



REGAL REXNORD™ SOLUTIONS FOR PORT CRANES





**BRANDS
YOU KNOW,
PERFORMANCE
YOU TRUST.**

**DELIVERING
SOLUTIONS
WITH SUPERIOR
EXPERTISE**

Regal Rexnord™ Products	Ship to Shore (STS) Cranes	Gantry Cranes	Straddle Carriers	Mobile Container Cranes
SERVICE BRAKES				
Svendborg Brakes™ FAV Thruster Disc Brakes	●	●	●	●
Svendborg Brakes™ SDB Thruster Disc Brakes	●	●	●	●
ELECTROMAGNETIC BRAKES				
Stromag™ HPB Brakes	●	●	●	●
Warner Electric™ ERX Spring Applied Electrically Released Brakes		●	●	
Stearns™ AAB 361, SAB 82,000 & 86,000 Motor Brakes	●	●	●	●
RAIL CLAMPS, RAIL & WHEEL BRAKES				
Svendborg Brakes™ Limited Rail Clamps (LRC)	●	●	●	●
Svendborg Brakes™ Retractable Rail Clamps (RRC)	●	●	●	●
Svendborg Brakes™ Guided Rail Clamps (GRC)	●	●	●	●
Svendborg Brakes™ Rail Brakes (RB)	●	●		●
Svendborg Brakes™ Electric Wheel Brakes (EWB)	●	●		●
Svendborg Brakes™ Hydraulic Wheel Brakes (HWB)	●	●		●
EMERGENCY BRAKES				
Svendborg Brakes™ BSFL 500 Hydraulic Caliper Brakes	●	●	●	●
Svendborg Brakes™ BSFC 600 Hydraulic Caliper Brakes	●	●		●
Svendborg Brakes™ BSFC 3000 Hydraulic Caliper Brakes	●	●	●	●
Svendborg Brakes™ Hydraulic Power Units (Size Small)	●	●	●	●
Svendborg Brakes™ Hydraulic Power Units (Size Medium)	●	●		●
Svendborg Brakes™ Hydraulic Power Units (Size Large)	●	●		●
COUPLINGS				
Stromag™ Periflex™ Highly-Flexible Couplings		●	●	
Stromag™ SDKL – SVKL Highly-Flexible Couplings	●	●	●	●
Stromag™ MTDf Range Double Engagement Gear Couplings	●	●	●	●
Stromag™ SVT Range Drum Couplings	●			
CENATFLEX™-A Rubber-In-Compression Couplings				●
CENATFLEX™-TIR Roller Coupling				●
Jaure™ BARFLEX™ TCBR Barrel Couplings	●	●	●	●
Jaure™ Lamidisc™ Disc Couplings		●	●	
Jaure™ MT Gear Couplings	●	●	●	●
FALK™ Lifelign Gear Couplings	●	●	●	●
GEARED MOTORS				
Bauer Gear Motor™ Parallel Shaft BF Series	●	●	●	●
Bauer Gear Motor™ Bevel BK Series	●	●	●	●
HYDRAULIC BUFFERS				
Svendborg Brakes™ PHS	●			
GEARED CAM LIMIT SWITCHES				
Stromag™ Series 51 Planetary Gears	●	●	●	
Stromag™ Light Cam™ and Light Cam™ M Worm Gears	●	●		●
Stromag™ Series 100/110 Spur Gears	●	●		
Stromag™ HGE Worm/Lever Gears		●		
PERCEPTIV MONITORING SOLUTIONS	●	●	●	●

SERVICE BRAKES

SVENDBORG BRAKES™

THRUSTER DISC BRAKES

FAV SERIES



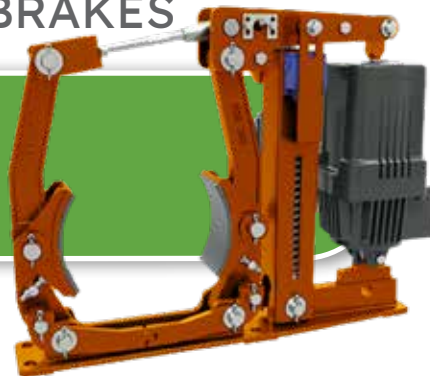
	FAV 10/15	FAV 21	FAV 40	FAV 50
Brake torque	250 – 920 Nm	650 – 4050 Nm	2700 – 16800 Nm	12700 – 21800 Nm
Center height	160 mm	230 mm	280 mm	280mm
Disc	220 – 550mm	355 – 710mm	450 – 1000mm	630 – 1000mm
Weight	44 kg	130 kg	222 kg	224 kg

Thruster disc brakes are designed for high braking torque applications such as ports, iron and steel and mining.

