



Rex™ Belt Conveyor Idlers and Components

OVERVIEW



Trusted Design, Reliable Performance

Rex™ Belt Conveyor Idlers and Components have an extensive history of durability and high performance in the most abrasive material handling applications. From impact to return idlers and everything in between, Regal Rexnord has you covered no matter where or what your belt conveyor is moving.

Industries:

- Asphalt
- Cement & Aggregate
- Fertilizer
- Forestry
- Mining
- Solid Waste



Go Further with Rex™ Idlers

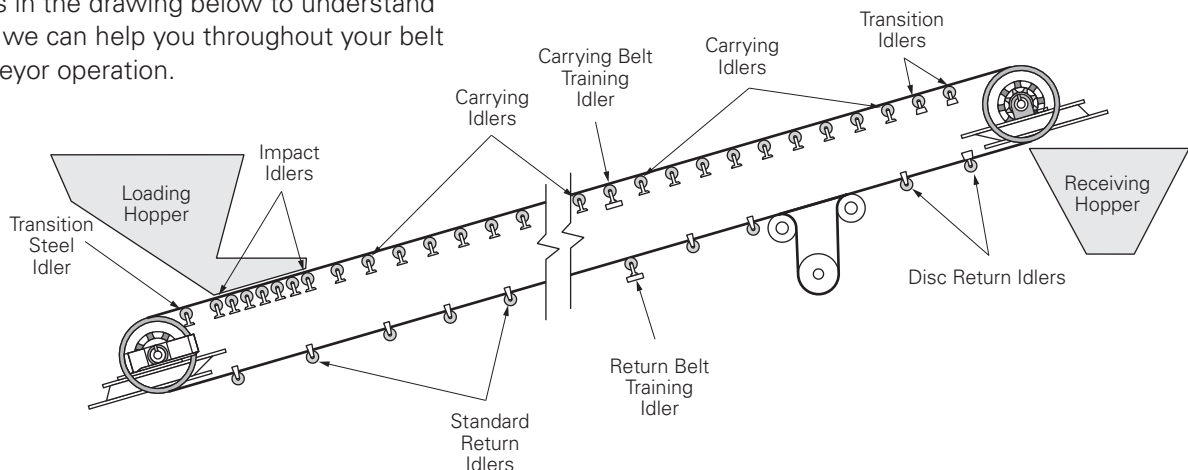
For decades, customers have depended on Rex Belt Conveyor Idlers and Components to get their material where it needs to go. Wherever you are and whatever you're conveying, you can rely on Regal Rexnord.

THE REX BELT CONVEYOR IDLERS AND COMPONENTS OFFERING PROVIDES:

- **Multiple choices** — a complete product offering for the entirety of your belt conveyor operation.
- **Abrasion- and corrosion-resistant rolls** — roll material options that help protect your belt investment from abrasive materials and high/low pH materials to keep your operation running. Choose from rubber-covered, urethane-covered, polyethylene impact and ceramic rolls.
- **Reduced loading/impact area maintenance time and costs** — you can remove only the idlers required to perform routine maintenance on your loading/impact area in three simple steps with Rex Detachable End Bracket Idlers (on Rex Classic Idlers only). These idlers can be placed as close together as needed without worrying about a long and costly idler replacement process.
- **Less material buildup** — for those wet and sticky areas in your plant, choose from multiple configurations to reduce buildup that can cause severe training problems, and costly damage to your conveyor belting and framework.
- **Corrosion-resistant frame options** — help prevent premature failure attributed to high/low pH materials or applications subjected to intermittent moisture, including:
 - Painted steel frame — standard applications
 - Steel galvanized frame — mildly corrosive applications
 - Detachable frame — loading/impact area applications
 - Steel Rex Right-Coat™ frame — extreme corrosive applications

Idlers for every section of your belt conveyor

Regal Rexnord offers a full line of Rex Belt Conveyor Idlers for your operation. See our idlers in the drawing below to understand how we can help you throughout your belt conveyor operation.



Rex™ Belt Conveyor Idlers Exceed CEMA Standards

Rex Belt Conveyor Idlers are rugged and long-lasting, and exceed CEMA standards.

