

Seals & Components Built for Extreme Mining Conditions



Common Applications

- Drilling Equipment
- Excavators and Earthmovers
- Highwall Miners
- Crushing Equipment
- Continuous Boring Miners
- Underground Vehicles
- Tunneling Machines
- Pumps & Valves
- Centrifuge
- Mining Conveyors & Screens
- Mixers and Agitators

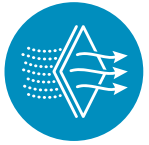
Common Products

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| <ul style="list-style-type: none">• O-Rings• Rotary Seals• Hydraulic & Pneumatic Seals• Vee Packing Sets• Mechanical Face Seals• Heavy Duty Oil & Axle Seals• Seal Kits• Mechanical Seals• Braided Packing | <ul style="list-style-type: none">• Pipe Flange Gaskets• Spiral Wound Gaskets• Bearings & Bearing Rollers• FRP Bearings• Rock Bit Balls• Hi-Tech Seals Blue Balls• Tricone Head Grease Seals• WolCar Carbide Cutting Teeth• Guide Wheels | <ul style="list-style-type: none">• Jumbo Drill Parts• Floatation Wear Parts• Dart Plugs• Cone Liner• Cast Urethane Products• Extruded Profiles• Custom Moulded Products |
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Sealing and Components Solutions Experts

For any mining operation, including gold, nickel, copper, cobalt, zinc, platinum group of metals, uranium, and potash, equipment durability and reliability are key to minimizing downtime. Given the harsh conditions faced by mining equipment, choosing the right sealing solution is crucial.

Sealing Mining's Toughest Challenges



Dust & Dirt Contamination: In rugged conditions, our seals not only extend equipment service life and reduce wear but also effectively retain lubrication and prevent contaminants from entering.



Abrasive Slurries: Mining often involves abrasive slurries that wear down seals. Our products are engineered from abrasion-resistant materials to enhance seal durability and longevity.



High-Pressure Environments: Hydraulic system equipment are subject to high pressures. Our seals are engineered to withstand these challenges, minimizing the risks of leaks and potential equipment failures.



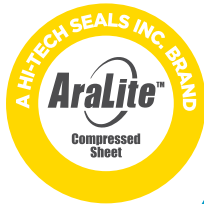
Extreme Temperatures: We offer a range of materials suitable for extreme temperature fluctuations while optimizing sealing properties and performance requirements.



Aggressive Chemicals & Fluid: Our offering includes seals and materials resistant to chemicals and media present in mining processes, ensuring the longevity of both equipment and seals.

Materials

Our team can assist in selecting the ideal material solution to meet and exceed application requirements. We offer materials such as Nitrile, Hydrogenated Nitrile, Viton™/Fluorocarbon, PTFE, and Silicone, along with our high-performance brand materials, including:



With over three decades of expertise, Hi-Tech Seals delivers superior seals and components that enhance equipment life and performance while promoting safety across all mining production stages, from extraction, milling, grinding, separation, refining, and dewatering.



Vibration & Mechanical Stress: Mining equipment experiences continuous vibration and mechanical stress. To optimize performance, our vibration-dampening components are engineered to reduce transmission and handle dynamic forces effectively.



Equipment Movement & Misalignment: To address the alignment changes equipment experiences during transportation, operation, and maintenance, we offer products that help accommodate these movements and prevent misalignment, ensuring a proper seal is maintained.



Long Maintenance Intervals & Operational Hours: Mining equipment, often located in remote areas, are prone to experiencing lengthy maintenance and downtime. We partner with customers to optimize seal and material selection, increasing operational longevity and extending the time between routine maintenance cycles.

Services

Our diverse in-house services leverage advanced equipment and techniques to deliver precision-engineered solutions. Backed by a team of experts, we provide efficient and custom solutions tailored to meet a wide range of customer demands.

- Rapid Seal
- Rapid Gasket
- Cast Urethane Production
- Kit Creation Program
- Splice & Vulcanizing
- Laser Engraving
- PTFE Colour Coating
- Engineering & Drafting

For more information about our products, materials, and services, please contact your local technical sales representative.



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