

# Power Transmission Products & Solutions for Potash Mining



# Choose Rexnord to help you deliver tomorrow's potash today.

From specification and installation to field monitoring and service, Rexnord helps maximize your uptime, productivity and profit. Keep your mine producing with our high-quality, mission-critical products.





### **Mining expertise.**

Work with a true partner who understands your applications, specifies the right equipment and adds value at every step. Rexnord has kept materials moving through mining operations for more than a century. Whether in an underground mine or surface operation — mine operators, equipment manufacturers and consulting engineers turn to Rexnord for their power transmission solutions.

### **Rexnord is with you every step of the way.**

From specification and installation to testing, monitoring, repair and overhauls, Rexnord provides outstanding lead times and customer service. Count on our superior product quality, on-the-spot field service and industry-leading technical support to prevent costly maintenance, repairs and shutdowns, maximizing your return over the product's total lifecycle. With sales and service operations in mining regions worldwide, and a vast network of distributor relationships, we deliver exactly what you need, when you need it.

### **Rexnord products, Rexnord reliability.**

Rexnord is a leading manufacturer of critical system components that perform under the most rigorous demands in your potash mining applications, including gear drives, bearings, bucket elevator chain, couplings, and torque limiters. With safety in mind, our products are engineered to meet cost and performance criteria to ensure the most efficient solution for specific applications.

### **Right where you need us.**

Find Rexnord potash solutions around the globe.

- Africa
- Argentina
- Belarus
- Brazil
- Canada
- Chile
- China
- Europe
- Israel
- Jordan
- Mexico
- Peru
- Russia
- United States

# Strengthen Your Potash Operation with Rexnord

Whether you're involved in potash mining, processing or bulk material handling, our engineered products are designed for your rigorous demands of continuous operation, minimizing wear and maximizing efficiency.



# Mining

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Rexnord understands how critical the productivity of your operation is and the significance to reducing any downtime. That's why, no matter if you're using a conventional, cut-and-fill slope, solution mining or deep-shaft mining method, Rexnord has a team of experts dedicated to providing you a complete solution for your specific needs.

## Reliable solutions for underground operations

The mining equipment and components you purchase for your underground operation need to be reliable and support your production goals. Our rugged gear drives and couplings deliver the torque needed to power your mining equipment.



# Processing

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The processing mill is the central operation where the continuous crushing, grinding, desliming, floating, drying and sizing of the potash ore occurs, which is vital to achieving your mine's production goals. Offering a comprehensive power transmission product line to help move your material, Rexnord understands how important this is to your bottom line.

## Committed to quality and innovation

At Rexnord, we strive every day to make your mineral processing more efficient. We offer high-quality, innovative solutions such as our Falk V-Class™ Gear Drive that's engineered to deliver power, durability and reliability under the toughest conditions.



# Bulk Material Handling

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Rexnord's experience in bulk handling applications spans more than a century. Our team of experts will work directly with your team to help select the best conveying components for your facility.

