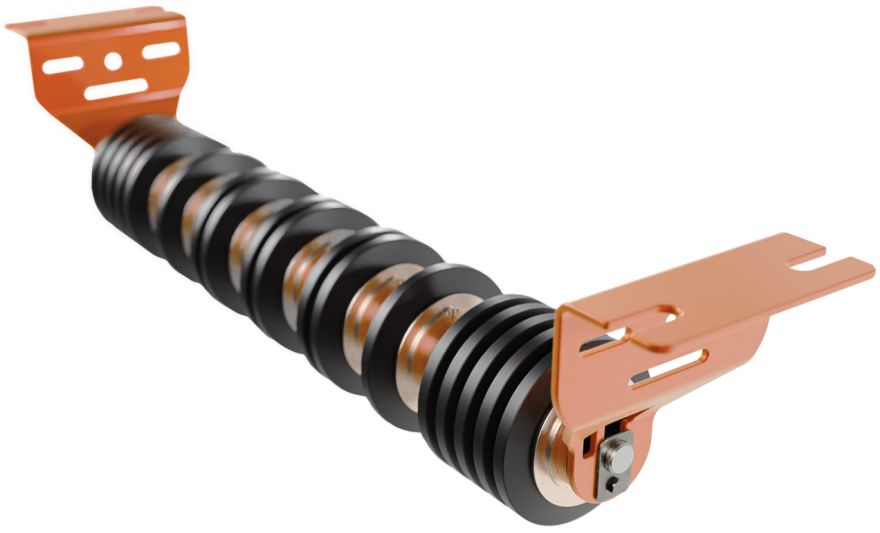
REPLACEMENT & AFTERMARKET

REPLACEMENT RUBBER RETURN IDLERS



Collaborate / Create / Convey

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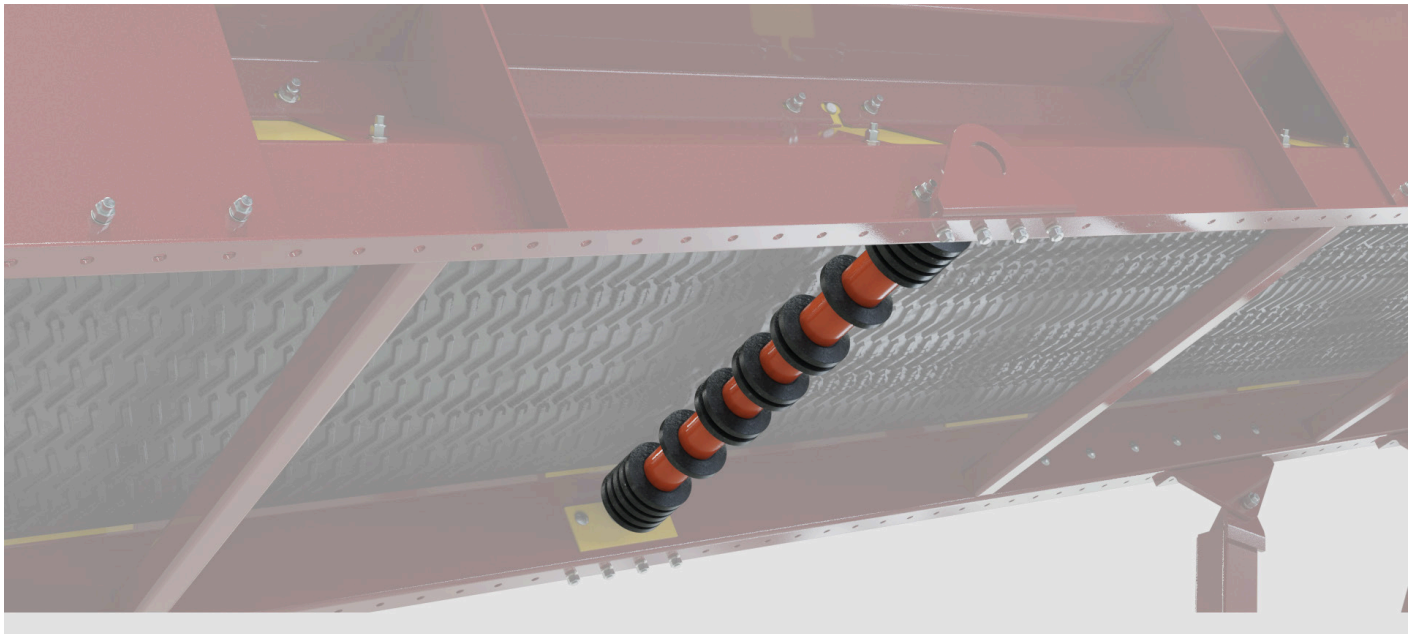


