

Dedicated products and solutions for Excavators

Market Knowledge and Solutions

Parker's commitment to the excavator 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

Parker has dedicated teams of excavator specialists working globally to design systems, sub-systems and solutions to meet the most demanding requirements. 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 15 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!

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. 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.

* Typical figures for a 12 ton excavator.

Optimized valves for mini- and mid-range excavators

Optimized open centre valves with features like function adapted spools, mid inlets, low pressure drop, anti-cavitation functions, straight travel and spool control options, manual or electro-hydraulic controls, etc.

Swing and traction on mini-excavators

Torque motors with high efficiency, low speed and high torque well suited for excavator applications.

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.

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.

Machine control

Based 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.

Safe, reliable performance

Our wide range of piston and diaphragm accumulators maintains high pressure for safe braking and manoeuvring. Greater system efficiency and reduced pump sizes give longer life and lower costs. Features such as integrated manifolds and relief valves simplify design and speed assembly.

Added life

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

Unlimited flexibility for large and mid-range excavators

A wide range covering pump flows from 100 to 300 l/min. Each valve section is optimized and dedicated to the function it serves. Our valves include LS technology and also valves with Japanese excavator technology built for negative flow control. Unlimited flexibility, priority, individual pressure control, straight travel and hydraulic or electro-hydraulic spool control. Great resources for creative system design!

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!

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!

Quiet power

Our range of variable piston pumps have rigid housings and ripple chambers which make the pumps quiet, generating less flow- and pressure pulsations than conventional pumps. High self-priming speed capability and a unique port layout makes this range of pumps the obvious choice for modern machine designs. All pumps are performance-matched to form a good working team in our total system concepts.

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.

Ergonomic operation

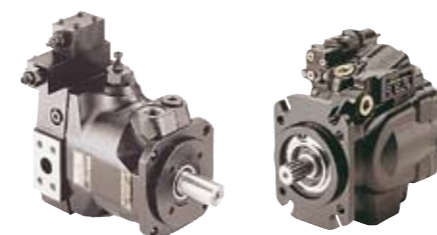
A range of linear and joy-stick levers for pilot control, adapted to the specific demands of excavators, recognized for good manoeuvring capabilities. Options include multi-function handles and mechanical as well as solenoid detents.

Track and wheel drives

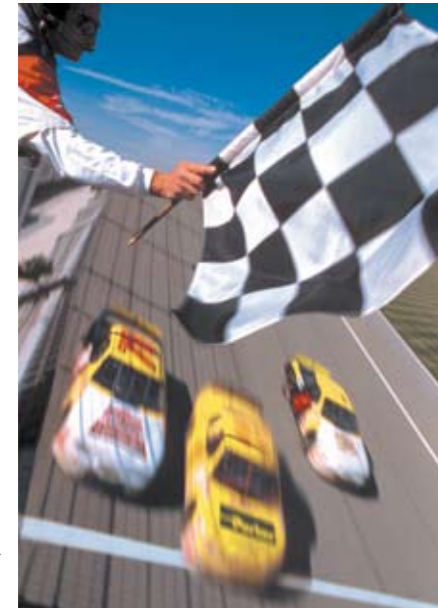
Heavy duty variable displacement motors featuring extensive speed range, small envelope size, high starting torque, 5:1 displacement ratio, optimal efficiency and controls adapted for the application. Frame sizes from 60 to 160 cc/rev.

Super Shockless swing drive

Our highly efficient and robust hydraulic motors in combination with the Super Shockless Relief valves (SSR) featuring an operator-friendly and efficient slew function. Its unique design gives the motor an exceptional volumetric efficiency and speed capability. The F12 series can handle extreme acceleration and retardation and offers great value in simplicity, controllability and productivity.



Quality components are just the beginning



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

As you can see from studying the contents of this folder, there is a Parker product – or several to choose from – for most excavator functions. 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 excavators, on site or at our own dedicated Systems Engineering Center. 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 – advanced solutions with a well-deserved good reputation, perfectly suited for the most demanding applications. This is just one of many ways in which we show our commitment to a truly **Premier Customer Service**.

We're Where You Are... Worldwide!

Parker Hannifin is the world's premier supplier of motion and control systems and solutions, with sales and manufacturing facilities throughout the world. To order products, CDs or additional information:

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

In the USA, call 1-800-CPARKER, e-mail: c-parker@parker.com or visit www.parker.com/hydraulics.

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and solutions for
Excavators**



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



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