

REPLACEMENT & AFTERMARKET
PICKING IDLERS



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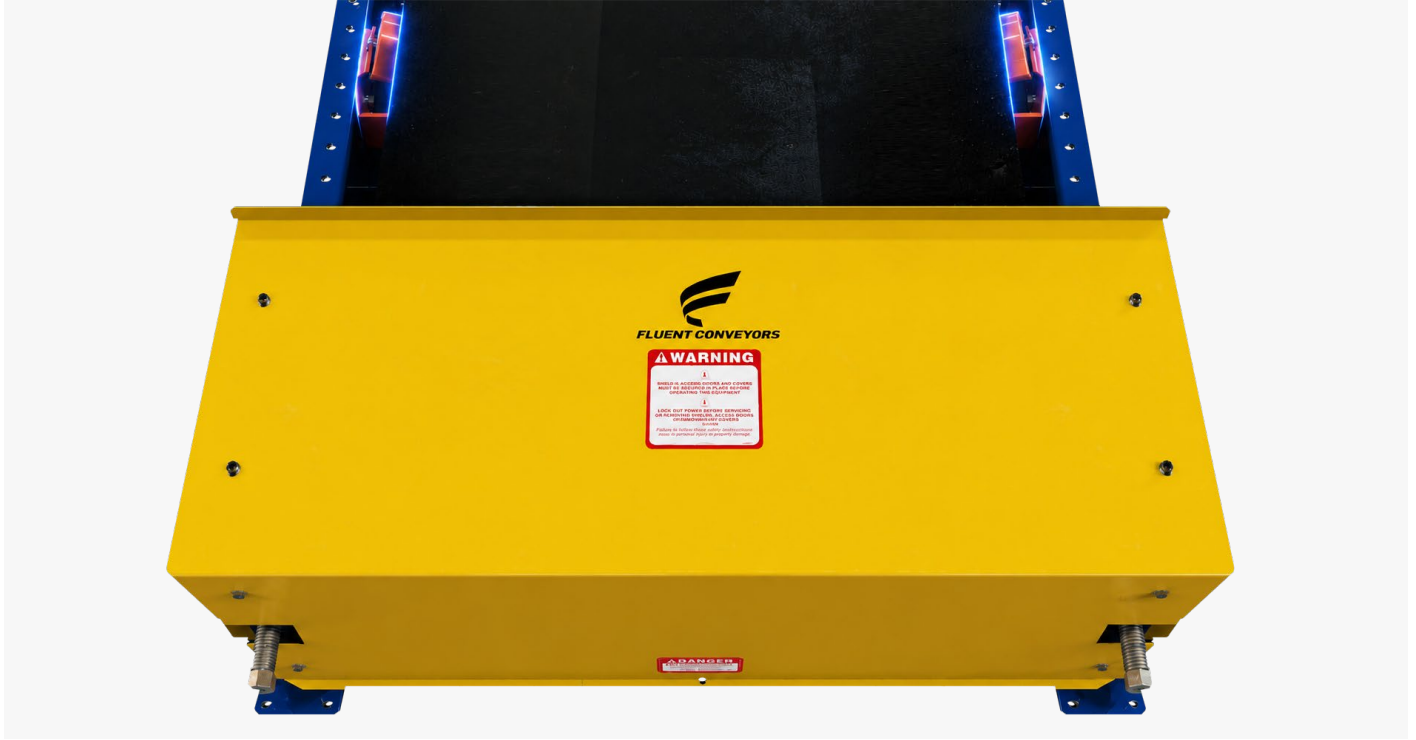
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PICKING IDLERS



Picking Idlers

Sorting operations require flat material presentation without sacrificing continuous belt support. Equal troughing geometries create deep profiles that obscure bulk materials, resulting in missed separations and increased manual sorting labor. Restricted material spread below magnetic separators critically limits tramp metal extraction efficiency.

Picking idlers utilize an unequal troughing configuration with an extended center roll and two shortened wing rolls to form a shallow structural trough. Positioned along manual sortation lines or beneath magnetic separators, these assemblies mount into low-profile inline or wide-base frames. CEMA-rated units align directly with established structural tracking tolerances and mounting patterns.



