

Power Transmission Products & Solutions for Cement Processing



Choose Rexnord to help you produce tomorrow's cement today.

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





Cement processing 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 cement mills for more than a century. Mill 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 competitive lead times and outstanding 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 system's lifecycle. With sales and service operations 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 cement mill 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.



LIMESTONE QUARRY

C J L N P Q R S

BELT CONVEYORS

A B D E F G H J K
L M N O P Q T U

REXNORD DRAG CONVEYOR

A B D E F G H S

Map shows a typical cement processing plant

Bearings

Gear Drives

Brakes & Torque Limiting Devices



A Rexnord® SAF-Style Bearings



D Falk V-Class™ Gear Drives



G Falk Ultramite® Gearmotors



I Stearns® Motor Mounted Brakes



B Rexnord SHURLOK® Adapter Mount Spherical Roller Bearings



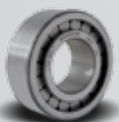
E Falk® Quadrive® Shaft-Mounted Gear Drives



H Rexnord Planetgear™ Gear Drives



J Autogard® Torque Limiters



C Rexnord Cylindrical and Spherical Roller Bearings



F Falk A-Plus® Gear Drives



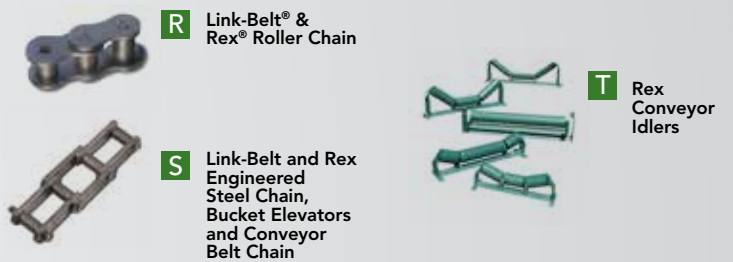
K Falk True Hold® Backstops



Couplings



Chain & Conveying Equipment



Services



Rotary Kiln and Cooling System

From hot clinker handling and grinding to high-volume air movement, Rexnord will help you determine the right power transmission products for your application. Our engineered products are designed for the rigorous demands of continuous operation to help avoid unplanned kiln outages and increase your uptime.



Rexnord keeps your mills operating and your revenue rolling.

The one real measurement in a cement mill is maximizing your production rates. At the end of the day, it is our expertise and the reliability of our products that help keep your kiln and cooling systems running efficiently, and producing the most cement tonnage each day.

Gear

Falk V-Class Gear Drives
Falk A-Plus Gear Drives

Bearings

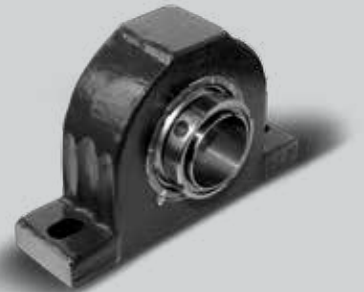
Rexnord SHURLOK Adapter Mount
Spherical Roller Bearings

Couplings

Falk Steelflex Grid Couplings
Falk Lifelign Gear Couplings
Falk Orange Peel Rotating Shaft Guards
Falk True Torque Fluid Couplings
Rexnord Omega & Viva Elastomeric Couplings
Falk Wrapflex Elastomeric Couplings

Rexnord SHURLOK Roller Bearings keep your mill running.

For 100 years Rexnord Bearings have been built to survive the toughest applications in the most abrasive environments. Rexnord 6000 Series SHURLOK Adapter Mount Roller Bearings simplify installation and prevent unnecessary downtime in cement mill cooling system applications. Our bearings feature superior sealing and shaft mounting technology, as well as high-thrust and radial load capacities.



Bulk Material Handling

Your plant faces a variety of transport challenges, such as moving raw limestone, hot clinker and finely processed materials. Rexnord understands these challenges and that one size does not fit all.

From drag and apron feeders, to bucket elevators and belt conveyor idlers, we are your one-stop-shop for transporting material to, through or from your mill. Rely on our experts to help determine the ideal configuration and components for your bulk material handling needs.



Rexnord is there from beginning to end.

Rexnord is your single source for bulk material handling solutions and support in cement mills. We design and manufacture all of the critical wear and power transmission components for our drag conveyors, apron feeders, belt conveyor idlers and chain bucket elevators, including chain, gear reducers, bearings, couplings and idlers. No matter what part of the conveying process your application is in, our products ensure efficient transport of material with minimal spillage.

