MARINE DRIVES, MOTORS AND GENERATORS
From 0.55 kW to 15 MW
We're open for the world of business. Are you ready for a sea of opportunity?

Proven, rugged product with over 15 years of field experience
Originally, our stainless steel marine drives were engineered and built without compromise to provide vessels with a fail-proof solution when operating in harsh marine conditions. Now, they are a key element for vessels that emit low or no emissions.

Exceptionally lightweight and compact panels
The interchangeable modules have been designed to be very compact, but offer exceptionally high power density. This makes them an ideal choice onboard any vessel. For example, a 2.7 MW drive for propulsion takes only 1.5 x 1 meter of floor space.

Direct water-cooled system
The water-cooled system can be connected directly to the ship’s fresh water cooling system. For ultimate ease at sea, no separate water station needed.

Modular design
The Switch Power Drive consists of a control cabinet and a power cabinet. To fit tight vessel space, the control cabinet can be placed in one room and the power cabinets in other rooms. The same power modules inside the power cabinets can be used for different converters as well as for different power drive types, enabling the use of the same spare parts.

Easy to maintain
The plug-in modules can be changed by the crew in only 15 minutes. This makes maintenance as easy as possible. Specially designed tools ease replacement at sea. The film capacitors require no maintenance.

Separate power module deployment
To avoid damages during the installation period at shipyards, the cabinets and power modules can be shipped separately and installed when everything else in the vessel has been finalized.

Flexible interface
The Switch Power Drives are ready for integration with various other onboard systems because of our superior communication features, including de facto industry standard interfaces and remote management possibilities.

MATCH UP WITH PERMANENT MAGNET MACHINE
When matching a marine drive with a permanent magnet machine from The Switch, you get an advanced electrical drive train that offers world-class performance.

- Works as a motor or generator
- Unbeatable efficiency
- Lightweight and compact
- No gearbox in direct-drive propulsion or shaft generator

The control of the electrical motor can be divided between one and four converters that function independently from one another and can be placed in multiple locations on the vessel.
We are electrifying the world with ultimate efficiency. Our innovative electrical drive train products, capabilities and solutions enable more profitable power generation, energy storage and use, while lowering the cost of electricity and operations.

REFERENCES
Hundreds of vessels have harnessed the power of our marine drives as proven elements within their own systems. These drives have passed rigorous approval requirements and are used in applications ranging from propulsion to drilling.

Our permanent magnet machines have been used in numerous shaft generation applications for higher energy efficiency and lower operational costs. This drive train solution represents a real game changer for merchant ships.

YASKAWA
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ENVIRONMENTAL ENERGY
www.theswitch.com

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