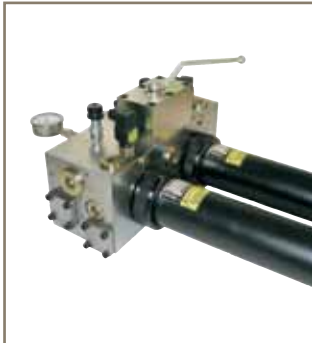


aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Deck Equipment

Dedicated Products and Solutions



ENGINEERING YOUR SUCCESS.

Dedicated products and solutions for

Parker – an experienced partner at your service

For many years, Parker Hannifin has been a major supplier of quality components and system solutions to the marine equipment industry, with manufacturing and engineering facilities around the world, ensuring global aftermarket support.

Parker has dedicated teams of specialists working globally to assist our clients in the design of systems, sub-systems and solutions to meet the most demanding requirements,

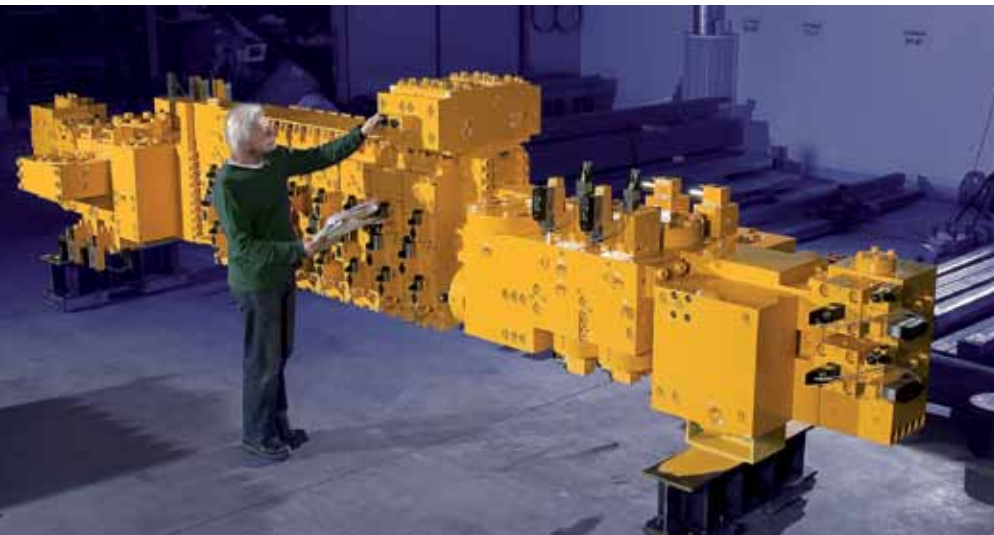
offering unbeatable global product availability and service.

There are several immediate value-adding benefits from utilising our expertise and our advanced technology.

For the manufacturer, time-to-market can be cut by several (very important) months, while production time and cost can be reduced by up to 15 percent, thanks to integrated solutions,

unique design features, globally synchronized logistics and services such as Kanban, Kitting and Pre-assembly, which also cut inventories and simplify purchase routines significantly.

For the end-user, benefits such as greater efficiency, reduced down-time and less maintenance contribute to an improved profitability.



▲ CVG crane control valve

Accurate motion control for flows between 300 and 1,200 l/min. A flexible, modular design load sensing valve with pressure compensation and low hysteresis. Relief valves for all actuator lines.



▲ Parker winch manifold series

Built to withstand marine conditions. Nominal flow from 100 to 1,200 l/min.

- MAW series for auxiliary winch applications.
- MFW series for fishing winch applications, with shooting function.
- MMW series for mooring winch applications with pressure compensator.



▲ RCV remote control valve

An accurate remote control valve to operate Parker's marine control valves, strongly built to withstand hard use under tough conditions. Available with end position detents.



deck equipment



► Compact Actuation Systems

Compact EHA, a self-contained electro-hydraulic actuation system, delivers the power of hydraulics yet needs only a 12V or 24V supply. Easy to design in or retro-fit, Compact EHA is a robust and durable actuation system for space critical, portable and remote applications.



▲ WM marine control valves

Robust control valves for flow rates of 100 to 1,200 l/min, designed to withstand hard marine conditions. Manually or hydraulically operated main spools. Manifold and flange mounted versions available.





▲ Design, build and Installation services for Drives Systems

For customers requiring more support in the design and implementation of their control systems, Parker SSD Drives offers a complete in-house design and build service, enabling you to focus on your core competencies. By allowing Parker's experienced Systems Team to undertake the design, build, programming and commissioning of your motor control system, you can be assured that every aspect of the design, from environmental considerations through component selection to mounting of products has been carefully considered and allowed for. Fully documenting a complete control system can be a daunting task – again Parker are on hand to help by providing complete electrical schematic and single line drawings as well as installation, maintenance and operating instructions. As an accredited systems builder, Parker SSD Drives are also able to undertake the certification process required to enable systems to be put into service in any number of industrial markets.

