



Regal Rexnord™ Solutions for Mining





REGAL REXNORD™ SOLUTIONS FOR MINING

Extreme mining around the world deserve the toughest solutions, reliable service, and regional support. Regal Rexnord has over 125 years of experience customizing the perfect power transmission solutions for Battery Haulers (1), Electric Rope Shovels & Draglines (2), Haul Trucks & Wheel Loaders (3), Conveyors (4), Mine Hoists (5), Grinding Mills (6), and Slurry Pumps (7), and other mining applications. Our proven and reliable products and Powertrain Solutions prevent equipment downtime, and increase productivity, keeping your extraction, transportation, and processing operations safe, efficient, and profitable.



Regal Rexnord™ Lead Products	Battery Haulers	Electric Rope Shovels & Draglines	Haul Trucks & Wheel Loaders	Conveyors	Mine Hoists	Grinding Mills	Slurry Pumps
	1	2	3	4	5	6	7
BACKSTOPS							
Falk™, Formsprag™, Marland™ & Stieber™ Backstops				●			
BEARINGS							
Link-Belt™ Cylindrical Roller Bearings		●	●				●
Link-Belt, Rex™ Sealmaster™ Mounted Bearings				●	●	●	●
Rollway™ Unmounted Bearings		●	●	●	●	●	●
BELT DRIVES							
TB Wood's™ & Browning™ Belt Drives				●			●
BRAKES							
Industrial Clutch™ & Wichita Clutch™ Multi-Plate Brakes		●					
Stromag™ & Svendborg™ Thruster Brakes				●			
Svendborg Brakes & Twiflex™ Caliper Brakes		●		●	●	●	
SOBO™ iQ Control System		●		●	●	●	
CHAINS							
Link-Belt Roller Chains				●			
Rex Engineered Drive Chains		●	●			●	
Rex Welded Chains				●			
RexPro Engineered Steel Chains				●			
CLUTCHES							
Bibby™ and Autogard™ Torque Limiters						●	
Wichita Grinding Mill Clutches						●	
COUPLINGS							
CENTAFLEX Torsionally Soft Couplings			●				●
Falk Lifelign Gear Couplings		●		●	●	●	●
Falk Steelflex Grid Couplings				●	●	●	●
Falk TrueTorque Fluid Couplings				●			
Guardian™ FBA / FL Series Coupling			●				
Jaure™ MT Gear Coupling (EU only)		●		●	●	●	●
Rexnord™ Omega & Viva Elastomeric Couplings				●	●	●	●
TB Wood's™ Sure-Flex Plus Elastomeric Couplings							●
Tollok™ Locking Devices				●			●
GEAR							
Custom Gearing	●	●	●				
Bauer™ BF-Series Shaft Mounted Geared Motors				●	●		●
Bauer BG-Series Helical Geared Motors				●	●		
Bauer BK-Series Bevel Geared Motors					●		
Falk UltraMax™ Concentric Gear Drive		●				●	●
Falk Ultramite Gear Drives							
Falk V-Class™ Gear Drives		●		●	●	●	●
Rexnord™ Planetgear™				●			
OTHER COMPONENTS							
Rex™ Idlers				●			
Stromag Limit Switches					●		
SERVICES							
Engineering, commissioning, troubleshooting, & repair	●	●	●	●	●	●	●
Perceptiv™	●	●	●	●	●	●	●



OUR DURABLE SOLUTIONS ARE
BUILT TO WITHSTAND THE
EXTREME ENVIRONMENTS OF THE
MINING INDUSTRY

REGAL REXNORD™ SOLUTIONS FOR MINING

Proven reliability, dependable expertise, and broad range of options including:

BACKSTOPS



**Falk™ NRT
Backstops**

Operations rely on Falk for instant-response, no slip backstops. External backstops provide more system holding power than any other backstop and increase the safety and reliability of your equipment by preventing reverse rotation. NRT's long life designs, ability to engineer and manufacture complete, integrated drive packages, and as the only backstops that are fully load tested on the market, assures that you get an ideal system for your needs whether it's a single, tandem, or multiple backstop configuration.

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**Formsprag™ LLH
Low Speed
Backstops**

Formsprag Long Life Holdbacks are expertly designed to 'hold back' reverse torque. The sprag design offers reliable roll back protection for equipment such as inclined belt conveyors and bucket elevators, where preventing reverse rotation is crucial. These holdbacks accommodate a torque range of 300 to 700,000 lb.ft and a speed range from 0 to 2,900 RPM.

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**Formsprag FS-20
and FS-50 Series
Backstops**

Formsprag FS-20 and FS-50 backstops prevent reverse rotation on conveyor systems. Instead of a standalone backstop, this is a highspeed backstop integrated internally into a gearbox. This assembly is particularly advantageous in gear reducers where the backstop can be incorporated into a bearing bore and an extension of an existing shaft can be used for an inner race.

