



*NEW CONVEYOR EQUIPMENT
PARTS & SERVICES
TURN-KEY SOLUTIONS*

LETTER FROM THE PRESIDENT & VP OF SALES



Jerry Roulett
CO-FOUNDER, PRESIDENT

DEAR VALUED CUSTOMER,

Thank you for taking the time to read our brochure. We hope the information within will give you a better understanding of who West River Conveyors + Machinery Co. is and how our reliable products and superior services set us apart from the competition. Our employees — from front office staff to engineers and machinists to regional sales people — are 100% committed to making your decision to buy from West River a positive experience.

At West River, we are dedicated to listening to and understanding your needs. Our people are passionate about getting it right. With more than thirty-five years of experience producing quality conveyors and products, we are ready to assist you with just about anything! We promise to build your equipment efficiently and at a competitive price. Allow us the opportunity to prove our value and trust us to provide a superior product for your operation.

We invite you to view our website at westriverconveyors.com for additional information about the company and the products and services we offer. For more in-depth information, specs, photos, and up-to-the-minute activities, Like us on Facebook at facebook.com/westriverconveyors or follow us on Twitter @WestRiverConv.

Again, thank you for taking the time to get to know us better. We hope that you will give us a call to quote your next project.

Sincerely,

Jerry Roulett & Joe Street



Joe Street
CO-FOUNDER, VP OF SALES

35+ YEARS OF FULFILLING OUR GOAL:

To provide excellent customer service and quality, competitively-priced conveyor products.

In 24 years of industrial distribution, West River is one of the best suppliers I have ever encountered. From initial project inquiry, and throughout the quoting, drawing, fabrication, and shipping processes, all phases were completed promptly, professionally, and most importantly — delivered on time! I was completely satisfied with the after sales support I received from West River's knowledgeable staff.

West River's production of an extremely challenging 100% prototype, specialized for a unique environment, with zero issues from start-up to commissioning, was a huge success for me and my mining customer. Their equipment has now run for twelve months plus with ZERO downtime.

— Todd Loessl, Applied Industrial Technologies Canada

COMPANY HISTORY

West River Conveyors + Machinery Co. has been a leader in custom-designed, custom-built belt drives and complete conveyor packages for more than 35 years. Family-owned and operated since the beginning, our focus is to supply competitively-priced, quality equipment for the sand and gravel, coal, potash, salt, trona, and precious minerals mining industries.

We are 100% focused on delivering for our customers — after all, they're the reason we're in business! Our pledge is to their exceed their expectations by building strong, long-lasting conveyor components that meet, and often exceed, the highest industry standard. Whether you need a belt drive, tail section, take-up unit, special design, or replacement parts, you can count on West River as a valuable partner to help you meet your production goals.

Founded in 1981, West River Conveyors + Machinery Co. was established to manufacture conveyor systems, rebuild used mining equipment, and repair all types of machinery. Before long, the opportunity to build our own brand of new belt drives and supporting conveyor components became our focus. With competitive prices backed by quality products, we developed a niche in the industry. To this day, our decision to be customer-focused remains one of our greatest advantages — and the key to our long-lasting business relationships.

In the late 1990s, steady growth in both the conveyor component manufacturing and used parts business led to the consolidation of our operations from four different locations into one. Anticipating this continuing trend, and for future growth of the company, we purchased 50+ acres in 2000 and moved our operations to where they are today. The efficiency of having our customer service staff, engineers, and machinists under one roof helps us to maintain our strong customer relationships.

Over the years, West River has expanded its manufacturing business to include buying and selling of used conveyor parts and speed reducers. In fact, we are now one of a few companies in the world who specialize in replacement parts for gearboxes! Gradually, our inventory of speed reducers has grown with hundreds available in a variety of brands, models, ratios, and horsepower.

In 2000, to complement our staff and manufacturing facility consolidation, we put our entire parts database online to make it easier for customers to search our extensive inventory.

Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution."

