









Construction Machines

Dedicated Products and Solutions





Construction Machine Subsystems

Dedicated products and system solutions by Parker



Cab Subsystems



◆ PHD display family

A cost effective range of touch screen displays developed for mobile applications.

▶ Touch-screen displays





► 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.







▼Pneumatic buttons and control valves

Available with dual pneumatic and electrical output



■ Machine diagnostics

Wireless machine access by using cloud services. Machine diagnostics by smartphone or tablet together with IQAN apps IQANsync and IQANrun.



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



A range of linear and joy-stick levers for The UTS is a dual axis tilt sensor pilot control, adapted to the specific with CAN communication for demands of construction machines. mobile applications.



▼Universal tilt sensor





pumps.

▼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.

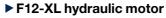


duty power take-offs range for gearbox or direct coupling.



▼ F3 Truck pump

The F3 pump can be engaged and disengaged on the fly - the perfect pump to install on an engine PTO.



A motor with unbeatable efficiency - small envelope size, low noise level and high power-to-weight ratio.



Super Shockless swing drive

Heavy duty motor for demanding applications, offering oustanding reliability and durability.



◄Pre-formed hoses

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

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.

Chassis Subsystems



► Hoses and connectors

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



▼EO3

Innovative fittings system with visual assembly status recognition for tube and hose applications.

► Store energy

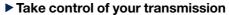
A complete range of CE-approved bladder, diaphragm and piston accumulators maintains high pressure for safe braking, manœuvring and



▼Racor ECO-Vent - DEF Tank Vent Filter

The ECO-Vent Filter prevents contamination from entering the DEF tank. The compact design requires no tools for filter servicing. The patented filter snaps easily into the bracket.

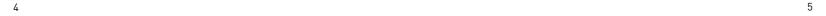












Engine Subsystems



▼ 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.







▼ Hard working motors for fan drives, etc.

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



▼ Sensors

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



Cooling systems

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



Eliminates environmental

pollution from crankcase

emissions and improves

diesel engine reliability.

▼Crankcase

ventilation

► EGR actuator

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



▶ Diesel Emission Fluid (DEF) heating valves

Solenoid operated fluid heating valves suitable for chassis mounting or system integration.



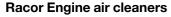


◆ Engine brake

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



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.



ECO-TL heavy duty air cleaners are designed and built to meet the demanding requirements for construction equipment with ease of service and extended element service life.







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 vehicle system manifold solutions

A wide range of variable piston and

vane pumps to cover every need - compact, lightweight with high per-

formance and excellent efficiency.

▼Quiet power

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.



▼Oil cleanliness

The Icount Oil Sampler

(IOS) portable monitoring

tool provides fluid qualification to ISO 4406:1999

standards. The icountPDR

is a robust particle counter

for mobile applications

sensors and

diagnostics

▼Open centre valves optimized for construction applications

makes operation very efficient.





Dedicated spools for every function

▼Gear motors and pumps

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



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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