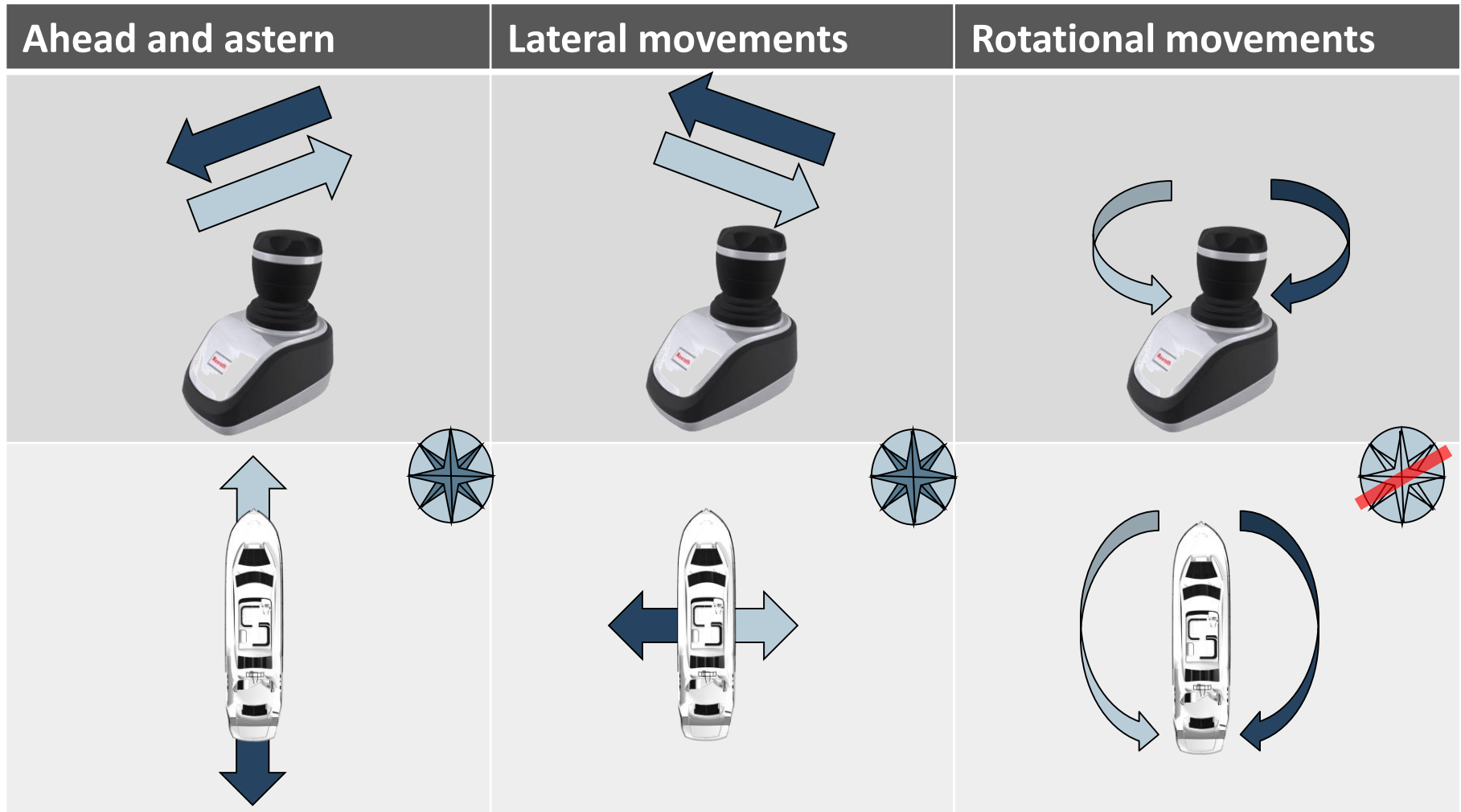
Turnkey solution

Propulsion Control Modes

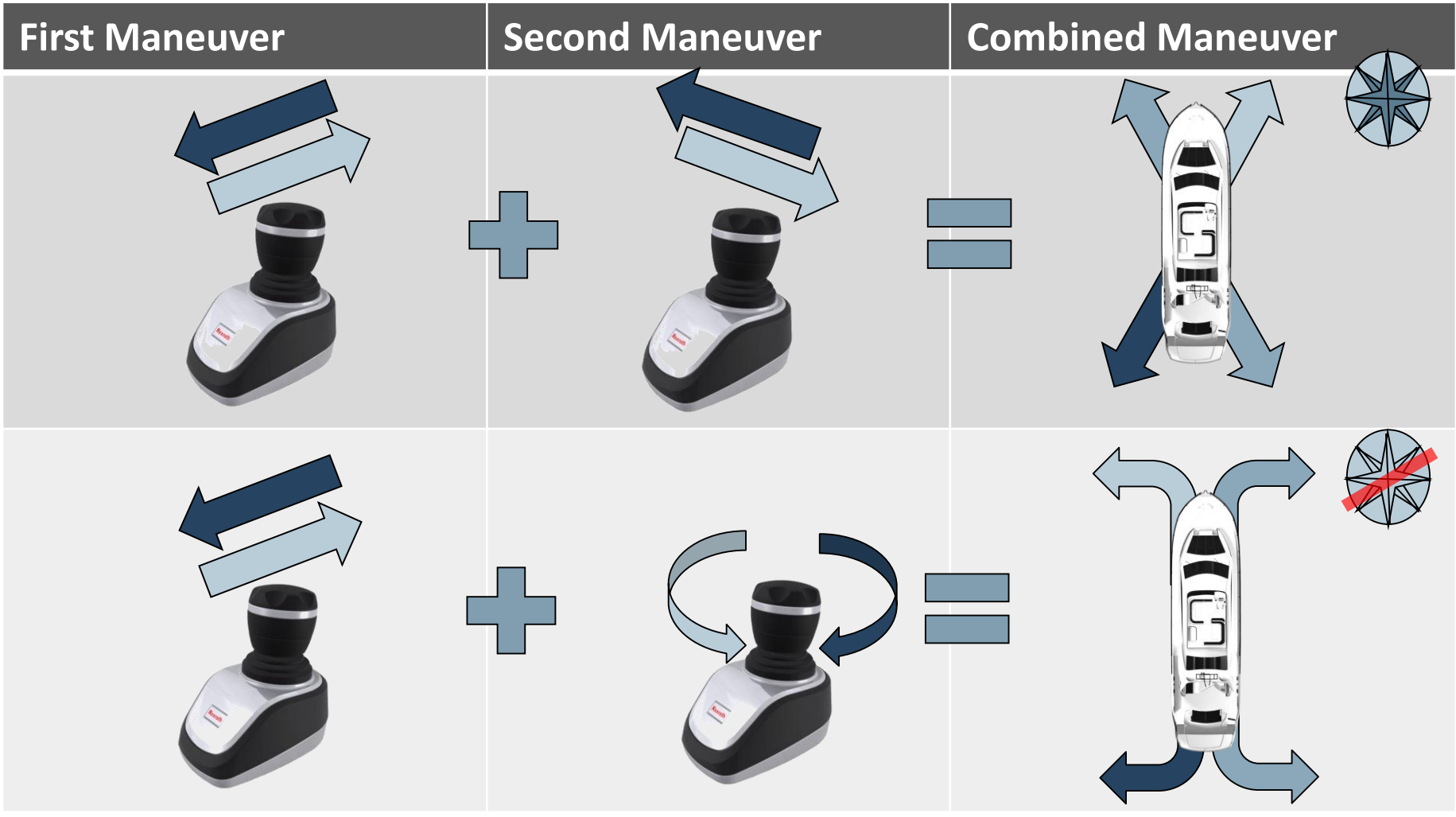
3D maneuver mode

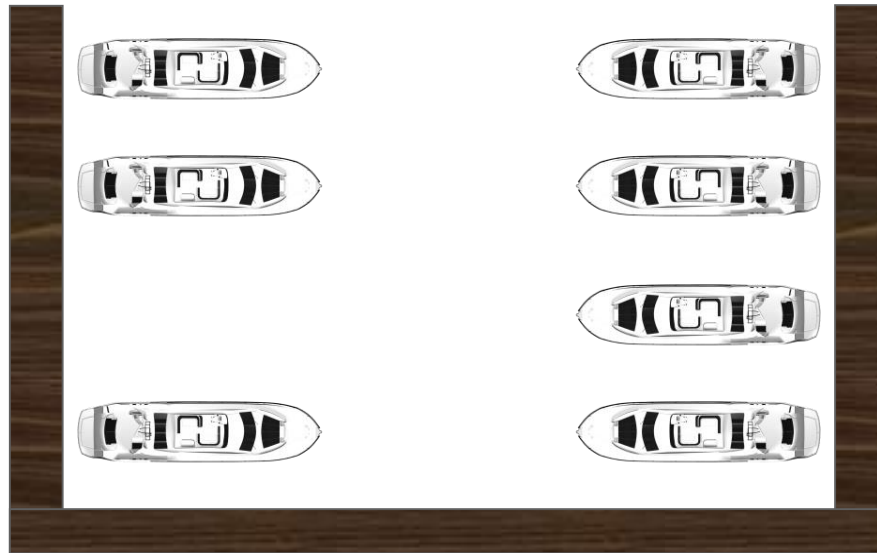
- Recommended for harbor maneuvers
- Joystick is the only control device
- All propulsion elements will be controlled via a vector control system
 - Engine speed
 - Clutch engagement or trolling
 - Thruster control
- Mooring mode