— William A. Foster
Medal of Honor Recipient



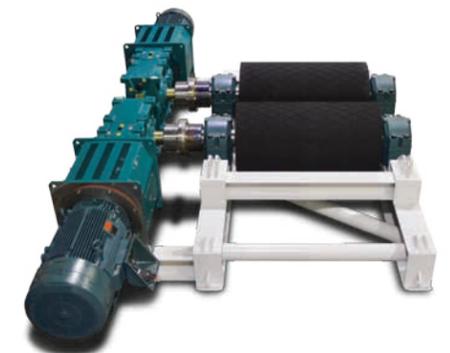
Mission Statement

West River Conveyors + Machinery Co. exists to provide the best quality conveyor equipment in the industry, continuously improving processes to exceed customer expectations, backing our products with first-rate service and support, and providing economic support for our employees and community. Our mission is to treat customers and employees fairly while always making the experience as personal as possible.

Value Principles

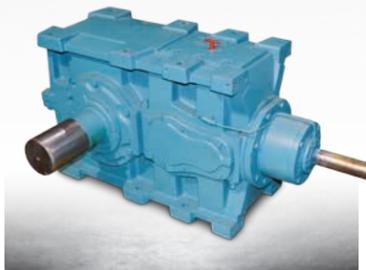
Our work shall be guided by the following values and beliefs:

1. **Respect** — we shall treat our customers and employees with respect
2. **Fairness** — fairness in our dealings with customers and employees, valuing diversity and being committed to equality
3. **Focus On The Individual** — treat our employees and customers as individuals making their experiences more personal
4. **Quality** — strive for excellence through continuous improvement of quality management processes and system
5. **Golden Rule** — treat others as you would like to be treated





We stock many conveyor component parts — sprockets, belt rollers, bearings, motors, fluid couplings, bull gears, backstops, pulleys, chains, and more.



We provide:

- 24/7 delivery as needed
- Exceptional customer service
- Quality parts at competitive prices
- Large in-stock inventory
- Unique components available

CONVEYOR SYSTEM COMPONENTS

West River Conveyors + Machinery Co. manufactures all of our conveyor equipment in our 100,000+ square foot, state-of-the-art facility that we've recently expanded to accommodate the growing demand for our products.

We provide complete conveyor systems and components to the coal, sand and gravel, trona, salt, and potash industries. Our products have been tough tested in the most demanding underground and above-ground bulk mining operations and are equipped with industry-leading brand parts.

West River is committed to building quality products and exercises quality control in everything we build and sell. We ensure customer satisfaction with every item that leaves the building. Our new equipment product lines include **belt drives, tail sections, take-up units, starters, belt storage units, winches, and power packs**, all built to your exact specifications. West River uses *Overland Conveyor* to create special designs and unique fabrications to fit your application.

Our line of belt drives includes the popular alignment-free drive, combination drive/take-up unit, chain driven drive, shaft mounted reducer belt driven drive, and more. A majority of our drives have been built to customer specifications for unique applications.

NEW & USED INVENTORY

West River Conveyors + Machinery Co. has sold new and used equipment in nearly all 50 states and more than 10 different countries. Our 50+ acre property and 30,000+ square foot warehouse are stocked with an inventory of new and used parts ready to sell in a pinch. Our goal is to limit your downtime by replacing what you need as quickly as possible. The West River team is dedicated to providing superior customer service 24/7 and will strive to minimize your loss of production time.

We supply reducers and components for the coal, sand, gravel, gold, silver, sugar, wood, paper, and zinc industries both domestically and abroad. In fact, West River stocks more used speed reducers than anyone in the United States! We have reducer components — including housing, gearing, and shafting — in new, surplus new, and used condition for top brands including Falk, Link Belt, Hansen, Dodge, Foote Jones, Browning, REX, and more.

View our parts inventory online at westriverconveyors.com.

WEST RIVER CONVEYORS QUALITY POLICY:

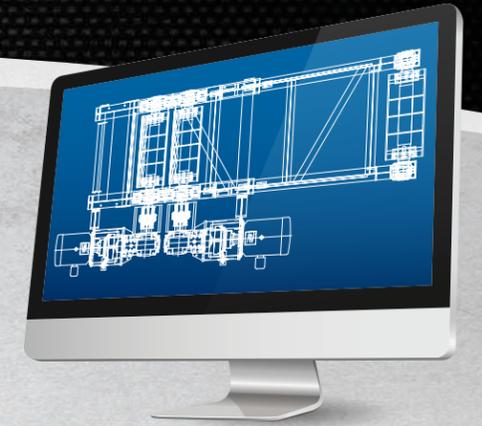
- V** OICES concerns if quality is being compromised.
- A** IMS for continuous improvement.
- L** EADS by example.
- U** NDERSTANDS individual contributions to the QMS.
- E** XCEEDS customer expectations.



