



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



Materials Handling

Dedicated Products, Systems and Solutions



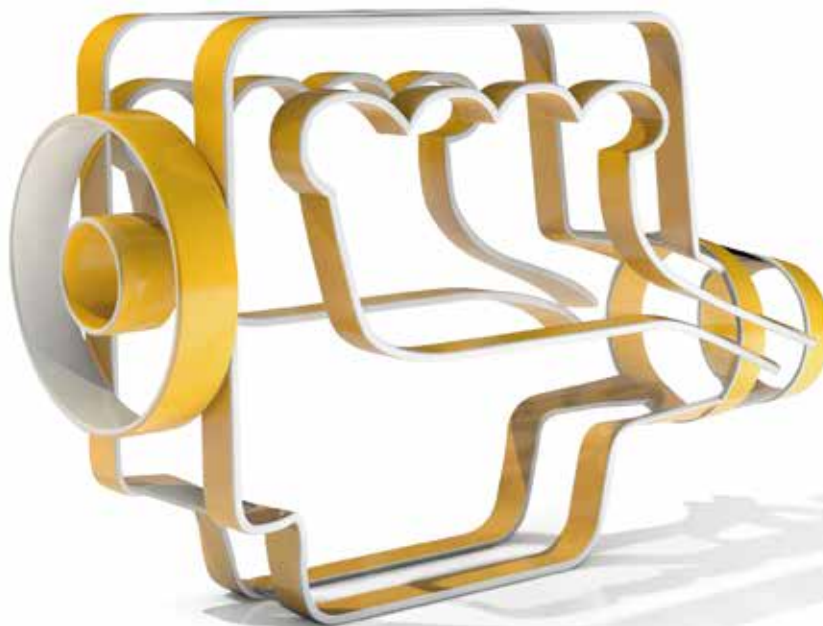
ENGINEERING YOUR SUCCESS.

Materials Handling Machine Subsystems

Dedicated products and system solutions by Parker

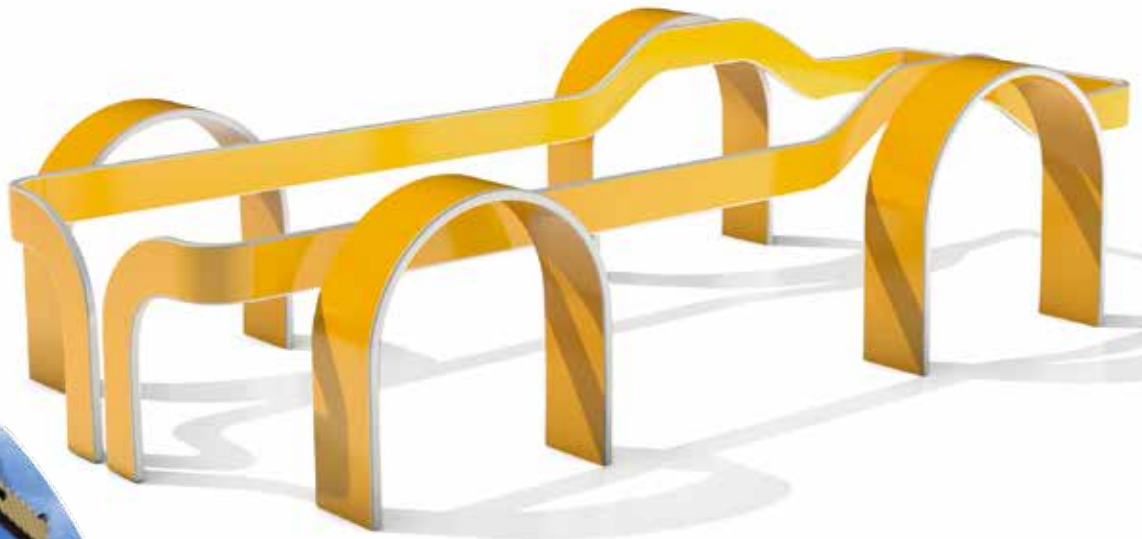


Cab



Engine

Chassis



CONTROLLABILITY Smarter • More flexible • Safer operation
PRODUCTIVITY Quicker • Simpler • Smoother • More competitive
LIFE CYCLE COSTS Cleaner • Better quality • Diagnostics
ENERGY SAVINGS Efficient • Innovative • Environmentally friendly

Implements



Cab Subsystems

The intelligent way to higher productivity

IQAN by Parker is a flexible electronic control system containing all functions for total system solutions. With the user-friendly software tool IQANdesign, you can build advanced machine functions in a simple way, increasing productivity and cutting costs.



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.

Touch-screen displays

The IQAN-MD4 is the latest display in the IQANdesign platform. It comes as 18 cm (7") with standard touch-screen, and in a 14 cm (5.7") version with optional touchscreen. Weather protected and easy to configure with IQAN programming tool.



