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aerospace  
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## Forestry Machines

Dedicated Products and Solutions



ENGINEERING YOUR SUCCESS.



# Forestry Machines

Dedicated products and solutions

Parker Hannifin offers an extensive range of components suitable for forestry machines and can assist with an optimal technical solution to obtain the most cost-efficient system. Based on many years of experience from various forestry applications, product development has been focused on helping manufacturers

obtain the best possible performance from their machines. Many of our products have, therefore, been developed in direct co-operation with customers. Parker Hannifin holds a leading position when it comes to product and application knowledge, dedicated to serving the forestry machine



## ► The intelligent way to higher productivity

IQAN is a flexible electronic control system containing all functions for total system solutions. The user-friendly software tools IQANdesign and IQAN-run lets you 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.



## ◀ Open centre valves optimised for timber cranes

The spool design is the key to eliminating interference between simultaneously operated functions. Dedicated spools for every function on the timber crane makes operation very efficient.



market and the forestry industry. We have components such as pumps, cylinders, motors, directional control valves, remote controls, electronic equipment, hoses and fittings, filtration and contamination control products for most of the hydraulic functions on any forestry machine.



## ▲ 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!



## ◀ Measuring devices

Parker's diagnostic equipment can identify hard-to-detect variations in pressure, temperature and flow quickly and easily.



## ◀ Safety First

Piston accumulators store energy, assisting steering and braking and providing a fail-safe source of energy in emergency situations. For high response, low volume applications such as pilot valve operation, compact tamper-proof piston and diaphragm accumulators guarantee long, reliable service life.

## ► Variable displacement motors for saw heads and track drives

420 bar rated variable displacement motors, with the same type of light-weight spherical pistons as our fixed displacement motors. High speed capabilities and 5:1 displacement ratios allow for increased vehicle speed. Displacements from 60 to 160 cc/rev.



## ◀ Proportional load sensing valves for the forest industry

Function-optimized valves with dedicated spools for each function, in three sizes for system requirements between 50 and 500 l/min pump flow. The L90 Power-Floater valve offers integrated, automatic 3-way pressure control for improved timber quality and increased productivity in a single light and compact unit.



## ▼ F12 – the perfect motor for swing drives

A 420 bar rated motor especially well suited for swing drives, saw applications and heavy duty wheel drive applications. Its unique design with spherical pistons results in extraordinary speed capabilities.



## ▼ Quiet power

The range of variable piston pumps for LS systems gives high pressures and high speeds at exceptionally low noise levels, thanks to patented oscillation dampening. Self-priming at exceptionally high speeds and a wide range of frame sizes and controls make this range the obvious choice for modern machine designs. All pumps are performance-matched to form a good working team in our total system concepts.



## ▲ Parker Gear Motors/Pumps

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



## ◀ Bent-axis pumps for direct PTO mounting

400 bar rated pumps for direct PTO mounting, ideal for truck mounted timber crane applications. The pumps are available with single flow, twin flow or variable flow to suit constant flow as well as load sensing systems.



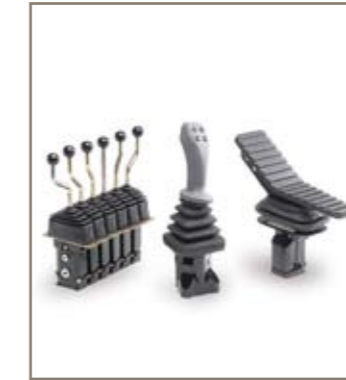
## ► High speed chain saw motors – the new F11-iP

The compact F11-iP motor is the unmatched choice for chain saw drives all over the world. Its unique constant speed technology enables faster cutting with significantly reduced wear, resulting in dramatically improved productivity and timber quality. The patented Intelligent Power technology can add up to 20,000 Euros/year in revenue in a typical forest machine application.



## ▲ Ergonomic operation

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



## ◀ 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.

