



aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding



Photo: Volvo CE

# Construction Machines

Dedicated Products and Solutions



ENGINEERING YOUR SUCCESS.

# Construction Machine Subsystems

Dedicated products and system solutions by Parker



**Cab**

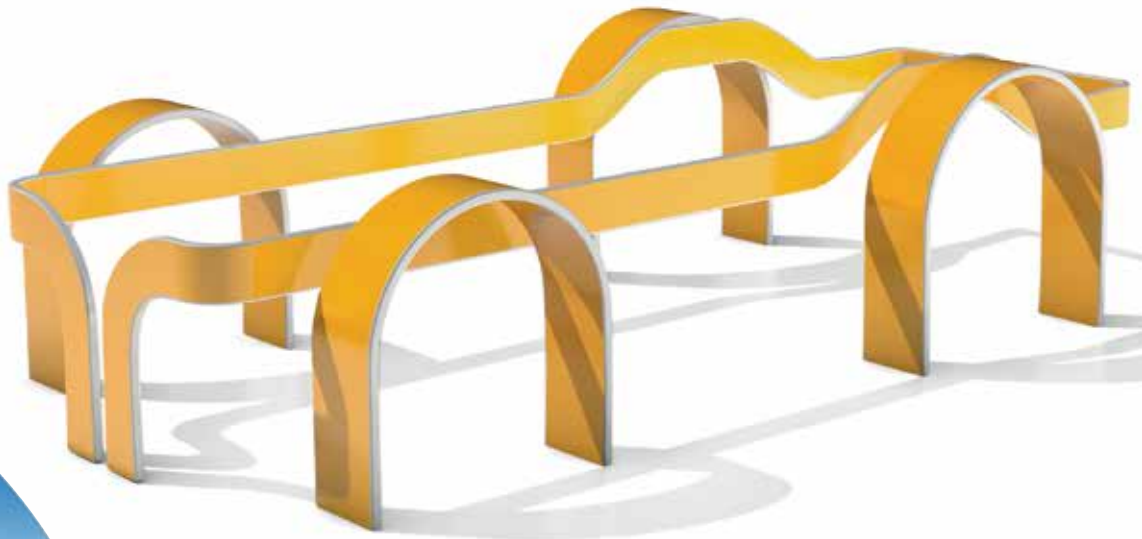


**Engine**



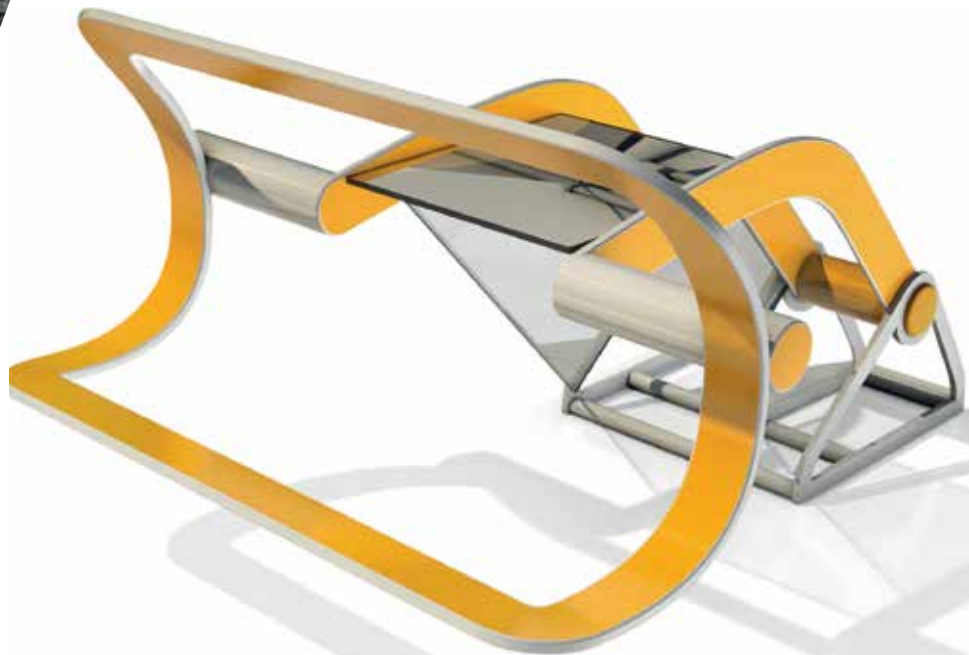


## Chassis



**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



## ◀ 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.

## ▶ 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.



## ▶ All-in-one display panel

DPE70 is a 18 cm (7") weather protected display panel that can be used in either portrait or landscape mode. It has video input, rotary encoder and 7 buttons. Easy mounting with either RAM or panel mount.



## ▼ 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 in a simple way, increasing productivity and cutting costs



## ▶ 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.



## ▼ Electro-Hydraulic Actuator

Compact EHA – Electro-Hydraulic Actuator – provides the power density of hydraulics but is driven from the vehicle's electrical system.

Self-contained, with compact dimensions and two-pin mounting, installation of the Compact EHA is simple, while electrical drive avoids the parasitic losses associated with engine-driven pumps.