WEST RIVER DESIGN PROCESS

West River Conveyors + Machinery Co. offers flexibility for a customer to participate in the production of their customized equipment, ensuring its accuracy down to the last bolt. Constructed from carefully selected, industry leading materials produces a stronger and more rigid, mine-duty frame that doesn't distort during installation or use.

West River also uses heavier steel than most other companies — resulting in a product that surpasses the basic requirements for the most demanding bulk material handling operations. Superior products, in combination with our excellent customer service, makes working with West River a favorable investment.



West River products are fully customizable down to the last bolt placement

BELTING & STRUCTURE

West River Conveyors + Machinery Co. partners with quality vendors to offer competitively-priced belt and structure options alongside our new conveyor systems. This cultivates a pain-free purchasing experience for our customers — purchasing a total conveyor package all under one roof!

» Belt

West River is an exclusive distributor of Depreux conveyor belts, a division of Cobra. For detailed information about the products that they offer, please visit www.cobra-cs.com. Conveyor belts provided by Cobra are MSHA-approved, have higher mechanical corrosion resistance than other comparable belts, possess a more robust carcass, and have excellent fastener holding ability. Belts come in a variety of widths, are fire-resistant, and comply with satisfactory national and international standards.

Options:

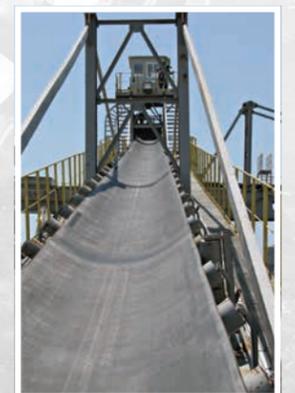
- Available in 20" to 84" belth widths
- Multi-ply, mono-ply, and steel cord belts available with rubber and/or PVC covers
- MSHA Part 14 fire resistant
- Mechanical splicing kits available

» Structure

Structure is offered from West River Conveyors in both floor and roof-mount designs in a variety of sizes and angles to meet CEMA standards for load ratings, safety and durability. Structure is available in both catenary and rigid rail type in CEMA C, D and E classes to accommodate all applications.

Options:

- Available from 30-72" belt width
- Structure available from quality vendors
- Both types (catenary & rigid rail) available in CEMA C, D & E classes



BELT DRIVES

West River Conveyors + Machinery Co. specializes in new conveyor equipment and belt drives tailored to specific operational needs for underground and above-ground operations.

» Alignment-Free Drives

An alignment-free drive refers to the power base components — reducer, fluid coupling, and motor — properly constructed to eliminate shaft misalignment. With an alignment-free drive, there are two critical elements, input and output, where the need to align is completely eradicated, making it a great choice for those interested in long-term cost savings and efficiency.

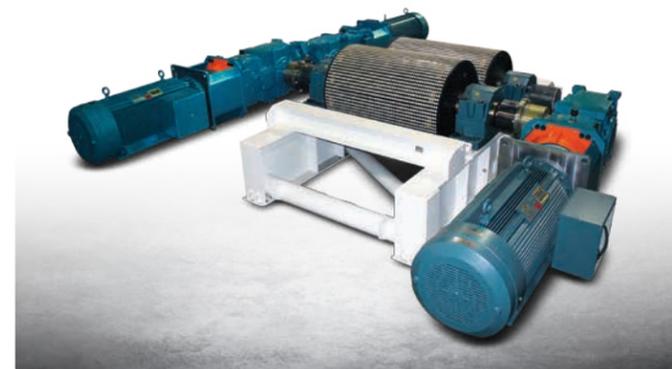
Benefits:

- Eliminates catastrophic immediate failure of input if misaligned
- Eliminates rapid wear of components if output is misaligned
- Most energy efficient choice, none wasted in transmission
- Reduces need for spare parts inventory
- Bolt-together construction allows for ease of installation

All West River belt drives are available in any desired belt width and HP/voltage required for your mining operation.



Conceptual 3D rendering of Triple 450HP Alignment-Free Conveyor with catwalks.



Triple 500HP Alignment-Free Drive.

» Alignment-Free Combination Drive/ Take-Up Units

The Alignment-Free Combination Drive, sometimes called a “boom” drive, uses a rigid low speed coupling and fluid coupling with a tunnel instead of traditional belts and sheaves. By eliminating the use of belts and sheaves, the need to align the drive is completely eradicated, making it a popular choice for operations where reconfiguring often is necessary.