Energizing the electro-hydraulic thruster releases the brake pads from the brake disc. When the electro-hydraulic thruster is de-energized, the brake is activated, as the levers apply the brake pads to the brake disc.

THRUSTER DRUM BRAKES

SDB SERIES



Electro-hydraulic thruster drum brakes are designed to withstand the severe conditions of heavy-duty machinery in various industries.

Energizing the electro-hydraulic thruster releases the brake shoes from the drum. When the electro-hydraulic thruster is de-energized, the brake is activated, as the levers apply the brake shoes to the drum.

Stromag™

ELECTRO-HYDRAULIC THRUSTERS

PT SERIES 230/5 – 3010/6



- The PT series electro-hydraulic thrusters are capable of replacing most thrusters currently used in the industry.
- The power is converted from electric to hydraulic via cylinder-piston arrangement.
- Designed according to DIN 15430.



MODULAR BRAKING SYSTEMS

HIGH PERFORMANCE BRAKE (HPB)



HPB brakes offer an optimized design for maximum performance in a small space. Available in 2-face or 4-face designs, these compact modular brakes designed for high speed applications.

- Torque range from 80 to 6400 Nm
- IP67 rating for harsh environment
- Type approvals for lifting appliances available
- Best heat dissipation for best dynamic performance
- Wide range of options such as tachometer mounting, terminal box, anti-condensation heater, proximity-switch to monitor switching states and/or wear indication
- Rectifiers and quick-switching units enhance switching comfort



SPRING-APPLIED ELECTRICALLY RELEASED BRAKES

ERX series brakes offer a wide range of spring-applied, power-off electromagnetic brakes designed for parking and holding applications.

ERX SERIES



- Torque range from 5 to 800 Nm
- Manual release
- Modular, available in single or double brake options
- Easy installation
- Indoor applications, UP64 option available
- CE / UL / CSA approved
- Limited estop/wear capable
- Non-sticking friction material
- Configurable (modular)



MOTOR-MOUNTED BRAKES

AAB 361 SERIES SAB 82,000 SERIES SAB 86,000 SERIES



Stearns armature (AAB) and solenoid (SAB) actuated brakes are specifically designed for bulk handling and high outreach port applications.

- Torque range 35 to 1000 lb-ft (47 to 1356 Nm)
- Optional encoder, additional gaskets, corrosion-resistant paint & internal space heater
- Cast & ductile iron enclosures
- Full crane duty side release & manual reset
- Brakes self-adjust for wear
- Brass pressure plate & stationary discs
- IP56 rating
- IEEE 45, federal standard 46 & ABS compliant

RAIL CLAMPS, RAIL & WHEEL BRAKES

SVENDBORG BRAKES™

RAIL CLAMPS

Regal Rexnord provides a large range of rail clamps (storm brakes) to secure outdoor cranes by preventing uncontrolled movement along the rail in case of sudden bursts of wind.

LIMITED RAIL CLAMPS (LRC)

Braking Force up to 650 kN



- Spring set/hydraulic release
- Guided along rail via guiding blocks
- Compensation: Horizontal +/- 30 mm
Vertical +/- 25 mm

RETRACTABLE RAIL CLAMPS (RRC)

Braking Force up to 1200 kN



- Spring set in between hydraulic release
- Retracted above rail and setting time 2 – 30 seconds
- Compensation: Horizontal +/- 30 mm
Vertical +/- 5 mm

GUIDED RAIL CLAMPS (GRC)

Braking Force up to 1000 kN



- Spring set in between hydraulic release
- Guided above rail via low wear rollers
- Compensation: Horizontal +/- 30 mm
Vertical +/- 25 mm

RAIL BRAKES

Rail brakes are used on cranes to secure and stabilize them, preventing unwanted movement during loading and unloading operations.

