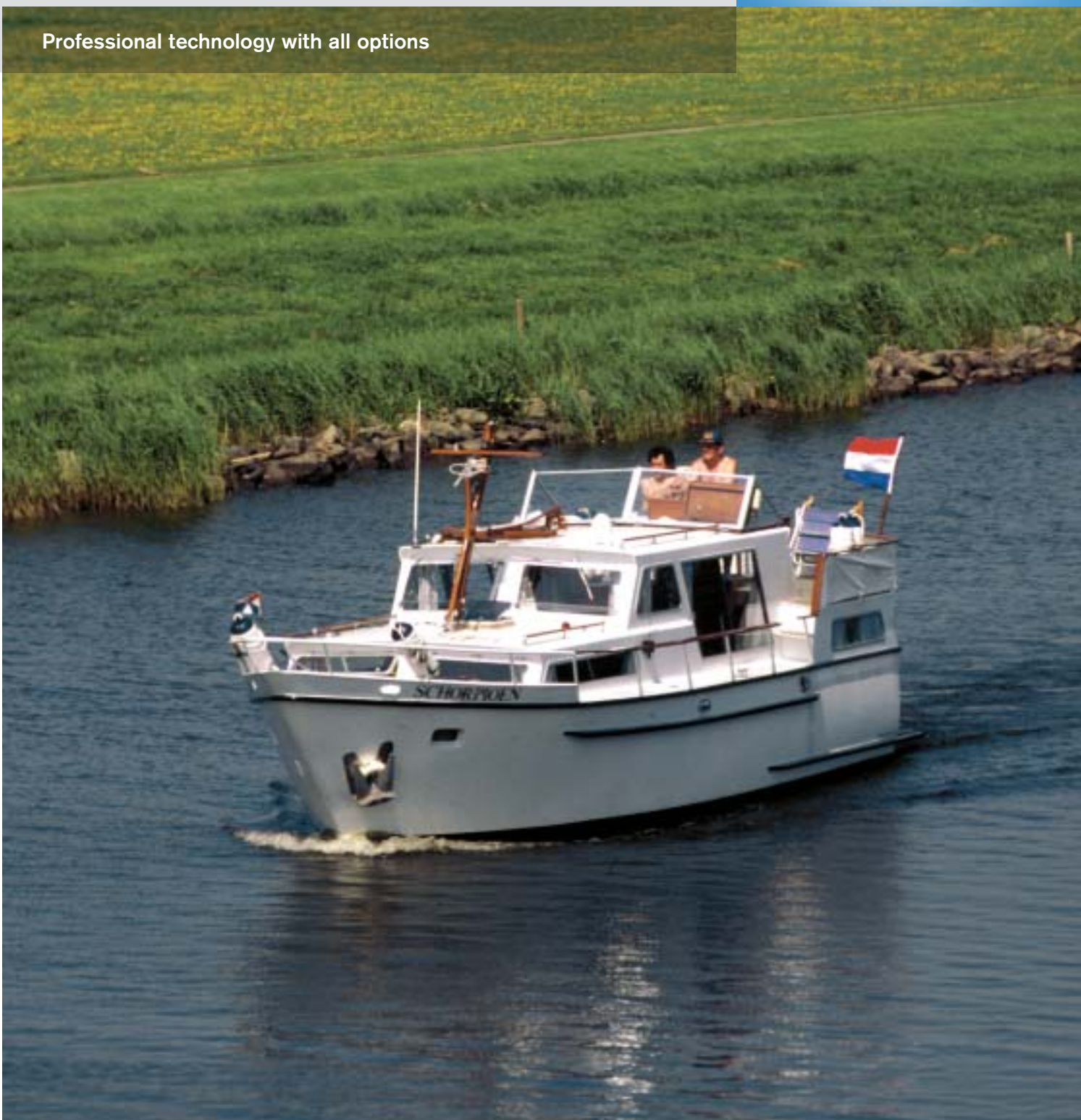


Marex SB – For leisure boats as well as small yachts and work boats



Professional technology with all options



Marex SB – The high-tech remote control for leisure boats as well as small yachts and work boats

In Hanover, Germany, Bosch Rexroth produces electronical remote controls for ship propulsion systems.