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**Marland™ Clutch
BC Backstops**

Marland Clutch BC backstops are extremely reliable roller style, bearing-supported backstops that provide positive protection against potentially dangerous and damaging reverse torque runaways of inclined conveyors. Self-contained, oil-lubricated BC models are built to operate in dusty, extreme temperature mine and quarry environments.

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**Stieber™ RDBK
High Speed
Backstops**

For mining operations requiring reliable conveyor systems, the Stieber RDBK presents an ideal solution with its centrifugally lift-off sprag RSCI high-speed backstop. Its integrated torque limiter, customizable to your specific needs, ensures consistent performance and safety, while the optional manual release function provides flexibility for easy maintenance and adjustments.

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BEARINGS



**Rex™ & Link-Belt™
Mounted Spherical
Roller Bearings**

Rex & Link-Belt spherical bearings are highly customizable and high-performance; they are available in a wide array of sizes, sealing options, shaft locking mechanisms, and end caps to provide the right bearing for your application. Ask about the SHURLOK™ bearing, which features solid housing and patented tapered adapter design to ensure fast and easy installation and removal.

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**Sealmaster™
Mounted Tapered
Bearings**

Sealmaster tapered bearings feature split cast-iron housings and unique features for better sealing performance + improved lubrication, with a long-standing reputation for increasing application uptime.

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**Link-Belt™ &
Sealmaster™
Mounted Ball
Bearing**

Link-Belt & Sealmaster ball bearings are available in a wide variety of shaft sizes, shaft mounting styles, sealing options, and housing styles to meet all your ball bearing needs. SealMaster Gold™ bearings are part of a unique system with features that work together to retain grease and help keep out contamination, including felt labyrinth seal with protective metal flinger that directs contamination away from sealing surfaces.

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**Link-Belt
& Rollway
Cylindrical
Roller Bearing**

Link-Belt & Rollway cylindrical roller bearings are ready to meet your needs. We offer standard cylindrical roller bearing sizes and styles, as well as custom bearings. Complete with case carburized bearing quality steel and complex geometries, our bearings are designed to consistently perform in demanding situations.

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**Rollway™
Unmounted
Bearing**

Rollway bearings offer a complete line of cost-effective unmounted bearings available in a wide range of sizes, cages, and bearing types. Explore the spherical bearings, deep groove ball bearings, tapered roller bearings, and more.

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REGAL REXNORD™ SOLUTIONS FOR MINING

BELTS & SHEAVES



TB Wood's™ Sheaves and Bushings

Industry-leading TB Wood's sheaves and bushings have become a preferred choice for many mining equipment OEMs and end users. Rugged and made-to-order sheaves from TB Wood's are designed to provide long service life in a variety of tough applications.

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Browning™ Sheaves, Belts, and Bushings

Browning Classical Wrapped v-belts are specifically designed for the toughest industrial applications. The Browning Gripbelt design uses exclusive v-belt design and performance technology. When superior product performance and long-life matters, choose Browning Gripbelts.

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BRAKES



Industrial Clutch™ LKB Multi-Plate Brakes

Industrial Clutch LKB brakes are designed for heavy-duty mining applications, including rope shovels and draglines, and offer exceptional stopping and holding capabilities through their multi-plate design. These brakes are activated by pneumatic or hydraulic control, ensuring quick and reliable response, which is essential for the safety and efficiency of large-scale mining operations where precise control over powerful machinery is paramount.

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Stromag™ Thruster Disc Brakes

Stromag safety brakes are spring-applied and released with electrohydraulic thruster to provide safe and reliable braking with heavy actuations. They are equipped with an automatic wear compensation, ensuring a constant torque whatever the wear of the lining pads.

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Svendborg Brakes™ Thruster Brakes

Svendborg thruster disc and drum brakes offer unparalleled control and safety. Designed specifically for conveyors and stacker/reclaimers, our advanced braking technology ensures smooth and efficient operation, minimizing downtime and maximizing productivity for the most demanding mining environments.

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Svendborg Brakes Hydraulic Caliper Brakes

Svendborg Brakes SOBO™ iQ controlled braking is often utilized in conveyor applications with hydraulic failsafe brakes where consistent stopping times or distances are desired enabling less wear and tear on equipment. The SOBO™ iQ provides a soft and predictable braking sequence and is often utilized in conjunction with variable frequency drives in conveyors. These brakes are also used in grinding mill and mine hoist applications.

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Twiflex™ Lever-Type Brakes

For the demanding conditions in mining operations, the Twiflex GMR series disc brake calipers stand out for their exceptional adaptability and efficiency. These calipers are ideal for draglines and electric rope shovels and are compatible with discs ranging in thickness from 25.4mm to 40mm. Designed for robustness, these calipers can be mounted at various angles to ensure optimal performance. They also come equipped with additional features, such as an inclined mounting kit for vertical mounting such as mine hoists. This versatility guarantees reliable braking power in even the most demanding environments.