Ergonomic operation

A range of linear and joy-stick levers for pilot control, adapted to the specific demands of materials handling machines.



Electro-Hydraulic Actuator Compact EHA

The Compact EHA provides the power density of hydraulics but is driven by the vehicle's electrical system. Self-contained, with compact dimensions and two-pin mounting, installation of the Compact EHA is simple, while electrical drive avoids the parasitic losses associated with engine-driven pumps.



Quadruple control

The IQAN-LC6-X05 is a mini-coordinate joystick that incorporates ergonomic design with ruggedness, functionality, light weight and flexibility for mobile applications. The unique (patent pending) rotary knob integrates a fourth proportional function in the handle.

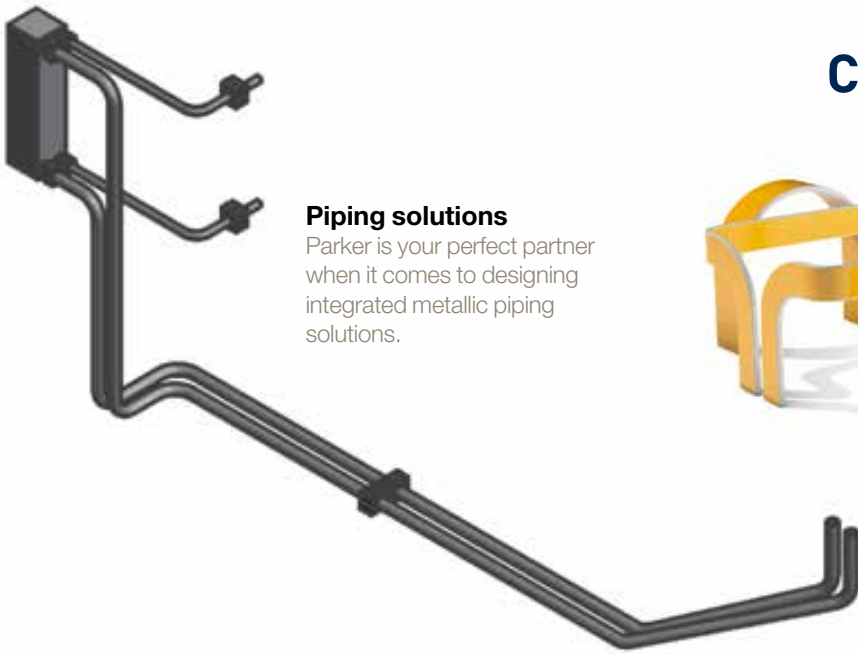


Brake pedals

Hydraulic brake pedal with possibility to customise pressure characteristics.

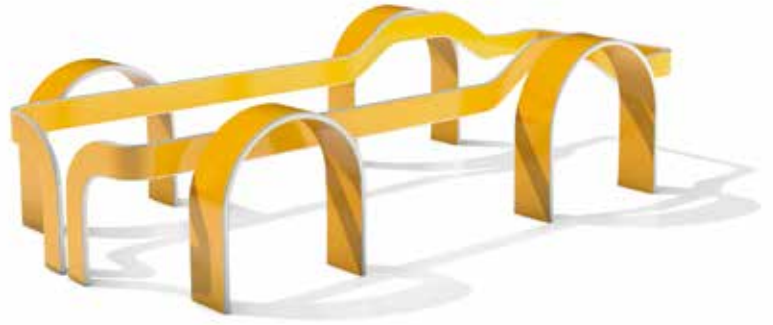


Chassis Subsystems



Piping solutions

Parker is your perfect partner when it comes to designing integrated metallic piping solutions.



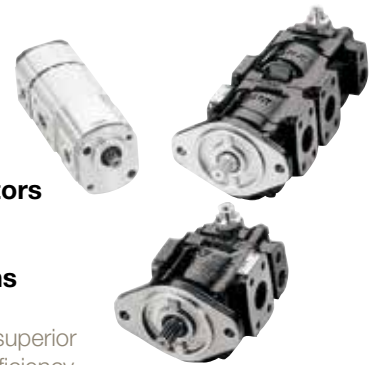
Vane pumps/motors for low noise operation

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.)



Intellinder – absolute position sensing for safety-critical applications

Rugged simplicity distinguishes Intellinder from other automotive position sensing solutions. By using the piston rod as the measuring scale, read directly by an opto-electronic sensor in the head of the cylinder, Intellinder delivers instantaneous response and exceptional repeatability while avoiding the vulnerability and complexity of traditional feedback designs. Available as a double rodded cylinder for steering systems, Intellinder can be fitted with two or more sensors for multiple redundancy. Maintenance-free design with a resolution of 0.03 mm and a repeatability of 0.04 mm. J1939 CAN compatible, IP67/68 ingress resistance.



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.