The Marex SB is the result of the continuous development of our remote controls Marex OS



The individual solution

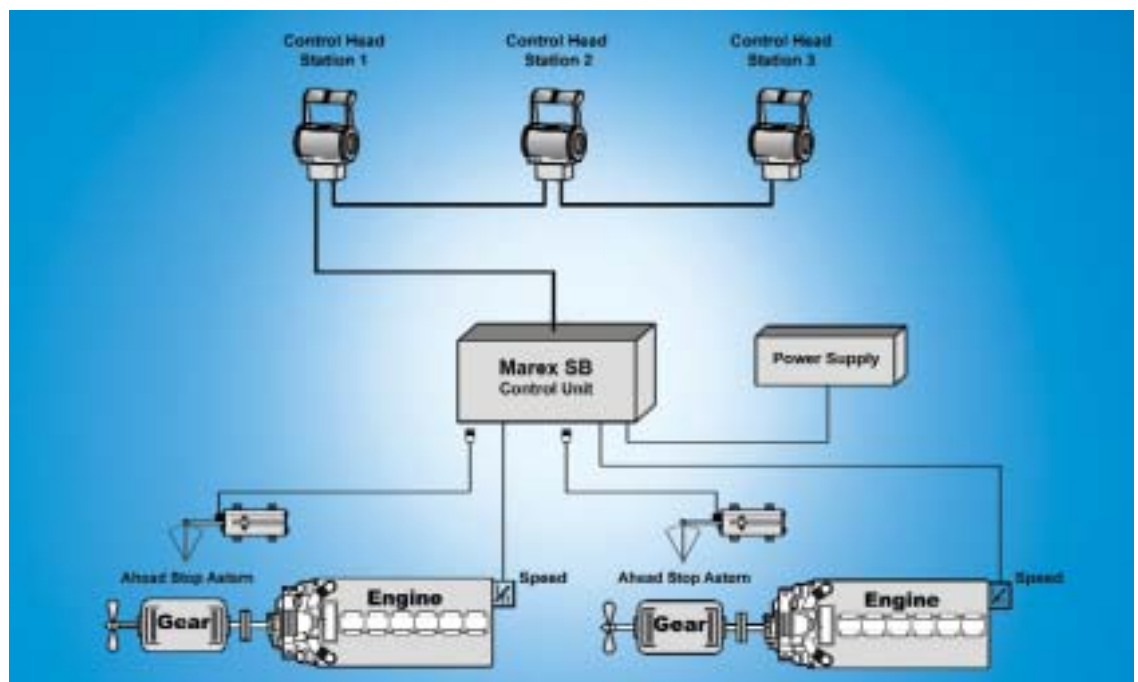
The schematic diagram shows a standard configuration of a twin-engine system with three control stations and electrical speed setting, combined with mechanical gear shifting.

and Mini-Marex, which have been successfully applied by the shipbuilding industry for years. Optimized for leisure boats as well as small yachts and work boats, the Marex SB perfectly suits for the retrofitting of these types of vessels as well.

- Replacement of sluggish mechanical controls
- Individually adaptable to the propulsion system
- Low installation and wiring costs due to CAN-bus technology
- High control accuracy
- Low operation forces

The components

- Control head with single-lever operation of engine speed and gear shifting for single or twin-engine systems
- Control unit containing the remote control software and the input/output components
- Extension boards (option)
- Synchronisation board (option)
- Actuators for mechanical speed and mechanical gear setting
- Push-pull cables



The system

Marex SB stands for "Small Boat" and is designed for boats with diesel engines and reversing gear systems.

It replaces mechanical chains and cables over pulley of existing systems. Mechanically activated speed governors and/or reversing gears are controlled via actuator with short push-pull cables. The latest electronics in the control unit evaluates the lever position of the control heads and converts them into commands for the activation of the propulsion engine's speed governor and the reversing gear.

Throttle electrical	↔	gear electrical
Throttle electrical	↔	gear mechanical
Throttle mechanical	↔	gear electrical
Throttle mechanical	↔	gear mechanical

The technology

One CAN-bus line connects the control heads with each other (up to 6 units) and to the control unit installed near the engine(s). Rpm and gear position can be controlled fully electronically, fully mechanically or in a combined way.

Operation safety – certification

All components correspond to the highest demands of safety and fulfill the requirements of the most important classification societies.

E. g. endurance test

During this test the control head is actuated about one million times. Well-chosen materials as well as first-class quality make sure that the devices withstand this constant operation.

Further tests

Vibration, high-voltage, temperature, salt mist, EMC, inflammability, declination.



Our products are developed according to the instructions of following classification societies

Germanischer Lloyd, LR, ABS, BV, Rina, Russian Maritime Register, Polski Register, Korean Register



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