Construction Machines
Dedicated Products and Solutions
Construction Machine Subsystems
Dedicated products and system solutions by Parker

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
Cab Subsystems

Touch-screen displays
The IQAN-MDX is the latest display in the IQAN design platform. It comes in three versions 5.4", 7" and 10" and touch screen as standard. Weather protected and easy to configure with IQAN programming tool.

PHD display family
A cost-effective range of touch screen displays developed for mobile applications.

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 IQAN design, you can build advanced machine functions in a simple way, increasing productivity and cutting costs.

All-in-one display panel
DPE70 is a 7" (18 cm) 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.

Pneumatic buttons and control valves
Available with dual pneumatic and electrical output signals.

Machine diagnostics
Wireless machine and mobile device access by using cloud services. Machine diagnostics by smartphone or tablet together with IQAN apps IQAN sync and IQAN unit.

Universal tilt sensor
The UTS is a dual axis tilt sensor with CAN communication for mobile applications.

Ergonomic operation
A range of linear and joysticks levers for pilot control, adapted to the specific demands of construction machines.

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.

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.

Power Take-Offs
A wide range of heavy-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.

F12-XL hydraulic motor
A motor with unbeatable efficiency – small envelope size, low noise level and high power-to-weight ratio.

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Super Shock-less swing drive
Heavy-duty motor for demanding applications, offering outstanding reliability and durability.

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.

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.

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.

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Store energy
A complete range of CE-approved bladder, diaphragm and piston accumulators maintaining high pressure for safe braking, maneuvering and smooth ride control.

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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 machine applications.

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.

Diesel Emission Fluid (DEF) heating valves
Solenoid operated fluid heating valves suitable for chassis mounting or system integration.

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

EGR actuator
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.

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.

Racor Engine air cleaners
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.

Open centre valves optimized for construction applications
Dedicated spools for every function makes operation very efficient.

Unlimited flexibility for all excavator sizes
A wide range of valves with function optimized sections, including load sensing and negative flow variants.

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

Oil cleanliness sensors and diagnostics
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.

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

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.

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 Worldwide

Europe, Middle East, Africa
AE – United Arab Emirates, Dubai
Tel: +971 4 8127100
parker.me@parker.com
AT – Austria, Wiener Neustadt
Tel: +43 (0)2622 23501-0
parker.austria@parker.com
AZ – Azerbaijan, Baku
Tel: +994 50 22 33 458
parker.azerbaijan@parker.com
BE/LU – Belgium, Nivelles
Tel: +32 (0)67 280 900
parker.belgium@parker.com
BG – Bulgaria, Sofia
Tel: +359 2 980 1344
parker.bulgaria@parker.com
BY – Belarus, Minsk
Tel: +48 (0)22 573 24 00
parker.poland@parker.com
CH – Switzerland, Etoy
Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com
CZ – Czech Republic, Klecany
Tel: +420 284 083 111
parker.czechrepublic@parker.com
DE – Germany, Kaarst
Tel: +49 (0)2131 4016 0
parker.germany@parker.com
DK – Denmark, Ballerup
Tel: +45 43 56 04 00
parker.denmark@parker.com
ES – Spain, Madrid
Tel: +34 902 330 001
parker.spain@parker.com
FI – Finland, Vantaa
Tel: +358 (0)20 753 2500
parker.fi@parker.com
FR – France, Contamine s/Arve
Tel: +33 (0)4 50 25 80 25
parker.france@parker.com
GR – Greece, Athens
Tel: +30 210 933 6450
parker.greece@parker.com
HU – Hungary, Budaoers
Tel: +36 23 885 470
parker.hu@parker.com
IE – Ireland, Dublin
Tel: +353 (0) 1 466 6370
parker.ie@parker.com
IT – Italy, Corsico (MI)
Tel: +39 02 45 19 21
parker.italy@parker.com
KZ – Kazakhstan, Almaty
Tel: +7 7273 561 000
parker.kazakhstan@parker.com
NL – The Netherlands, Oldenzaal
Tel: +31 (0)541 585 000
parker.nl@parker.com
NO – Norway, Asker
Tel: +47 66 75 34 00
parker.no@parker.com
PT – Portugal, Lisbon
Tel: +351 21 252 34 00
parker.portugal@parker.com
RO – Romania, Bucharest
Tel: +40 21 252 1382
parker.ro@parker.com
RU – Russia, Moscow
Tel: +7 495 645-2156
parker.ru@parker.com
SE – Sweden, Spånga
Tel: +46 (0)8 59 79 50 00
parker.se@parker.com
SK – Slovakia, Banska Bystrica
Tel: +421 484 162 252
parker.sk@parker.com
SL – Slovenia, Novo Mesto
Tel: +386 7 337 6650
parker.slovenia@parker.com
TR – Turkey, Istanbul
Tel: +90 216 4997081
parker.turkey@parker.com
UA – Ukraine, Kiev
Tel: +380 22 573 24 00
parker.ua@parker.com
UK – United Kingdom, Warwick
Tel: +44 (0)1926 317 878
parker.uk@parker.com
ZA – South Africa, Kempton Park
Tel: +27 (0)11 961 0700
parker.za@parker.com

North America
CA – Canada, Milton, Ontario
Tel: +1 905 693 3000
US – USA, Cleveland (industrial)
Tel: +1 216 896 3000
US – USA, Elk Grove Village (mobile)
Tel: +1 847 258 6200

Asia Pacific
AU – Australia, Castle Hill
Tel: +61 (0)2-9634 7777
CN – China, Shanghai
Tel: +86 21 2899 5000
HK – Hong Kong
Tel: +852 2428 8008
ID – Indonesia, Tangerang
Tel: +62 21 7588 1906
IN – India, Mumbai
Tel: +91 22 6513 7081-85
JP – Japan, Fujisawa
Tel: +81 (0)463 3050
KR – South Korea, Seoul
Tel: +82 2 559 0400
MY – Malaysia, Shah Alam
Tel: +60 3 7849 0800
NZ – New Zealand, Auckland
Tel: +64 9 574 1744
SG – Singapore
Tel: +65 6887 6300
TH – Thailand, Bangkok
Tel: +662 186 7000
TW – Taiwan, New Taipei City
Tel: +886 2 2298 8987
VN – Vietnam, Ho Chi Minh City
Tel: +84 8 3999 1600

South America
AR – Argentina, Buenos Aires
Tel: +54 33 54 41 2192
BR – Brazil, Cachoeirinha RS
Tel: +55 51 3470 914
CL – Chile, Santiago
Tel: +56 2 623 1216
MX – Mexico, Toluca
Tel: +52 72 2275 4200

EMEA Product Information Centre
Free phone: 00 800 27 27 5374
(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)
US Product Information Centre
Toll-free number: 1-800-27 27 5374
www.parker.com

Your local authorized Parker distributor