Product Solutions for the Mining Industry

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

ENGINEERING YOUR SUCCESS.
Product Solutions for the Mining Industry

At Parker Hannifin, we understand the concerns facing our mining customers. We know that safety is your number one priority and have the products and services to ensure your team gets the job done safely. We know that reducing downtime and increasing your throughput are also keys to your success. Whether it’s a single product, sub-assembly or total turnkey system, we have the solution that aligns with your needs. So whether you’re working in a drag line or high wall surface mine, conventional underground or long wall mine, Parker is your first choice to engineer your success. Parker is the world’s leading supplier of hydraulic, pneumatic and electromechanical systems and components. Customers in 48 countries rely on Parker for engineering excellence, world-class manufacturing and outstanding customer service to provide comprehensive application solutions that are second to none.

Let Parker become part of your design team. Whether you need to develop new products, redesign existing applications, or design completely new systems, Parker offers unparalleled engineering expertise. As the leader in the motion and control industry, Parker strives to be our customers’ trusted partner.

These relationships are cultivated by listening closely to our customers and repeatedly providing them with value measured in real dollars: saved time, reduced waste, gained efficiency, expanded output and increased profitability.
Energy
It’s the single largest issue facing today’s global economy. While there are efforts underway around the world to develop alternative sources of energy, coal will remain a primary resource for years to come. The world consumption of coal has increased 30 percent over the last six years. In the future, coal production by countries like China, India and Russia could surpass that of the rest of the world combined. This will continue to fuel the needs for companies to be able to mine coal faster and more efficiently by using larger, more sophisticated equipment. This increase in demand will push miners and their machinery to their limits.

Continuous Miners
Continuous miners account for roughly 45 percent of underground coal production. Primarily used in room and pillar mines, these massive machines can remove coal from the seam at a rate of five tons a minute. Keeping these machines up and running requires motion and control products that are durable, environmentally friendly and readily available. Parker products meet or exceed MSHA and MDG41 industry requirements.

Longwall
Longwall mining accounts for about 50 percent of underground production and has a 60-100 percent coal recovery rate. Parker components and systems can be found on the main shearer, pan line, conveyors and the hydraulic roof supports. From supplicated machine controls to leak-free hoses and fittings, Parker is there to increase productivity and safety.

Surface Mining
Machinery used in surface mining varies widely from the equipment used in underground mining. The types of machinery used in strip, contour, open pit, and mountain top removal mining are similar to those used on typical construction sites around the world. Excavators, loader backhoes, dump trucks and power shovels are all at the heart of the action. Wherever the mine is, Parker is there with the people, products and services needed to address your concerns and keep you up and running.

Rock Drilling
Used primarily for placement of explosives, the rock driller utilizes high impulse vibrations to penetrate hardened materials. Parker provides compatible products for drive trams, drill feed circuits and drill rotate functions as well as jacks, dust collectors, blowers, tower raising cylinders and break out wrenches. Durable Parker products mean less downtime and more productivity.
Parker is offering our mining customers the widest array of solutions and services available. Customers can trust that no one knows surface or underground mining like Parker’s staff of highly qualified application and design engineers, innovation teams and our systems-solutions specialists.

By partnering with Parker, our customers can reduce their number of vendors without compromising integrity. Buying from a single source saves both time and money while enabling easier ordering and faster delivery.

The following pages provide a brief overview of the hydraulic hose and fittings solutions and services that Parker provides the mining industry. Keep in mind that while Parker manufactures over one million products, our focus and commitment to mining is unmatched.

**SteckO® Technologie**

The original SteckO® staple connection system was introduced into the mining industry. The unique design enables the connection of hydraulic components, replacing threads or flange type fittings. Further development of SteckO® into the Super SteckO® range enabled higher working pressures and higher flow rates capabilities. The simple to install SteckO® system allows male and female end terminations to be held together by a U-shaped staple. The male connection part has a groove and a seal. The SteckO® male connection part is then located into the female connection part and is secured by staple in the male groove. The result is a safe connection which is suitable for heavy duty applications and can be (de)mounted easy and quick. The SteckO® system reduces the torsion in the hose to a minimum.
Parker Mining Hoses, Fittings, Adaptors and Accessories

Parker’s mining hoses, fittings and adaptors provide a complete, reliable hydraulic package to connect and support the underground mining equipment. All Parker mining hose products combine international approvals with total system integrity and long service life in hostile conditions. Special coatings and carefully selected materials ensure reliability in corrosive environments.

