

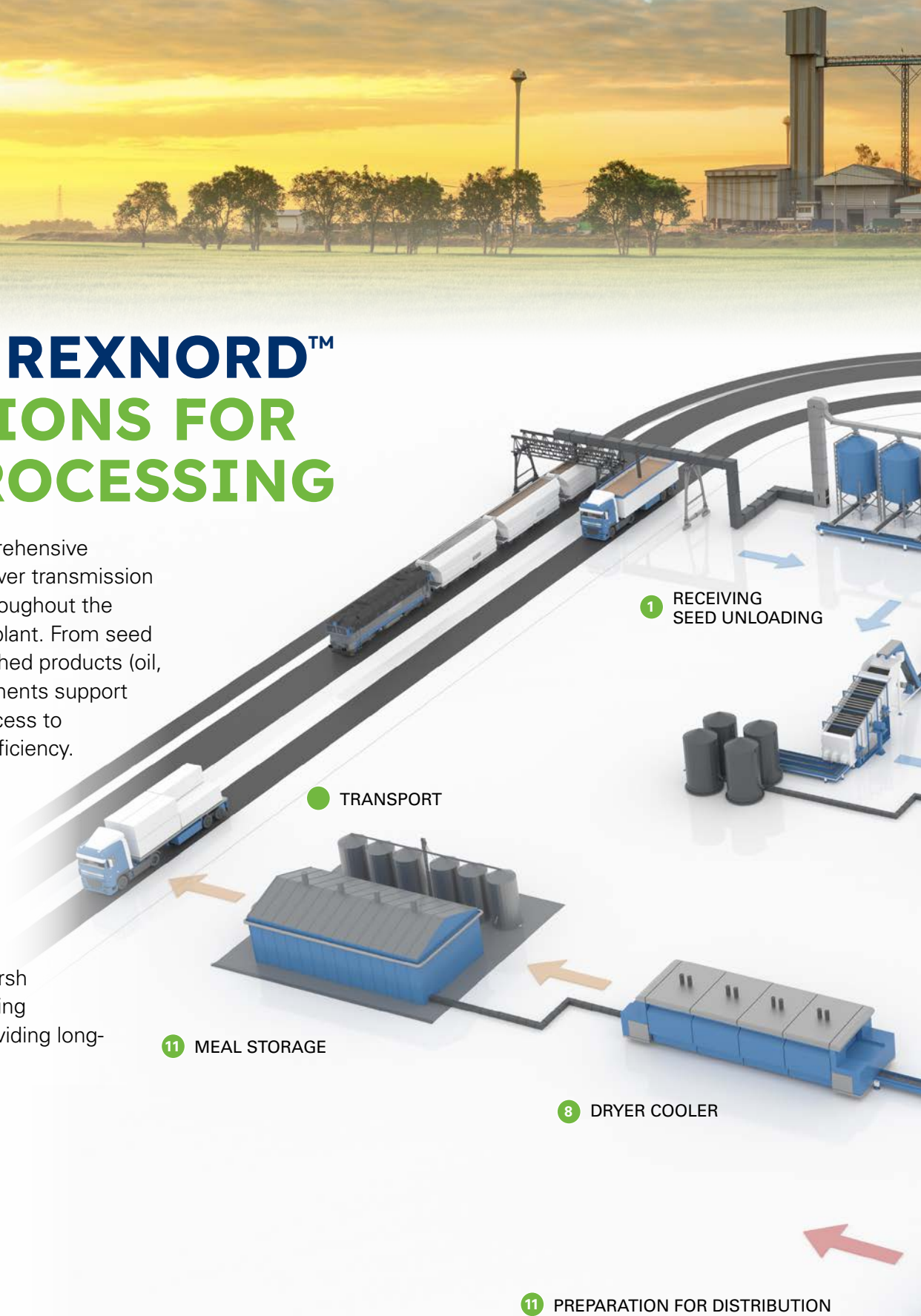
# REGAL REXNORD™ SOLUTIONS FOR SOY PROCESSING

