

**MAREX OS III**  
FOR A SAFE JOURNEY

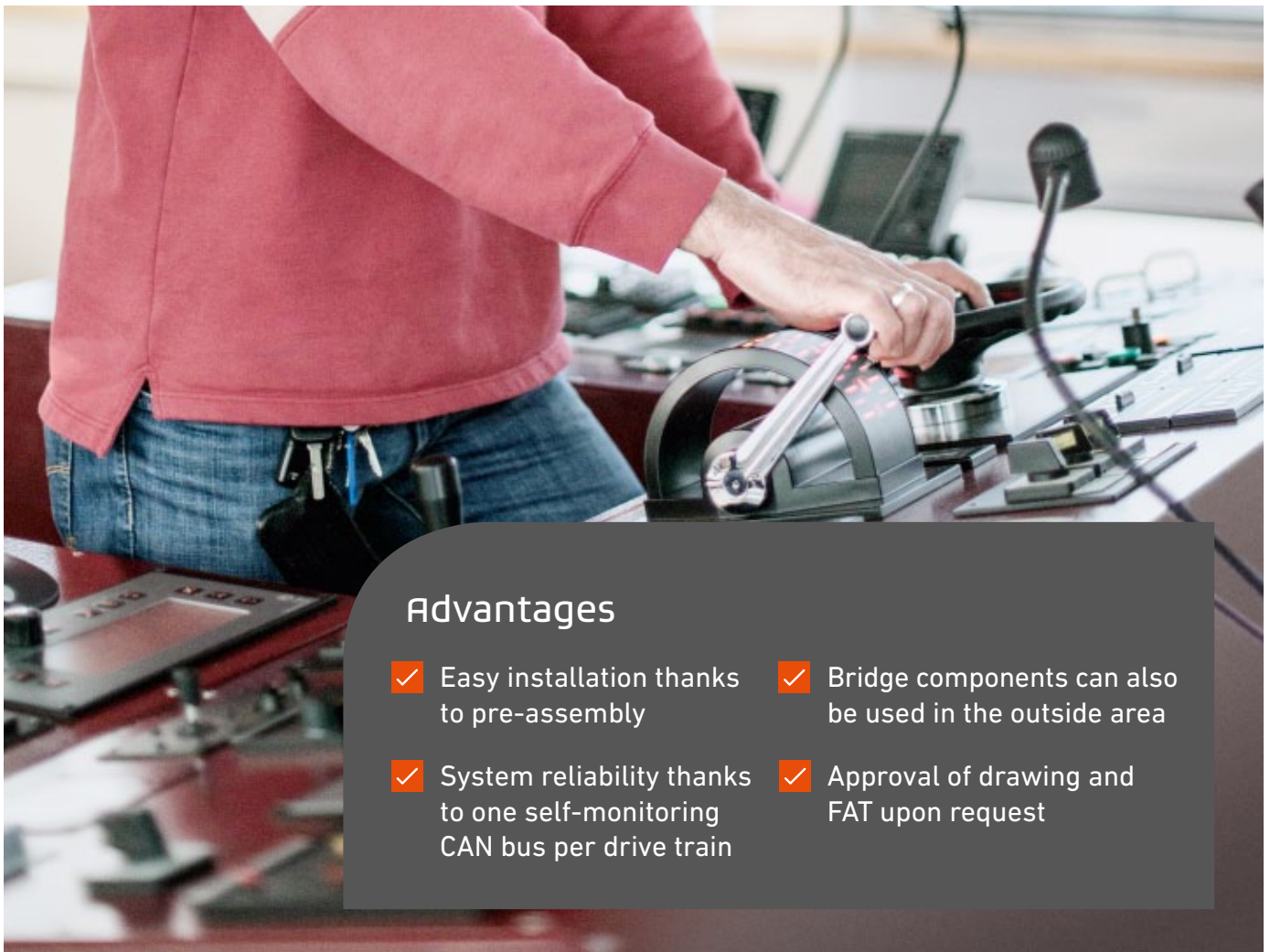
**Rexroth**  
Pneumatics



# Ship control – let your ideas run free

AVENTICS control systems can be found on all type of ships around the world. Work vessels with classification, passenger liners, coastal cargo ships and even yachts rely on engineering expertise Made in Germany.

Regardless of which propulsion concept is required – the reversing gear system, the controllable pitch propeller system, or even new drive concepts such as hybrid systems are using our most proven product: the Marex OS III.