► Adding system life by adding Parker Filtration solutions

Parker Filtration's proven, innovative technology extends the life and increases reliability of machinery and systems in the marine market. In addition to a wide range of low, medium and high pressure hydraulic filters, lube and Racor fuel filter products and quality reservoir accessories, Parker offers over 50,000 Parfit™ interchange filter elements and advanced fluid condition monitoring with the *icountLCM* portable particle counter and *icountPD* particle detector. A comprehensive range of products that combine with Parker experience to help reduce equipment downtime and minimize life cycle costs.



Hydraulics just for your needs

Parker's wide product range means having the right components and complete systems to fulfil your needs for high pressure hydraulics in many types of deck machinery. We offer products for winch control, crane control and filtration – and naturally also a wide range of pumps and motors. All built to withstand rough conditions at sea, all taking advantage of Parker's long experience of the marine environment. Through years of close co-operation with discriminating clients all over the world we have accumulated a wealth of knowledge, which we are more than happy to share with you!

- Auxiliary winch control
- Fishing winch control
- Mooring winch control
- Hoist boom crane control
- Knuckle boom crane control
- A-frame crane control
- Radial piston motors
- Vane pumps
- PV piston pumps
- Efficient filtration
- Contamination control





▲ Smart filtration units

Tailor-made filtration units built to your specification – a cost effective way of producing compact, easy-to-install, high quality filtration manifold units in small series.



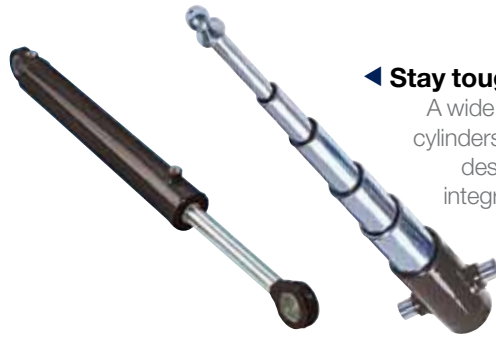
► Store energy

Our complete range of CE-approved bladder, diaphragm and piston accumulators maintains high pressure for safe and smooth manoeuvring. Greater system efficiency and reduced pump sizes give longer life, lower costs and reduced noise levels.



▲ Vane pumps

Low noise pumps, available in a wide range covering displacements from 6 to 550 cm³/rev. and built for pressures up to 320 bar with a single piece shaft for maximum performances, without internal restrictions. Great flexibility by multiple ports arrangement possibilities, combined with a single suction port.



◀ Stay tough on tough jobs

A wide range of customized cylinders with service-friendly designs, cushioning and integrated valve functions. Designed to deliver sustained high performance over a long service life.



► ▼ Energy Saving with ePump Solutions

Significant energy reduction at higher functionality, and integrated safety technology will be offered in multiple applications such as presses by speed variable hydraulic pumps. Depending on the application savings up to 50% can be achieved, and very often it goes along with higher dynamics and precision.





▲ Power Units

Ideal for stationary complex hydraulic control systems. Includes tank, e-motor, pump, bell housing, return filter, contamination gauge, level switch, valve stack and accumulator. Stackable blocks can easily be extended. Standard or tailor-made models, plug-and-play, ready for use! Prefabrication enables fast delivery at a low cost.



▼ Quiet power

Our range of 350 bar variable piston pumps have rigid housings and standard ripple chambers which make the pumps quiet and reduce flow- and pressure pulsations considerably. A high self-priming speed capability and a unique port layout make this range of pumps the obvious choice for modern machine designs. Our medium duty variable piston pumps are also characterized by a compact, lightweight design, high flexibility, a wide operating temperature capability and reduced noise emissions. A full range of quiet vane pumps for efficient use up to 350 bar max working pressure is also available. All pumps are performance-matched to form a good working team in our total system concepts.

► High torque/low speed radial piston motors

Our HMR/HMRE series are available with fixed displacement in sizes from 33 to 8,200 cm³/rev, or with dual displacement from 300 to 8,200 cm³/rev. They are rated at 280 bar continuous pressure, offering high starting torque and high efficiency in a very reliable, robust design.





▼ Tie it all together

Parker's extensive line of hoses, hydraulic hose fittings, tube fittings, flanges, couplings and assembly machines offers a complete package for efficient and leakfree installations. Parker is a single-source supplier for all important components.

Parker's **492ST** and **462ST Elite No-Skive Super Tough Compact** hoses. High performance with an extremely abrasion-resistant polymeric cover – up to 450 times better than the ISO 6945 specification – for hard-wearing applications. A perfect alternative to expensive protective guards.

Parker's **Compact Spiral™ Hose with Tough Cover** is a compact, MSHA approved flexible hose offering 50 % tighter bend radii and 20 % less weight with superior performance and life expectancy, thanks to a patent-pending inner tube compound – tested for two million impulse cycles!

Parker **Universal Push to Connect** is a unique push-in system for tubes and hoses that saves time and costs through simple, rapid failure-free assembly.

Thermoplastic Hoses with excellent resistance against seawater, UV and ozone.

Stainless steel coupling systems are available for the T-Series (TEMA profile) up to 2", for the ISO-F Series up to 1" and for the ISO-B Series up to 1" with a wide range of seals and for every application.



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