3D maneuver mode, easy maneuvers



3D maneuver mode – complex maneuvers





3D maneuver mode



Linear movements

Rotational movements

Lateral movements

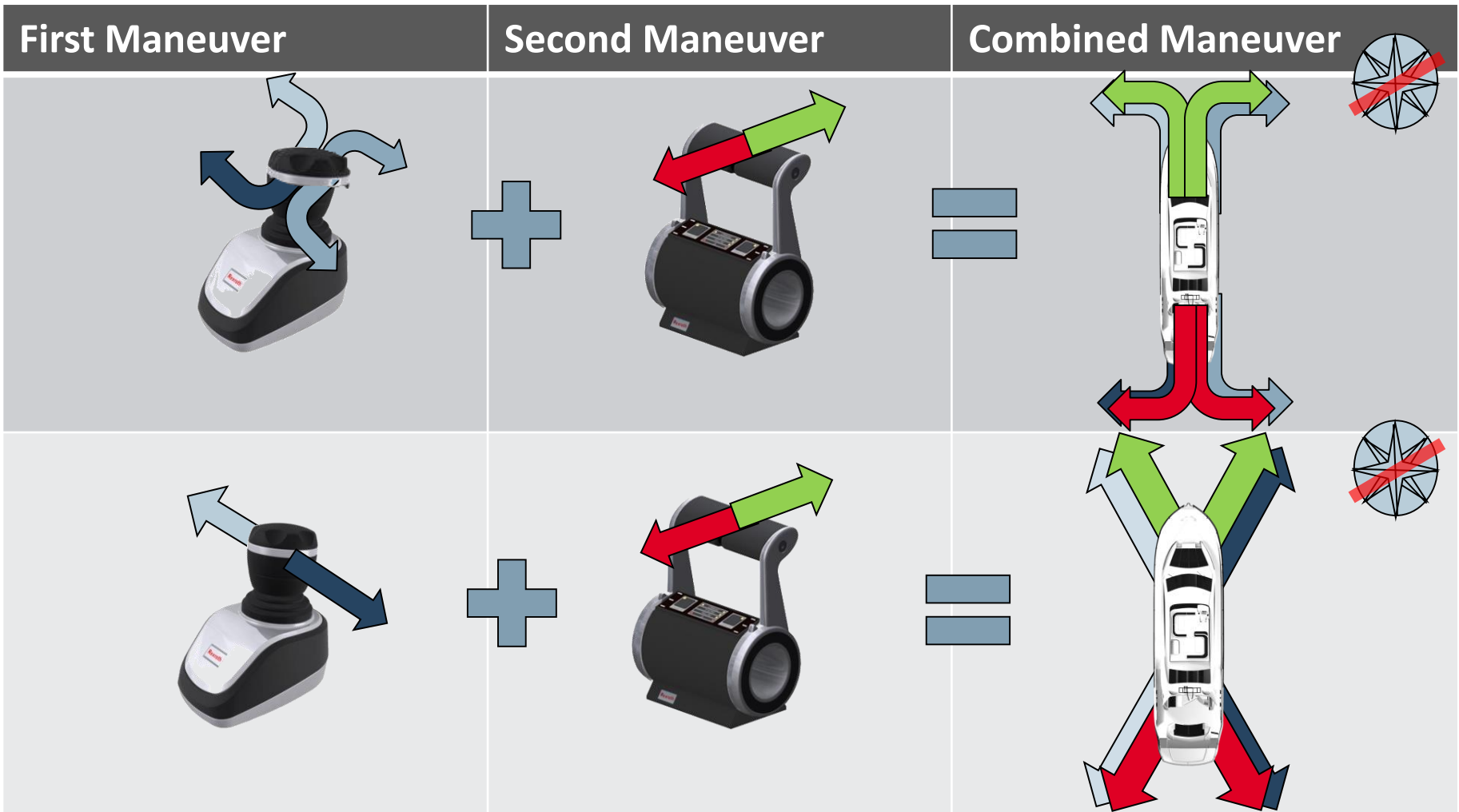
Propulsion Control Modes

- **Thruster Mode**
 - Manual control of all propulsion elements
 - Joystick operates bow and stern thrusters
 - No additional thruster levers necessary
 - Control head operates main propulsion systems
 - Pairing of control head and joystick at each station

Thruster Mode – Manual Thruster Control

Individual control Specific movements	Combined control Lateral movements	Combined control Rotational movements

Thruster mode – manual control with paired lever



Pairing

- Combination of lever and joystick on each station
- Intuitive safety
 - Joystick integrated into common station release
 - Impossible to control thruster accidentally from other stations
- Convenience
 - Automatic change from 3D mode to combined thruster mode
 - Common dimming function for each station

Operating components



- **Operating module**
 - Command / 3D mode
 - Alarm
 - Thruster mode
 - Special function
 - Dimming
 - Mooring mode



- **Display**
 - Alternative to operating module
 - Buttons: s. operating module
 - Indication of propulsion data
 - Thrusters
 - Main engine
 - 3D - propulsion modes

Propulsion control modes (planned for 2nd term 2014)

■ Cruising mode

- Intuitive cruising
- Joystick is the only control device
- Main propulsion elements will be controlled via a vector control system
 - Main Engine speed
 - Clutch engagement
 - Optionally rudder
- Cruise control with recall function

■ Virtual Anchoring

- Keeps boat on position automatically
- All propulsion elements will be controlled via a vector control system

Integration

- Remote control system integration
 - Optimized for integration into Marex OS III systems
 - Subsequent extension of Marex OS II systems
- Thruster connectivity
 - Open interface to major thruster interfaces (Dig., anal., NMEA2000)
 - Licensed connection to Side power “S-Link”
- Engine & gear connectivity
 - Open interface to major engines and gearboxes
- GPS-Compass connectivity
 - Optimized GPS-compass within scope of supply
 - Integration of available NMEA 2000 compass possible
- **Complete control system from single source**

