Agricultural Machines
Dedicated Products and Solutions
Dedicated products and solutions for Parker – an experienced partner at your service

For many years, Parker Hannifin has been a major supplier of quality components and system solutions to the agricultural machine industry, with manufacturing and engineering facilities around the world, ensuring global aftermarket support.

Parker has dedicated teams of specialists working globally to assist our clients in the design of systems, sub-systems and solutions to meet the most demanding requirements, offering unbeatable global product availability and service.

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 by up to 15 percent, thanks to integrated solutions, unique design features, globally synchronized logistics and services such as Kan-Ban, Kitting and Pre-assembly, which also cut inventories and simplify purchase routines significantly.

For the end-user, benefits such as greater efficiency, reduced down-time and less maintenance contribute to an improved profitability.

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 without programming skills. The system is supported in the field by highly developed service and diagnostic capabilities. With IQAN, you can increase machine performance and reliability!

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 aftermarket purchases and servicing!

[Image of agricultural machinery]
agricultural machines

▼ Proportional load sensing valves for the agricultural industry
Function-optimized valves with dedicated spools for each function, in a range of sizes for system requirements between 50 and 300 l/min pump flow. The flow sharing function harmonizes operation when flow requirement exceeds the available pump flow.

▼ Parker Gear pumps and motors
A wide range of heavy duty gear pumps and motors for long, reliable service life in demanding environments. Integrated functions for priority, brake charging, unloading and other value-added features.

▼ Open centre valves optimized for tractor applications
The spool design is the key to eliminating interference between simultaneously operated functions. Dedicated spools for every function on the tractor makes operation very efficient.

▼ Stay tough on tough jobs
A wide range of customized cylinders with service-friendly designs, cushioning and integrated valve functions. Designed to deliver sustained high performance over a long service life.
**Take control of your transmission**
The new range of transmission control cartridge valve products provides the same moulded solenoid coil technology as before, designed into a single piece construction. The cavity is now a slip-in design to allow easier installation, as well as lowering the price. These new products enable Parker to cover all your transmission control requirements, such as differential locks, PTOs, power shifts, power shuttles, clutch operations, etc.

**Added life by adding Parker Filtration solutions**
Parker Filtration’s innovative product manufacturing and technology extends the life and increases reliability of agricultural machinery and systems. In addition to a wide range of hydraulic filter solutions, fuel filters and reservoir accessories, Parker offers 28,000 ParFit interchange filter elements and advanced fluid condition monitoring with the iCount LaserCM portable particle counter and iCountPD particle detector. A comprehensive range of quality products to cover all your needs.

**True Ground Speed Sensor**
Parker’s True Ground Speed Sensors (TGSS) use a microwave signal and the Doppler effect to measure ground speed accurately for mobile equipment. The TGSS provides a reliable output speed sensor with a rugged enclosure for diverse surface conditions.
Efficient torque generation
Gerotor motors with high efficiency, low speed and high torque, well suited for agricultural applications like conveyor drives, wheel drives, reel drives, etc.

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

ISObus system components
Parker’s ISObus products offer effortless implementation of the ISO 11783 standard for agricultural equipment industry improving system performance and productivity. Parker’s certified ISObus virtual terminal is an interface for operator to control CAN-based vehicle and auxiliary equipments from a central display via a suitable network interconnection unit, regardless of equipment manufacturer. Parker’s implement controller offers an interconnection device, providing a quick and economical way for the implement to communicate with the vehicle using ISObus standard.

Quiet power
Our P1 variable piston pump line is characterized by a compact, lightweight design and high flexibility as well as a wide operating temperature capability and reduced noise emissions. Designed for operating pressures up to 280 bar, it is a perfect fit for a wide variety of applications.
Ergonomic operation
A range of linear and joy-stick levers for pilot control, adapted to the specific demands of agricultural machines and recognized for good manoeuvring capabilities. Options include multi-function handles and mechanical as well as solenoid detents.

Hard working motors
Heavy duty piston, vane and gear motors featuring extensive speed range, small envelope sizes, integrated functions, high starting torque and optimal efficiency. They are frequently used in applications such as flail mowers, air seeder cooling fans, slurry tankers, etc.

Lower noise
The broad range of the latest Parker Denison vane pumps and motors range will allow a good compromise between low noise and pressures up to 300 bar.
Parker advantages in short:
• Global presence
• Outstanding experience
• Dry Technology™
• Full line of filters
• Time-saving kitting and pre-assembly
• Product availability
• Extended warranty

▲ Hard working pumps for direct PTO mounting
400 bar rated pumps, ideal for all sorts of harvesting equipment. The pumps are available with single flow, twin flow or variable flow to suit constant flow as well as load sensing systems.

▲ Compact Hydraulics
Delivering rugged, reliable power, right where it’s needed, free-standing compact power units and actuators are ideal for attachment locks, rake lifts and blade arm positioners.

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▲ Tie it all together
Parker’s extensive line of hoses, fittings, couplings and assembly machines gives you a complete package for efficient and leakfree installations. Parker is a single-source supplier for all important components.

▲ Circuit accessories
All the accessories required for the ever more complex hydraulic circuitry needed for demanding, intelligent hydraulic functions, steering, braking, etc.
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