



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



Drill Rigs and Mining

Dedicated products and solutions



ENGINEERING YOUR SUCCESS.

Dedicated products and solutions for drill

Parker – an experienced partner at your service

For many years, Parker Hannifin has been a major supplier of quality components and system solutions to the drill rig and mining equipment industry, with manufacturing and engineering facilities around the world, ensuring global aftermarket support.

Parker has dedicated teams of specialists working globally to assist our clients in the design of systems, sub-systems and solutions to meet

the most demanding requirements, offering unbeatable global product availability and service.

There are several immediate value-adding benefits from utilising our expertise and our advanced technology.

For the manufacturer, time-to-market can be cut by several (very important) months, while production time and cost can be reduced by up to 15 percent,

thanks to integrated solutions, unique design features, globally synchronized logistics and services such as Kanban, Kitting and Pre-assembly, which also cut inventories and simplify purchase routines significantly.

For the end-user, benefits such as greater efficiency, reduced down-time and less maintenance contribute to an improved profitability.



rigs and mining



◀ Ergonomic operation

A range of foot pedals and joy-stick levers for pilot control, adapted to the specific demands of drill rig operation, recognized for good manoeuvring capabilities. Options include multi-function handles, mechanical and solenoid detents, built-in brake release, etc.

▶ Store energy

We offer a complete range of CE approved bladder and piston accumulators which maintain high pressure for safe manoeuvring. Greater system efficiency and reduced pump sizes give longer life, lower costs and an improved operator environment.



▲ Quiet power

Our range of 320 bar variable piston pumps have rigid housings and standard ripple chambers which make the pumps quiet and reduce flow- and pressure pulsations considerably. A high self-priming speed capability and unique port layout make this range of pumps the obvious choice for modern machine designs. Also our medium duty variable piston pump line is characterized by a compact, lightweight design and high flexibility as well as a wide operating temperature capability and reduced noise emissions. A full range of quiet vane pumps for efficient use up to 320 bar max working pressure is also available.



▲ Valves optimized for drill rigs

Directional control valves for open centre systems with features like function optimized spools, low pressure drop and a number of options including manual, hydraulic and electro-hydraulic spool controls.



◀ **Integrated functionality**

Customised 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!

▼ **Motors for fan-, traction-, slew-, water- and mud pump drives, etc.**

Heavy duty fixed and variable piston motors featuring extensive speed ranges up to 14,000 rpm, small envelope sizes, integrated functions, high starting torque etc. for optimal efficiency, perfectly suited for direct fan drives and many other applications. There is a wide range of accessory valves, flushing-, relief- and brake valve blocks, etc. Frame sizes from 5 to 250 cc/rev. for efficient use up to 480 bar.



Photo: Sandvik



▲ 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 30,000 Parfit™ interchange filter elements and advanced fluid condition monitoring with the icountLCM portable particle counter and icountPD particle detector. A comprehensive range of products that combine with Parker experience to help reduce equipment downtime and minimize life cycle costs.

▼ 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.

Parker's **Tough Cover hoses** (TC) combine small bending radii with high flexibility and a highly abrasion-resistant Tough Cover, for applications where mechanical wear is a crucial factor, offering exceptional protection from hose-to-hose or hose-to-object abrasion. All TC hose types are MSHA approved.

Pilot Line Hoses are lightweight and compact for easy installation in typical pilot applications, where space is limited.





Photo: Atlas Copco

▼ **LS valves for drill rigs**

A wide range of load sensing valves, fully pressure compensated. The flexibility is unlimited, such as priority for important functions as well as pressure control on each motor port, etc. Integrated function solutions are available for constant feed force and feed control in relation to torque, etc.



▲ **Stay tough on tough jobs**

A wide range of customized cylinders with service-friendly designs, damping and integrated valve functions. Designed to stay leak-proof during a long service life.