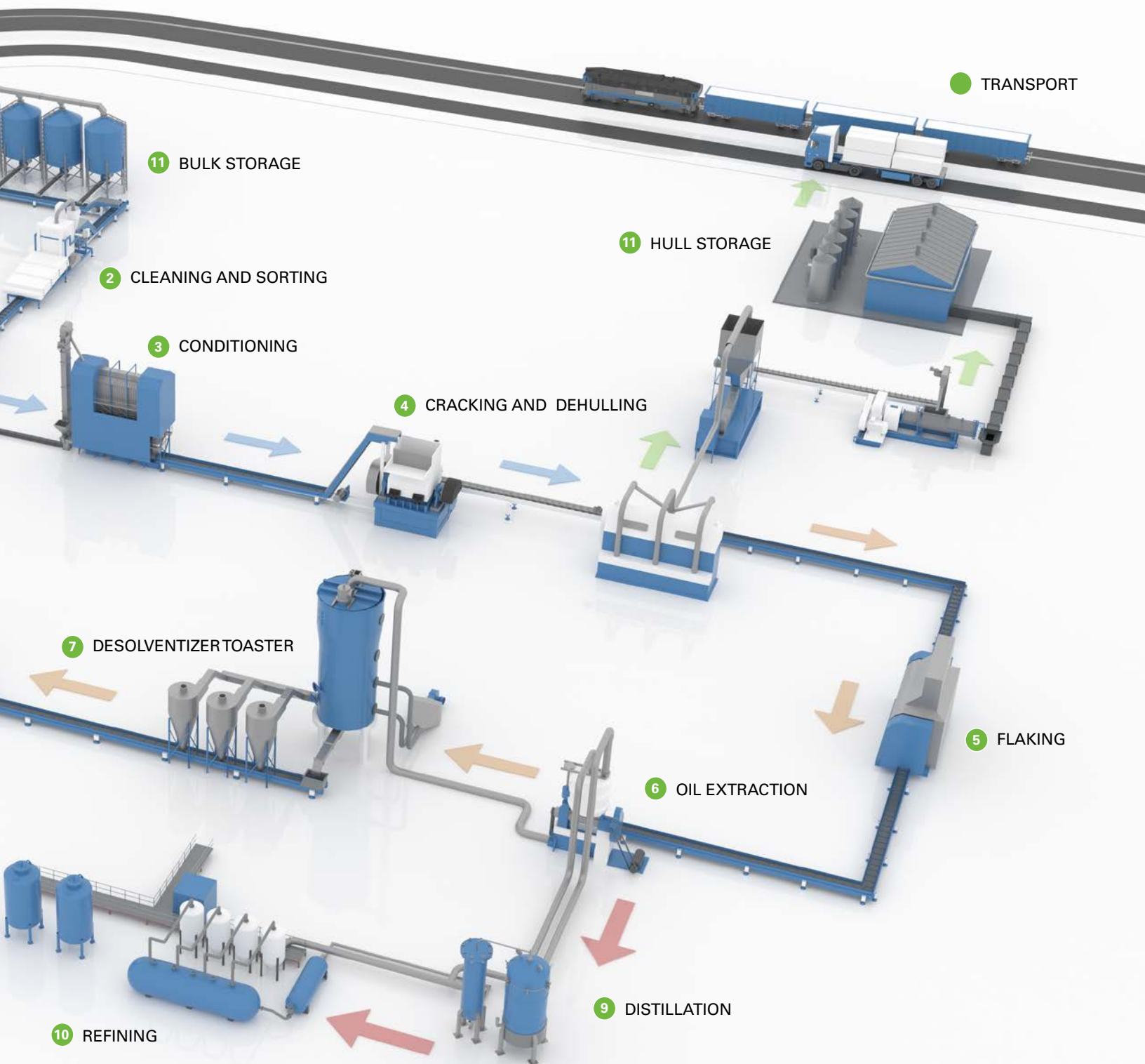


 **RegalRexnord™**

# REGAL REXNORD™ SOLUTIONS FOR SOY PROCESSING

Regal Rexnord's comprehensive portfolio of reliable power transmission solutions are found throughout the entire soy processing plant. From seed preparation to the finished products (oil, meal, hull), our components support every stage of the process to increase uptime and efficiency. In oilseed processing, there are 50-70 conveyors in the three main stages: seed preparation, solvent extraction, and meal/oil/hull treatment. Our solutions withstand harsh environments, preventing contamination and providing long-lasting performance.