COALMASTER® Mining Hose and SteckO® Fittings and Adaptors

Coalmaster mining hose with 2- wire braid, 4- and 6- wire spiral constructions is the most comprehensive range available to the mining industry. All hoses have been specially designed to meet requirements of a hazardous and harsh environment. Every hose is built and thoroughly tested to ensure they meet or exceed recognized international mining standards. Along with the well known SteckO fittings and adaptors serving all your underground mining requirements.

The range includes:
- Hoses from 1/4” to 2” I. D., MSHA approved
- Pressures up to 45.0 MPa
- Temperatures from -40 °C to +100 °C
- Fittings in steel an stainless steel

2-wire standard
- CM2H
2-wire Super Tough
- CM2HP
4 spiral 4SP
- CM4SPP
4 spiral 4SH
- CM4SHP
6 spiral R15
- CM6R42

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General Hydraulic Hose

Largest range of MSHA approved 2-wire braided hoses in standard and compact design, as well as 4-and 6 spiral hose with unique crimping technologies, such as No-Skive, Compact Spiral and Parlock. Combined with a complete fitting offer along with all international recognized connections in steel and stainless steel. Endless combinations of customised hose fittings like jump sizes, specific end configurations, specific drop lengths, fittings-tube combinations, customised prototypes and any batch size upwards from a single piece can be realized.

The range includes:
- Hoses from 1/4” to 3” I. D., MSHA approved
- Pressures up to 42.0 MPa
- Temperatures from -40 °C to +125 °C
- Fittings in steel an stainless steel

2 wire braided Tough Cover
- 301TC
- 462TC

4 spiral Tough Cover
- 722TC

4/6 spiral Compact Spiral Tough Cover
- 787TC
- 797TC

4/6 spiral R13/R15 Tough Cover
- R35TC
- R42TC

6 spiral big bore Tough Cover
- R35TC
- RS35TC
Accessories

Parker offers more of what you need to work smarter, faster and better.
Here you will find accessories (Hose Guards and Sleeves) to support your applications.

Hose Whip Restraint

Safety Restraining System for Pressure Hoses
- Prevents whipping of a pressurized hose in the event of the hose separating from its fitting
- The system consists of two parts – a hose collar and a cable assembly

Hose Guards

Armour Guard (AG)
For extreme abrasion or possible damage from the outside, the corrosion-protected steel flat coil sleeve is recommended.

Spring Guards (SG)
protects the hose cover against abrasion and are constructed of steel wire and plated to resist rust.
Hose Sleeves

Fire Sleeves (FS-F)
Parker Firesleeve is a flame resistant sheath that protects the hose from extreme temperature conditions. Firesleeve easily slides over hoses and readily expands over fitting. When fitting the fire sleeve to hose assemblies with reusable or crimped fittings, a fire sleeve clamp must be used.

Certification
- NF F16-101 (10/88)  
  Classification F1/I2
- NF F16-102 (04/92)  
  Classification F1/I2
- STM-S-001 (c) (10/2006)

Partek®
Nylon Protective Sleeve (AS)
Parker's Partek Nylon Protective Sleeving gives you tough hose abrasion protection two ways. First, per the ISO 6945 specification, Partek has a unique tubular weave nylon construction, Partek “AS” is strong enough to withstand greater than 200,000 abrasion cycles without wearing through the fabric at any location.

In addition, this weave also gives an exceptionally smooth interior wall, allowing rubber hose to move freely inside the sleeve. This provides easy installation and prevents any internal abrasion problems. Partek sleeving is available in either black or yellow and in sizes to fit most hydraulic hose. Partek, the quick and easy solution to hose protection in high-abrasion areas.

Minesleeve (DMS)
Parker Minesleeve offers the best abrasion resistance without adding stiffness to hose assemblies and exceeds the MSHA specifications for flame resistance and flame propagation. Burst tests performed according to SAE J343 on hose assemblies covered with Minesleeve (DMS) show an oil spill retention capability of 7 times greater than similar products. Also suitable for bundling small hose assemblies, tubing or wires.

