

Improving reliability and total cost of ownership across the vessel

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Increased operating costs, regulatory pressures, and the rapid pace of change are growing challenges for operators in the marine industry, making reliability and whole-life value increasingly important. These challenges are rarely solved by addressing individual components in isolation; instead, a whole-vessel approach can help operators to extend service life and reduce maintenance requirements, ultimately lowering total cost of ownership.

With more than 100 years of marine engineering experience, Regal Rexnord brings together trusted brands and proven technologies to support critical propulsion, auxiliary, above-deck, and ventilation applications. Its portfolio spans torsional couplings, intermediate shafting systems, brakes, clutches, turning gears, HPUs, controls, locking devices, combined clutch/coupling solutions, customized fans, and air-handling systems from trusted marine brands including CENTA™, Jaure™, Stromag™, Svendborg Brakes™, Twiflex™, Wichita Clutch™, and Nicotra Gebhardt™.

The combination of world-class technology and application expertise allows customers to access industry-leading design and maintenance solutions for their vessels that can improve performance and extend operational lifespan.

Adapting to current demands

The pace of technological change is increasing, so today's vessels need to be able to adapt as demands shift. Operators in fields as diverse as dredging, the military, offshore oil platforms, and renewable energy production all need equipment that can perform reliably in increasingly challenging environments and with greater pressure on costs without compromising efficiency. Regal Rexnord's power transmission solutions are engineered to extend equipment life and deliver reliable long-term operation in order to minimize total cost of ownership.

From offshore platforms to dredging systems tailored for reliable operation at extreme depths, Regal Rexnord's customized couplings, driveshafts, clutching, and braking technologies produce high-quality results at the limits of performance. These technologies are designed to perform under high mechanical loads and in the most extreme marine environments.

The benefits of an integrated approach

Marine operations can unlock substantial benefits by taking an integrated approach to maintenance. For example, propeller shafts require regular inspection and servicing, but often rely on separate systems for turning, braking, and locking. This adds weight and maintenance complexity as well as increasing space requirements. Twiflex addresses this challenge with its Turning, Locking, and Braking (TLB) system, which combines all three functions in a single, modular package installed around the propulsion shaft. A split ring gear and disc, caliper brake system and static locking device all connect through a local control panel and bridge system, resulting in simplified servicing and operation that can be tailored to the needs of vessels ranging from fishing boats to naval platforms.

Combined with CENTA flexible couplings, the technology can integrate with electric motor-driven propulsion systems to simplify sourcing and optimize valuable onboard space. With features including bi-directional low-speed turning, indexing for inspection and dynamic braking, the TLB demonstrates the potential value of integrated systems.

For marine operators and shipbuilders, reliable operation flows from multiple systems that operate together efficiently under demanding conditions, making the ability to source complementary technologies from one trusted partner particularly

valuable. Regal Rexnord combines expertise from recognized brands to deliver integrated solutions ranging from couplings, shafting, clutches, brakes, bearings and other power transmission technologies to bespoke solutions for marine challenges. The goal is to help customers address major industry challenges linked to torsional vibration, torque transmission, and propulsion reliability as part of a coordinated system.

Reduced complexity and faster delivery

This integrated approach can simplify equipment selection and reduce design complexity, which in turn aims to streamline procurement and logistics, with a single engineering partner able to coordinate a project for maximum efficiency. Most importantly, Regal Rexnord's application engineers can work alongside marine design teams to develop and validate solutions for specific vessel requirements, including retrofits and upgrades, by drawing on its broad portfolio and decades of marine experience.

Integrated assemblies, such as pre-fitted clutch, brake, coupling, or bearing solutions can further reduce installation time and assembly complexity. For operators, the benefit of a more integrated approach can help speed up delivery in the face of tight deadlines and reduce interface risk to reduce total cost of ownership.