Steel picking idlers

Configured for general-duty operations across CEMA Classes B–F, utilizing standard or impact-rated components specified for loading zones.



Rubber picking idlers

Formulated to absorb mechanical load impact and mitigate acoustic levels at occupied picking stations while resisting chemical deterioration in severe waste sorting environments.

APPLICATIONS



Recycling Sort Stations

Municipal solid waste (MSW), construction and demolition (C&D), and single-stream recycling lines handle irregular, mixed-density materials. Unequal troughing geometries flatten the material cross-section to facilitate direct manual extraction and automated separation.



Aggregate Quality Control

Crushing and screening operations require clear visibility of conveyed rock and mineral profiles. Shallow 20° to 35° trough angles stabilize loose aggregate while allowing immediate inspector access.



Waste Processing

Chemical exposure and harsh sorting environments accelerate standard component deterioration. Rubber-cushioned roll materials resist chemical breakdown while mitigating noise in occupied picking stations.



Package Handling Systems

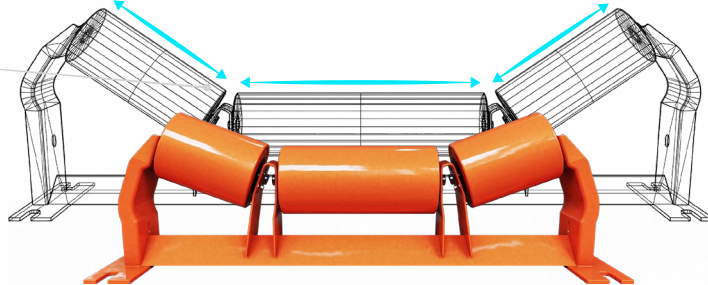
Distribution environments route varying package dimensions that require stable, flat presentation. The extended center roll supports the primary load while short wing rolls provide minimal lateral containment.

KEY FEATURES

01

Unequal Troughing Geometry:

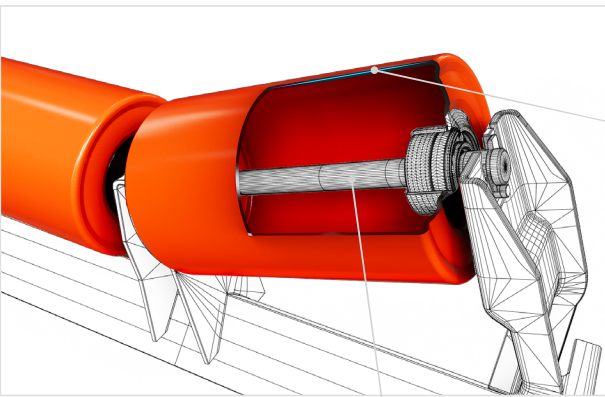
Utilizes a single extended center roll and two shortened wing rolls to flatten material cross-sections for manual extraction.



02

Low-Profile Frame Architecture:

Integrates channel inset or conventional top mount brackets to clear restricted dimensional tolerances beneath magnetic separators.



03

C1018 Cold-Rolled Steel Shafts:

Interfaces directly with standard ball, tapered, or spherical bearings across CEMA B through F operating classifications.



04

ERW Steel Tube Construction:

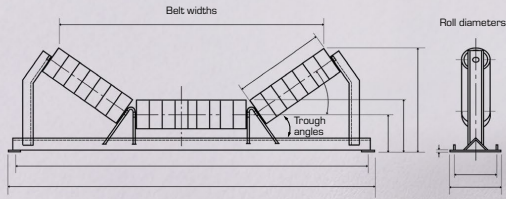
Provides rigid structural support for general sorting applications across 18-inch to 96-inch belt widths using standard fabricated steel.

05

Rubber-Cushioned Roll Formulation:

Absorbs load impact, isolates mechanical noise in occupied stations, and resists chemical deterioration in harsh processing environments.