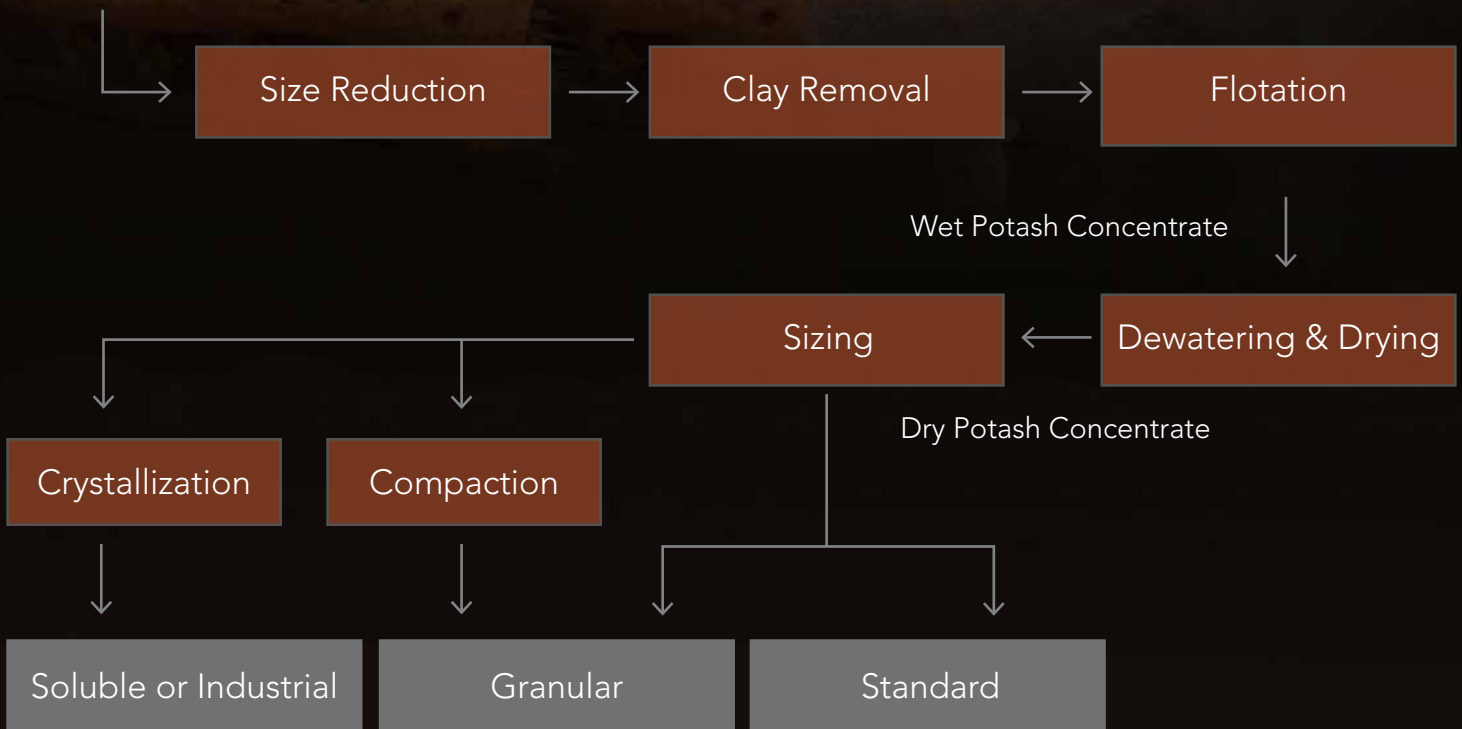
## Your one-stop-shop

Rexnord is your one-stop-shop for all of your bulk material handling equipment needs. From ore to compaction and rail car loading, Rexnord provides components for heavy-duty bucket elevators, drag conveyors and apron feeders to ensure you're covered to handle the harshest potash requirements.





# Ore from Underground Mine



# Rexnord Products for Potash Mining

## Gear



Falk V-Class Gear Drives



Rexnord Planetgear™ Speed Reducers



Falk® Quadrive® Shaft-Mounted Gear Drives



Falk Ultramite® Gearmotors



Falk A-Plus® Gear Drives

## Services



Rexnord Industrial Services™ and Falk Renew®

## Industrial Chain & Conveying Components



Rex® Conveyor Idlers



Link-Belt® and Rex Roller Chain



Link-Belt and Rex Engineered Steel Chain, Bucket Elevator and Conveyor Chain

## Coupling



Falk Steelflex® Grid Couplings



Falk True Torque® Fluid Couplings



Falk Lifelign® Gear Couplings



Rexnord Omega® & Viva® Elastomeric Couplings



Falk Orange Peel® Rotating Shaft Guards



Falk Wrapflex® Elastomeric Couplings

## Bearing



Rexnord SAF-Style Bearings



Rexnord SHURLOK® Adapter Mount Spherical Roller Bearings



Rexnord Cylindrical Roller Bearings



Rexnord PT Select Mounted Spherical Roller Bearings

## PT Drive Components



Stearns® Motor Mounted Brakes



Autogard® Torque Limiters



Falk True Hold® Low-Speed Backstops



Tollok™ Keyless Locking Assemblies

# Rexnord Conveying Components

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Rely on Rexnord to provide conveying components to keep your conveying system applications running. Our wide range of conveying components includes heavy-duty elevator chain, Ni-Hard bearings, traction wheels and sprockets, chain assembly tools, idlers, pan assembly rollers and other bucket elevator components. See below to learn more about these offerings.



## Heavy-Duty Elevator Chain

- Standard sizes are available for quick delivery
- Wide array of designs to suit specific applications and customer requirements
- Designed and produced from choice raw materials
- Superior heat treatment and hardness depth of all components
- Technically superior sidebar hole quality



## Idlers

- Factory sealed or re-greasable bearing area options
- Convenient, patented, one-point greasing system
- Available in belt widths from 18 to 96 in (457.20 to 2438 mm), CEMA designs, with custom configurations



## Segmental Sprockets and Traction Wheels

- Segmental design for ease of installation and replacement without body, chain or shaft disassembly
- Matched set of traction wheels assures smooth system operation
- Wear-resistant sprocket rim segments are reversible for double life
- Deep and hard case depths on traction wheels for longer life



## Bucket Elevator Components

- Single source for all your elevator component needs
- Premium traction wheels and sprockets
- Heavy-duty reinforced buckets
- No-lube bearings
- Internal Gravity Take Up (IGTU)
- Shaft locking devices

# Falk V-Class Gear Drive

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Extreme industrial applications, like potash, demand gear drives that perform every day, no exception. That's why customers turn to Rexnord's Falk V-Class Gear Drive for a long seal life, solid thermal performance, increased operating life, as well as shorter lead times, convenient serviceability and faster, easy-access support. With its cooler operating temperature, optimal power and advanced technology, the Falk V-Class Gear Drive outperforms and outlasts the competition.

