

Drive and Take-Up Sections



Horizontal Gravity Take-Up with Tower



Vertical Gravity Take-Up



Scissors Take-Up

Engineering Factors

When designing a new overland conveyor system, there are a number of factors to consider:

- ▶ Conveyor Length
- ▶ Belt Width
- ▶ Tons per Hour
- ▶ Belt Speed
- ▶ Material
- ▶ Density (pounds/feet)
- ▶ Repose Angle
- ▶ Lay of the Land
- ▶ Discharge Height



Overland Conveyor System



Economically Smart

Overland conveyors offer cost-effective material transportation and a wide spectrum of capacities that can vary from a trickle of material all the way up to 10,000 tons per hour.

- ▶ Reduce dependency on haul trucks
- ▶ More downtime is required to keep trucks and loaders operating efficiently
- ▶ Conveyor systems are less labor intensive
- ▶ Lifespan of more than 20-plus years

Energy Efficient Idlers

Add Superior's Moxie® Rolls to create an even higher level of earth friendly, energy efficiency.

- ▶ Reduced weight decreases horsepower requirements
- ▶ Up to 3x quieter than conventional steel idlers
- ▶ Rust resistant high density polyethylene reduces change-outs

Environmentally Friendly

Beyond costs-per-ton, conveyors help users avoid ever-tightening and expensive environmental regulations.

- ▶ 98% reduction in particulate matter emissions
- ▶ Dust, noise and traffic reduction
- ▶ Eliminate dependency on unstable fuel prices

Industry Leading Warranty Coverage

Our industry leading warranty and support programs provide you with security and peace of mind.

- ▶ 5 year complete structural warranty
- ▶ 2 year complete conveyor warranty
- ▶ 2 year complete components warranty
- ▶ Local service and support

Impact to the Bottom Line: Conveyor vs Haul Truck

	Costly Environmental Emission Standards	Erratic Labor Costs	Increased Maintenance Requirements	High Noise Levels	
	Environmentally Friendly/Dust Control	Controlled Labor Costs	Average 20-year Life Span	Low Noise Levels	

For more information or to locate a dealer near you:
www.superior-ind.com or call 1-800-321-1558



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Overland Conveyor System

Truss Frame



- ▶ 24" deep chord lattice
- ▶ Pin and wedge bolt splice design
- ▶ 20' – 60' intermediate sections
- ▶ Bolt splices designed for uneven terrain



Channel Frame

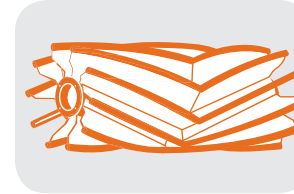


- ▶ Extra wide bolt flange
- ▶ Bolt-on support incorporated in splices
- ▶ Bolt-in cross members
- ▶ Bolt splices designed for uneven terrain

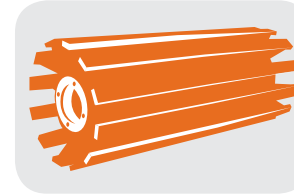


Wear Life Solutions

Transfer Points

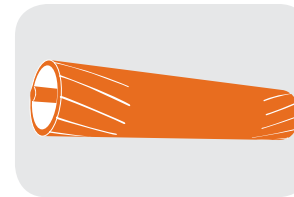


- Chevron® Wing Pulley**
- ▶ V-shape design sheds material
 - ▶ Reduced wing bending
 - ▶ Extends life of conveyor belt

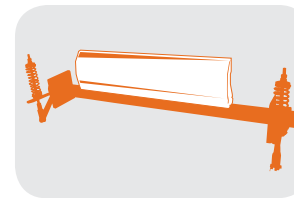


- Conveyor Pulleys**
- ▶ CEMA-rated Pulleys
 - ▶ Super Pulleys
 - ▶ Mine Duty Pulleys
 - ▶ Engineered Class Pulleys

Tracking and Cleaning

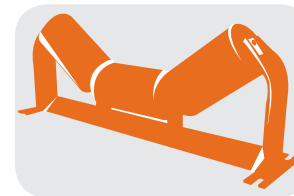


- Navigator® Return Trainer**
- ▶ Provides continuous belt alignment
 - ▶ No damaging side contact with belt
 - ▶ Flange mount bearings housed in center to avoid contamination

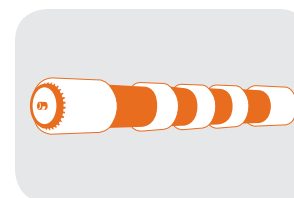


- Exterra® Belt Cleaner**
- ▶ Packed with more urethane for longer wear life
 - ▶ Simple installation and repair
 - ▶ Interchangeability between competitors

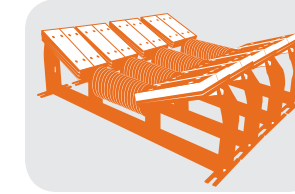
Idler Solutions



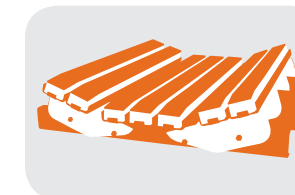
- CEMA-rated Idlers**
- ▶ Complete line of B through F
 - ▶ Bullet-proof bearing protection
 - ▶ Interchangeability between competitor stands



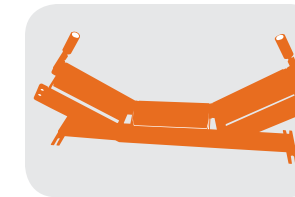
- Urathon® Return Roll**
- ▶ Prevent material buildup
 - ▶ 3x wear life of rubber tires
 - ▶ Abrasion resistant material



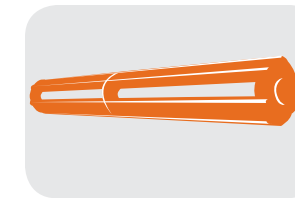
- Sealing System**
- ▶ Prevents belt sag in load zone
 - ▶ Eliminates spillage between belt and hopper skirting
 - ▶ Available in several configurations



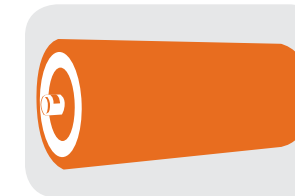
- Impact Beds**
- ▶ Low friction UHMW top layer
 - ▶ Replaceable bars available
 - ▶ Rigid frame provides extra support



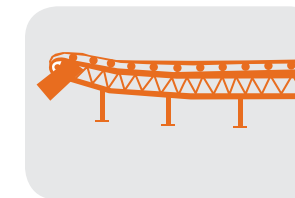
- Self-Aligners**
- ▶ Eliminate belt tracking issues
 - ▶ Urethane side guide rollers with concave shape are easy on belting



- Squirrel Cage Return Idler**
- ▶ Withstands beating action of belt
 - ▶ Helps shed material
 - ▶ Works well in sticky conditions



- Moxie® Rolls**
- ▶ Made of high density polyethylene
 - ▶ 50% lighter than steel
 - ▶ Up to 3x quieter than steel



- Other products include:**
- ▶ Sonicscout™ Material Sensor
 - ▶ Sentinel™ Belt Speed Sensors
 - ▶ Safety Stops