PICKING IDLERS SPECIFICATIONS

Parameter	Standard Specification
Belt Widths	18" – 96"
Roll Diameters	4" – 7"
Trough Angles	20°, 35°
CEMA Classes	B, C, D, E, F
Frame Types	Low-profile inline; wide-base options
Shaft Material	C1018 cold-rolled steel
Tube Material	ERW steel, rubber, rubber discs
Bearing Types	Standard ball, tapered, spherical
Mounting Styles	Top mount, channel inset, web mount
Frame Finishes	Painted, galvanized, stainless steel

Configuration Reference

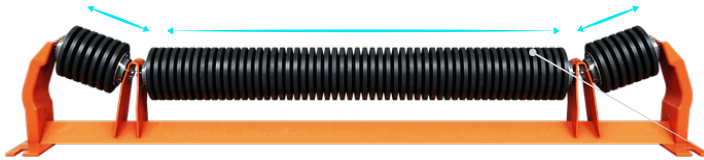
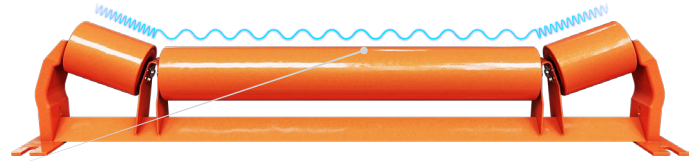
Seal Type	Primary Application	Protection Level
Dry Seal	Crushing, screening, dusty aggregate	Reinforced barrier
Wet Seal	Wash plants, dredging, high-moisture	Enhanced protection
Eco Seal	Washed sand and fines	Combined extreme condition protection
Titanium Seal	Severe-duty operations	Maximum durability

THE ENGINEERING ADVANTAGE

This section outlines the structural load distribution methodology behind picking idlers, covering frame geometry and seal integration to ensure exact system alignment and component longevity.

Center-Biased Load Distribution:

Directs the majority of the bulk material weight onto the long center roll, altering standard CEMA capacity calculations based on specific material density.

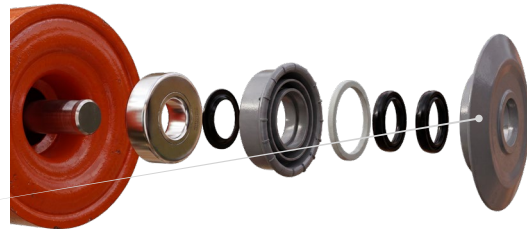


Trough Angle Access Geometry:

Configured in 20° profiles for maximum manual reach or 35° profiles for environments requiring increased lateral material containment.

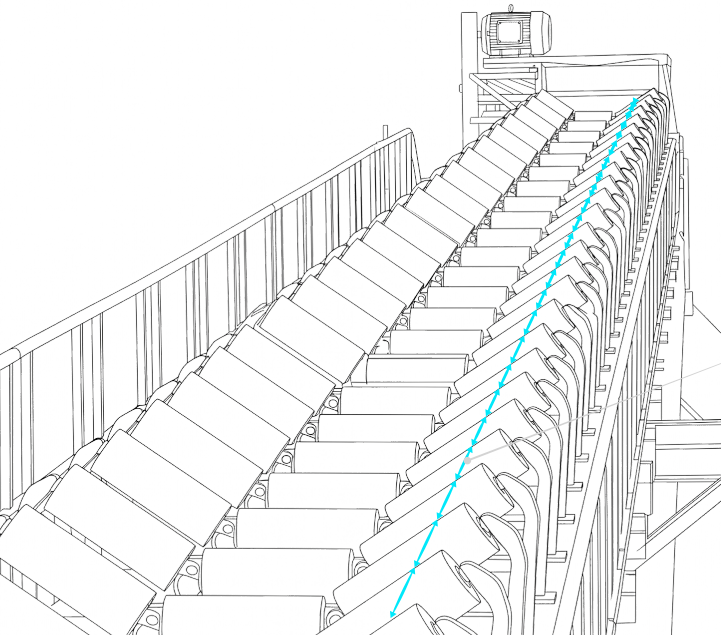
Application-Specific Seal Integration:

Isolates bearings from environmental contaminants using specialized barriers formulated for abrasive fines or high-moisture slurries.



Variable Spacing Load Management:

Limits belt sag to 3% of the spacing distance by positioning idler frames at tightened 3.5-foot to 5-foot intervals along the conveyor profile.



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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