Replacement Rubber Return Idlers

Return idlers on the bottom strand carry the belt's dirty side, where carryback, wash water, and fines collect after discharge. On bare steel rolls, that mix corrodes the shell, glazes the contact surface, and builds uneven friction that pulls the belt off track. The damage reads directly on the maintenance log: premature cover wear, mistracked belts cutting into structure, and unplanned stops on the return run.

Rubber return idlers bond a continuous rubber cover over a steel roll tube, replacing the corrodible steel contact face with a surface that grips the belt, sheds moisture, and absorbs splice impact. Rolls run 4" – 6" diameters across 18" – 96" belt widths in CEMA classes C, D, and E, with flat, V-return, and self-aligning configurations covering the full return run. Sealed ball bearings and wet, dry, eco, or titanium seal packages match each roll to its operating environment. Supply the brand and part number of the idler being replaced, and engineering matches the new roll to the original frame fit.

APPLICATIONS

Recycling & Material Recovery

Material recovery facilities run 8 to 12-man pulley-driven sort conveyors through mixed streams of film, fiber, organics, and wet residuals that coat the belt with sticky carryback. Rubber lagged return rolls hold traction under that residue and shield the belt cover between picking stations, while grooved profiles shed the moisture that rusts bare steel rolls.

Aggregate Crushing & Screening

Crushing and screening circuits load the return run with abrasive dust and fines in continuously dry conditions. Dry seal packages block particulate ingress while the rubber cover cushions the belt against fines packed on the roll face.

Wash Plants & High-Moisture Processing

Wash plants saturate every return component with process water that attacks unprotected steel. Wet seal configurations and galvanized or stainless frames resist constant washdown while the rubber face maintains grip on a wet belt.

Dredging & Fines Removal

Dredging operations combine washed sand, fines, and standing moisture into one of the harshest return run environments. Eco seal packages pair moisture and particulate barriers for these combined conditions.

Overland & Bulk Material Handling

Long troughed conveyors moving bulk tonnage magnify small tracking errors across every span. V-return and self-aligning rubber idlers center the belt at 8 – 10 foot spacing without the friction inconsistency of glazed steel rolls.

Package Handling & Sorting

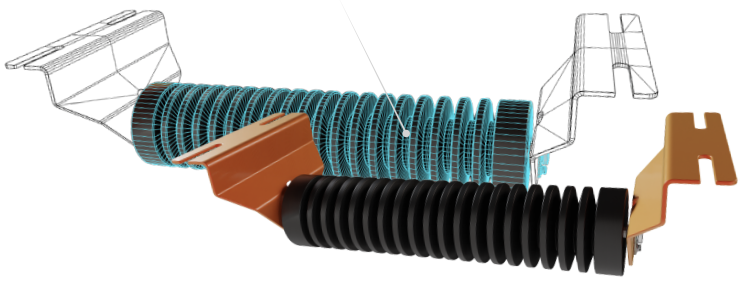
Flat belt and slider bed conveyors cycle continuously through sortation duty where noise carries across the work floor. Flat rubber return rolls quiet the return run and absorb the vibration steel rolls transmit into the frame.

KEY FEATURES

01

Bonded Rubber Lagging Shell:

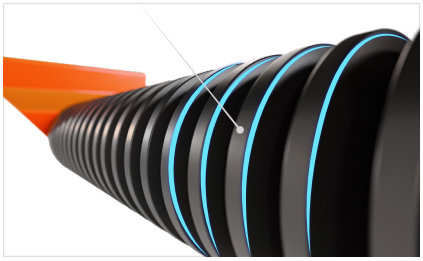
A continuous cover vulcanized to the steel roll tube grips the belt, cushions splice impact, and isolates the contact surface from moisture and corrosion.