Benefits:

- Quick installation
- Quick transport from one location to another as drive and take-up are on one movable base
- Readily available, less expensive components
- Need for alignment is eradicated
- Components can be used to match other 150HP & 200HP drives

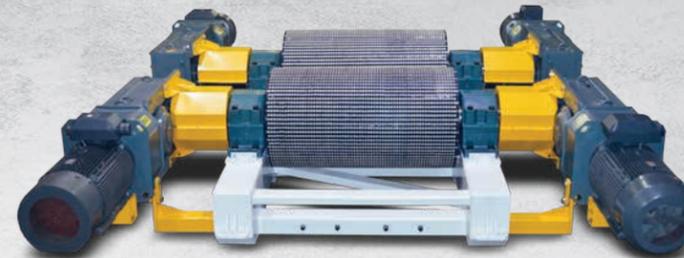
Note: West River also builds traditional combination belt drives with belts and sheaves. Call us for availability.



Conceptual 3D rendering of an Alignment-Free Combination Drive/Take-Up Unit.



Single 150HP Alignment-Free Combination Drive/Take-Up Unit

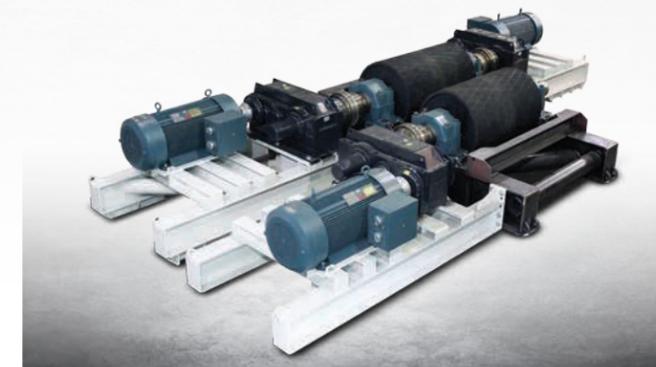


» Reconditioned A-F Drives

West River frequently has enough inventory at any given time to rebuild a number of alignment-free conveyors. Rebuilt drives are available as dual, triple or quad horsepower and can be customized with options to suit your operational requirements. The ability to use different combinations and configurations — such as grid couplings or fluid couplings — makes ordering a reconditioned alignment-free drive ideal for those looking to invest in quality products that suit a conscientious budget.

Benefits:

- Dual, Triple, or Quad HP
- Turnaround time: 7-10 days
- Fully customizable to fit your budget



» VFD Belt Drive

The VFD Belt Drive uses a special inverter-duty constant torque motor that works in conjunction with the VFD starter. The special motor installed on the VFD drive allows the frequency of the electrical power supplied to the motor to increase speed, maneuverability, and responsiveness. With other types of starters, high currents occur when turning on a switch. With a VFD drive, a low frequency starts the motor.

Benefits:

- Maximizes energy savings by reducing the speed of the motor (consumes less energy)
- Low motor starting current
- Simple installation

STARTERS

West River Conveyors + Machinery Co. can supply any type of starter to accommodate your particular drive.

» Across-the-line Starters

This type of starter is the simplest, most common type because it applies full voltage directly to the motor, resulting in a quick, full torque start.

Benefits:

- Works with NEMA designed induction motors
- Easy on/off push button
- Applies full voltage directly to the motor



» Soft Start Starters

Unlike across-the-line starters, soft starters are used to start or stop motors by reducing the voltage to each phase of a motor and slowly increasing the voltage until the motor gets up to full voltage at a fixed frequency.

Benefits:

- Minimizes wear and tear on conveyor belts, gears and gearboxes by reducing the torque from the motor
- Offers more control over start times and speed control
- Larger energy savings than any other kind of starter

» VFD Starters

A variable frequency drive (VFD) starter controls the frequency of the electrical power supplied to a motor to increase speed, maneuverability, and responsiveness. This type of starter is widely used because it initially applies a low frequency to start the motor, avoiding the high current that occurs by turning on a switch. Using a VFD starter increases longevity of the drive while achieving additional energy and cost savings.

