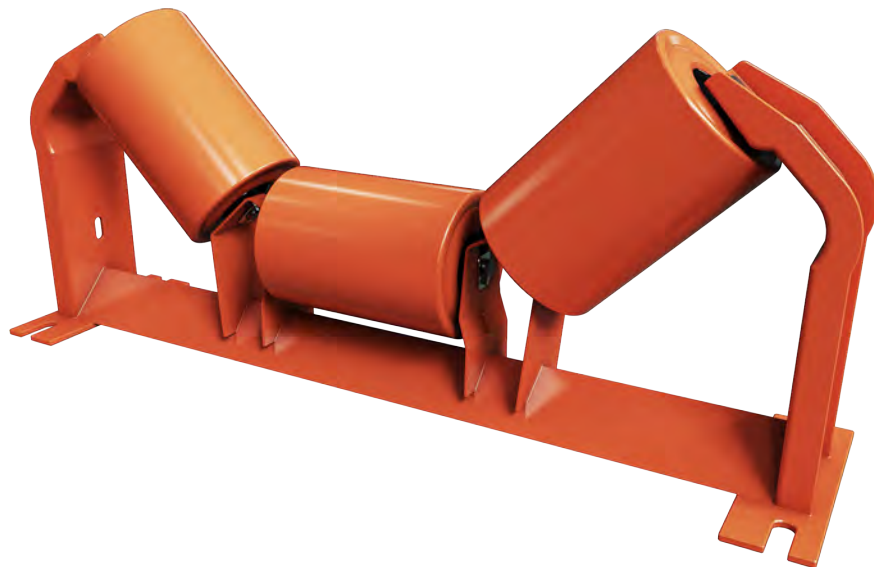


REPLACEMENT & AFTERMARKET

CARRYING IDLERS



Collaborate / Create / Convey

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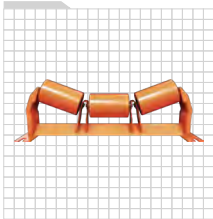
CARRYING IDLERS



Carrying Idlers

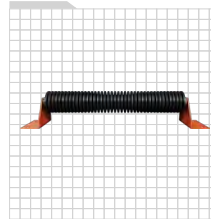
Conveyor carrying idlers support the loaded belt along the top run, bearing the combined weight of the belting and transported material to prevent excessive belt sag and chronic tracking failures. Manufactured across CEMA B through F duty classifications, these assemblies utilize cold-rolled steel shafts and application-specific tube materials such as ERW1020 steel or heavy-duty DOM tubing. Precision-matched configurations accommodate strict structural constraints, high-tonnage load requirements, and diverse operating environments to ensure continuous system operation without component degradation.

Equal Troughing Idlers



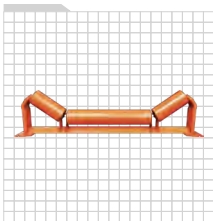
Angled rolls form a 20°, 35°, or 45° trough profile to increase overall belt capacity and mechanically center heavy material loads.

Flat Idlers



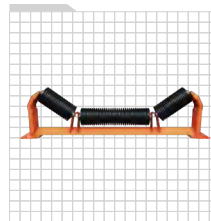
Horizontal single-roll or multi-roll configurations provide flat belt support for precision sorting, feeding, and package handling applications.

Picking Idlers



Unequal roll lengths utilize shortened wing rolls to create safe surface access for manual sorting while maintaining partial material containment.

Unequal Troughing Idlers



Asymmetric roll geometries clear structural obstructions and accommodate unbalanced load distributions where standard troughing frames cannot physically fit.

APPLICATIONS



Recycling Sort Stations

Carrying idlers are built for heavy impact and abrasive conditions, ensuring reliable belt support and reduced downtime in harsh waste and mining operations.



Bulk Material Handling

Equal troughing idler configurations support dense bulk materials requiring consistent load centering and high capacity. Standard 35° angled rolls provide the optimal balance between carrying capacity and belt tracking stability.