SERIES B light-duty line

- Exceeds CEMA B specifications using heavy-duty ball bearings
- Available with 4- and 5-inch (102 and 127 mm) diameter rolls
- Furnished in a wide selection of styles in 18–48-inch (457–1,219 mm) belt widths

SERIES C medium-duty line

- Exceeds CEMA C specifications using precision tapered roller bearings
- Available with 5- and 6-inch (127 and 152 mm) diameter rolls
- Furnished in a wide selection of styles in 18–60-inch (457–1,524 mm) belt widths

SERIES D medium-duty line

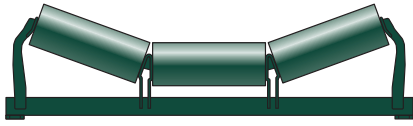
- Exceeds CEMA D specifications utilizing the Series C Idler construction with heavier shafts to provide higher load capacity
- Available with 5- and 6-inch (127 and 152 mm) diameter rolls
- Furnished in a wide selection of styles in 18–72-inch (457–1,829 mm) belt widths

Rex Idler Type	CEMA Class	Roll Diameter inches (mm)	Rex Classic Idlers Bearing Type	Belt Width inches (mm)
Light-duty	B	4 (102) 5 (127)	Ball	18–48 (457–1,219)
	C	5 (127) 6 (152)	Roller	18–60 (457–1,524)
Medium-duty	D	5 (127) 6 (152)	Roller	18–72 (457–1,829)



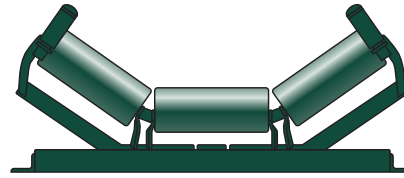
Types of Rex™ Belt Conveyor Idlers

Choose from a variety of idler types to fit your application.



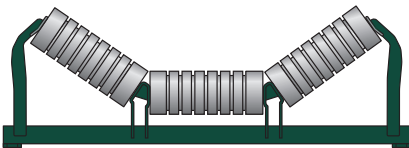
CARRYING IDLERS

- Support the belt in the conveyor section that transports the material
- Flat or troughed to shape the belt, preventing spillage
- 20-, 35- or 45-degree trough angles with equal or unequal roll lengths
- Normal spacing is 3–5 feet (1–1.50 m)



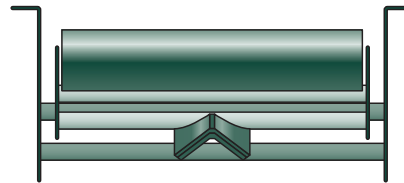
CARRYING BELT TRAINING IDLERS

- Flat or troughed, assist in keeping the belt centered on the conveyor
- Actuating shoe type is used on belt traveling in either direction
- Positive type is used on belt traveling in one direction only
- Normal spacing is 100 feet (30 m), not within 50 feet (15 m) of the head or tail pulley



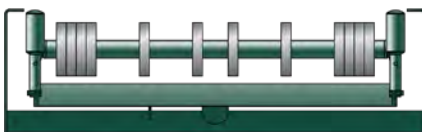
IMPACT IDLERS

- Prevent damage to the belt at the loading point
- Flat or troughed with grooved, molded rubber rolls, absorbing material impact
- For use at all loading and transfer points when the impact force exceeds 40 foot pounds (.0542 kN)



RETURNING BELT TRAINING IDLERS

- Assist in keeping the belt centered on the conveyor
- Actuating shoe type is used on belt traveling in either direction
- Positive and inclined pivot types are used on belt traveling in one direction only
- Normal spacing is 100 feet (30 m), not within 50 feet (15 m) of the head or tail pulley



Disc return idler is shown above.