# OUR SOLUTIONS ARE FOUND IN MANY SOY PROCESSING APPLICATIONS

Regal Rexnord™ Products	Seed Unloading to Seed Storage Silos	Cleaning & Sorting	Conditioning	Cracking & Dehulling	Flaking	Extraction	Desolventizer Toaster	Dryer Cooler	Distillation (Consumption and/ or Bioisole)	Refining	Bulk Storage Unloading	
	1	2	3	4	5	6	7	8	9	10	11	12
<b>BEARINGS</b>												
Rex® & Link-Belt® Mounted Spherical Roller Bearings	●	●		●	●			●	●	●	●	●
Link-Belt & Sealmaster® Mounted Ball Bearings	●	●	●	●	●	●		●	●	●	●	●
Sealmaster Mounted Tapered Bearings	●							●			●	●
Rollway Unmounted Bearings	●	●	●	●	●	●	●	●	●	●	●	●
McGill® Cam Followers	●											●
Kilian™ Machine-Raced or No-Rust Bearings		●	●					●			●	
Duralon™ Filament Sleeve Bearings	●	●		●	●	●		●	●	●	●	●
<b>BELT DRIVE</b>												
TB Wood's™ Sheaves and Bushings	●	●		●	●			●				●
Browning® Sheaves, Belts, and Bushings	●	●		●	●			●				●
<b>CHAIN</b>												
Rex Engineered Steel Chain	●	●		●	●						●	●
Rex Welded Steel Chain	●	●		●	●	●						
Link-Belt Roller Chain	●	●		●	●						●	●
Rex Sprocket and Traction Wheel	●	●		●	●							
Rex Idlers	●	●		●	●							●
<b>CLUTCHES &amp; BRAKES</b>												
Stearns® SAB Brakes	●	●	●	●								●
Stearns SAB Haz Loc Brakes					●	●	●	●	●	●	●	
Stearns Super-Mod® Clutch Brakes	●	●	●	●						●	●	●
Stromag™ Caliper Brakes	●											●
Stromag Limit Switches	●											●
FormspragClutch™, Marland Clutch™ and Stieber™ Backstops	●											●
Bibby Turboflex™ Torque Limiters										●		
Autogard® Torque Limiters								●	●			



Regal Rexnord™ Products	Seed Unloading to Seed Storage Silos	Cleaning & Sorting	Conditioning	Cracking & Dehulling	Flaking	Extraction	Desolventizer Toaster	Dryer Cooler	Distillation (Consumption and/or Bioethanol)	Refining	Bulk Storage	Unloading
	1	2	3	4	5	6	7	8	9	10	11	12
<b>COUPLINGS</b>												
Tollok® Shaft Locking Devices	●	●	●	●	●	●	●	●	●	●	●	●
Rexnord® Omega® Elastomeric® Couplings	●	●		●	●							●
TB Wood's™ Sure-Flex Plus® Elastomeric Couplings									●	●		
Falk® Wrapflex® Elastomeric Couplings	●	●		●	●							●
Falk Steelflex® Grid Couplings	●	●	●	●	●	●	●	●				●
Falk Lifelign® Gear Couplings	●	●		●	●							●
Jaure® MT Gear Coupling (EU Only)	●	●		●	●							●
CENTAFLEX® Torsionally Soft Couplings	●			●								
<b>GEARING</b>												
Rexnord Planetgear™	●	●		●	●				●	●		
Falk V-Class® Gear Drives	●	●		●	●							●
Falk A+Plus® Parallel & Right-Angle Shaft Drives			●			●	●	●				
Falk Ultramite® UB Right Angle Helical Bevel Gearmotor & UC Inline Helical Gearmotor	●	●		●	●							
Falk Ultramax® Concentric Inline Gear Drives						●			●	●		
Bauer Gear Motor™	●	●		●	●				●		●	●
Grove Gear® IRONMAN® Gear Reducer		●	●		●							
Boston Gear™ Helical Gears	●	●	●	●	●	●	●	●	●	●	●	●
Reliability Package	●	●		●	●							

**OUR SOLUTIONS  
ARE FOUND IN MANY  
SOY PROCESSING  
APPLICATIONS**



# REGAL REXNORD™ SOLUTIONS FOR SOY PROCESSING

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

## BEARINGS



**Rex® & Link-Belt®  
Mounted  
Spherical Roller**

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 Rex SHURLOK™ bearing, which features solid housing and patented tapered adapter design to ensure fast and easy installation and removal.

[Learn More](#)



**Link-Belt &  
Sealmaster®  
Mounted Ball**

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 a felt labyrinth seal with protective metal flinger that directs contamination away from sealing surfaces.

[Learn More](#)



**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.

[Learn More](#)



**McGill®  
Cam Follower**

McGill bearing engineers are credited for inventing the world's first needle bearing cam follower, and have since maintained a leadership position through development of innovative and problem-solving designs. Soy processing applications rely on our McGill Heavy-Duty CAMROL® series to provide significant operational life improvement in situations involving incidental thrust loads, higher speeds, contamination, or requiring maintenance-free operation.