RAIL BRAKES (RB)

Braking force up to 300 kN



- Hydraulic release
- Braking by spring on the top of the rail
- Balanced braking force
- Oversized longer lasting springs for reduced maintenance

WHEEL BRAKES

Wheel brakes are used to control and halt the movement of the crane, ensuring precise positioning and safety during operation.

ELECTRIC WHEEL BRAKES (EWB)

Braking force up to 120 kN



- Spring set – patented fully electric release
- No hydraulic components
- Setting time adjustable from 3 to 30 seconds
- Shoe alignment device

HYDRAULIC WHEEL BRAKES (HWB)

Braking Force up to 120 kN



- Spring set – hydraulic release
- Self-lubricating bushings and stainless steel pins on all pivot points
- Setting time adjustable from 3 to 30 seconds
- Shoe alignment device

SVENDBORG BRAKES™

HYDRAULIC CALIPER BRAKES HYDRAULIC POWER UNITS

Emergency brakes are the last safety device to prevent a falling load and are installed directly on the flange of the drums. These brakes are applied in case of overspeed detection, power failure, mechanical transmission breakage or emergency stop controlled by operator.

Hydraulic power units provide the necessary force to activate emergency brakes, ensuring rapid and reliable stopping power in critical situations.

Hydraulic power units offer several advantages:

- Redundant return valves for fast and safe operation
- Hand pump for manual release of brake in case of power failure
- Safe manual opening for crane lowering
- Reliable closed loop system - no external piping on hydraulic systems
- Standard components – spare parts always in stock

BSFL 500 Dual Spring

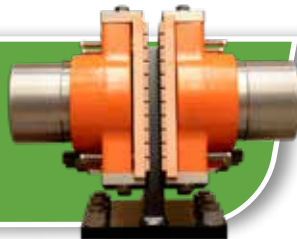


Brake	Clamping Force Fc [kN]			Pressure [MPa]	
	at airgap 1 mm	at airgap 2 mm	at airgap 3 mm	Operating	Maximum
BSFL 517	170	160	150	12.5	23.0
BSFL 524	240	218	197	16.5	23.0

SIZE SMALL 3L tank with junction box



BSFC 600 Dual Spring



Brake	Clamping Force Fc [kN]			Pressure [MPa]	
	at airgap 1 mm	at airgap 2 mm	at airgap 3 mm	Operating	Maximum
BSFC 633	335	310	285	12.5	23.0
BSFC 644	440	411	383	18.5	23.0

SIZE MEDIUM 6L tank with junction box



BSFC 3000 Dual Spring



Brake	Clamping Force Fc [kN]			Pressure [MPa]	
	at airgap 1 mm	at airgap 2 mm	at airgap 3 mm	Operating	Maximum
BSFC 3110	110	97	84	17.5	23.0
BSFC 3140	140	126	112	21.0	23.0

SIZE LARGE 25L tank with junction box



COUPLINGS

Stromag™

PERIFLEX™

Highly-Flexible Couplings



- Rubber-fabric tyre, mounted and removed without moving the machines
- Compensate extreme offsets, absorb torque peaks and damp vibrations

MTDF

Double Engagement Gear Couplings



- 2 flanged sleeves with internal spur gear teeth, linked with steel bolts
- 2 crown toothed hubs allowing the best possible alignment

SDKL - SVKL

Highly-Flexible Couplings



- Cam rings and flexible element, mounted and removed without moving the machines
- Damping of shocks & torsional vibrations

SVT

Drum Couplings



- Flexible couplings with cam rings and flexible element
- Drums diameters: Ø200 to 630 mm
- Simple mounting/dismounting
- Shocks and torsional vibrations damping



CENTAFLEX™-A

Torsional Couplings



CENTAFLEX-A couplings are designed for high performance and exceptional torsional elasticity. Built to dampen torsional vibrations and shocks, these couplings effectively protect your equipment

- Split rubber element simplifies installation and maintenance
- Compensate for significant axial, radial, and angular misalignment
- Electrically-insulating and thermally-resistant silicone or rubber design offers backlash-free torque transmission

CENTAFLEX™-TIR

Torsional Couplings



CENTAFLEX-TIR is a next-generation coupling featuring a robust design and progressive torsional characteristics, specifically engineered to help achieve efficiency goals.

