

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, bucket elevators, drag and flight conveyors, bearings, chain and couplings. 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

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

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 including our Falk V-Class™ Gear Drive that's engineered to deliver power, durability and reliability under the toughest conditions, and Rexnord Bucket Elevators that include a robust design featuring a one- and two-chain pitch per bucket.



Bulk Material Handling

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 elevator and components for your facility.

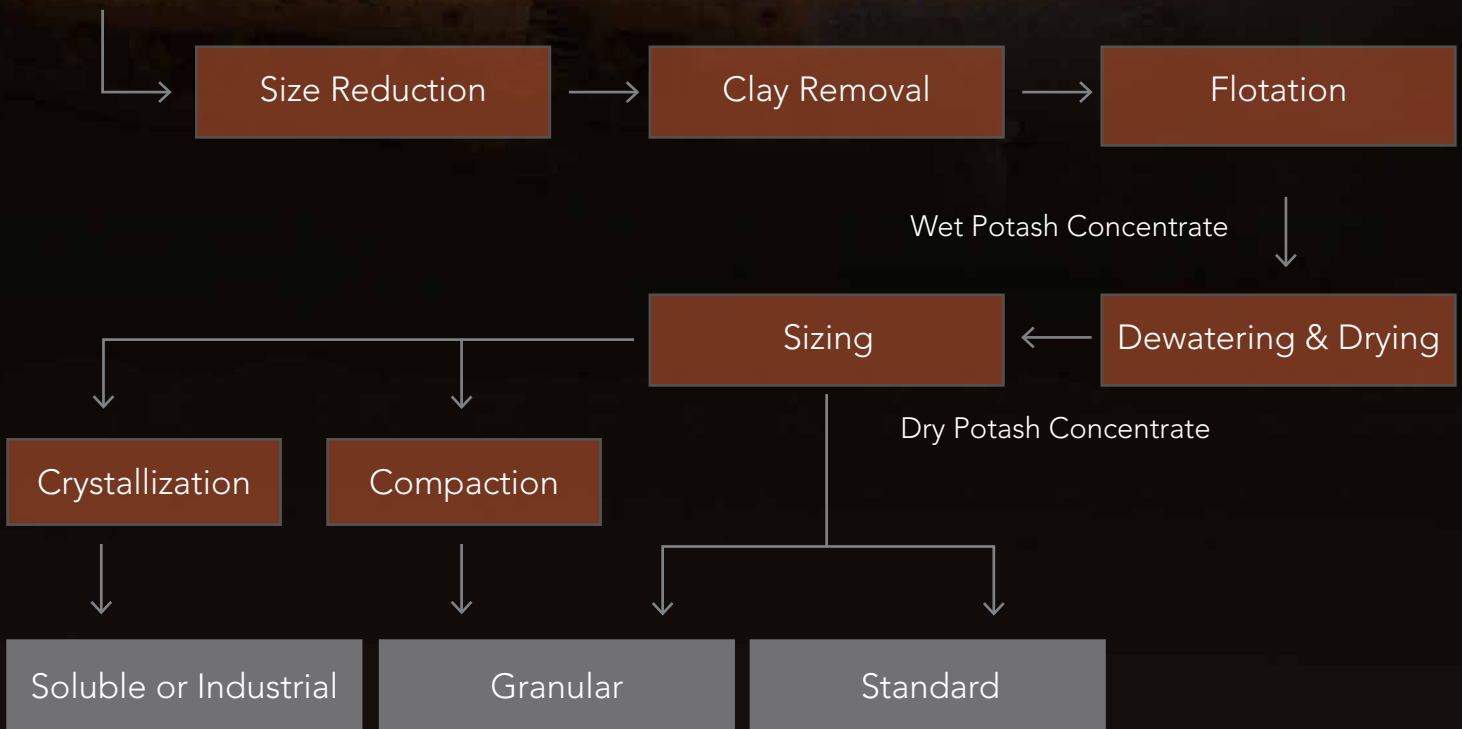
Your one-stop-shop

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 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™ Gear Drives



Falk® Quadrive® Shaft-Mounted Gear Drives



Falk Ultramite® Gearmotors



Falk A-Plus® Gear Drives

Services



Falk Renew® Rebuild and Asset Management Services

Conveying Equipment



Rexnord Bucket Elevators



Drag & Flight Conveyors



Rex® Conveyor Idlers

Industrial Chain



Link-Belt® and Rex Roller Chain



Link-Belt and Rex Engineered Steel Chain, Bucket Elevators and Conveyor Belt 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 and Spherical Roller Bearings

Brakes & Torque Limiting Devices



Stearns® Motor Mounted Brakes



Autogard® Torque Limiters



Falk True Hold® Backstops

Rexnord Super Capacity Potash Elevators

Providing Super Capacity Potash Elevators for your bulk handling applications, you can rely on Rexnord as your single source for all of your elevator component needs. Rexnord designs and manufactures all of the critical components that your bulk handling elevator applications demand, including head and boot sections, service buckets, segmental traction wheels and sprockets, Ni-Hard bearings and chain assembly tools.