Benefits

Timeless design

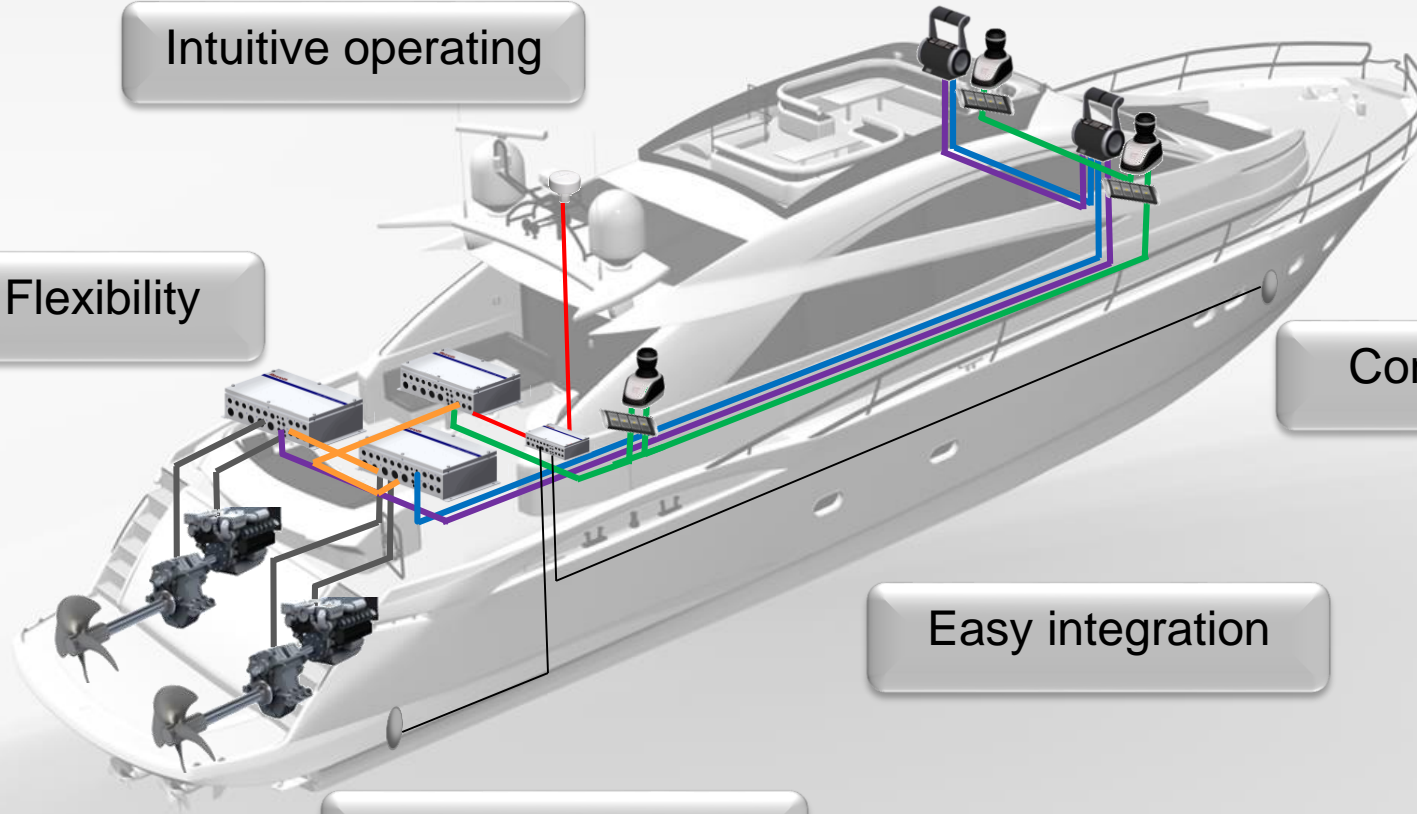
Intuitive operating

Flexibility

Convenience

Easy integration

Progressive safety



Marex OS 3D: Docking your boat with ease

