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# **Dedicated products and solutions for Wheel loaders**

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## **Your Resource for Hydraulic Components and System Solutions**

# Dedicated products and solutions for Wheelloaders

## Market Knowledge and Solutions

Parker's commitment to the wheel loader 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 industry for over fifty years.

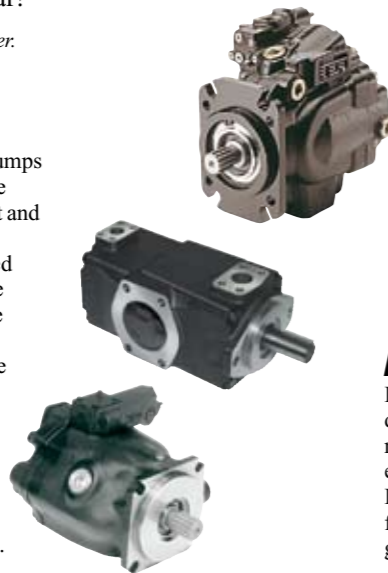
## Value in use – cutting costs and boosting productivity

There are several immediate value adding benefits from utilising our expertise and our advanced technology. For the manufacturer, time-to-market can be cut by several (very important) months, while production time and cost can be **reduced up to 15 percent** thanks to unique design features and services like Parker Kanban, Bread-Man, Kitting and pre-assembly, which also cut inventories and simplify purchase routines significantly. For the end-user, **up to 10 percent\* reduced fuel consumption**, less down time and increased machine output by **up to 4 percent** due to higher efficiency can **save up to 4000 Euros** or more – in just one year!

*\*Typical figures for a 140 kW wheel loader.*

## Quiet power

Our range of 320 bar variable piston pumps have rigid housings and standard ripple chambers which make the pumps quiet and reduce flow- and pressure pulsations considerably. A high self-priming speed capability and unique port layout make this range of pumps the obvious choice for modern machine designs. Also our medium duty variable piston pump line is characterized by a compact, light-weight design and high flexibility as well as a wide operating temperature capability and reduced noise emissions. A full range of quiet vane pumps for efficient use up to 320 bar max working pressure is also available.



## Machine control

IQAN is an electronic, CAN-based system containing all functions required for total system solutions. Built on software modules for power management, transmission control, arm control, brakes, steering, external communication and implements, etc. IQANdevelop and IQANdesign are excellent tools for installation, start-up, diagnostics, fault-finding and other user-friendly functions. IQAN interfaces to generic CAN-buses such as J1939, CAN open, etc.



## 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.

## Heavy duty gear pumps

A wide range of heavy duty gear pumps in cast iron or aluminium for long, reliable service life with high efficiency and low noise levels. Integrated functions for steering priority, brake charging, unloading and other value-added features. State-of-the-art for demanding customers!



## Dedicated LS valves for large wheel loaders

Hybrid solutions for the ultimate wheel loaders, featuring bucket priority, seat valves, dual ports and low pressure regeneration to allow high speeds without cavitation. The concept is very energy-efficient and insensitive to thermal shocks. A wide range of LS valves for auxiliary and add-on functions featuring flow control, pressure control, optimised spools, hydraulic and electro-hydraulic controls.



## Integrated functionality

Customized system blocks simplify installation and servicing. Pre-assembled and tested, they offer great value in reducing assembly and installation costs. Save on after-market purchases and servicing!



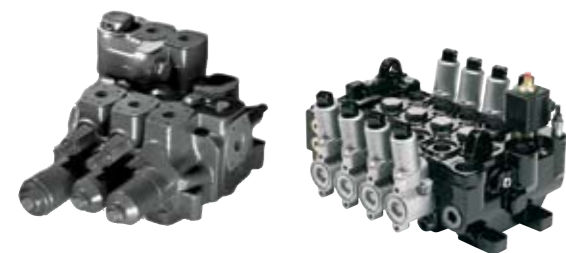
## Ergonomic operation

A range of foot pedals and joy-stick levers for pilot control, adapted to the specific demands of wheel loaders, recognized for good manoeuvring capabilities. Options include multi-function handles, built-in brake release and customized actuators.



## Optimized valves for small and midsize wheel-loaders

Optimized open centre valves with features such as function adapted spools, float function, low pressure drop, anti-cavitation function and spool control options – manual, hydraulic or electro-hydraulic.



## Smooth ride

Parker's CE-approved piston accumulators are at the heart of modern ride control systems, improving machine efficiency with shorter journey times, increased load retention and enhanced operator comfort.



## Added life

Parker filtration philosophy helps to add life-time and reliability to your machines. A wide range of filters covers all your needs.



## Stay tough on tough jobs

A wide range of customized cylinders with service-friendly designs, damping and integrated valve functions. Designed to stay leak-proof during a long service life.



## Leak-free connections

The Parker "Dry Technology" programme offers a wide range of high performance leak-free products: Tube fittings, industrial and hydraulic rubber hoses, thermoplastic hoses, quick couplings, pneumatic tubes and pneumatic fittings for maximum security, protection and good economy.

