

Dedicated products and solutions for Materials Handling

Market Knowledge and Solutions

Parker's commitment to the material handling industry is clearly demonstrated by the products, the solutions and the customer service provided, always with environmental awareness in focus. Parker has successfully integrated products that address the needs of the material handling industry for over fifty years. Innovative products like single acting and re-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 Material 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. The Parker 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

Parker is the global leader in electro-hydraulic motion control products. 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.



Load Sensing valves for heavy duty operation

Monoblock designs for the high flow ranges and sectional-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.

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 re-generating valves, etc.



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.



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.



Filters for increased productivity and extended life

The long term durability and reliability of a hydraulic system very much depends on keeping the fluid in the system clean. Parker's advanced fluid contamination monitoring and portable particle counting equipment will ensure system efficiency and fluid cleanliness. Parker's global range of high pressure filters, return line filters, pressure transducers and reservoir equipment combined with half a century of experience is your guarantee for reduced equipment downtime and minimized lifecycle cost.

Fan drive motors

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



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.



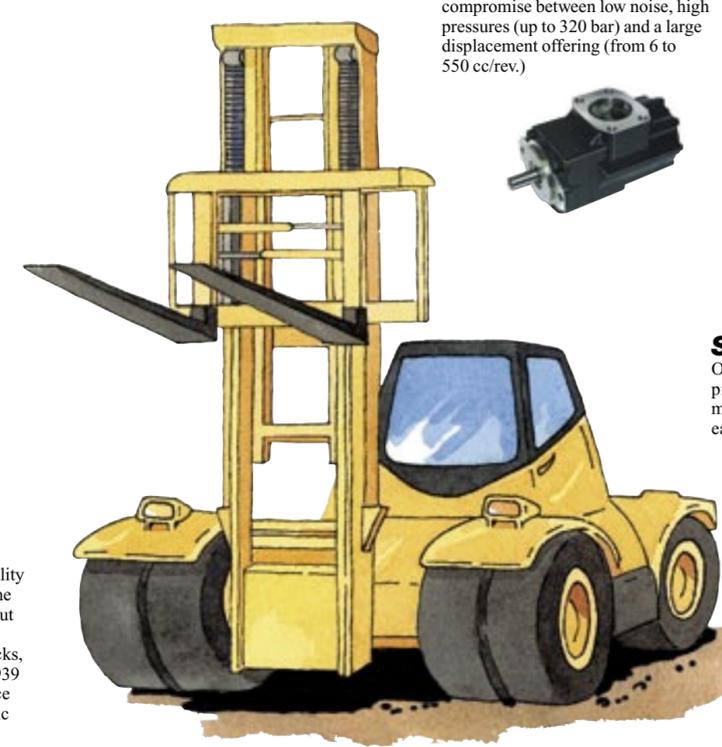
Fluid Connectors for environmentally oriented industries

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.



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 efforts.



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.



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).



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.

Store energy

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



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.



Quality components, quality support, quality result!

*With skilled back-up
from our Mobile Systems Team
your chances of winning
will improve.*



As you can see from this brochure, there is a Parker product – or several Parker products – to choose for any materials handling machine. But choosing Parker as your supplier means more than just cost-saving one-stop shopping for quality components at competitive prices – you also get access to our vast experience in systems engineering.

Partners all the way

Our Mobile Systems Team is ready to assist in developing and fine-tuning the hydraulic systems for your machines, on site or at our own dedicated Systems Engineering Centre. The team members all have years of experience

in advanced system design and will be your partners all the way, suggesting different system solutions until you are satisfied with the performance of your prototype machine.

By adding a highly qualified Parker systems engineer to your project team, you can utilize Parker components in a way that offers significantly improved systems performance – and hence a more competitive product – at a reduced total cost.

New state-of-the-art technology

The Parker range of products is constantly evolving, reaching ever higher levels of performance, functionality, reliability and durability. We are always striving to develop the real life performance of our components even further, to meet and exceed future demands. This is just one of many ways in which we show our commitment to a truly **Premier Customer Service**.

Parker Hannifin Corporation

Parker Hannifin is a leading global motion-control company, dedicated to delivering Premier Customer Service.

Parker is the only manufacturer to offer its customers a choice of hydraulic, pneumatic and electro-mechanical motion-control solutions.

Our company has the largest distribution network in its field, with over 8,200 distributors serving more than 400,000 customers world-wide.

Parker's charter:

To be the world's leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of commercial, mobile, industrial and aerospace markets.

Product groups

Parker Hannifin develops and produces a multitude of components and products within its eight product groups: Aerospace, Automation, Climate & Industrial Controls, Filtration, Fluid Connectors, Hydraulics, Instrumentation and Seals.

Our hydraulics product range includes control systems, valves, pumps, motors, accumulators and cylinders. Dedicated to meeting the needs of industry for more than 35 years, we have raised productivity and improved ergonomics by refining hydraulic systems.

With a comprehensive network of sales offices and distributors world-wide, we are able to service your needs, from complete system applications to local service requirements.

We're Where You Are... Worldwide!

To order products, CDs or additional information:

In Europe, call 00800-27 27 5374
E-mail: eurohyd@parker.com
www.parker.com/eurohyd

In the USA, call 1-800-CPARKER
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**Dedicated products
and solutions for
Materials
Handling**