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Twiflex Hydraulic Caliper Brakes

Twiflex provides a range of spring applied hydraulically or pneumatically released caliper brakes for use on a variety of mining applications including mine hoists, overland conveyors, draglines and electric rope shovels. In static operation, the brakes are used to lock the drive in position. In dynamic operation, the brakes are used to provide an emergency stop or provide an inching / creeping function in the event of lubrication and / or power failure.

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REGAL REXNORD™ SOLUTIONS FOR MINING

CHAIN



**RexPro™
Engineered
Steel Chain**

Rex™ engineered class industrial chain is designed and manufactured to be the longest wearing chains in the most demanding of applications. The end result are products which provide our customers with increased productivity, reliable & continuous operation, reduced replacement costs, and less manufacturing downtime. RexPro is the latest introduction: the safer, faster, and easier to assemble bucket elevator chain.

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**Rex™
Welded
Steel Chain**

Rex welded steel chain are the material handling industry's choice for the most demanding applications. Our years of experience provide unique expertise in material selection, heat treatment, and chain design for improved chain strength and long wear life, enabling superior value and greater productivity.

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**Link-Belt™
Roller Chain**

Link-Belt Roller Chain is an established brand name in the market. The chain fulfills ISO and ANSI quality standards and is ideal for light, medium, and heavy duty applications. Link-Belt roller chains are automatically assembled, prelubricated, and factory pre-loaded resulting in: tight tolerances and uniformity, consistent quality, ease of installation and alignment, eliminated need for lubrication during installation, and longer shelf life.

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CLUTCHES



**Autogard™ Torque
Limiters**

Autogard torque limiters play a crucial role in mining applications involving grinding mills and conveyors by protecting equipment from overloads and sudden torque spikes, which can lead to costly downtime, equipment damage, and safety hazards. Models have been designed using a modular principle to accommodate high-torque, high and low-speed applications with the flexibility to accommodate a wide range of torque requirements.

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**Bibby™ Turboflex
Torque Limiters**

Bibby Turboflex torque limiters are essential safety components in mining machinery, designed to protect equipment from overload by disengaging the drive when torque exceeds a preset level. Our torque limiters not only prevent mechanical failures and reduce downtime but also ensure the safety of operations, crucial in the challenging conditions of the mining environment.

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**Wichita™ Grinding
Mill Clutches**

Wichita grinding mill clutches are specially designed to provide quick, smooth starts with limited current surge for heavy duty grinding mills. Special features include elimination of high HP motors, high heat dissipation for jogging and inching, high coefficient, and high energy friction material.

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COUPLINGS



**CENTAFLEX
Torsionally Soft
Couplings**

CENTAFLEX torsionally soft couplings use an elastomeric element to reduce harmful torque impulses. Our torsionally soft couplings increase shock absorption and damp vibration, making for lower noise levels and increased operator comfort during use.

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**Falk™ Steelflex
Grid Couplings**

Known for durability in critical applications, Falk Steelflex grid couplings combine the economy and high torque capacity of a gear coupling with the torsional flexibility and low maintenance of a disc or elastomeric coupling.

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**Falk Lifelign Gear
Couplings**

The Falk Lifelign gear couplings' triple-crowned teeth are crowned on the root, tip, and face to articulate freely and minimize wear caused by misalignment. By eliminating tip-loading while reducing backlash and radial clearances, Lifelign's triple-crown teeth can help protect equipment from damaging loads.

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Guardian™ FBA / FL Series Coupling

The FBA coupling is a one piece, all steel drive coupling intended to be used with spline shafts only in hydraulic pump applications. The FL is a two-piece flywheel coupling used on off-high-way construction equipment such as skid steer loaders, aerial lifts, excavators, and many other mobile hydraulic applications.

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Jaure™ MT Series Gear Couplings (Europe Only)

The Jaure™ MT gear coupling is a steel double-joint coupling with a main function of transmitting torque while accommodating the misalignment between two shafts through sliding of the mating gears.

[Learn More](#)



Rexnord™ Omega™ Elastomeric Couplings

Rexnord Omega elastomeric couplings are non-lubricated, material-flexing split-in-half tire couplings, which are used in a variety of demanding applications in many industries. This all-purpose coupling has excellent vibration damping capability helping to provide extended life to connected equipment. This coupling offers easy installation and a wide range of shaft gaps.

[Learn More](#)



TB Wood's™ Sure-Flex Plus Elastomeric Couplings

Sure-Flex Plus™ EPDM and Neoprene sleeves feature four-way flexing action that absorbs virtually all types of shock, misalignment, and end float. With Sure-Flex Plus couplings, the need for lubrication and maintenance is eliminated. As a result, these couplings provide clean, dependable, and quiet performance.

