



aerospace  
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filtration  
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process control  
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# Forestry Machines

Dedicated Products, Systems and Solutions



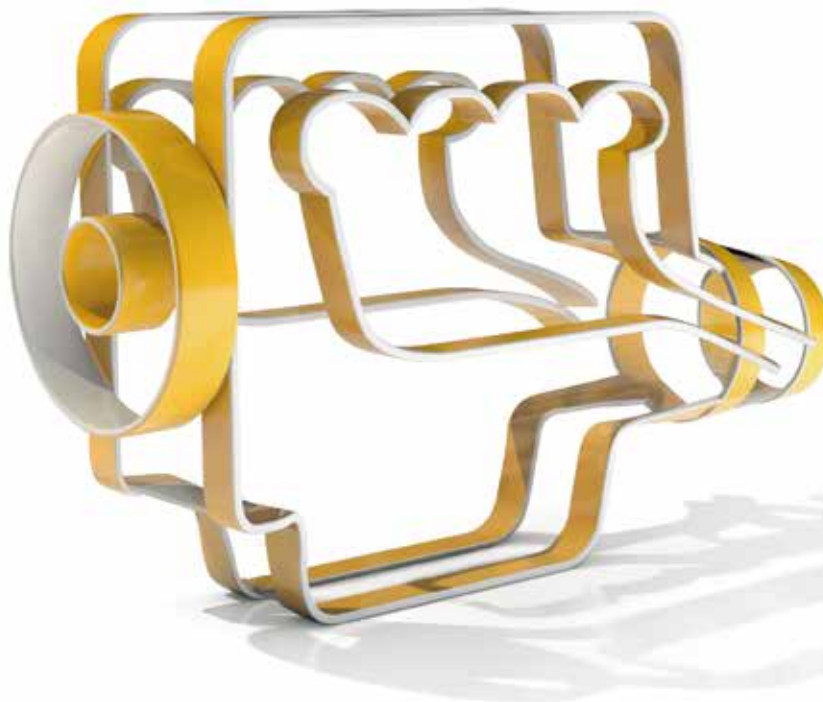
ENGINEERING YOUR SUCCESS.

# Forestry Machine Subsystems

Dedicated products and system solutions by Parker

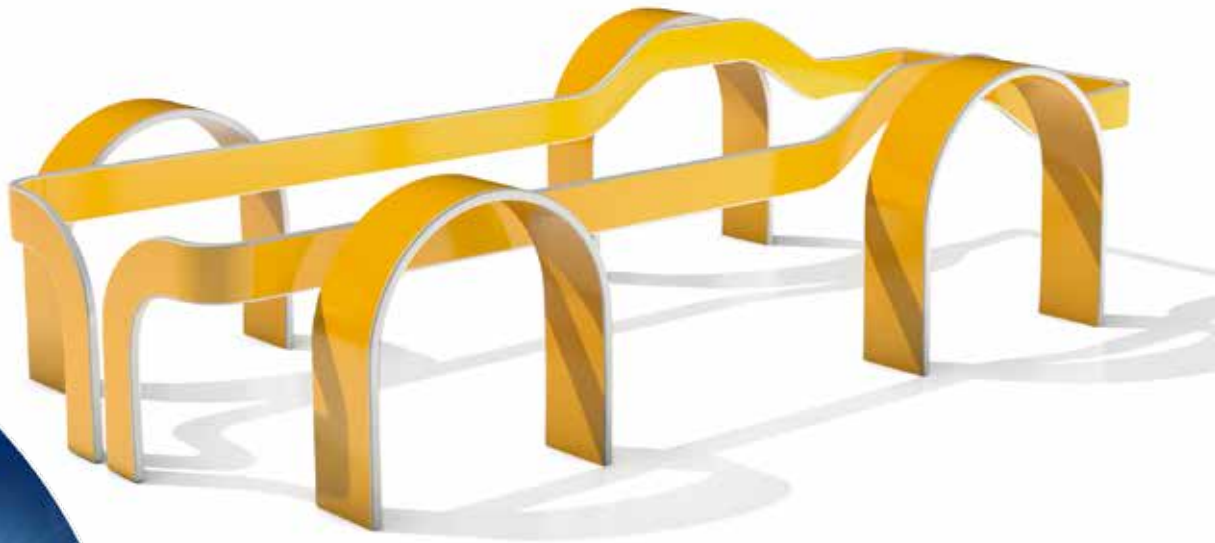


**Cab**



**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 is a flexible electronic control system containing all functions for total system solutions. The user-friendly software tools IQANdesign and IQANrun 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.

MOTOMIT measuring and control systems for forest harvesters divide and optimize the stem with efficiency and accuracy. They comprise robust modules, real time software and compatibility with StanForD and HKS standards.



## 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 forest machines, recognized for good manoeuvring capabilities.

Options include multi-function handles and mechanical as well as solenoid detents.

## Off-road instrumentation

The DPS-C is a general purpose display panel for off-road vehicle instrumentation. There is a standard electronic configuration and standard overlay. The end user can customize the DPS-C with a custom overlay and custom application software.



