



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



# Materials Handling

Dedicated Products and Solutions



ENGINEERING YOUR SUCCESS.

# Dedicated products and solutions for

Parker – an experienced partner at your service

## Market Knowledge and Solutions

Parker's commitment to the materials handling industry is clearly demonstrated by the products, the solutions and the customer service provided, always with the environment in focus. Parker has successfully integrated products that address the needs of the materials handling industry for over 50 years. Innovative products like single acting and regenerative main arm functions for reach-stackers, multi-pump power control, integrated manifolds and complete electro-hydraulic systems including LMI (Load Moment Indicators) are just a few examples adding value to the customers.

## Value in use

Parker has dedicated teams of Materials Handling specialists working globally to design systems, sub-systems and solutions to meet the most demanding requirements. Among the many immediate value adding benefits realised are; increased productivity, reduced production time, reduced fuel consumption and emissions, reduced noise and reduced down time. Kanban, Bread-Man, Kitting and pre-assembling services are equally important customer service factors which cut inventories, purchase routines and production cost to an absolute minimum.

## Certified Electronics

IQAN is a user-friendly, comprehensive control system specifically designed for the mobile industry, fulfilling the latest standards for safety and environmental protection. IQAN provides the user with application software tools to build up the complete system. The modules communicate via Can Bus, allowing different gateways to other systems. All of Parker's extensive knowledge and experience in motion control on mobile units is built into IQAN, providing optimum control and flexibility as well as on-board and remote diagnostics capabilities.



## ▼ Intelligent control systems for improved performance

The IQAN system with user-friendly software is specifically developed for the mobile machine market, allowing the designer to integrate all machine functionality in a simple way, focusing on time-to-market and machine management. Being of modular design, there are no input or output limitations. IQAN controls and supervises the complete working hydraulics with all necessary interlocks, such as: straight lift, flowsharing, power control and J1939 engine interface etc. It also provides a weighing interface and communicates with onboard computers. The graphic display is used to optimise the loading operation by e.g. monitoring container weight and machine load moment. The display is also used for alarm, service logging and faultfinding functions.



## ► Integrated functionality

Tailor-made to customer needs or from our standard range. A large variety of blocks available, either 'stand alone' units or flanged directly onto other components. Some examples of standard manifolds: steering priority valves, brake charge valves, spreader damping valves, cylinder mounted regenerating valves, etc.



# materials handling



◀ **Open centre valves optimised for materials handling**

Section-built open centre valves for maximum flexibility and controllability. Integrated functions such as tilt control valves, pump unloading, low pressure by-pass valves etc.

▶ **Load Sensing valves for heavy duty operation**

Monoblock designs for the high flow ranges and section-built versions for lower flows. These valves represent the state-of-the-art, combining high performance and low fuel consumption. Spools are matched to the individual functions for superb machine control.





**▲ 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 this market. In addition to a wide range of low, medium and high pressure hydraulic filters, lube and fuel filter products and quality reservoir accessories, Parker offers over 30,000 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.

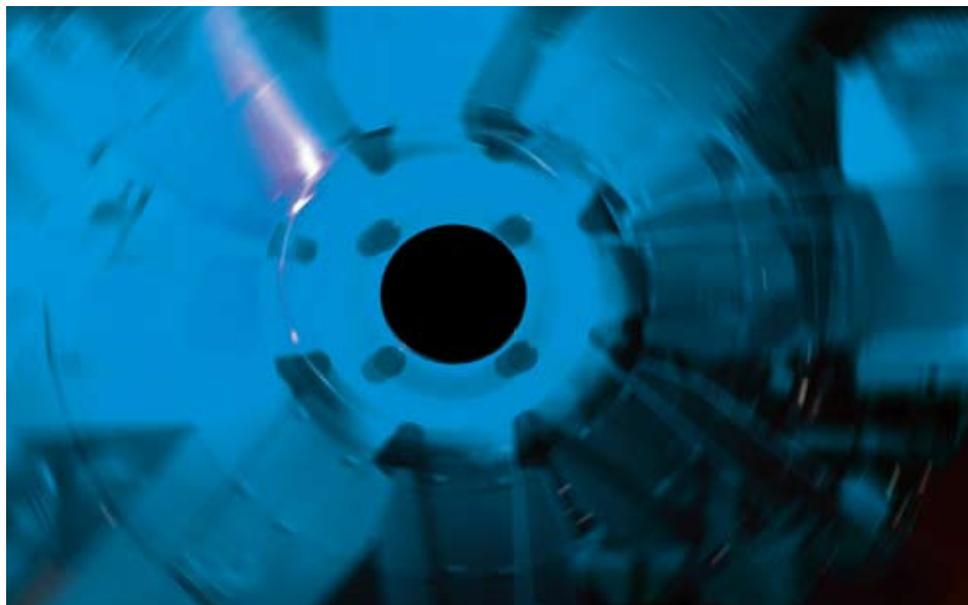
**▼ Gear pumps/motors for the working hydraulics and auxiliary functions**

A wide range of gear pumps/motors with superior performance, high efficiency and pressures up to 310 bar are available for the hydraulic system. The pumps can be delivered with integrated priority function for brake charging, steering and also to unload a single section. Motors for cooling fan drive systems are offered with a variety of valves, including solenoid relief valves.