- Soft progressive characteristics
- High allowable power loss
- Reduction of idling speed

JAURE™

BARFLEX™ TCBR

Barrel Couplings



- High torque capacity reduces size and cost
- Assembly time reduction
- Increased axial misalignment
- Improved visual wear indicator

LAMIDISC™

Disc Couplings



- Torsionally rigid and backlash-free
- Non-lubricated design reduces maintenance
- No need to disassemble the coupling to inspect. Discs can be checked during operation by using a strobe light

MT

Gear Couplings



MT gear couplings are the most compact coupling solution for critical applications that demand high torque transmission.

- -30°C to 70°C temperature change
- Made in C45/55 material as a standard
- Maximum bore size of 275 mm
- Maximum torque capacity of 407,000 Nm

FALK™

LIFELIGN

Gear Couplings



Falk Lifelign gear couplings feature triple-crowned teeth that are crowned on the root, tip and face to articulate freely and minimize wear caused by misalignment.

- Large flex hubs accommodate high-torque applications in space-limited installations
- Up to 43 inches (1,067 mm) bore capacity
- Maximum torque capacity of 8,185,763 Nm

GEARED MOTORS & HYDRAULIC BUFFERS

BAUER GEAR MOTOR™

GEARED MOTORS

Robust Bauer geared motors use IM2 paint which provides corrosion protection, allowing for use in harbors, lock gates, piers and offshore installations.

Available IP68 protection is also available to allow submersible operation.

PARALLEL SHAFT GEARED MOTORS BF SERIES



Shaft-mounted geared motors with integrated torque arm are easily integrated and economically applied.

- Motor power from 0.03 kW to 75 kW
- 10 gearbox sizes for torques from 90 Nm – 18500 Nm
- Gearbox housing with integral torque arm
- High efficiency through 2 stage base design
- High enclosure IP65 as standard

BEVEL-GEARED MOTORS BK SERIES



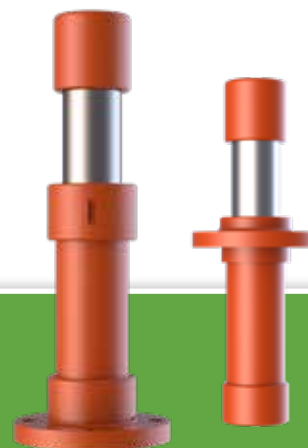
Power-dense, right-angle, bevel-geared motors ensure the highest efficiency especially when used with frequency inverters.

- Motor power from 0.03 kW to 75 kW
- 10 gearbox sizes for torques from 80 Nm to 18500 Nm
- Right angle gearbox with optional universal attachment
- High efficiency through 2 stage base design
- High enclosure IP65 as standard

SVENDBORG BRAKES™

HYDRAULIC BUFFERS

PHS HYDRAULIC BUFFERS



Buffers are used to absorb the energy from collisions in rail transport and crane systems. They are suitable for various load capacities and speeds, playing a crucial role in safety and extending the lifespan of these systems.

- Damping force 70 to 670 kN
- 2 types: rear or front mounting
- 4 sizes: 063, 080, 100 and 125
- 15 strokes (that makes 120 different models)
- Strokes: 100 to 800 mm
- Total length max.: 456 to 2114 mm
- Safety chain and protection cover available



GEARED CAM LIMIT SWITCHES

Compact hoists must be limited at their top and bottom cutoff points to protect the equipment in use. Stromag Geared Cam Limit Switches attach directly to the drum to ensure these needs are met.

These geared cam limit switches can easily determine absolute positions with great precision when integrated with available monitoring technologies. These positional values can be converted into additional data points such as degree of rotation and overspeed.

SERIES 51

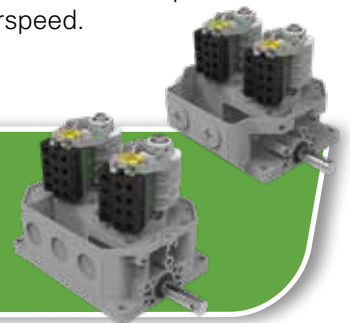
Planetary Gears



Planetary gears are used everywhere angles or distances cannot be limited with switchgear, only indirectly on the basis of the measured shaft angle. An example of this application involves limiting the hook lift of a crane hoist.

