Hydraulic Global Overview
Products and Systems for Industrial, Mobile and Truck Applications
Parker’s Global Markets

Mobile
Parker continues to dominate the mobile market with innovative products, sub-assemblies and systems. Parker’s knowledgeable motion and control experts help vehicle design teams develop and refine functional subsystems or complete-vehicle motion control systems. These solutions include implement control, cooling, steering, braking, suspension, drive and propel and intelligent, computer-based mobile systems. Many Parker components are ISO certified and all are manufactured to the highest standards.

Industrial
Parker’s industrial hydraulics capabilities cover a wide range of applications from machine tools, rubber and plastics and in-plant automotive to the ever changing and demanding medical and energy markets. Parker’s industrial engineering and manufacturing expertise is what sets it apart from others. Parker continues to look for ways to increase the customer’s profitability by providing components and systems that are smaller, lighter and last longer. Additionally, Parker is dedicated to improving the work environment with products that are quieter, run longer and produce less heat while reducing overall machine energy costs.

Truck
Today’s global truck market is as tough as ever. Increased pressure to improve fuel efficiency and reduce emissions has necessitated that manufacturers look for design and manufacturing partners who have the engineering expertise and breadth of products to meet the challenges head-on. Parker works with both OEMs and body builders to see that not only are regulations met, but that trucks stay on the road and continue to be productive and profitable. One of the best commitments to the truck market is Parker’s fan drive system that is quieter, much more efficient and greatly improves fuel economy.
Training Excellence

Parker’s technical training for hydraulic, pneumatic, and electromechanical technology is the best in the world. We offer complete and comprehensive texts, web-based training, and hands-on classes for employees, distributors, and customers. Classes are held at your facilities or at Parker.

Hundreds of colleges and universities use Parker textbooks in motion and control courses. In addition to texts, Parker provides these institutions instructor guides, computer-based training discs, digital overheads on CD, final exams, drafting and simulation software, lab manuals and trainer stands.

Find out more about Parker training by visiting: www.parker.com/training

Support and Service

When it comes to hydraulics, Parker’s worldwide network of field-sales engineers walk the walk and talk the talk. The best trained in the business, our field-sales engineers can be your single point of contact for any hydraulic requirement, including rapid problem solving. All are degreed engineers who are dedicated to long-term relationships. And whether they are crawling inside your machine during business hours, or working weekends, Parker engineers are there when you need them!

Hydraulic Distribution and Channel Partners

Parker’s distributors are chosen because of their commitment to providing exceptional customer service and complete hydraulic systems solutions. They carry a locally adapted inventory of Parker products, ensuring customers fast delivery and reduced downtime.

Locate your nearest Parker distributor by visiting our web site at www.parker.com/distloc

Parker is your global hydraulics partner when it comes to increased productivity and profitability. No matter what your needs, Parker is your single source provider of all your hydraulics motion and control solutions.
Wind Power Systems

Parker hydraulics play a critical role in the operation of wind turbines, as they harvest kinetic energy. We supply the hydraulic power necessary to operate pitch, yaw and braking systems while supplying back-up in case of a power failure, to provide a safe stop.

Customer-Driven Solutions
Parker Hydraulics is in the ‘solutions business’ offering our customers the widest array of solutions and services available. You can be assured that no one knows hydraulics like Parker’s staff of highly qualified application and design engineers, innovation teams and systems-solutions specialists. Our customers can reduce their number of vendors without compromising product integrity. Buying from a single source saves both time and money while allowing easier ordering and faster deliveries.

Hydraulic Products for Every Application
At the heart of every mobile, industrial and truck hydraulics solution is Parker’s 75-year reputation for innovation and quality manufacturing. No one is better positioned to meet your needs. Parker maintains more than 200,000 hydraulic model numbers in its inventory, so whether you are designing new applications or retrofitting older ones, we can meet any hydraulic component requirement.

Application Expertise
Parker believes that it takes more than our great products, competitive prices, and on-time delivery to satisfy customer demands. It takes a commitment to provide exceptional value. For today’s customer, an outstanding total experience is the benchmark by which many suppliers are evaluated. Parker delivers tangible and measurable
A precise, powerful, simple and low maintenance hydraulic motion system is the key to efficient energy generation at solar thermal power plants.

A single hydraulic actuator rotates each parabolic mirror concentrator in 0.1 degree increments to precisely track the sun.

benefits that are designed to reduce your total cost while increasing performance and productivity, eliminating your frustrations and improving your profitability.

At Parker, value is not a commodity. Instead, it is the result of personal interaction and resources. Our value-added services include:

• Machine Analysis and Troubleshooting
• Design/Engineering Support
• System Design
• Components Selection
• New Product Development
• Custom Component Manufacturing
• Assemblies and Kits
• Sub-Systems
• Global Support and Service
• Training

Parker’s hybrid hydraulic drive systems are designed to recover and store brake energy for later use to generate power.

Field test results of our refuse truck systems have yielded improvement in fuel consumption from 45 to 60 per cent.
When it comes to hydraulic products, Parker is the most recognized name in the business. With over 75 years of experience, Parker currently inventories more than 200,000 hydraulic part numbers, allowing for unlimited solution possibilities. Customers can reduce their number of vendors without compromising quality. Buying from a single source saves time and money, allowing for easier ordering and faster shipping.

Accumulators
Accumulators maximize the energy efficiency of hydraulic systems by increasing productivity, reducing maintenance and lowering overall operating cost. These systems last longer and provide better performance than comparable systems without accumulators.