## More torque capacity to handle the heaviest loads

- Heavy-duty ductile iron housing withstands shock loads
- Optimized bevel and helical tooth forms deliver smooth torque transmission by ensuring full contact under loads

## Horizontally split housing

- Easy disassembly/assembly for maintenance of bearings and gearing
- Does not require removing the reducer from its location

## Reliable components for long-term operation

- Magnum seals feature an exclusive no-leak design with a purgeable grease chamber and contact seal
- Proprietary oil feed passages in the housing improve lubrication and provide optimal cooling

## Easy interchange and service

- Removable feet allow drop-in replacement for current product lines and easily adapt for replacement of competitor gear units
- Designed to maximize uptime and profitability



## Falk True Hold Low-Speed Backstops

- Accommodates torque ranges from 3,000 ft-lb to 747,000 ft-lb
- (4,068 to 1,013,000 Nm)
- Type NRT and NRTH available
- Bore sizes up to 20.0 in (510 mm)
- Overrunning speeds from 1 to 2,800 rpm
- Single, tandem, or multiple drive arrangements available
- Metric and standard bore availability
- Common stock bore sizes are available for quick delivery
- NRT backstops allow for placement on the shaft of a gearbox or head shaft of the conveyor
- External backstops allow for inspection and maintenance without the disassembly of other drive components



## Planetgear Speed Reducers

Rexnord offers a Shaft-mounted Planetgear (SMP) Speed Reducer with all of the features you need for your potash application.

- Durable, rugged for reliable operation
- Easy-to-service for increased uptime
- Taconite duty seals provide optimal performance and long seal life
- Reduce inventory with fast, easy ratio changes
- Three-year, heavy-duty warranty
- Custom solutions available — right angle input, C-face input, and hollow output shaft sizes to meet exact application requirements
- Hydro Advantage, an innovative hydraulic removal system, assures shaft removal



### Tollok Keyless Locking Assemblies

For more than 35 years, Tollok products have led the industry in locking assemblies. Our robust offering features a wide range of options, including internal locking assemblies, locking elements, shrink discs and rigid couplings. Our full line of products can be customized to fit ever-changing application needs and are ideal for use in heavy-duty and specially engineered environments.

- Quick installation time
- Equipment protection
- Increase life of system components
- Internal locking assemblies up to 1,550,000 lbs-ft (2,100,000 Nm) torque capacity
- Shrink discs up to 2,500,000 lbs-ft (3,400,000 Nm) torque capacity

# Additional Rexnord Potash Solutions

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## Couplings

Rexnord offers a broad portfolio of coupling designs and our experts have comprehensive industry knowledge to ensure you get the right coupling for your application.

## Bearings

Rexnord bearings feature superior sealing and shaft mounting technology and performance surfaces precision-ground, as well as high-thrust and radial load capacities.

## Torque Limiters, Backstops and Brakes

To help keep your equipment protected, Rexnord designs and manufactures a variety of overload protection devices, backstops and brakes for your potash industrial power transmission applications.

## Industrial Chain and Idlers

Rexnord designs and manufactures engineered and roller chain, pan assembly rollers, idlers, and all of the critical components to exacting standards to meet your toughest potash material handling requirements.

## Rexnord Industrial Services and Falk Renew

No matter the size of your gearbox, Falk Renew Prager Services provide unparalleled remanufacturing capabilities to make the gear drive you rely on for your potash application new again.

## Environmental Protection Components

Rexnord offers bearing and gear end caps, coupling guards and high performance breathers to protect critical performing components from the heavy salts, dust and contamination in potash mining.



From potash mining and processing to bulk material handling, Rexnord is ready to help you with our extensive potash mining expertise and comprehensive line of mission-critical products.

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Contact Rexnord today to learn about our potash mining solutions that can help you increase uptime, productivity and profit.  
**866-REXNORD/866-739-6673 (Within the US) or 414-643-2366 (Outside the US)**  
[www.rexnord.com](http://www.rexnord.com)

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## Why Choose Rexnord?

When it comes to providing highly engineered products that improve productivity and efficiency for industrial applications worldwide, Rexnord is the most reliable in the industry. Commitment to customer satisfaction and superior value extend across every business function.

### Delivering Lowest Total Cost of Ownership

The highest quality products are designed to help prevent equipment downtime and increase productivity and dependable operation.

### Valuable Expertise

An extensive product offering is accompanied by global sales specialists, customer service and maintenance support teams, available anytime.

### Solutions to Enhance Ease of Doing Business

Commitment to operational excellence ensures the right products at the right place at the right time.

# REXNORD

## Rexnord Company Overview

Rexnord is a growth-oriented, multi-platform industrial company with leading market shares and highly trusted brands that serve a diverse array of global end markets.

## Process & Motion Control

The Rexnord Process & Motion Control platform designs, manufactures, markets and services specified, highly engineered mechanical components used within complex systems where our customers' reliability requirements and the cost of failure or downtime are extremely high.

## Water Management

The Rexnord Water Management platform designs, procures, manufactures and markets products that provide and enhance water quality, safety, flow control and conservation.