Head and boot sections

- Manufactured from high-quality materials for a heavy-duty, rugged design
- Split removable head section with dust seal for easy inspection, maintenance and cleanout

Service buckets

- Unique overlapping mounting style for continuous filling
- Deep continuous welds assure high strength for extreme conditions
- Models available in one- or two-pitch chain

Segmental sprockets and traction wheels

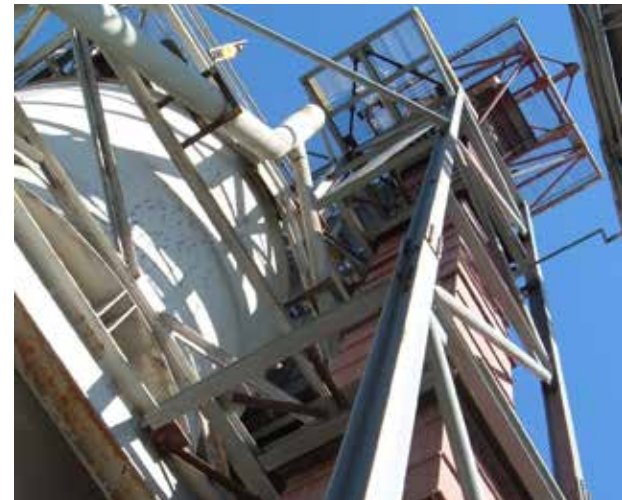
- Segmental design for ease of installation and replacement without body, chain or shaft disassembly
- Wear-resistant sprocket rim segments are reversible for double life
- Deep and hard case depths on traction wheels for longer life

Ni-Hard bearings

- Proven design unique to Rexnord
- No lubrication or periodic maintenance required

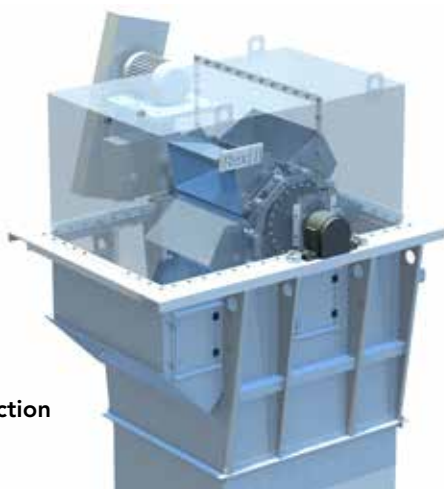
Chain assembly tools

- Eliminates pin grinding and heating of side bars that can destroy the fatigue life strength of the chain, causing premature chain failure
- Improved arm design reduces breakage and doubles power



Super Capacity Elevator Fast Facts

- All-steel precision Elevator Chain
- Customized casing designs
- Self-supporting construction with flanged bottom
- Counterweighted internal gravity takeup
- Flanged inlet opening for easy connection to loading chute
- Complete bulk material handling solutions available using Rexnord Potash packages



Head Section



Boot Section

Falk V-Class Gear Drive

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 V-Class Fast Facts

- Ratios: 1.25 to 160:1
- Power: up to 10,000 hp (up to 7,500 kW)
- Torque: up to 3,020,000 in-lbs (up to 340 kNm)
- Right angle or parallel shafts
- Solid or hollow output shafts
- Superior thermal performance
- Quiet drive train for noise-sensitive areas



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



SMP Speed Reducer Fast Facts

- Ratios: 11:1 to 1785:1
- Power: up to 1,000 hp (375 kW)
- Torque: up to 3,000,000 in-lbs (up to 339 kNm)
- Solid or hollow output shaft

Additional Rexnord Potash Solutions

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.

Drag and flight conveyors

Powered by the most dependable gear drives, Rexnord heavy-duty drag conveyors are designed specifically for critical applications handling dusty, abrasive, and hot materials commonly found in the potash industry.

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, idlers and all of the critical components to exacting standards to meet your toughest potash material handling requirements.

Rebuild and Asset Management Services

No matter the size of your gearbox, Falk Renew Prager Rebuild and Asset Management 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.

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



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+1 414-643-2366 (Outside the US)
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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.