## ▼ Ergonomic operation

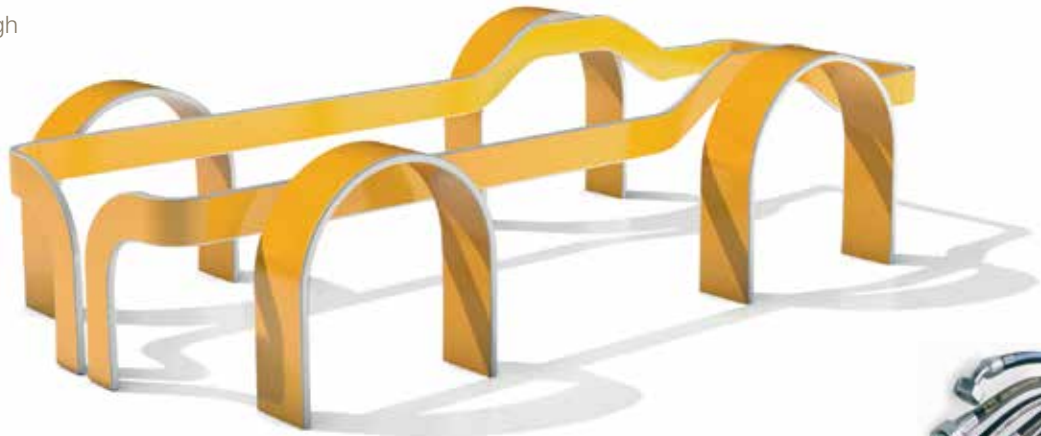
A range of linear and joy-stick levers for pilot control, adapted to the specific demands of construction machines.



# Chassis Subsystems

## ▼ Swing and traction on mini-excavators

High efficiency, low speed and high torque for excavator applications.



## ◀ Track and wheel drives

Heavy duty, compact variable displacement motors featuring extensive speed ranges and controls adapted for the application.



## ▶ Hoses and connectors

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



## ▶ Power Take-Offs

A wide range of heavy duty power take-offs range for gearbox or direct coupling.



## ▶ Store energy

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



## ▼ Hard working pumps for direct PTO mounting

400 bar rated pumps, ideal for all sorts of construction machines. Single, twin or variable flow to suit all systems.



## ◀ Brake pedals

Hydraulic brake pedal with possibility to customise pressure characteristics.



## ◀ Pre-formed hoses

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



## ▶ Take control of your transmission

Parker transmission control cartridge valves offer well-proven technology in a single-piece compact format, covering all your requirements – differential locks, power take-offs, power shifts, power shuttles, clutch operations, etc.

