

On a successful voyage.
With experience, foresight and
the right propulsion control

Marine Technique: propulsion controls and special systems



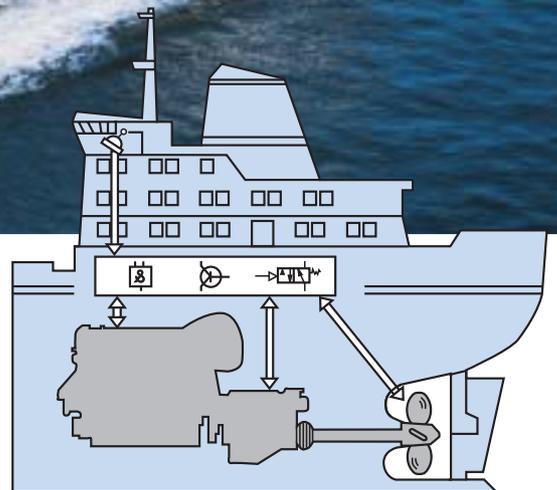
For each type of vessel. On all waterways. Bon voyage

As an experienced original equipment manufacturer we provide controls for engines, clutches, gears, jet propulsions and controllable pitch propellers, on which the shipbuilding industry as well as owners, ship-owning companies and shipyards rely.



The components.

Control heads for signal setting, parameterizable control units and actuating components to implement the commands are only an extract of our product range.



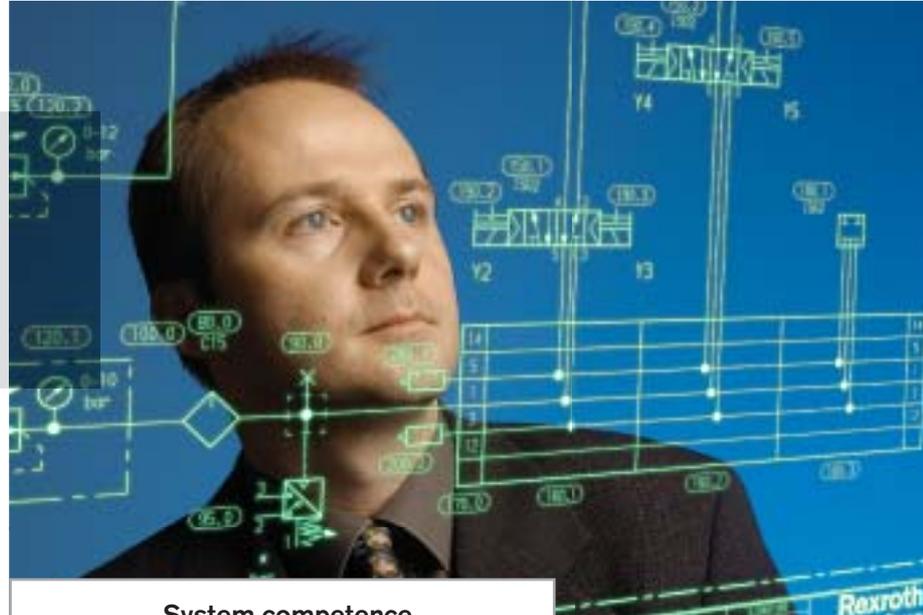
Individually configurable controls adapted to the respective propulsion and ship type with pneumatic, electro-pneumatic and electronic components.

Innovations and system competence

By pioneering innovations and an approved system competence we have been setting new trends in the field of professional control technology for ship propulsions for more than 5 decades – worldwide successful in application and present on all seas.

Today we provide an extensive range of components and systems for pneumatic and electronic controls of ship propulsions. It enables us to offer the ideal solution for the most different applications.

Besides the pool of experience in approved application it is the close and constructive cooperation with engine, gear and propeller

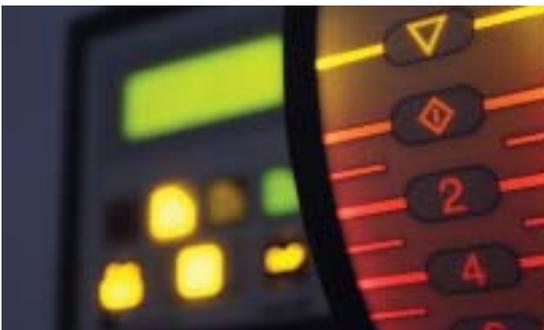


System competence

Application know-how

Pioneering technologies

Best-in-class components



manufacturers which constitutes the high performance standard of our supply. With a product range fulfilling all requirements of a modern ship operation with regard to technology, functionality and economic efficiency on the highest level.