Crushing and Screening

Dusty aggregate handling operations expose rotating components to severe particulate ingress. Dry idler seals construct reinforced barriers to block fugitive dust from compromising internal bearings.



Wash Plants and Dredging

High-moisture applications subject conveyor equipment to continuous fluid exposure. Wet idler seals deploy enhanced fluid protection mechanisms for standard ball, spherical, or tapered bearings.



Package Sorting

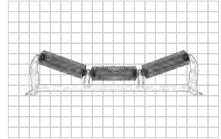
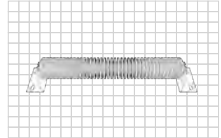
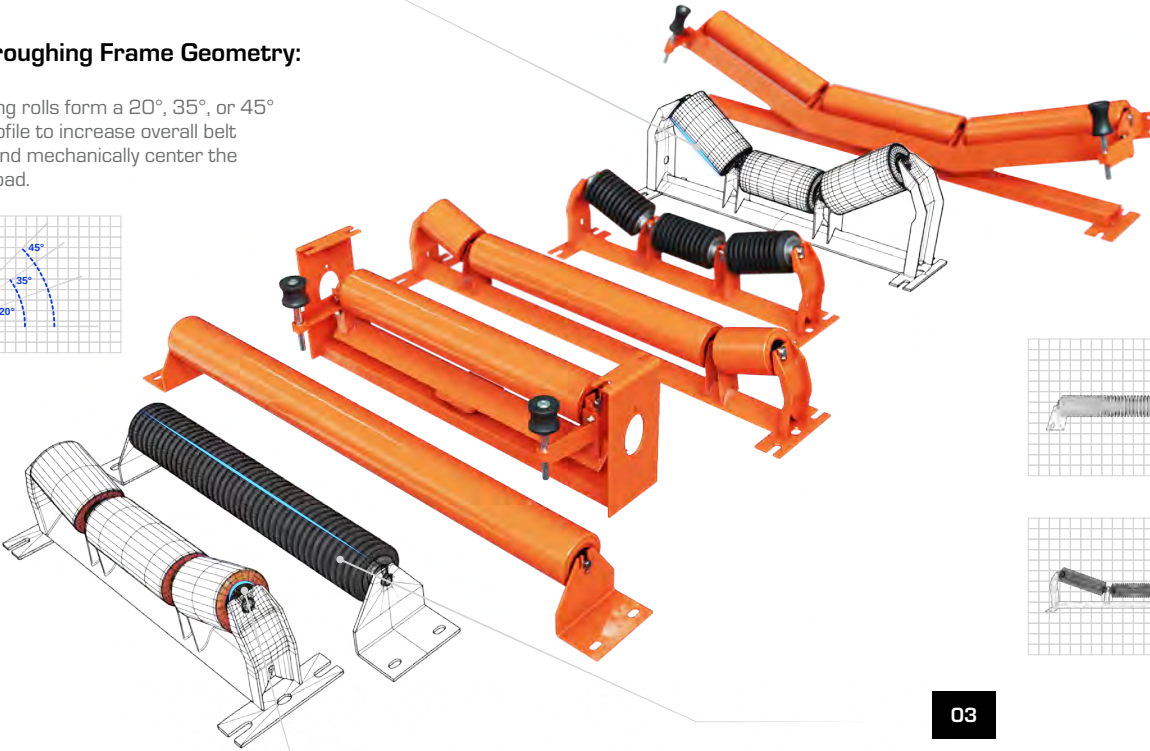
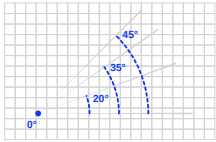
Unit load transport requires horizontal belt support without the angled profiles of material containment troughs. Flat idlers accommodate broad belt configurations while maintaining clear surface access for manual or automated processing.