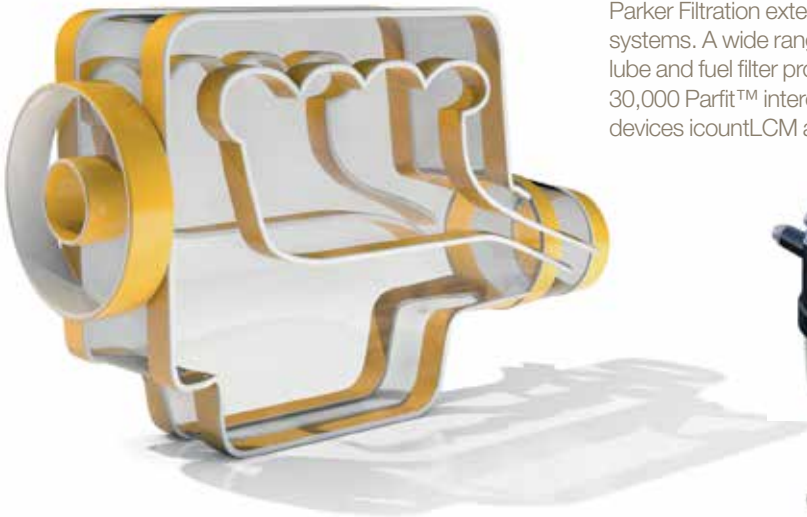




# Engine Subsystems

## ▼ Adding system life by adding Parker Filtration solutions

Parker Filtration extends the life and increases reliability of machinery and systems. A wide range of low, medium and high pressure hydraulic filters, lube and fuel filter products and quality reservoir accessories – plus over 30,000 Parfit™ interchange filter elements and fluid condition monitoring devices icountLCM and icountPD.



## ▼ Hard working motors for fan drives, etc.

Heavy duty, compact piston, vane and gear motors for cooling fans and many other construction machine applications.

## ▼ Sensors

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



## ◀ Cooling systems

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



## ▶ EGR valves

Composite actuator body, resistant to temperature and shock extremes for direct engine mounting.



## ◀ Engine brake

Bio-fuel compatible, compact 2-way valves for engine installation, offering added braking power.

## ▼ Crankcase ventilation

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



## ▶ Connectors

Parker offers fittings that provide leak free solutions. Parker fittings generally connect a hose assembly to a port or adapter and are manufactured to meet or exceed industrial specification requirements of SAE, ISO, DIN, DOT and JIS standards.



# Implement Subsystems

## ▼ Proportional load sensing valves for construction machines

Function-optimized valves for system requirements between 50 and 300 l/min pump flow.



## ► Customized cylinders

Designed to deliver sustained high performance over a long service life.



## ▼ Dedicated LS valves for large wheel loaders

Special solutions for the ultimate wheel loaders allow high speeds without cavitation.



## ◀ Dedicated system solutions for articulated haulers

Pre-assembled, customized system blocks with mobile spool valves optimize functionality and simplify installation.

## ▼ Unlimited flexibility for all excavator sizes

A wide range of valves with function optimized sections, including load sensing and negative flow variants.



## ▼ Open centre valves optimized for construction applications

Dedicated spools for every function makes operation very efficient.



## ▼ Quiet power

A wide range of variable piston and vane pumps to cover every need – compact, lightweight with high performance and excellent efficiency.



## ▼ Super Shockless swing drive

Hydraulic motors in combination with Super Shockless Relief valves – a unique design that offers great value in simplicity, controllability and productivity.



## ▼ Gear motors and pumps

State-of-the-art gear motors and pumps in cast iron or aluminium with high efficiency and low noise levels.



## ► EHP subsystems for fuel-efficient, quiet machines

Parker's Electro-Hydraulic Pump subsystems include directly coupled permanent magnet motor/generators with hydraulic pump/motors. The electric motor is controlled by an intelligent DC/AC inverter enabling energy recovery. EHPs are used for power steering, implement actuators, and additional auxiliary functions.



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### US Product Information Centre

Toll-free number: 1-800-27 27 537

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Your local authorized Parker distributor