Hose Shield

Hose Shield (HP-B)
Hose protection shields extend hose life by protecting the hose from abrasion that occurs when hose rubs against other hose, metal or concrete. Parker hose shields are resistant to oil, lubricants, gasoline, most solvents and can withstand ambient temperatures from -40 °C to +150 °C. Easily installed and secured by cable ties without disconnecting any hose lines.

- Use with hose from size -4 up to size -32
- Eliminate hose abrasion on concrete, metal or any rough surface
- Guard against hose deterioration on mobile hydraulic equipment
- Let Parker fill all your hydraulic and pneumatic hose product needs
Improving the Work Place and Saving Energy

Parker is fully engaged in finding ways for the mining industry to increase productivity and profitability and also totally committed to improving the work environment and reducing energy costs.

Parker products are designed and manufactured to prevent fluid leaks, reduce noise and heat, improve fluid cleanliness and condition and remove inert dangerous mine gases.

Parker’s fan drive technology consistently delivers increased engine performance with significant reductions in fuel usage.

When you need a partner to supply machine productivity and safety along with products that enhance work environments and save energy, Parker should be your first and only choice.
Parkrimp® No-Skive System
for fast and leak-free assemblies

The Parkrimp No-Skive system consists of integrated ranges of hose, fittings and assembling equipment and know-how, all of which are:
• Designed and developed together
• Tested and approved together
• Produced and supplied together

In this way Parker also meets the requirements of SAE J1273 and ISO 17165-2, which pay particular attention to matching the hose with the fittings and to their compatibility proven by the manufacturer.

This way Parker can guarantee:
• The highest quality and safety and the longest service life of the final product - to the end users, and at the same time
• The easiest, most efficient and safe production process - to the assemblers.

Parkrimp No-Skive means:
• No skiving tool needed
• No need to remove the cover
• Crimps one-piece fittings
• Parkalign positions the fittings in the dies perfectly every time
• Quick and easy: no gauges to set on the machine
• Portable machines for field repair
• Meets EN safety regulations

The perfect match

The complete system from one source. No-Skive hose, No-Skive fitting and crimping machine with world-wide guarantee and availability.

Parker's colour-coded die sets

No loose parts to mismatch or misplace – die set segments linked together.
Die sets provide 360° evenly applied crimping forces for an ideal crimp result.

Parkalign®

Parker’s exclusive Parkalign® positions the fitting in the dies perfectly every time.
Understanding that breakdowns can be frustrating and costly, Parker developed PTS to help deliver outstanding service when you need it most.

- Unique hose assembly documentation and replacement program
- Increasing the speed, timing and accuracy of your next hydraulic hose replacement
- Tags can contain custom data or replacement options that users can personalize
- PTS ID numbers are unique to every hose, so replacements are always easy and exact
- Bar codes speed product identification

By including a PTS tag on your next hose assembly, you receive your new part:

- **Fast:** Purchase your replacement and have it on-hand before removing the old one
- **Easy:** Replacement by phone or through our PTS Mobile app (launching in 2013)
- **Exact:** Your replacement assembly is made using only the PTS ID on the label. No need to bring your old hose assembly

**Save valuable time**

Visit our site often. It’s the fastest and easiest way to keep up with changing technology and our ever expanding product offering.

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Parker® HoseFinder
Bring the power of Parker to the palm of your hand.

Parker delivers a customer service option to help you work smarter, faster and better.

The mobile app makes it fast and convenient to search for hydraulic hose products and information on the go.

The app features the STAMP selection process to help you find what you need quickly and easily.

Download yours today at [www.hosefinder.com](http://www.hosefinder.com)

Whatever you do, visit our site often. It’s the fastest and easiest way to keep up with changing technology and our ever expanding product offering.

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1 **Browse it.** It’s easy to use.
2 **STAMP it.** Use the STAMP search or browse the catalog to find the product you are looking for.
3 **Search it.** Results include all the details you need to make an informed decision.
4 **Find it.** Choose the “Find It” link and you’ll be directed to one of Parker’s 12,000 worldwide distributor locations.

**Save valuable time**

HoseFinder is currently available for iPhone®, Blackberry® and Android™ mobile phones... and at no charge.
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