Pneumatics —
not only a big tradition



The sensitive way of powerful controlling

The pneumatic control of ship propulsions has a long tradition.

Until today it is the appropriate application technology in particular for the control of large and medium engines. The components control heads and regulating valves, working logic valves, actuators, cylinders and electro-pneumatic converters can be individually configured in systems. They offer a robust, reliable, precise and sensitive control of ship propulsion systems of any type and size.



Whether sailing school ship, modern cargo ship, fast yacht or robust work boat – our diversified product range of systems and single components opens a broad spectrum of applications and offers uncompromising reliability. Yesterday as today.



The electronic concept:
Marex OS II. Open for every challenge



At home on all seas of the world. Intelligent and flexible



Marex OS II is the advancement of our approved control components.

It provides a solution with all professional options for the most different types of vessels. New technologies and materials and the integration of bus-capable electronics opened more and more fields of application to our controls

for ship propulsions. In this way we have developed from the manufacturer of classic control systems based on pneumatics to a provider of electronic propulsion controls. In case of Marex OS II the hardware is realizable with a few modularly structured control components.

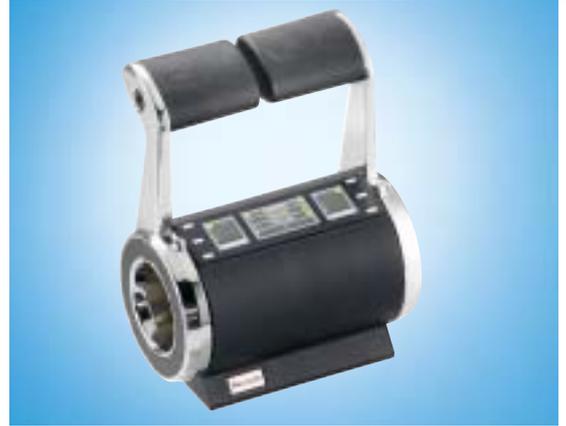


Data transfer is carried out via CAN bus.

An intelligent software with parameter adjustments allows an individual adaptation to the most varying ship propulsions. In a parallel way it facilitates the commissioning and creates new possibilities of diagnosis also by data transfer. Marex OS II stands for "Open System" and is an advancement of Marex OS. Due to the high grade of modularity, the remote control can be adapted to the particularities of the propulsion system even better and more accurately.

A little smaller, but equally comfortable

Marex OS II-plus (Mini-Marex)



Professional control technology all around – compact and elegant

Marex OS II-plus, successor of Mini-Marex, is the consequent advancement of the Marex OS controls, which have been applied with success in professional shipbuilding. On the basis of the latest microprocessor technology with CAN bus architecture they are in a cost-effective way aligned to the necessary functions of yachts and work boats.



High-tech for “Small Boats“

Marex SB



Electronic control with modern comfort at moderate costs

By Marex SB we offer a compact electronic remote control for electrically or electro-mechanically controlled propulsions which can be realized in an especially cost-effective way. Besides the application in new buildings the Marex SB is particularly suitable to retrofit mechanical controls in smaller yachts and work boats.



Where quality is launched

It is our philosophy that only by combining all important work processes in our own company we can guarantee the customer with a clear conscience a quality promise which meets the high demands of the shipbuilding sector. The result of this task are products known for their reliability and long life cycle.



Rexroth: know-how up to the sea trial

We design, layout and program ...

We design our devices with the latest 3D CAD systems as for instance ProEngineer.

We layout the circuits of the electronic components ourselves.

We program our software in a structured way with the latest case-tools.



We produce and test ...

During assembly and fine adjustments of our components and systems we trust in the skillful

hands of our employees with a subsequent 100 % check.



System and product tests

The type approvals of independent, international classification societies are the acknowledgment of these efforts. Last but not least the committed performance of our employees is a guarantee for the high demand to our products. Besides intensive examinations we have physical tests and software tests for type approvals carried out as well by independent institutes.



Endurance test



EMC test

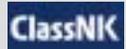


Vibration test



Salt mist test

We have our products certified by Germanischer Lloyd, Rina, Nippon Kaiji Kyokai, ABS, BV, LR, Korean Register, Russian Maritime Register, Polski Register



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