Benefits:

- Maximizes energy savings (by reduced motor speed)
- Low motor starting current
- Simple installation



TAIL SECTIONS

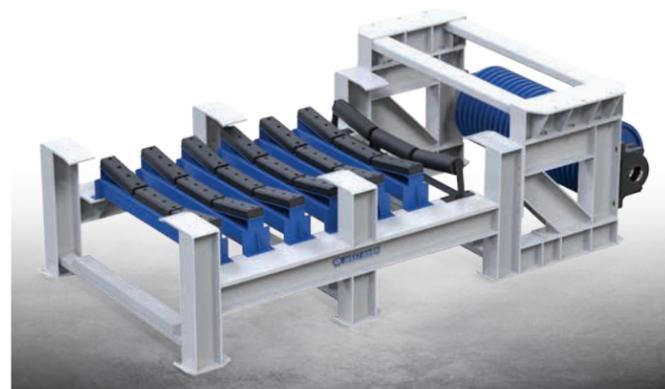
West River Conveyors + Machinery Co. has built an impressive and growing total of more than 1,800 tail sections in numerous configurations. Among those, we have manufactured various designs, sizes, and types to suit a variety of conveyor needs.

Field-proven to provide maximum performance in the harshest mining conditions, we have tail sections available in various heights and belt widths ranging from 36" to 96". Our designs incorporate structural steel frames, spiral or winged tail pulleys, specially designed glide beds, and sturdy, durable MSHA-approved impact beds.

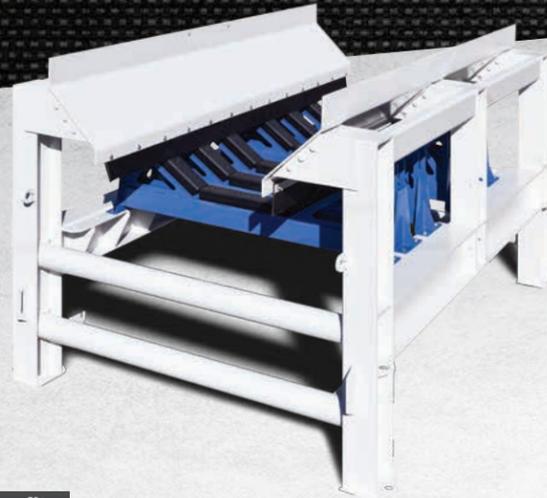
Tail sections are an essential component to the performance of any conveyor system. We can design many different types of tail sections for various conveyor requirements including conveyor length and horsepower. West River tail sections are built to maximize performance and simplify maintenance.



54" glide bar tail section with guarding around spiral tail pulley.



Conceptual 3-D Drawing of 60" x 14' tail section without hinged covers or guarding.



Benefits:

- Proven heavy-duty structural design
- Ability to provide a quick turnaround if needed
- Ability to custom-design a tail section to fit unique applications

Our in-house manufacturing and fabrication resources allow us to provide high quality inspected and functionally tested tail sections, which include Glide Bar, Impact Bed, Impact Idler, Feed Thru, and AR Plate.



New 72" x 17' impact bed modular loading section.



Intermediate loading section assembly with adjustable discharge chute.



ELECTRIC WINCHES

West River Conveyors + Machinery Co. constant tension winches are used as an alternative to cylinder designed take-ups. They offer a quicker response time, varying amounts of line pull, and greater belt storage capacity. By providing constant tension under dynamic loads, they relieve motor overload by peaking torque prior to start-up, regardless of belt speed.

» 150HP Constant Tension Winch

This Constant Tension Winch was built to handle demanding loads carried by lengthy, high-capacity conveyors. When you need longer take-up travel for high tension applications, electric constant tension winches are your solution.

Benefits:

- Quicker response time
- Improves conveyor operation
- Minimal installation
- Provides constant tension under dynamic loads to relieve motor overload — regardless of belt speed
- Better option for longer take-up travel for high tension applications
- Varying amounts of line pull and greater belt storage capacity



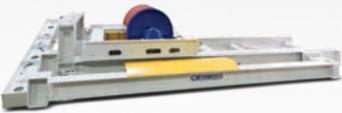
HYDRAULIC TAKE-UP UNITS

West River Conveyors + Machinery Co. builds new hydraulic take-up units in a variety of sizes. As conveyor systems lengthen, maintaining stable belt tension is necessary. Installing take-up units at multiple locations along the conveyor belt helps to maintain stable belt tension and prevent excessive belt sag.