## 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.



# Chassis Subsystems

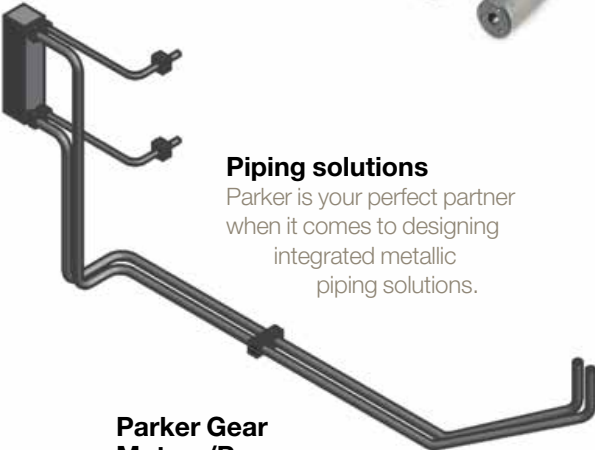


## Integrated functionality

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!

## Store energy

A complete range of CE-approved bladder, diaphragm and piston accumulators maintains high pressure for safe braking, manoeuvring and smooth ride control.



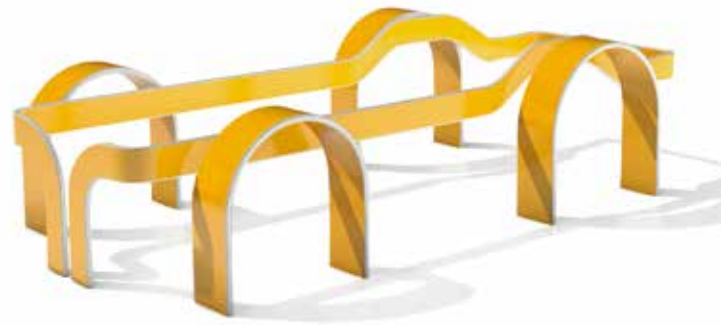
## Piping solutions

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

## 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.

The heavy duty range of variable piston pumps for load sensing systems offers high pressures and speeds at exceptionally low noise levels. This array of products is completed by highly efficient and low noise medium duty pumps.



## Fixed and variable pumps for direct PTO mounting

Pumps rated up to 420 bar 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.



## Pre-formed hoses

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



## Hoses and connectors

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



# Engine Subsystems



## 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 patented filtration products that, combined with our experience, help reduce equipment downtime and minimize life cycle costs.

## Measuring devices

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



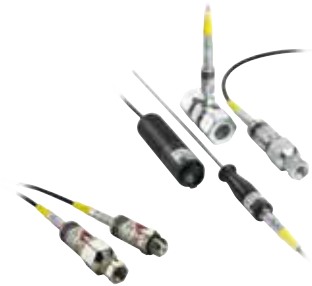
## Crankcase ventilation

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



## Sensors

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



## Cooling systems

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



## Fan drive motors

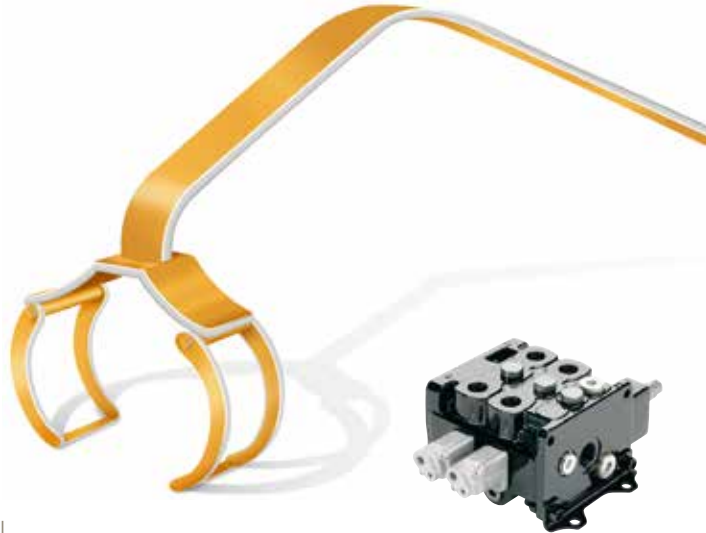
Heavy duty piston, vane and gear motors featuring extensive speed ranges up to 14,000 rpm, small envelope sizes, integrated functions, high starting torque and optimal efficiency for direct fan drives.



# Implements Subsystems

## F12 – the perfect motor for swing drives

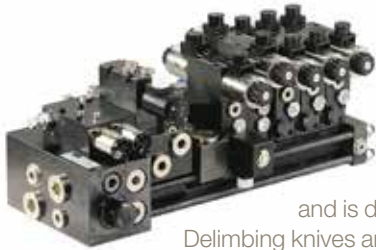
A 420 bar rated motor especially well suited for swing drives, saw applications and heavy duty wheel drive applications. Its unique design with spherical pistons results in extraordinary speed capabilities.



## Harvester head manifold

The harvester head manifold includes all hydraulic functions for a harvester head in a modular design. The proportionally controlled feeding motor section has low pressure loss and is designed for flow rates up to 400 litres per minute.

Delimiting knives and roll arm have proportional pressure control. The saw motor section has a pressure compensated flow control valve to ensure a longer service life for the motor.



## 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.

## High speed chain saw motor – the 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.



## Colour spraying pump

These compact and robust color spraying pumps are widely used in harvester heads. The spool stroke can be adjusted for different paint portions. The spraying pressure is also adjustable.



## 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-Float valve offers integrated, automatic 3-way pressure control for improved timber quality and increased productivity in a single light and compact unit.



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### US Product Information Centre

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