[Learn More](#)



**Kilian™  
Bearings**

Kilian bearings set the standard for cost-effective performance — as part of our basic offering or through special designs developed to solve specific customer problems. Our unique ability to combine bearings with other components into integrated unit assemblies provides greater value for our customers.

[Learn More](#)



**Duralon™  
Filament  
Sleeve**

Duralon filament wound bearings are truly innovative. Made from corrosion-resistant fiberglass and epoxy resin, these filament bearings are tough, lightweight, and easily customized. Designed for use in high load oscillating pivoting and linear applications where lubrication is an issue, Duralon composite filament bearings withstand extremely harsh environments and deliver outstanding performance.

[Learn More](#)

## BELT DRIVES



**TB Wood's™  
Sheaves and  
Bushings**

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

[Learn More](#)



**Browning®  
Sheaves, Belts,  
and Bushings**

Browning belt drives feature tighter tolerances and precision balancing for better balance, reduced vibration, and reduced overhung load. TorqTitan™ belts reduced maintenance, provide longer life, and have 30% higher HP capacity.

[Learn More](#)

# REGAL REXNORD™ SOLUTIONS FOR SOY PROCESSING (Cont.)

## CHAIN



**Rex 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 and continuous operation, reduced replacement costs, and less manufacturing downtime.

[Learn More](#)



**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.

[Learn More](#)



**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.

[Learn More](#)



**Rex® Idlers**

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](#)

## CLUTCHES & BRAKES



**Stearns® SAB Brakes**

Stearns Solenoid Actuated Brakes (SAB) are an electromechanics, spring-set safety brake. With over a million SAB brakes in the market, our proven designs deliver high torque with fast, positive response and no residual drag when released. Our brakes can be mounted directly onto any NEMA C-face surface without special alignment procedures. Furthermore, they feature unitized construction which makes servicing friction discs easy, using only a screwdriver and wrench. Stearns SABs ensure automatic stopping and holding during any power interruptions to ensure a secure load.

[Learn More](#)



**Stearns SAB Haz Loc Brakes**

Stearns manufactures a complete line of Solenoid Actuated Brakes (SAB) designed for hazardous environments (Division 1 & Division 2 locations). Each brake is an electromechanical, spring-set safety brake labeled to show the class, group, and maximum operating temperature of the brake enclosure. We offer both motor-mounted and foot-mounted designs, and all Stearns hazardous location brakes are UL Listed (cULus).

[Learn More](#)



**Stearns Super-Mod® Clutch Brakes**

Stearns Super-Mod clutch brakes are totally enclosed, non-ventilated clutch-brakes with enhanced operating efficiency and longer operating life. Designed with flexibility in mind, Super-Mods come in three versions: (1) brake-only clutch providing a stop and hold (2) clutch only providing a start and/or continuous motion (3) clutch-brake providing a start-stop motion use for cycling, intermediate or random motion, and controls a load or machine element.

[Learn More](#)



**Stromag™ Caliper Brakes**

Stromag SH safety dual spring caliper brakes integrate robust construction and simplicity of operation, providing high reliability. The SH caliper is intended to work mainly as an emergency brake and is often used for lifting and conveyor applications. It allows easy mounting and maintenance, and insures maximum efficiency in the most severe environmental conditions.

[Learn More](#)



**Stromag Limit Switches**

Stromag Series 51 geared cam limit switches can map a wide range of shaft rotations to the angular displacements of the installed cam discs. These cam discs actuate electromechanical switches. They are used where angles or distances cannot be limited directly by switchgear, but only indirectly on the basis of the measured angle of rotation.

[Learn More](#)

# REGAL REXNORD™ SOLUTIONS FOR SOY PROCESSING (Cont.)

## CLUTCHES & BRAKES (Continued)



**Formsprag Clutch™,  
Marland Clutch™,  
Stieber™  
Backstops**

Regal Rexnord has the broadest range of backstops in the marketplace with the newest designs having torque capacities surpassing the 2850 kNm mark (2,100,000 lb. ft.) and bore ranges to 600 mm (23.6 in.). Backstops are designed provide positive roll back protection to equipment like inclined belt conveyors and bucket elevators, where reverse rotation must be prevented.

[Learn More](#)



**Bibby Turboflex™  
Torque Limiters**

The Bibby Turboflex torque limiter is an advanced protective solution for your machinery, safeguarding against motor torque spikes, short-circuit torques, and jams that can lead to severe drive train damage. With features like an instant 5ms disconnect, precise +/- 5% break-out repeatability, and a tamperproof ball-bearing design, it ensures rapid responsiveness, reliability, and unmatched performance in high-speed applications.