LIGHT CAM® LIGHT CAM® M

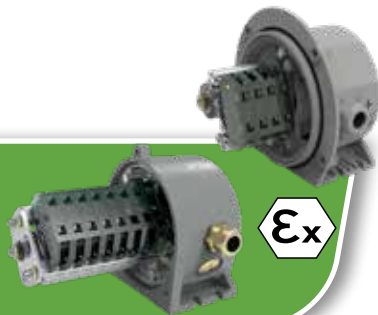
Worm Gears



The classical applications include crane hoists, traversing and slewing drives. In particular, where EN 60947 T5-1/ IEC 947-5-1 prescribe forced opening switches to eliminate potential harm to persons, there is no more economical alternative than Geared Cam Limit Switches.

SERIES 100 SERIES 110

Spur Gears



The Series 100 are robust limit switches encased in metal, designed for use under mechanical conditions. Due to the pretensioned gears, potentiometers and single-turn encoders can be actuated without any backlash.

The Series 110 features dry-running molded gears made from acetyl copolymer. It includes microswitches that function as snap switches or push-action contacts, offering both break and make contacts with positive, form-closed opening operation. The switching point intervals can be adjusted continuously or in 4° increments within the usable rotation range. This system can be installed in any position.

Series 100//110 corresponding to EX needs.

HGE

Worm/Lever Gears



Worm/lever gears reduce the number of rotations transferred to the geared cam limit switch's input shaft to a maximum angle of 320° at the cam disc (on 40° cam discs). The adjustable cam discs then actuate the mechanical switching contacts.

When equipped with mechanical forced opening switches that comply with EN 60947-5-1, geared cam limit switches are the ideal choice for compact hoists.

