We get beyond pieces and parts
We develop System Solutions

We simply fulfil your needs
Wherever you work... Mobile, Industrial, Energy, Marine...
From simple product to sophisticated project,
From maintenance or renovation to a complete new development,
From low force to major power demand,
From single manifolds to complete systems,
From standard items to customized systems,

Of course, we have your solutions.
As a solutions provider we are able to help our customers achieve higher levels of productivity and profitability by engineering the most efficient and reliable systems to meet their requirements. Years of experience and know-how enable Parker to design and build unique, comprehensive and complete systems for virtually any application. In practice, inventiveness in the field of motion control is of overriding importance in hydraulic, electro-mechanical and pneumatic applications.

We partner with customers, engineer to engineer, at the earliest stages of design, to get beyond the pieces and parts, and develop system solutions. Unmatchable product breadth guarantees our systems to be built with Genuine Parker Parts. In addition, systems protected by properly installed and maintained Parker hydraulic filters benefit from a 3-Year warranty on all Parker Hydraulic components.
Components
Reliable components for all applications.

Our breadth of product is unmatchable. System quality is dependent on the quality of components used.

Pumps
Parker’s broad line of energy-efficient hydraulic pumps include fixed or variable displacement models in piston, vane and gear design. They are available with a full complement of mechanic, electronic and computer controls, as well as pressure relief and unloading assembly blocks. Pumps, are manufactured under the strict quality control with finest materials, are of high efficiency and low maintenance under the toughest operating conditions.

Hydraulic Valves
Parker offers a wide range of high performing valves including directional control and proportional DC valves in all sizes as well as complementary pressure, flow and check valves for all industrial and mobile applications. Sandwich, pipe and flange mounting valves allow for space saving installation. The modular and flexible slip-in cartridge valve program is well proven in high speed and rugged applications. Electronics and other accessories complete this comprehensive hydraulic valve programme.

Accumulators
A complete range of piston, bladder and diaphragm type accumulators, as well as gas bottles and other accessories. These proven components improve hydraulic system efficiency by maintaining pressure, supplementing pump flow and absorbing system shocks. Sturdy construction guarantees years of efficient and reliable service.

Electronics
With nearly three decades of worldwide Parker experience in advanced electronics and hydraulics, we can provide simple or complex control systems to fit every need. Parker’s most advanced IQAN product combines sturdy, well-tested hardware that meets and surpasses international standards with user friendly flexible software. Simple IQAN systems may be built from a large selection of components. More complex systems are made up of master/display units and expansion modules communicating on CANbus.

Especially for industrial applications the Compax3F fluid controller brings state-of-the-art position, velocity and force controls to a huge variety of closed-loop applications such as die-casting, metal forming, tube bending, plastic injection and blow moulding. Integrated PLC and bus functionality complete the scope of the fully digital Compax 3F. Tools for configuring, optimising, parameterising and programming are available free of charge. Non-linear movements can be realized with a special Cam function. Its multi-function and multi-application qualities make Parker’s electro-hydraulic series Compax 3F the universal controller of choice for all hydraulics.

Filtration
Parker filtration products are designed to maximize the reliability of the hydraulic systems and their components with positive protection against fluid contaminants. Parker’s comprehensive line of pressure and return line filters enhance machine life, reduce maintenance and lower costs. High, medium and low pressure filters are offered, as well as portable filter carts, replacement elements and condition monitoring equipment.
**Fluid Connectors**
A complete line of fluid connector products is offered for hydraulics, pneumatics and other fluid systems. From high-quality state-of-the-art fittings, valves and quick couplings to high pressure hose available in a wide range of core-tube materials, reinforcement designs and outer covers.

**Cylinders**
A global reputation for delivering the high performance expected, over millions of trouble-free cycles, Parker cylinders have consistently proved to be the most reliable and cost effective cylinders on the market.

**Motors**
Our full line of high speed and low speed motors provide torque ratings up to 110,000 Nm. A complete range of sizes is offered in gear, vane, gerotor and piston style operating configurations. Fixed and variable displacement motors are available. Parker hydraulic motors deliver excellent performance with high efficiency, true wear compensation and long service life.

**Hydraulic Cartridge Systems**
Solutions provided to complex circuits by selecting threaded cartridge valves from our wide range of products, and integrating them into a single manifold. 3D-CAD/CAM software, state-of-the-art machining centres, and complete automated testing are the guarantee of a maximum application performance.

**Hydrostatic Transmission/Steering Unit**
Parker is a respected supplier of these sophisticated units which have been designed to withstand the rugged requirements of the military market. A choice of sizes is offered in open centre, closed centre and load sensing configurations.

**Rotary Actuators**
Hydraulic rack and pinion rotary actuators, with torque output up to 68,000 Nm. In conjunction with a standard offering of rotary actuators, Parker works with customers on designs to meet specific application requirements. Rotary actuators provide constant high torque to perform a wide variety of actions in numerous applications from indexing and clamping on machine tools to keeping solar energy systems constantly pointing at the sun.