[Learn More](#)



**Autogard®  
Torque  
Limiters**

Protect costly drive train components from jamming and overloads with Autogard torque limiters. When the driven machine exceeds the torque setting for the torque limiter either because of a jam or overload, the device disengages. It can then be quickly reengaged once the problem is resolved, increasing uptime and reducing component replacement costs.

[Learn More](#)

## COUPLINGS



**Tollok®  
Shaft Locking  
Devices**

Tollok manufactures highly engineered shaft locking devices for the power generation and process industries, as well as general industrial applications. Our products are used to secure rotating shafts, manage torque transmission, and counteract shaft bending and vibration. With more than 40 years of application experience, our product technology and expertise help customers manage process variability and maximize uptime.

[Learn More](#)



**Rexnord® Omega®  
Elastomeric®  
Couplings**

Omega elastomeric couplings are non-lubricated, material-flexing, split element tire couplings. The split element design makes installation quicker and easier. Additionally, Omega couplings have excellent vibration damping capacity, making them ideal for soy plant applications.

[Learn More](#)



**TB Wood's™  
Sure-Flex Plus®  
Elastomeric  
Couplings**

Our new Sure-Flex Plus EPDM and Neoprene sleeves are best-in-class for coupling performance and value. Their 4-way flexing action absorbs virtually all types of shock, misalignment, and end float. With Sure-Flex couplings, the need for lubrication and maintenance is eliminated. As a result, these couplings provide clean, dependable, and quiet performance for a variety of applications.

[Learn More](#)



**Falk® Wrapflex®  
Elastomeric  
Couplings**

Falk wrapflex elastomeric couplings are non lubricated, material-flexing couplings. They have excellent vibration damping capacity, making them ideal for soy plant applications.

[Learn More](#)



**Autogard®  
Torque  
Limiters**

Protect costly drive train components from jamming and overloads with Autogard torque limiters. When the driven machine exceeds the torque setting for the torque limiter either because of a jam or overload, the device disengages. It can then be quickly reengaged once the problem is resolved, increasing uptime and reducing component replacement costs.

[Learn More](#)



**Falk  
Steelflex®  
Grid Couplings**

Falk Steelflex grid couplings are known for durability in critical applications, proven performance, and versatile design which makes them ideal for the heavy loads and significant vibration in soy processing applications.

[Learn More](#)



**Falk Lifalign®  
Gear Couplings**

Falk Lifalign gear couplings are well-suited for general industrial applications. Triple-crowned teeth minimize wear caused by misalignment. By eliminating tip-loading while reducing backlash and radial clearances, Lifalign can help protect connected equipment from damaging loads.

[Learn More](#)

# REGAL REXNORD™ SOLUTIONS FOR SOY PROCESSING (Cont.)

## COUPLINGS (Continued)



**Jaure® MT Gear Couplings (EU Only)**

Jaure MT gear couplings are frequently selected by international OEMs due to their reputation for innovation, reliability, and problem solving. Numerous styles and sizes are available, including engineered-to-order designs developed in close collaboration with customers.

[Learn More](#)



**Falk Orange Peel® Rotating Shaft Guards**

Orange Peel Guard's patented trim-and-fit design revolutionizes equipment guard convenience and value, providing the job-site safety you want without the expense and long lead times of custom engineered guards. Because Orange Peel guards are sized to your overall application, they can be installed in three easy steps: make three simple measurements using dimensioned trim lines, make quick trim cuts, then simply fit the hardware. In less than an hour, Orange Peel can have you up and running.

[Learn More](#)



**Falk® True Torque® Fluid Couplings (North America Only)**

Fluid couplings, also known as hydraulic couplings, help to prevent shock loads and allow variable speeds. By installing Falk True Torque couplings, loads can be balanced on multiple drive systems. Motors on multiple drive systems can be individually started because of the ability of one coupling to temporarily operate at 100% slip.

[Learn More](#)



**CENTAFLEX® Torsionally Soft Couplings**

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. We offer a full range of torsionally soft couplings, from lightweight driveshafts to dual stage couplings, centrifugal clutches, and robust, heavy-duty couplings to stand up to high-torque applications.