RETURN IDLERS

- Support the empty belt between the discharge point and the tail pulley
- Normal spacing is 10 feet (3.04 m)

STEEL RETURN IDLERS

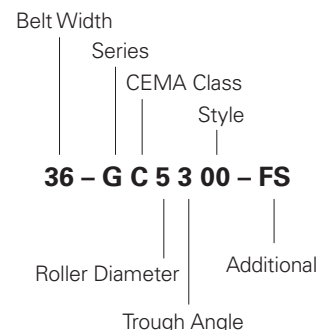
- Used where materials are not sticky, corrosive or abrasive
- Available with urethane covering

DISC RETURN IDLERS

- Used where sticky materials adhere to the belt, corrosive environment is present or abrasive wear is a problem
- Can be used for belt travel in either direction
- Ceramic, urethane and rubber disc rolls available

IDENTIFICATION GUIDE AND ORDERING INFORMATION

The following is an example of the Rex Belt Conveyor Idler numbering system.



Choose the Right Idler for Your Application

Regal Rexnord offers its Rex™ Classic Series Idlers for your belt conveyor applications. Backed by Regal Rexnord's 100-plus years in the industry and manufactured in the U.S., our idlers ensure you receive reliable performance.

REX CLASSIC IDLERS

For your longer term application needs, select Rex Classic Idlers. These idlers continue to provide unsurpassed performance in the industry, helping move and protect your conveyor belt since 1933. Exceeding CEMA B, C and D standards, this line of idlers is the answer for your most rigorous and demanding applications.

Choose Rex Classic Idlers for:

- **Surge loading accommodation and distortion prevention** — die-formed, deep-pressed end brackets handle surge loading and prevent distortion.
- **Best possible bearing life** — the regreasable option allows you to purge your bearings and seal of any damaging debris that may have entered. Combining this option with Regal Rexnord's heavy-duty tapered bearings versus roller bearings provides the best possible bearing life on your idler.
- **Reduced vibration** — ends are simultaneously counter-bored to provide true concentricity.

Rex Classic Idler specifications:

- Offering CEMA B, C and D in standard roll widths and 4–6 inch (102 mm–178 mm) rolls
- Flat, 20-, 35- and 45-degree troughing angles
- Factory-sealed and regreasable options available
- Patented "G" seal (five passage horizontal labyrinth with positive wiper and outer shield) extends bearing life
- Solid shafts allow for more load-carrying capability
- Equal, unequal and self-aligning troughers
- Flat, rubber disc and V returns
- ¾–1-inch (19–25 mm) shafts with high-quality tapered roller bearings for greater axial and radial load-carrying capacity
- Exclusive manufacturing process produces rounded roll end for increased belt life
- Regreasable idlers are ideal for long overland conveyors, installations where water is present and frequent washdowns are required
- Uses ball or roller bearings



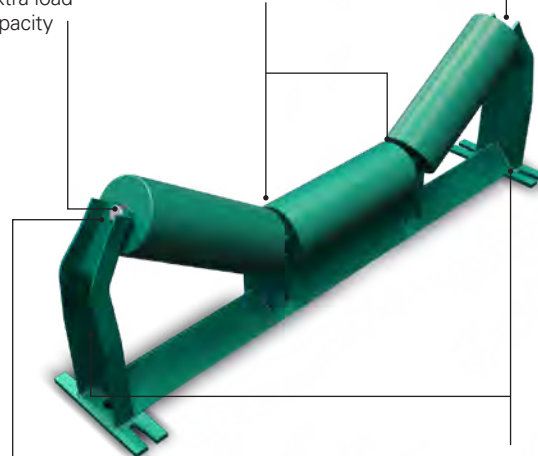
Rex Belt Conveyor Idlers Convey:

- Aggregate
- Chemical Compounds
- Coal
- Coke
- Fertilizer
- Gypsum
- Phosphates
- Solid Waste
- Wood Chips

Tapered Roller Bearings
High-quality, heavy-duty tapered roller bearings allow for extra load-carrying capacity

Smallest Roll Gap
The industry's smallest roll gap for maximum belt protection

Patented "G" Seal
"G" Seal provides excellent protection against abrasives and moisture, extending idler life



Regreasable Option
Rear sealing system maintains pressure in the bearing cavity, allowing excess grease to purge

Detachable End Brackets
Brackets allow for removal of required idlers in three simple steps to perform routine maintenance



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



Rex™

Regal Rexnord

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Technical Service: 800-626-2093

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