Drag conveyors

- Accommodate dusty, abrasive and hot materials, including clinker, limestone, and gypsum, where multiple loading or discharge points are required
- Handle a range of material sizes from finely ground to 6-inch (150 mm) lumps up to 800 F (427 C)
- Feature heavy-duty chain like Rex Hard-Faced Welded Steel Chain with heat-treated components, induction-hardened pins, through-hardened bushings and super hard wear surface for severe applications
- Use with dependable Rexnord Gear Drives, such as the Falk V-Class Gear Drive for reliable operation and increased uptime



Apron feeders

- Custom sized to handle the particular materials for your application
- Tailored apron fits based on your mill production capacity
- Operate at fixed or variable feeding rates
- Feature continuous apron of overlapping pans, providing protection against damaging impact of free-falling materials
- Accommodate temperatures up to 600 F (316 C) and handle materials up to 2 inches (51 mm) in diameter
- Use with dependable Rexnord Gear Drives, such as the Falk V-Class Gear Drive for more torque capacity when handling the heaviest loads and cooler operating temperatures for longer life



Pan conveyors

- Tailored pan conveyor fits based on your mill production capacity with minimum spillage
- Feature continuous apron of overlapping pans for low-friction transfer using Rexnord-designed outboard mounted conveyor rollers, powered by Rexnord segmental rim sprockets and conveyor chain
- Accommodate temperatures up to 1,830 F (999 C) and handle material up to 12 inches (305 mm) in diameter
- Use with dependable Rexnord Gear Drives, such as the Falk V-Class Gear Drive for more torque capacity when handling the heaviest loads and cooler operating temperatures for longer life

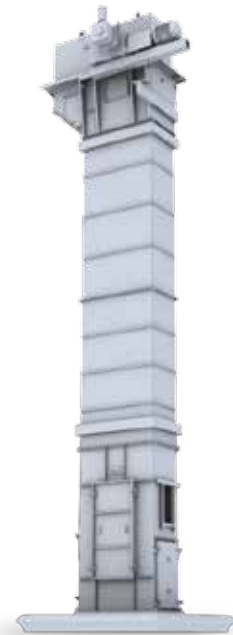




Additional Bulk Material Handling Solutions

Bucket elevators

- Feature induction-hardened sprockets and traction wheels to withstand abrasive environments — like the transportation of finished material from a grinding system to staging or packing areas — to maximize life and reduce downtime
- Allow precise chain pitch for your mill's size, speed requirements, conveying lengths and distribution methods
- Include heavy-duty chain with sealed joint technology, delivering extra-long life in the most rigorous applications
- Accomodate temperatures up to 2,000 F (1,093 C) and handle a range of material sizes from finely ground to 8-inch (203 mm) lumps
- Use with dependable Rexnord Gear Drives, such as the Falk V-Class Gear Drive for more torque capacity when handling the heaviest loads and cooler operating temperatures for longer life



Belt conveyor idlers

- Transport finely ground material along horizontal and vertical paths
- Super-sealed against contaminants to keep your material moving on the belt in the most rigorous environments
- Driven by Rexnord Gear Drives like the Falk Quadrive Shaft-Mounted Gear Drive, featuring severe-duty, grease-purged Viton® seals to handle high temperatures and prevent leakage which can cause gearbox failure



Rexnord Solutions in Action

Rexnord strives to be a trusted advisor, providing efficient product and service solutions that result in a lower total cost of ownership through acquisition and installation savings, reduced downtime, less maintenance and longer product life.

Rex Hard-Faced Welded Steel Chain saves more than \$236,000 for cement producer

A cement producer's drag conveyor chain needed to be replaced after only one year of service, costing tens of thousands of dollars in lost production and downtime. Rexnord provided its Rex Hard-Faced Welded Steel Chain as the solution. Since installing the chain, the customer has significantly **reduced maintenance costs, eliminated downtime and increased production.**

SHURLOK bearings keep vibration and costs down for cement supplier

A cement and aggregate supplier was experiencing premature failure of bearings used on the shaft of a fan to cool red-hot clinker conveyed in its plant. Rexnord replaced the existing bearings with SHURLOK Adapter Mount Roller Bearings. As a result, the supplier has achieved **65 percent savings per year.**

Cement producer saves more than \$43,000 with Rex Bucket Elevator Chain

A cement producer was struggling with premature chain failure on a cement clinker bucket elevator. The producer switched to using Rex Engineered Steel Bucket Elevator Chain and now expects a total performance life of four years and has significantly **reduced maintenance costs, eliminated downtime and increased production.**

Visit www.rexnord.com/tco to read the full version of these case studies.

From the rotary kiln and cooling system to bulk material handling for your cement mill applications, Rexnord is ready to help you with our extensive cement processing expertise and comprehensive line of mission-critical products.

Contact Rexnord today to learn about our cement processing solutions that can help you increase your uptime, productivity and profit.

866-REXNORD/866-739-6673 (Within the U.S.) or +1 414-643-2366 (Outside the U.S.)

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.