- Piston, bladder and diaphragm designs
- Shock suppressors
- Reservoir isolators
- Gas bottles
- Charging kits and accessories

Compact Hydraulics
Compact, powerful and efficient performance are delivered from Parker Oildyne products. Robust and simple designs provide high power density, easy installation and flexibility for use across a wide variety of applications.

- Electro-hydraulic actuators
- Miniature power units
- Fluid power systems
- Gear motors
- Piston pumps
- Cartridge piston pumps
- Hand pumps

Cylinders
From off-the-shelf mobile or quick-delivery tie-rod to highly engineered cylinders for your specific applications, the wide array of hydraulic cylinders from Parker reduce your cost by providing the optimum hydraulic actuator solution.

- Industrial Tie-rod
- Mobile
- Mill Type
- Electrohydraulic
- Telescopic
- Custom
Extensive Product Offering

**Electronics**

Electronic systems improve diagnostics, ease of operation and functionality. User programmable, Windows-based software reduces programming costs and development time. Several products support multiple languages and custom overlays. Parker systems experts can assist in all phases of implementation.

- System solutions comprising control modules, displays and electromechanical
- Sensors for speed, direction, rotary positioning, proximity, tip, tilt and linear positioning
- CAN bus interface (proprietary, J1939, generic)
- ISO, EN, IEC, EP, SAE certifications and verification testing

**Filtration**

Parker’s hydraulic filters deliver positive protection against contamination, providing reliability for your hydraulic systems and components. On-line particle analysis, off-line bottle sampling and water contamination analysis are perfect complements to high performance.

- Pressure and return filters
- Off-line and purification systems
- Reservoir accessories
- Fluid condition monitoring
- Fluid analysis
- Competitive interchanges

**Fluid Connectors**

The leaders in ‘dry technology’ for the fluid power industry, Parker’s Fluid Connectors Group is your single source for high-quality tube fittings, hoses and hose fittings, thermoplastic tubing, brass fittings and valves, quick-disconnect couplings and assembly tools.

- Brass products
- Quick couplings
- Rubber hose products
- Thermoplastic products
- Tube fittings

**Motors**

Parker’s complete line of long life hydraulic motors provides solutions to almost any rotary power application. Piston units deliver unmatched performance and efficiency. Gear and gerotor motors are the best solution for many types of application. Pressures up to 420 bar, power ratings from 3 kW to over 400 kW.

- Low speed/high torque motors
  - Gerotor
  - Radial piston
- High speed motors
  - Piston – fixed and variable displacement
  - Vane
  - Gear
# Extensive Product Offering

## Power Take-Offs

Performance and reliability you can count on every day with industry leading engineering and innovation. Parker offers value-added and premier customer service to the auxiliary power market.

- 6, 8 and 10 Bolt series (US)
- Designs for both manual and automatic transmissions
- Brodest range of power shift PTOs on the market
- System solutions for continuous power applications

## Power Units

Self contained pre-plumbed hydraulic power units for industrial applications. Units can be configured with coolers, heaters, filtration and various valving options. Designed to provide low maintenance/reduced downtime performance for your system.

- 19–150 litres
- 0.3–15 kW
- 200 bar
- Gear, vane or piston operated
- 0–60 litres per minute
- Very quick lead-times

## Pumps

Designed to handle a wide range of applications, Parker pumps are available with a full complement of computer and electronic controls. Manufactured with the finest materials under the strictest control, these pumps deliver high efficiency and low maintenance under the toughest operating conditions.

- Fixed displacement pumps
  - Piston
  - Gear
  - Vane
- Variable displacement pumps
  - Piston
- Gold Cup hydrostatic transmission pumps
- Flow dividers/intensifiers

## Rotary Actuators

Hydraulic and pneumatic rotary actuators featuring long-life designs and high efficiency for low cost operation, offering a full range of torque options and pressure ratings matched to the application for an optimum solution.

- Rack-and-pinion
- Non-tie-rod rack-and-pinion
- Single and double vane
- Custom engineered housings and shafts
- Materials: titanium, monel, stainless steel, bronze
- Special environments and applications
Extensive Product Offering

Threaded Cartridge Valves and Integrated Hydraulic Circuits

Parker has one of the broadest lines of cartridge valves and manifold systems in the industry. With expert applications engineering assistance, we can develop and design virtually any solution to meet your needs. From simple cartridge valve applications to complex integrated manifold systems, we can handle it all.

- Solenoid valves
- Pressure controls
- Flow controls
- Check and shuttle valves
- Logic elements
- Load and motor controls
- Proportional control valves
- Integrated manifold solutions

Valves and Controls

Parker provides the largest selection of Mobile and Industrial valve products, ranging from simple in-line valves to high performance sectional and manifold mounted directional and proportional valves.

- In-line products including flow and pressure controls, checks, ball and shear seal valves
- Manifold mounted pressure, directional, proportional control and servovalves
- Mobile open-centre and pressure-compensated load-sensing valves (pre/post comp)
- In-line accessories and hydraulic remote controllers

WARNING – USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the systems and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalogue and in any other material provided by Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.
When it comes to hydraulic components and solutions, no company offers more than Parker. Get a jump on your next solution by contacting Parker today!

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* If you are calling from Austria, Belgium, Czech Republic, Eire, Finland, France, Germany, Italy, Portugal, Spain, Sweden, Switzerland, United Kingdom.

** If you are calling from other countries.

Parker has a set of Hydraulic Product Catalogues for industrial, mobile and truck markets available, each paired with an interactive CD. Call 00800 27 27 53 74 to order any or all of these comprehensive guides.
At Parker, we’re guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements.

It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker.

For further information, call our European Product Information Centre at 00800 27 27 53 74.