**Pneumatics**
In addition to hydraulic systems, Parker also offers a wide range of different pneumatic systems. The varied product spectrum of directional and flow control valves, actuators, air line preparation, vacuum products, pneumatic sensors and accessories helps to build up customised solutions. Our pneumatic systems can be found in many different markets such as the primary aluminium, food and packaging, transportation and automobile manufacturing.
Manifolds

Optimising your mobile and industrial applications.

Parker manifolds are designed to build up complete functions or parts of functions in one block. Dependent on the application, the block can be made of cast iron, aluminium, steel, stainless steel or other suitable materials. The surface of the material can also be treated to fulfil the requirements of the application.

Parker’s manifolds combine several benefits to ensure the performance of your application:
- Design, manufacturing, assembly and testing under responsibility of Parker
- Dedicated functions concentrated in blocks
- Functions are tested in our workshop to reduce commissioning time
- Reduced number of leakages through less pipe work
- Designed for easy assembling and easy maintenance during operation
- Approved safety functions for presses and marine available

Parker provides manifolds for the mobile and industrial market. Mobile directional control valves with a wide range of sections and sizes allows for the complete functionality of mobile equipment to be achieved with standard parts. Non standards can be designed using the excellent Parker threaded cartridge valves program. Industry application will be designed with standard sub-plates in combination with sandwich valves and CETOP directional control and proportional DC valves. Function of other applications can be engineered in one dedicated block in combination with spool and slip-in cartridge valves.

1 Manifold in presses
2 Manifold in marine
3 Manifold with integrated cylinder
4 Press safety manifold
5 Manifold for mobile
6 Manifold for machine tool
Parker’s systems specialist engineers customize power units with the appropriate Parker parts and subsystems to fulfill customers requirements. The experience and reputation of Parker in industrial, mobile and marine areas guarantee and provide high availability and high performance for all hydraulic operations.

According to the application the pumps or pump combination are selected and assembled to ensure a high performance over years. The oil reservoir is designed for the optimal treatment of the oil. Filters and coolers are selected by experienced Parker engineers dependent upon the requirements of the application. Standard power units with oil reservoirs from 20 up to 1,250 litres as well as those with low noise technology can be ordered by catalogue. Special systems can be designed and built with reservoirs up to 20,000 litres to meet customer’s requirements. Once Parker receives a hydraulic schematic or a technical specification of the application, Parker Systems specialists will design and develop the power units to fulfill all requirements of the operation. Following discussion and agreement with our customers, Parker will provide a hydraulic schematic with the appropriate quotation and a 3D model of the power unit. Once build is completed, a 100% function test takes place before shipment. The whole engineering and design process is carried out according to DIN EN ISO 9001: 2000 standards.
Integrated Systems
Combining our expertise.

Integrated Systems from Parker are the next step in the evolution of motion and control. Hydraulics, pneumatics and electronics are designed, engineered and manufactured in one system. Customers are confident on the competence of Parker to integrate these three different technologies.

The integrated systems approach clearly shows Parker’s power to design and manufacture multi-technology innovative solutions within customer requested delivery timescales, manufactured to the very best quality and competitively priced. Whether the system operates on the ocean, in the desert, on top of a mountain, in a laboratory or in a heavy duty environment, Parker works closely with the customer to ensure that the solution will be cost effective, reliable and will provide the performance required before manufacturing begins.

The important characteristics of integrated systems are:
- Single stand alone systems
- Space is optimised
- Hydraulic, pneumatic and electrical connections included
- Integrated electronic controls
- Complete system function tests by Parker
- Plug and play technology

Parker systems engineers are developing the next generation of high efficiency fluid systems by using of frequency inverters to optimize the speed of the electric motor to reduce energy consumption.

1 System with electronic and power supply
2 Systems with electronic for training
3 Systems with electronic controls on wheel
4 Engineering team working on systems
5 Hydraulic System for tire production
In addition to its comprehensive breadth of products dedicated to industry, you benefit from Parker’s vast experience in systems engineering and plant construction.

In addition to components, actuators, manifolds and power units Parker will design and manufacture the complete connector systems including brackets. The prefabricated pipes and hoses will be assembled between the hydraulic systems and the actuators according

The high quality standards by Parker’s specialists. The total system will be transported according to the customer’s requirements in one or more shipments dependent on the production schedule. Additionally, Parker can provide the supervision for the assembly of the total systems and the pipes and hoses.

Fitters will be trained and supported by experts from Parker during the assembly which will ensure that the high Parker quality standards for leakage free systems are achieved.

The start up of the system will be supported by Parker specialists on site. This service from Parker reduces the installation and commissioning time and brings the machine into production quickly.

Hydraulic oil, air supply, electric power, tools, machines and men power can be provided by Parker to complete a successful and high efficiency installation and start up.

Parker supports its customers where its customers need Parker.

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1 Central hydraulic
2 System assembled in container
3 Commissioning
4 Power unit, cylinder, pipe and hose systems including assembly
You’ve got many reasons to rely on Parker

Because your own customers are more demanding, you are more demanding on your own suppliers.