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Falk™ True Torque Fluid Couplings

The True Torque system uses a mechanical release mechanism that disengages the coupling when the torque limit is exceeded, preventing damage to the equipment and minimizing downtime. The Falk True Torque coupling is a reliable and cost-effective solution for protecting valuable equipment from damage caused by torque overload.

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GEARING



Custom Gearing

Our full service engineering design team has the experience needed to provide custom gearboxes that can meet stringent requirements for nearly any application. New designs can be quickly quoted, prototyped and tested in our state of the art test labs.

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Bauer™ BF Series Shaft Mounted Geared Motor

Shaft-mounted geared motors with integrated torque arm are easily integrated and economically applied, the BF Series shaft mounted geared motor includes unparalleled standard features including hollow shafts in the smallest sizes.

[Learn More](#)



Bauer BG Series Helical Geared Motor

The Bauer BG gear motor offers total flexibility in mounting options includes shaft, base, face, and flange solutions. The motor terminal box can be mounted in alternative positions rotated in 90° steps around the motor frame providing for unparalleled integration possibilities.

[Learn More](#)



Bauer BK Series Bevel Geared Motor

The BK Series geared motor sets new standards for reliability, efficiency and economy and includes unparalleled standard features including hollow shafts in the smallest sizes. An inverter friendly design provides for easy integration now and a truly future proof solution.

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Falk UltraMax Concentric Gear Drive

Reduces environmental impact with less noise, heat, and vibration. Designed for durability, long life, and superior load carrying capacities for optimal performance. Ensures easy maintenance with grease-purgeable seal cavities at all seal locations, and an easily accessible access cover. 10 unit sizes, up to 600,000 lb-in (68 kNm) torque.

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REGAL REXNORD™ SOLUTIONS FOR MINING

	Falk™ Ultramite Gear Drives	Falk Ultramite inline and right-angle gear drives are built for longer service life. An integral high-speed pinion is fully supported by bearings within the gearbox, not by motor bearings, while dual lip seals prevent contamination. Ultramite is motor-independent allowing the use of standard NEMA C-face or IEC motors. This design offers easy installation and allows for quick, trouble-free change out, even after years of hard, continuous use. Multiple mounting positions are available.	Learn More
	Falk V-Class Gear Drives	Built to handle the heaviest loads while delivering smooth torque transmission. Saves time and money by reducing maintenance and repair time with a horizontally split housing design. Lowers your total cost of ownership with standard Magnum seals and cooling fins designed to extend the life of your gearbox. 29 units sizes, up to 3M lb-in (340 kNm) torque.	Learn More
	Rexnord™ Planetgear	Rexnord Planetgear inline gear drives are made with state-of-the-art materials and processes that provide hardened, wear-resistant gearing that handles the heavy-duty demands of mining applications. Tapered roller bearings and a self-aligning gear train ensure that Planetgear can withstand high shock loads and provide high overhung and thrust load capacity. Taconite duty-rated seals prevent downtime caused by contamination. When changing wear items is required, Planetgear makes it easy with an internal backstop and standard sub-assemblies for fast gear ratio changes in the field; no bearing adjustments required.	Learn More
OTHER COMPONENTS			
	Rex™ Idlers and Components	Rex offers a wide range of bulk handling components to meet your application requirements. Whether you need idlers, rollers, or sprockets, we have the parts to optimize your material handling processes. Our industry expertise and dedication to quality design standards ensure maximum reliability, extended system life and increased uptime.	Learn More
	Stromag™ Limit Switches	Limit switches are installed on the mine hoists as safety devices that set a precise travel range. The switches ensure the safe stopping of the cable, thereby promoting safety and preventing potential load and rig damage.	Learn More
SERVICES			
	Industrial Services, Repair, and Refurbishment	Regal Rexnord offers services to help keep your critical mining equipment functioning properly. From project planning and design for optimization, to installation and commissioning, field system experts are ready to support your operation.	Learn More
	Perceptiv™ Condition Based Monitoring Systems	Already running, or looking to enhance operations? Field system experts can aid in scheduled or unscheduled maintenance, repair, refurbishment, and recertification. On-site gap analysis and training can provide tangible opportunities for process improvement, while digital monitoring and testing can help show real time data of critical operating parts to help you save money and reduce unexpected downtime.	Learn More

Note:

This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.



We create a **better tomorrow**
with sustainable solutions that power,
transmit, and control motion.



Regal Rexnord™ Solutions for Mining



Regal Rexnord

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regalrexnord.com

The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <https://www.regalrexnord.com/Application-Considerations>.

To view our Standard Terms and Conditions of Sale, please visit <https://www.regalrexnord.com/Terms-and-Conditions-of-Sale> (which may redirect to other website locations based on product family).

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