[Learn More](#)

## GEARING



**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 soy plant 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](#)



**Falk V-Class® Gear Drive**

The Falk V-Class Gear Drive is the drive that's born to lead and built to last. When asked for the gear drive that delivers reliability, keeps maintenance costs down, maximizes uptime and utilizes the latest technology, the answer is the Falk V-Class. With its cooler operating temperature, optimal power and advanced technology, the Falk V-Class Gear Drive outperforms and outlasts the competition.

[Learn More](#)



**Falk Parallel and Right-Angle Gear Drives, A+Plus® Gear Drives**

Falk A+Plus parallel and right-angle gear drives are designed to tackle challenging operating conditions and are proven in demanding applications for durability. Engineered to minimize stress and wear, these drives ensure reliable, trouble-free daily operation, with the flexibility to accommodate diverse applications.

[Learn More](#)



**Falk Ultramite® UB Right Angle Helical Bevel Gearmotor & UC Inline Helical Gearmotor**

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](#)

# REGAL REXNORD™ SOLUTIONS FOR SOY PROCESSING (Cont.)

## GEARING (Continued)



**Falk®  
UltraMax®**

The Falk UltraMax delivers all the performance of a parallel shaft gear drive, with the economy of a gearmotor. Designed to meet the tough challenges of medium and heavy-duty concentric gear drive operations, UltraMax gives you everything you need, from outstanding design and durability to long life, easy maintenance, and overall efficiency.

[Learn More](#)



**Falk Quadrive®  
Shaft Mounted  
Drives**

The heavy-duty, shaft-mounted Falk Quadrive features a completely unique design that makes it the easiest, quickest shaft-mounted drive to install and remove. The Falk TA Taper® Bushing design makes sure that drive removal is not only simple, but won't damage the drive, or driven equipment.

[Learn More](#)



**Bauer Gear Motor™  
BK Series Helical  
Bevel, BG Series  
Helical Inline,  
BF Series Shaft  
Mounted Gear  
Motors**

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.

[Learn More](#)

Compact and economical inline helical geared motors for long lifetime under arduous conditions. The BG gear motor offers total flexibility in mounting options includes foot, 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](#)

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](#)



**Grove Gear™  
IRONMAN®**

Grove Gear IRONMAN gear reducer is a true heavy duty workhorse that handles the environmental assaults, shock loading, frequent reversing and continuous duty cycles.

[Learn More](#)



**Boston Gear™  
Helical Gears**

Boston Gear helical gears are stocked as right and left hand. Designed to transmit motion and power between non-intersecting shafts which are positioned parallel or at 90° angle.

[Learn More](#)



**Hub City® Bevel  
Gear Drives**

Hub City bevel gear drives provide efficient, dependable operation resulting from their tapered roller bearings and heavy-duty industrial seals. There are numerous applications for these drives thanks to their universal mounting dimensions and availability in cast iron, stainless steel, or aluminum.

[Learn More](#)

## RELIABILITY PACKAGE



**Falk Reliability  
Package**

The Falk Reliability Package helps with your predictive maintenance goals as you maintain Falk V-Class gear drives, Falk Quadrive shaft mounts and Falk UltraMax concentric drives. This industry-leading standardized package is a proven success among Regal Rexnord™ customers, and includes options that simplify preventive work and greatly increase efficiency. Contact your Regal Rexnord account executive for more information.

[Learn More](#)

# REGAL REXNORD™ SOLUTIONS FOR SOY PROCESSING



## Regal Rexnord

Customer Service: 800-626-2120

Technical Service: 800-626-2093

[CustomerService.PTSolutions@regalrexnord.com](mailto:CustomerService.PTSolutions@regalrexnord.com)

[regalrexnord.com](http://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).

"Regal Rexnord" is not indicative of legal entity.

Regal Rexnord, Falk, V-Class, TA Taper, Steelflex, A+Plus, Wrapflex, Quadrive, Lifelign, True Torque, Orange Peel, Rexnord, Autogard, Omega, Planetgear, Elastomeric, Tollok, Wrapflex, Rex, Sealmaster, Duralon, Link-Belt, Rollway, McGill, CAMROL, Kilian, IRONMAN, Grove Gear, TB Wood's, Sure-Flex Plus, Browning, Jaure, Ultramite, Ultramax, Stearns, SHURLOK, Super-Mod, Stromag, Formsprag Clutch, Marland Clutch, Stieber, TorqTitan, Bauer Gear Motor, Boston Gear, Hub City, Bibby Turboflex and CENTAFLEX are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

© 2024 Regal Rexnord Corporation, All Rights Reserved. MCB23074E • Form# MB0176E

 **RegalRexnord™**