FRICITION MATERIAL

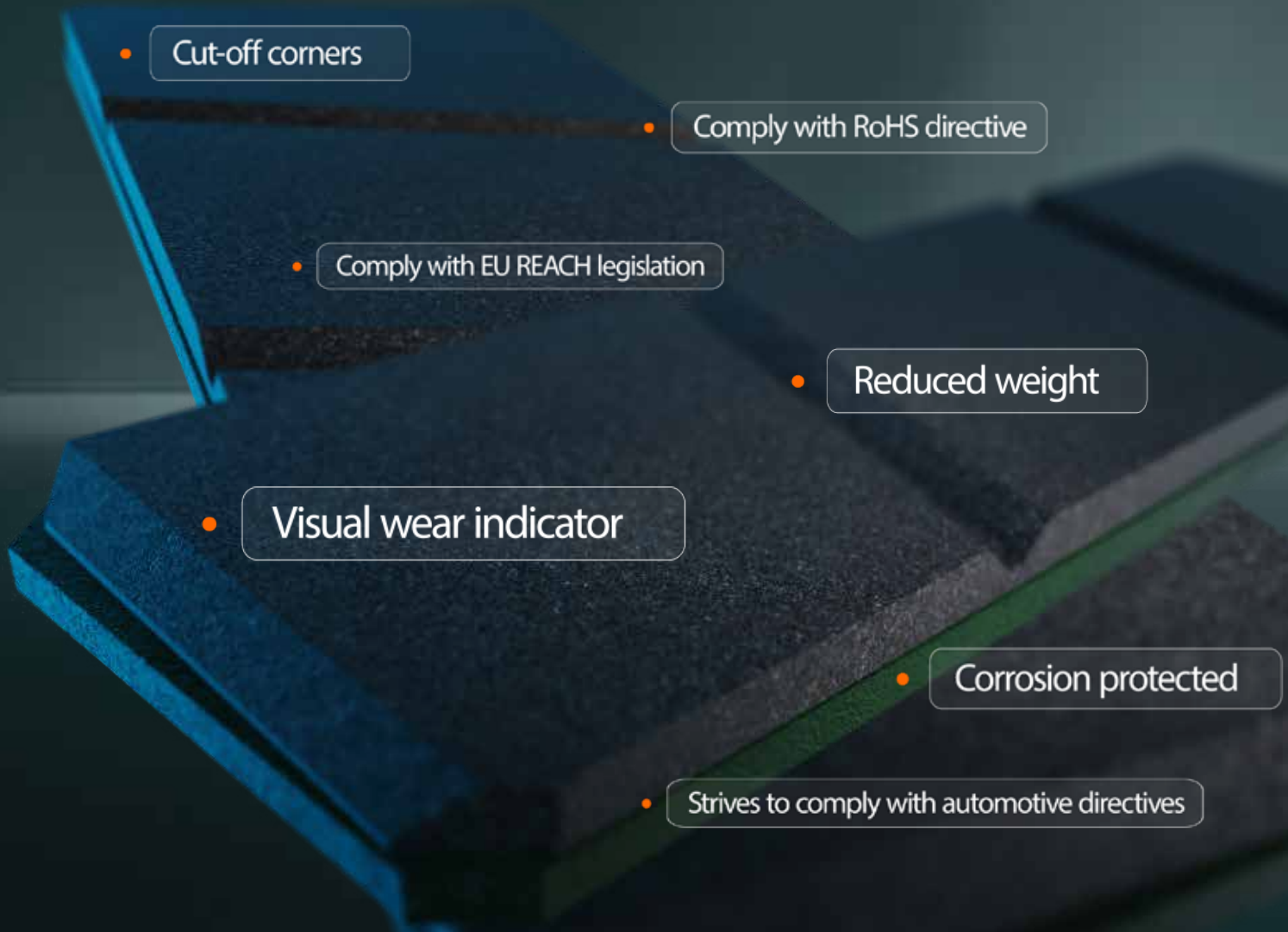
THE **GREEN** ALTERNATIVE

by SVENDBORG BRAKES

To address environmental and health concerns, we have developed a series of friction materials that comply with REACH legislation.

Available for all OEM and aftermarket applications.

- Asbestos free
- Less than 0.1% Mercury
- Less than 0.1% Chromium 6+
- Less than Lead
- Less than 0.01% Cadmium



We predict a more reliable tomorrow.

PREDICTIVE MAINTENANCE DRIVES RESULTS:



INTELLIGENT SENSORS



- Vibration
- Temperature
- Torque
- Torsional vibration
- Lubrication
- Current
- Speed

PERCEPTIV PLATFORM



- Condition monitoring
- Predictive maintenance
- Machine health dashboard
- Analytics & reports
- Alerts (dashboard, SMS, email)
- Enterprise, site, and user management
- API available for cloud-to-cloud integration capabilities
- Web & mobile access

RELIABILITY SERVICES



Prescriptive Reports by Reliability Analysts

Severity	Status	Analyst Recommended Actionable Insights
Critical	Red	Excessive vibration, replace bearing
Warning	Yellow	Inspect gearbox and verify lubrication
Advise	Blue	Continue monitoring motor
Good	Green	No issues

- On-site diagnostics
- Solutions design
- Expert installation & implementation
- Asset tagging
- Statistical alarm calculation
- Predictive & prescriptive analysis with actionable recommendations
- End-to-end services (i.e. turnkey implementation)

GLOBAL SERVICE TEAMS

Whenever you require our services, we respond swiftly and effectively. We recognize the urgency and significance, whether it's for spare parts or service support. Our dedicated team is committed to ensuring that no matter where you are in the world, you will always be within our reach.

- Scheduled maintenance to minimize downtime
- Replacing worn part to ensure efficient operations
- Evaluating product improvements to offer the best upgrade options to improve performance
- Auditing and managing applications to ensure they are functioning efficiently
- Servicing key components to optimize reaction times

24 | 7[®]
SERVICE
SUPPORT



Stop seeing individual parts. Start seeing unlimited possibilities.

Regardless of your objectives or the challenges with your application, Powertrain Solutions can help you achieve your unique goals. No matter what your application looks like, it relies on many components, all working together. But not all components are made to work together reliably and efficiently. Powertrain Solutions has the insight, experience and expertise to engineer your collection of components into a fully optimized system — giving you solutions that boost efficiency, improve reliability and performance, lower costs and simplify ordering and logistics.

WHERE OTHERS SEE PARTS, WE SEE A SYSTEM



Bearings



Belt & Chain
Drives



Clutches &
Brakes



Conveying



Disc & Gear
Couplings



Motors



Speed Reducers
& Gearboxes



Monitoring &
Diagnostics

It's time to see the bigger picture.

Get started at RegalRexnord.com/Powertrain

Regal Rexnord

Customer Service: 800-626-2120

Technical Service: 800-626-2093

CustomerService.PTSolutions@regalrexnord.com

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>.

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The logo for Regal Rexnord, featuring a stylized 'R' icon followed by the text 'RegalRexnord' in a bold, sans-serif font.