Reliability and quality
Every one of our products, whether tailor made or from a mass produced standard product line undergoes rigorous testing. This is reinforced by our plants being ISO 9001 certified. If so desired, the systems can be supplied with Lloyd’s, Det Norske Veritas, CNOMO or TÜV certification.

Breadth of product on top of engineering expertise
Not only does Parker have an impressive portfolio of hydraulic, pneumatic and electro-mechanical products, we also have the engineering expertise.

One single source supply
Whether your equipment requires hydraulic, pneumatic, electro-mechanical or filtration components or a complete system, Parker is uniquely able to supply all of these together.

• Design-engineering support
• Careful component selection
• Greater functionality
• Fewer parts
• Reduced transaction costs
• Reduced maintenance costs
• Easier installation
• Faster cycle times
• Less energy consumption
• Reduced downtime
• Global support
• Reduced risk
Productivity improvement
Rigorous testing of prototypes in the field ensures the proper functioning and reliability of solutions once they reach the serial production stage. The total pre-delivery testing includes the calibration of performance values at maximum flow rates and pressures. The testing makes for rapid assembly and short turn-around times for your serial production machines. In a few words:
- Effectiveness
- Less maintenance
- Faster response time.

Decades of experience in many hydraulic applications
Past experience is an important reason for Parker’s expertise in product development and the manufacture of hydraulic and pneumatic systems, from single manifolds to complete power units.

Easy maintenance
An integral part of our design philosophy is to ensure easy set-up and easy access for maintenance.

Lifetime improvement
Our systems are protected by properly installed Parker hydraulic filters. Unique leak-free connections are obtained thanks to the use of the Parker fluid connector range of leak-free products.

Computer aided engineering
Parker uses many of the latest virtual engineering tools. Parker can provide 3D drawings to be incorporated into the own customer’s designs.

Chromium VI-free
The requirements for corrosion resistance of tube fittings have been increased in the past few years. Through the application of a chromium 6-free surface treatment, Parker meets the requirements of the automotive industry, and respects the directive of the European Parliament (EU precept 2000/53/EG, annex 2002/525/EC from 29.06.2002) to forbid the use of Chromium 6 in passenger vehicles. The removal of Chromium 6 reflects Parker’s ongoing commitment to environmental protection and industrial safety.

Environment
Parker continually reviews the environmental impact of its activities and products, developing products and solutions that reflect, anticipate or exceed international directives. Anti-pollution fittings, energy-saving compressed air filters, cutting edge pumps and motors, green hydraulic filters help systems last longer and optimise maintenance scheduling, thus saving money and cutting pollution.
Wherever you are, whatever you do
From global support to local service, there is someone to help you.

Parker experts in hydraulic, pneumatics and electronics have long experience in all markets and applications and are the key to building successful engineering solutions.
Parker’s Worldwide Presence
From one office in 1960, Parker now operates over 130 facilities in Europe. Parker European Systems team members all have years of experience in advanced systems design and engineering. They are your partners all the way, suggesting different system solutions until you are satisfied with the performance of your prototype machine.

Parker’s Integrators Network
Our original system solutions can also be developed in partnership with our Parker Integrators. They are independent companies chosen for their technical capabilities. They meet the standards specified by Parker and ensure the use of genuine high quality Parker parts.
Parker the global leader in motion and control technologies

Global but local
With annual sales exceeding $12 billion, Parker Hannifin Corporation is the world’s leading manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of commercial, mobile, industrial and aerospace markets. The company employs more than 58,000 people in 47 countries around the world.

Expertise in over 1,000 markets
Globally, the company serves nearly 500,000 customers providing product and system solutions in more than 1,000 markets. Whatever the motion and control need, Parker has the experience, breadth of product and global reach to consistently deliver. Whether you are an original equipment manufacturer or you have a need for maintenance repair and overhaul you can be sure of premier service through more than 280 Parker locations and 12,000 distributor outlets around the world.
Nine Technologies
To meet your needs in motion and control, Parker provides expertise in nine major technologies. Within these technologies, Parker offers the broadest range of products and systems available from any single supplier, including filters, hoses, fittings, valves, vessels, pumps, motors, drives, electronics, controls, cylinders and seals.

Thanks to the products breadth you can rely on Parker as a single source supplier.

Aerospace
Designing, building and supporting systems and components on virtually every aircraft flying today.

Fluid & Gas Handling
Directing the flow of critical fluids in hundreds of applications.

Climate Control
Providing comfort, convenience and control for a better quality of life.

Hydraulics
 Delivering highly engineered hydraulics systems and components for powerful applications.

Electromechanical
Delivering highly engineered electromechanical systems and components for high speed precision applications.

Pneumatics
Delivering highly engineered pneumatic systems and components for high speed automation equipment.

Filtration
Quality filtration and separation products and systems for industrial, transportation, mobile and marine markets.

Process Control
Critical components for process instrumentation, semiconductor, health care and analytical applications.

Sealing & Shielding
Supplying engineered seals and sealing systems that enhance equipment performance around the world.