► **Heavy duty gear motors and pumps**

A wide range of heavy duty gear motors and pumps in cast iron or aluminium for long, reliable service life with high efficiency and low noise levels. Integrated functions for priority, brake charging, unloading and other value-added features. State-of-the-art for demanding customers!





Photo: Atlas Copco



►▼ Machine control

IQAN is an electronic, CAN-based system containing all functions required for total system solutions. Built on software modules for power management, transmission control, arm control, brakes, steering, external communication and implements, etc. IQANdevelop and IQANdesign are excellent tools for installation, start-up, diagnostics, fault-finding and other user-friendly functions. IQAN interfaces to generic CAN-buses such as J1939, CAN open, etc.



Parker Worldwide

AE – UAE, Dubai
Tel: +971 4 8127100
parker.me@parker.com

AR – Argentina, Buenos Aires
Tel: +54 3327 44 4129

AT – Austria, Wiener Neustadt
Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt
Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AU – Australia, Castle Hill
Tel: +61 (0)2-9634 7777

AZ – Azerbaijan, Baku
Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles
Tel: +32 (0)67 280 900
parker.belgium@parker.com

BR – Brazil, Cachoeirinha RS
Tel: +55 51 3470 9144

BY – Belarus, Minsk
Tel: +375 17 209 9399
parker.belarus@parker.com

CA – Canada, Milton, Ontario
Tel: +1 905 693 3000

CH – Switzerland, Etoy
Tel: +41 (0) 21 821 02 30
parker.switzerland@parker.com

CL – Chile, Santiago
Tel: +56 2 623 1216

CN – China, Shanghai
Tel: +86 21 2899 5000

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.finland@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

HK – Hong Kong
Tel: +852 2428 8008

HU – Hungary, Budapest
Tel: +36 1 220 4155
parker.hungary@parker.com

IE – Ireland, Dublin
Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IN – India, Mumbai
Tel: +91 22 6513 7081-85

IT – Italy, Corsico (MI)
Tel: +39 02 45 19 21
parker.italy@parker.com

JP – Japan, Fujisawa
Tel: +81 (0)4 6635 3050

KR – South Korea, Seoul
Tel: +82 2 559 0400

KZ – Kazakhstan, Almaty
Tel: +7 7272 505 800
parker.easteurope@parker.com

LV – Latvia, Riga
Tel: +371 6 745 2601
parker.latvia@parker.com

MX – Mexico, Apodaca
Tel: +52 81 8156 6000

MY – Malaysia, Shah Alam
Tel: +60 3 7849 0800

NL – The Netherlands, Oldenzaal
Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Ski
Tel: +47 64 91 10 00
parker.norway@parker.com

NZ – New Zealand, Mt Wellington
Tel: +64 9 574 1744

PL – Poland, Warsaw
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira
Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest
Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow
Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga
Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SG – Singapore
Tel: +65 6887 6300

SK – Slovakia, Banská Bystrica
Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto
Tel: +386 7 337 6650
parker.slovenia@parker.com

TH – Thailand, Bangkok
Tel: +662 717 8140

TR – Turkey, Istanbul
Tel: +90 216 4997081
parker.turkey@parker.com

TW – Taiwan, Taipei
Tel: +886 2 2298 8987

UA – Ukraine, Kiev
Tel: +380 44 494 2731
parker.ukraine@parker.com

UK – United Kingdom, Warwick
Tel: +44 (0)1926 317 878
parker.uk@parker.com

US – USA, Cleveland (industrial)
Tel: +1 216 896 3000

US – USA, Lincolnshire (mobile)
Tel: +1 847 821 1500

VE – Venezuela, Caracas
Tel: +58 212 238 5422

ZA – South Africa, Kempton Park
Tel: +27 (0)11 961 0700
parker.southafrica@parker.com



European Product Information Centre

Free phone: 00 800 27 27 5374
(from AT, BE, CH, CZ, DE, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PT, SE, SK, UK)

US Product Information Centre

Free phone: 1-800-27 27 537
www.parker.com