KEY FEATURES

01

Equal Troughing Frame Geometry:

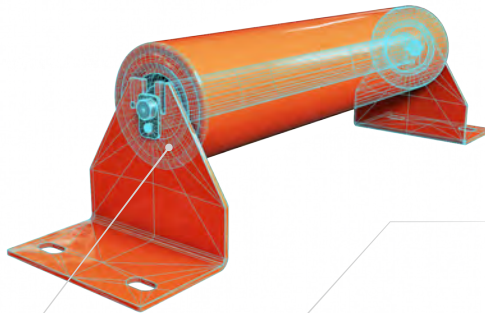
Angled wing rolls form a 20°, 35°, or 45° trough profile to increase overall belt capacity and mechanically center the material load.



02

Dry Seal Configuration:

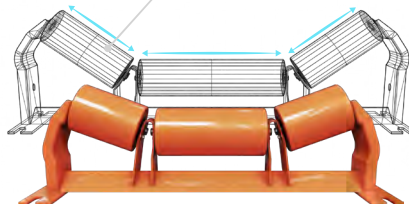
Reinforced barrier mechanisms prevent particulate ingress across crushing, screening, and highly dusty aggregate handling environments.



04

Channel Inset Mounting Brackets

Low-profile structural hardware secures the primary idler frame firmly within tight, clearance-restricted conveyor applications.



03

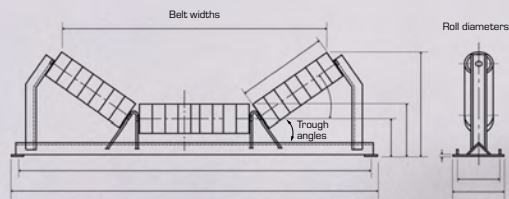
Rubber Cushion Impact Rolls:

Specialized rubber discs replace standard steel roll tubing to absorb kinetic energy forces within heavy material loading zones.

05

Unequal Wing Roll Configuration

Asymmetric roll lengths accommodate manual sorting operations or route the belt safely past physical obstructions along the conveyor structure.



CARRYING IDLERS SPECIFICATIONS

Parameter	Standard Specification	Extended / Custom
Belt Widths	18 – 96 inches	Custom widths available
CEMA Classes	B, C, D, E, F	N/A
Troughing Angles	20°, 35°, 45°	Custom angles available
Roll Diameters	4 – 8 inches	N/A
Shaft Material	Cold-rolled steel (C1018 or equivalent)	N/A
Tube Material	Standard steel, ERW1020	DOM tubing, polyurethane coated, rubber lagging, rubber discs
Bearing Types	Standard ball, spherical, tapered	Optimized for wet, dry/dusty, overland, dredging
Frame Types	Standard inline, offset	Wide-base options available
Mounting Types	Standard top mount, channel inset (low profile), web mount	N/A
Finish Options	Painted, galvanized, stainless steel	N/A

Configuration Reference

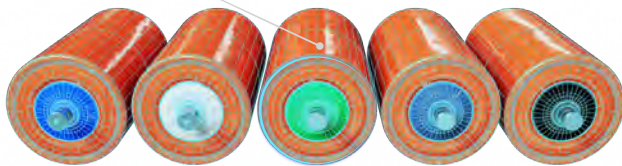
Seal Type	Primary Application	Protection Level
Dry Seal	Crushing, screening, dusty aggregate	Reinforced barrier
Wet Seal	Wash plants, dredging, high-moisture	Enhanced protection
Eco Seal	Washed sand and fines	Combined extreme condition protection
Titanium Seal	Severe-duty operations	Maximum durability

THE ENGINEERING ADVANTAGE

This section outlines the core fabrication methodology behind replacement carrying idlers, covering structural configurations and bearing protection protocols to ensure proper load support and continuous operation.