Store energy

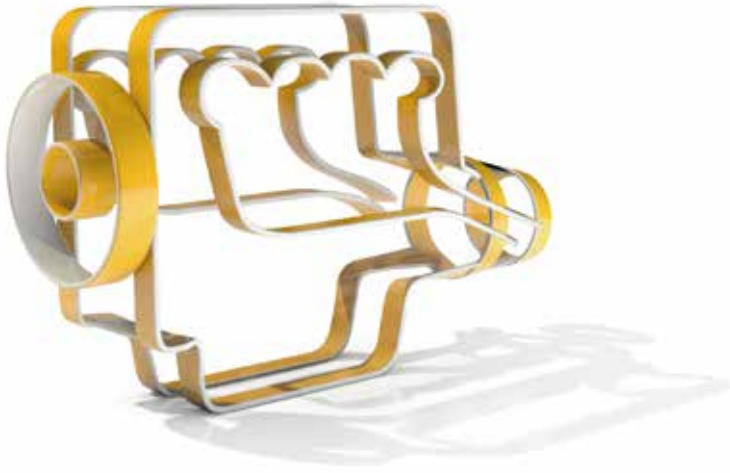
We offer a complete range of CE-approved bladder and piston accumulators which maintain high pressure for safe braking and manoeuvring. Greater system efficiency and reduced pump sizes gives longer life, lower costs and reduced noise levels.

Pre-formed hoses

Pre-formed hoses provide design advantages and space savings with fewer potential leakage points than hose-tube combinations.

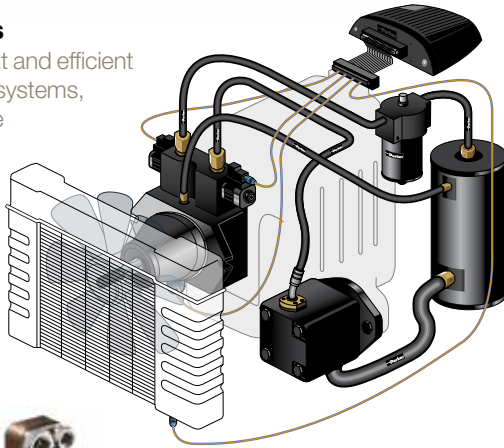


Engine Subsystems



Cooling systems

Compact, lightweight and efficient air/oil/water cooling systems, developed for mobile applications.



EGR valves

Composite actuator body, resistant to temperature and shock extremes for direct engine mounting.



Engine brake

Bio-fuel compatible, compact 2-way valves for engine installation, offering added braking power.

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.



Sensors

Fast response time and quick and safe connection guarantees the safe capture of pressure in hydraulic systems.



Crankcase ventilation

Eliminates environmental pollution from crankcase emissions and improves diesel engine reliability.



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 50,000 Parfit™ interchange filter elements and advanced fluid condition monitoring with the icountLCM portable particle counter and icountPD particle detector, plus the Parker Kittiwake condition monitoring range. A comprehensive selection of quality products that combine with Parker experience to help reduce equipment downtime and minimize life cycle costs.

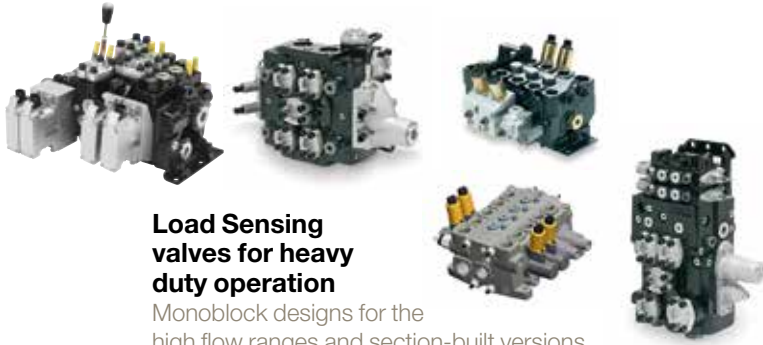


Implements Subsystems



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.



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.

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. Every pump is performance-matched to form an excellent "working partner" in our total system concepts.



EHP subsystems for fuel-efficient, quiet machines

Parker's Electro-Hydraulic Pump subsystems include directly coupled permanent magnet motor/generators with hydraulic pump/motors. The electric motor is controlled by an intelligent DC/AC inverter enabling energy recovery. EHPs are used for power steering, implement actuators and additional auxiliary functions.



Efficient torque generation

Gerotor motors with high efficiency, low speed and high torque, well suited for Material Handling applications.



Hoses and connectors

A wide range of hoses and connectors for mobile markets with possible PTS system for tagging and tracking Parker hose assemblies.



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.



Industrial style control valves

A full range of NG06 and NG10 valves with standard mobile solenoid interfaces. Robust design for rough applications and optional high corrosion protection coating.



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US Product Information Centre

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