## Advantages

- ✓ Easy installation thanks to pre-assembly
- ✓ System reliability thanks to one self-monitoring CAN bus per drive train
- ✓ Bridge components can also be used in the outside area
- ✓ Approval of drawing and FAT upon request

## Marex OS III – Key Features and Advantages



### Design

- Unique
- Functional
- Ergonomic



### Flexible

- Modular system architecture
- Independent of the type of drive
- Easy to install



### Features

- No project-based programming
- Customized by parameter settings
- Optimized operating forces

## Marex OS III – Benefits

### Life Cycle Management

- Consultancy during design and refit
- Commissioning and training
- Service and refitting of functions with worldwide network

### Consultancy by Experts

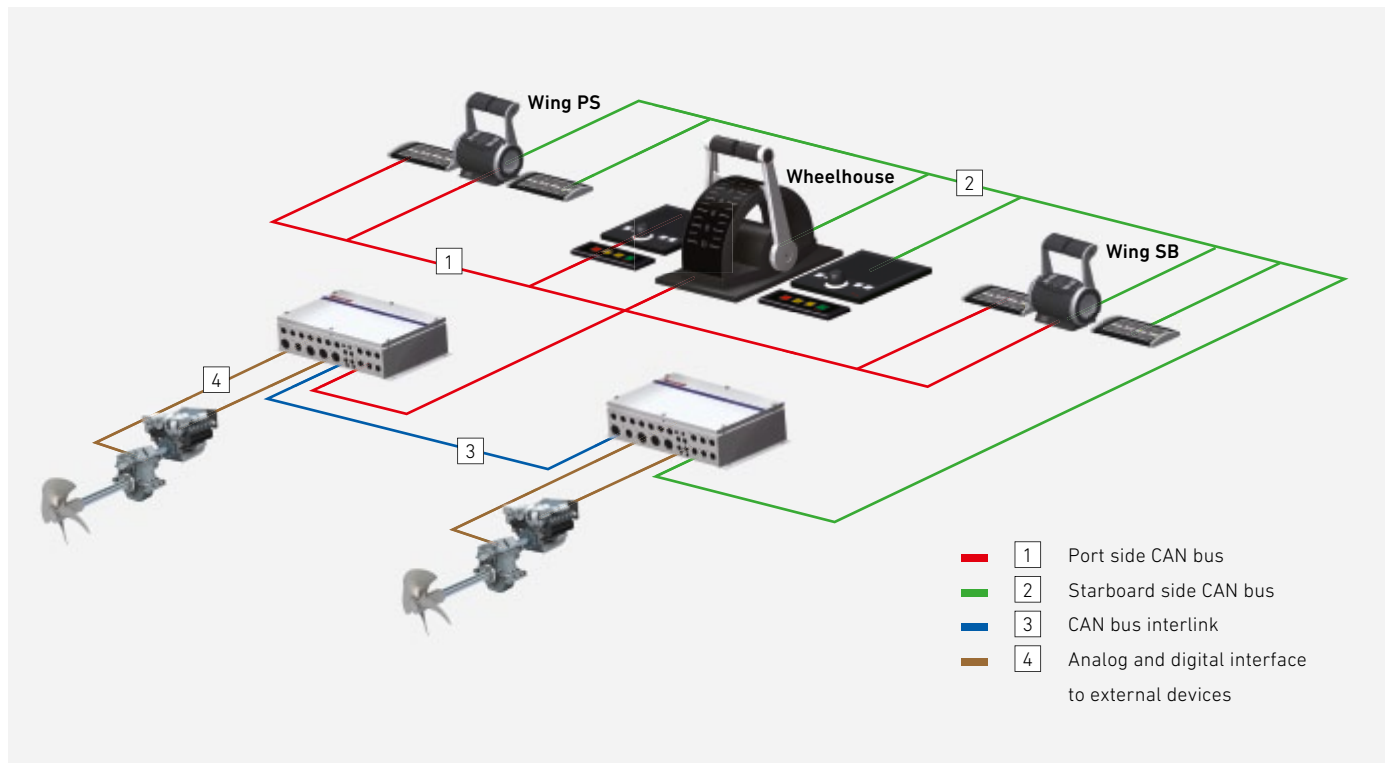
- Technical feasibility
- Project work
- Site inspection including life cycle management

### Worldwide Network

- Project work
- Service
- Training
- Sales including consulting

**Reduced  
Total Cost of  
Ownership  
(TCO)**

## Marex OS III - System



## Integrated Functions

- Engine control, speed curves and engine stall protection
- Gear operation, reversing maneuver curves
- Control of PTO and PTI, Trolling and Slip & Grip
- Multi-engine systems
- Calculated ship speed
- Shaft brake control
- Internal software PLC to add special functions
- Standard interface for DP system, Autopilot and VDR

## Marex OS III – Components

Series	Features	Pictures
<b>Control heads</b>	Illuminated scale, electric shaft, various designs, different propulsion plants, integrated keypad, triple-engine version available	
<b>5.7" display</b>	Freely configurable, 4 illuminated push buttons, digital 4-axis jog dial, readable in the sunlight, ergonomic design, 2 propulsion plants in one display	
<b>Operating and indication modules</b>	Indication of remote control data and data input	
<b>Marine propulsion controllers</b>	Single hardware component for different types of propulsion systems, preconfigured functions, software PLC function, error log with real-time stamp, integrated keypad and display	
<b>Extension modules</b>	VDR interface, NMEA interface, pitch controller for CPP	
<b>Accessories</b>	Prefabricated connecting cables and terminal blocks	
<b>Actuators and valves</b>	Electrical components for mechanical or pneumatic control of variables such as gear shifting, speed, or pitch setting	
<b>Service tool</b>	Laptop-based parameter transfer and optimization, transfer of parameters between ships within the same production line	

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