02

Grooved Rubber Surface Profile:

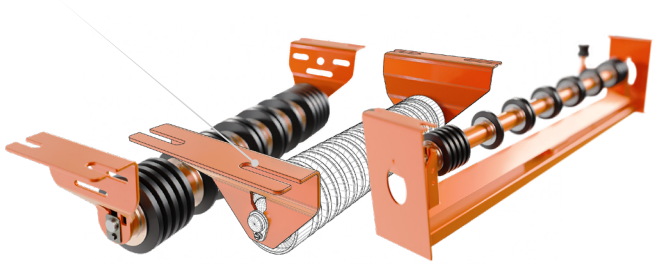
Channels cut across the lagging face carry water and fines out of the belt contact line, preserving traction where smooth rolls glaze and slip.



03

Galvanized and Stainless Frame Options:

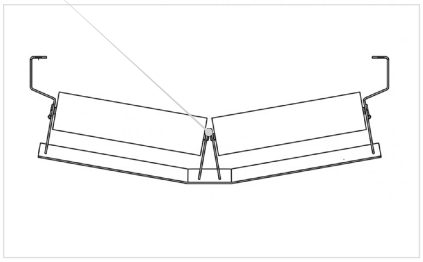
Upgraded finishes replace standard painted carbon steel where washdown, salt, or chemical exposure attacks the frame before the roll wears out.



04

V-Return and Self-Aligning Frames:

Two rolls set at a shallow angle center the belt on long runs, while pivoting self-aligning frames steer a wandering belt back on track.



05

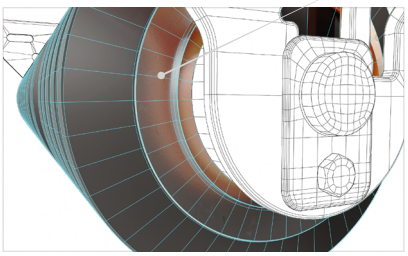
Sealed Ball Bearing Assembly:

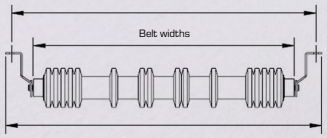
Grease-for-life internals eliminate routine lubrication and close off the entry points that admit dust and moisture in regreasable designs.

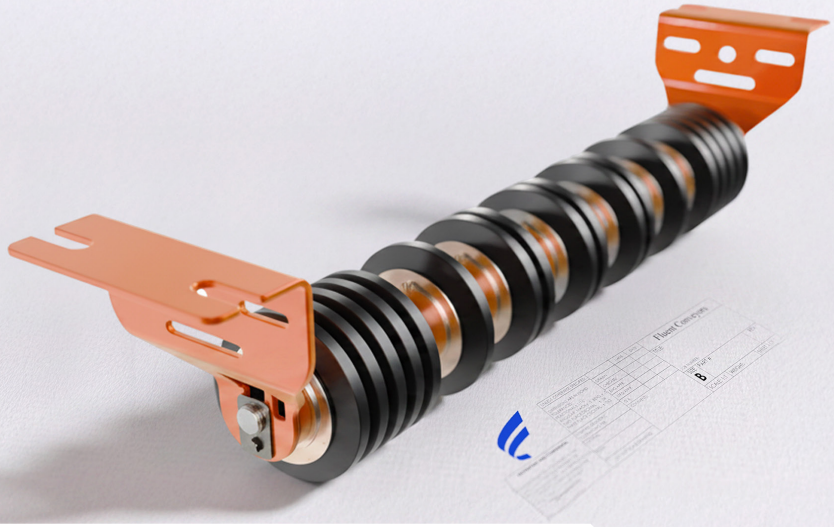
06

Environment-Rated Seal Packages:

Wet, dry, eco, and titanium configurations match the sealing barrier to wash plant moisture, aggregate dust, combined fines exposure, or severe-duty service.