A tailored approach to regulatory pressure

As the marine industry addresses tightening emissions requirements, including the ambition of net-zero operations by 2050, the case for electrification and hybridization grows, but the route to lower-emission propulsion varies significantly between vessel types and operating profiles. Advances in batteries, power electronics, and electric drive technology can all improve energy efficiency and reduce emissions, allowing operation in areas where conventional propulsion is restricted.

For vessels such as ferries, workboats, harbor craft, and short-sea vessels, these benefits can translate into lower operating costs and greater operational flexibility. At the same time, alternative fuels including hydrogen, methanol, and liquified natural gas (LNG) will remain important for applications where electrified propulsion systems are less practical. This diverse propulsion landscape makes engineering breadth particularly important: operators and shipbuilders need partners capable of supporting different power architectures and integrating technologies reliably across the vessel.

With a marine portfolio spanning propulsion and auxiliary power through to above-deck equipment, winches, cranes, pumps, ventilation and air handling, Regal Rexnord is positioned to support vessels as they adopt the combination of technologies best suited to their operational, environmental, and commercial

requirements. The focus is therefore not simply on electrification, but on selecting and integrating the right technologies to deliver efficient, reliable vessels that are fit for purpose.

Efficiency starts with a single trusted partner

Improving reliability and total cost of ownership across a vessel or fleet requires an integrated approach. Working with a single trusted partner like Regal Rexnord can simplify system integration and streamline procurement, while specialist technology can further improve efficiency and reliability. Most importantly, the right solution should be tailored to each operator's vessel and priorities if it is to provide maximum value.

Image captions:

Image 1: Whether supporting dredging operations or offshore platforms Regal Rexnord solutions are designed to deliver dependable performance where reliability matters most.

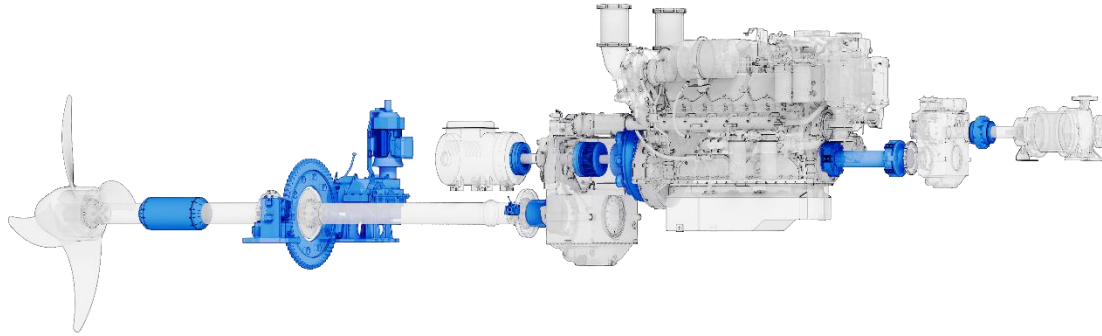


Image 2: Regal Rexnord streamlines propulsion system design and support by bringing together trusted brands and proven technologies from a single source.

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Regal Rexnord's 30,000 associates around the world help create a better tomorrow by providing sustainable solutions that power, transmit and control motion. The Company's electric motors and air moving subsystems provide the power to create motion. A portfolio of highly engineered power transmission components and subsystems efficiently transmits motion to power industrial applications. The Company's automation offering, comprised of controllers, drives, precision motors, and actuators, controls motion in applications ranging from factory automation to precision tools used in surgical applications.

The company's end markets benefit from meaningful secular demand tailwinds, and include factory automation, food & beverage, aerospace, medical, data center, warehouse, alternative energy, residential and commercial buildings, general industrial, construction, metals and mining, and agriculture.

Regal Rexnord is comprised of three operating segments: Industrial Powertrain Solutions, Power Efficiency Solutions, and Automation & Motion Control. Regal Rexnord is headquartered in Milwaukee, Wisconsin and has manufacturing, sales and service facilities worldwide. For more information, including a copy of our Sustainability Report, visit [RegalRexnord.com](https://www.RegalRexnord.com).

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