**◀ Fan drive motors**

Heavy duty piston, vane and gear motors featuring extensive speed ranges up to 14,000 rpm, small envelope sizes, integrated functions, high starting torque and optimal efficiency for direct fan drives.



### ▼ Heavy duty cylinders for heavy duty applications

Cylinders, either standard or purpose-built to customer requirements, are designed for the specific needs of this demanding application. Available with integrated valve functions (over-centre or lock valves) and end position damping for tilt functions. A variety of rod eyes and bearing types complete the picture.



### ▼ Variable displacement pumps for heavy and medium duty operation

The heavy duty range of variable piston pumps for load sensing systems offers high pressures and high speeds at exceptional low noise levels due to the rigid housings and the unique ripple chamber. This array of products is completed by high efficient and low noise medium duty pumps. A large number of frame sizes makes the range of variable pumps the obvious choice for modern machine designs. All pumps are performance-matched to form an excellent "working partner" in our total system concepts.



### ► Store energy

We offer a complete range of CE-approved bladder and piston accumulators which maintain high pressure for safe braking and manoeuvring. Greater system efficiency and reduced pump sizes gives longer life, lower costs and reduced noise levels.



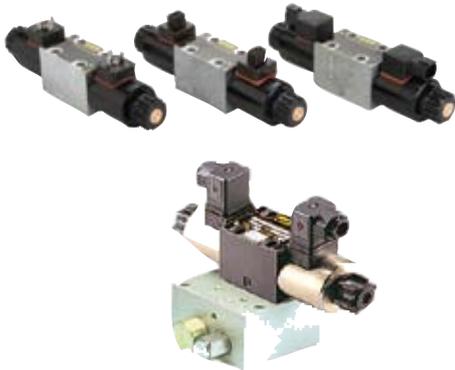
### ► Vane pumps/motors for low noise operation

The latest Parker Denison range of vane pumps and motors will allow a good compromise between low noise, high pressures (up to 320 bar) and a large displacement offering (from 6 to 550 cc/rev.)



### ▼ Industrial style control valves

A full range of NG6 and NG10 valves with standard mobile solenoids interface. Robust design for rough applications and optional high corrosion coating.



### ▼ Power braking

Compact single/dual circuit brake modulating valve (BMV) and charging valve (STAC) provide smooth, controllable and safe braking for large machines with low operator effort.



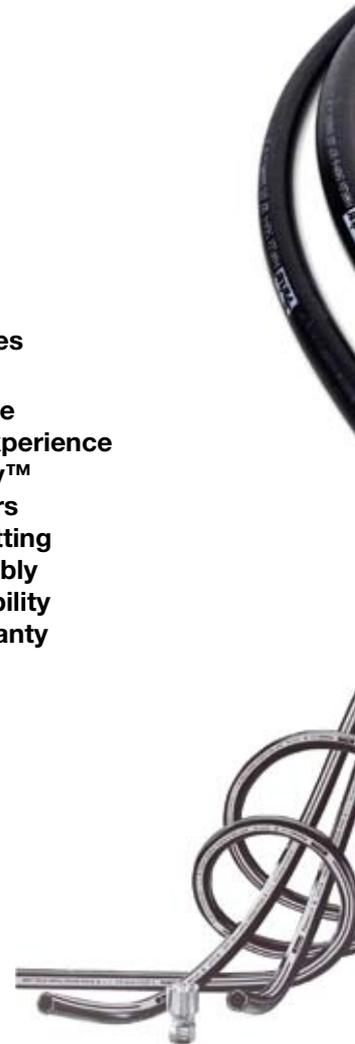
### ▲ Remote controls for high productivity machine operation

Designed for fatigue-free heavy duty operation, a range of hydraulic and electronic control system joysticks. All with a selection of different handles and optional integrated safety locks against unintentional selection.



### Parker advantages in short:

- Global presence
- Outstanding experience
- Dry Technology™
- Full line of filters
- Time-saving kitting and pre-assembly
- Product availability
- Extended warranty





### ▼ Fluid Connectors for environmentally oriented industries

Tailor-made to each specific application after a complete machine analysis, the hoses and connectors represent a vital link in a hydraulic system. A correctly dimensioned and specified layout gives safe and fast assembly for lower production cost and reduced pressure drop for higher efficiency. It also guarantees leak free systems for reduced service cost, down time and environmental contamination. Excellent world-wide availability is offered through the range.

**Parker® PowerLift 477** – high performance for restricted spaces. This medium pressure hose with two steel wire braids exceeds the working pressures as specified in EN 857 and is tested at 120 % of the maximum working pressure at 400,000 impulses.

**692 Twin Elite Rubber Compact Hose.** Two hoses are extruded and vulcanized as one – ideal for fork lift masts, telescopic arms or stabilizers, hose reels etc., as a combined pressure/return line. This hose provides constant pressure with tight bending radii for easy installation and high flexibility with compact dimensions.

**Preformed Hoses** combine the advantages of a preformed steel tube and a flexible hose. Ideal in limited spaces, with a significant reduction in assembly time.

**Thermoplastic Mast Hoses** – single and twin line hoses for over-the-sheave applications with excellent abrasion resistance, designed for low temperature conditions.

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



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