REPLACEMENT RUBBER RETURN IDLERS SPECIFICATIONS

Parameter	Standard specification
CEMA duty class	C, D, E
Belt widths	18" – 96"
Roll diameters	4" – 6"
Configurations	Flat, V-return, self-aligning
Rubber types	Rubber lagging, grooved rubber
Bearings	Sealed ball bearings
Seal packages	Wet, dry, eco, titanium
Mounting	Standard drop brackets, channel inset
Frame finishes	Painted, galvanized, stainless steel
Typical return run spacing	8' – 10'

Seal Series

Seal series	Operating environment	Application
Eco	High moisture, washdown	Wash plants, dredging, high-moisture handling
Titanium	Dry, dusty, abrasive	Crushing, screening, aggregate handling
Dry	Combined moisture and fines	Washed sand, fines removal, extreme conditions
Wet	Severe duty	Maximum-exposure return runs

THE ENGINEERING ADVANTAGE

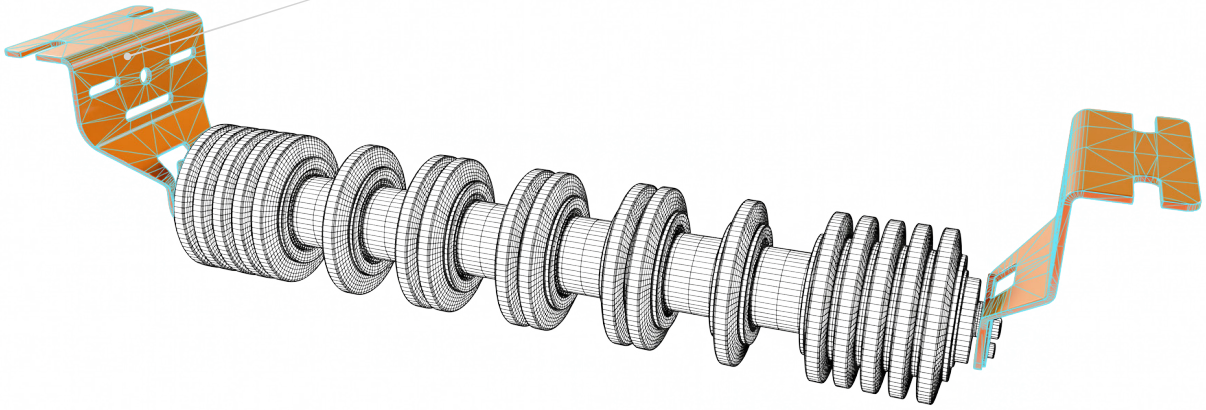
This section outlines the selection and fit methodology behind rubber return idlers, covering CEMA duty classification, mounting interchange, and return run placement to ensure exact frame fit and full service life on the bottom strand.

CEMA Duty Classification:

Each roll carries a CEMA C, D, or E rating calculated from belt width, belt speed, and conveyor length, with additional classes sourced to specification

Drop Bracket and Channel Inset Mounting:

Frames dimension to standard drop brackets or channel inset systems for direct interchange with the return idlers already on the conveyor.

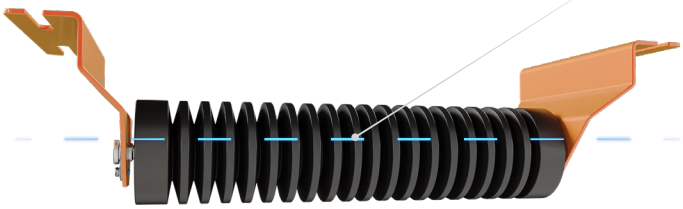


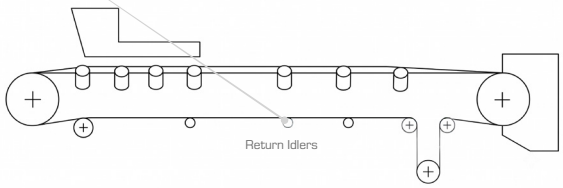
Dimensional Match Verification:

Every replacement checks against overall length, roller length, and mounting hole spacing, or against the brand and part number of the original unit.

Return Run Spacing Design:

Placement follows 8 – 10 foot spacing adjusted for belt tension, width, and load, with rolls concentrated in transition zones and carryback areas near the tail pulley.





FLUENT CONVEYORS

CONTACT INFORMATION

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For product specifications, engineering support, or order inquiries, please contact our team using the information provided below. Our specialists are available to ensure accurate recommendations and efficient service for your application requirements.

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