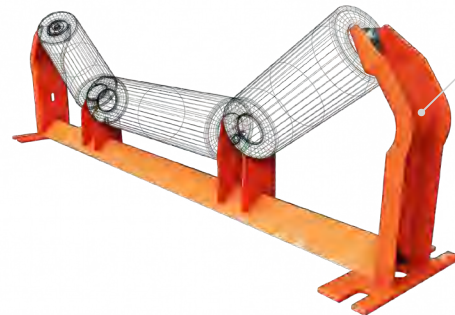
DOM Tubing Construction:

Specified precisely for CEMA Class F applications to maintain dimensional stability under the highest industrial speed and material density loads.



Galvanized Frame Finishing:

Specified precisely for CEMA Class F applications to maintain dimensional stability under the highest industrial speed and material density loads.

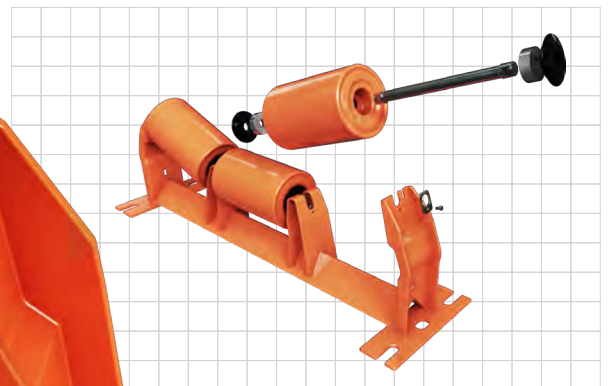
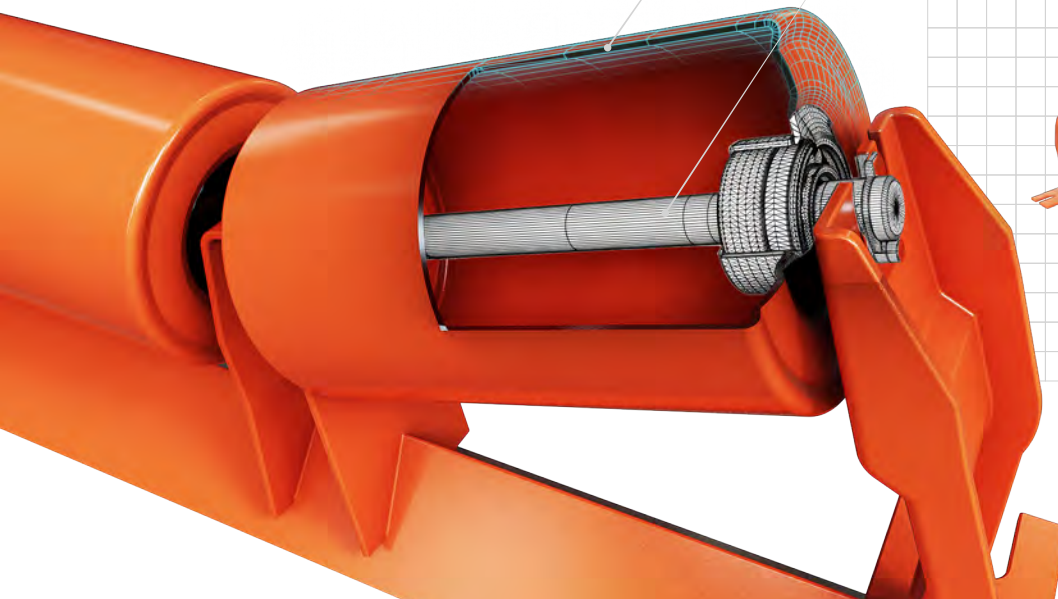


Polyurethane Tube Coating:

Applied directly to the exterior roll surface to combat high abrasion and prevent sticky material accumulation during transport.

Cold-Rolled Steel Shafting:

Fabricated from C1018 or equivalent steel grades to transfer heavy-tonnage rotational forces and support standard 3-to-5-foot component spacing spans.



CONTACT INFORMATION

OUR ENGINEERS WILL SPEC THE EXACT PART FOR YOUR SYSTEM

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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