The 20/40 hydraulic take-up is the most common, but we often recommend lengths based on your needs. We build take-ups with a variety of options including cylinder selection and travel length/belt storage features in any desired belt width.

Benefits:

- Extends the life of conveyor belts
- Assists smooth start-up of unit by decreasing slippage
- Belt storage feature allows for belt splicing (as needed)
- Built with heavy-duty shafts, pulleys and split-house bearings



HYDRAULIC POWER PACKS

West River Conveyors + Machinery Co. carries a variety of hydraulic power packs for use with our take-up units and electric winches. In stock we have standard t-frame motors including 5, 7.5, and 20 HP units. Our engineers have also successfully manufactured custom hydraulic power packs for many different take-up styles and sizes.

Power packs are the motive source of any size take-up unit. Its primary function is to provide the necessary hydraulic/oil flow in gallons per minute to properly power a take-up. The power pack serves as a reservoir to store oil for the pump. The flow of oil in the power pack determines how fast the carriage travels to the take-up unit. The pressure created by the power pack is the determining factor in the strength of pull the take-up unit achieves.



West River specializes in building and tailoring new equipment to a customer's specific operational needs.

SPECIAL DESIGN & CUSTOM FABRICATION

West River Conveyors + Machinery Co. can construct conveyor equipment to accommodate any unique application. We have built a variety of special-designed items including tail sections, drives for slope-designed belts, take-up units for specific industries, and belt storage units that can accommodate a variety of belt lengths.



» Drive + Take-up Assembly

This 48" dual 150HP VFD-rated alignment-free drive was designed for trona mining. Both the drive and take-up unit were fully assembled and tested in our shop prior to shipping. The drive unit was designed to include a heavy-duty fabricated discharge chute per customer's request. Area safety guarding in an easy-to-use system allows for separate panels with handles for stress-free handling.



» Belt Storage Unit

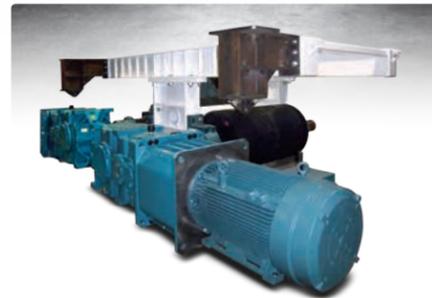
Hydraulic powered belt storage units can be configured for any above-ground or underground mining operation. They are available in any belt width and allow for multiple belt storage capacities from 40-50 feet up to 400-800 feet and larger. Multiple designs can be used for long panel advancements on a main belt line, preventing frequent belt splicing.



» Remote 90° Chute

This 90 degree adjustable, free-standing discharge chute was special-designed to customer specifications. The chute, which is attached to the 60" BW x 17' intermediate loading section, was designed specifically for a Trona operation. Specific idlers and belt cleaners were requested to suit the mine's needs.

» Custom Roof/"Back" Mount Design + Safeguarding



Dual 300HP VFD Belt Drive

This West River project was designed to be "back" mounted — bolting to the roof of the mine instead of the floor — using heavy-duty structural steel. It has two alignment-free power bases with heavy-duty detachable low speed coupling guards and extended shaft guards as required by the customer.



Electric Winch + Safety Guarding

Per request, this winch was set up for roof/"back" mount. Vertical beams attached to the winch support it from the ceiling, allowing for proper connection to a take-up unit. Added metal safety guarding surrounding the drive and frame is an extra measure to protect workers from moving parts.

» Sloped Belt Drive Design



Quad 48"/54" 300HP Slope Belt Drive

West River engineers designed this unique drive for an operation that required the drive to work with a slope down to the coal seam. This special-designed unit was equipped with a basic across-the-line starter and stands as an excellent example of our capabilities in custom-built conveyor systems.



» Remote Discharges

Remote discharges are designed to transfer materials to the conveyor belt. Our engineers can design many different styles of Remote Discharge Booms and Transfer Stations to exact customer specifications.

West River's heavy-duty structural steel design can accommodate many options including belt cleaner mounting provisions, floor or roof mount design, engineered pulleys, adjustable or fixed booms, and more.

» 48" Remote Discharge

This 48" belt width, adjustable remote discharge boom was built specifically for a salt mine operation. It has a 34" x 57" custom-engineered flat face pulley.

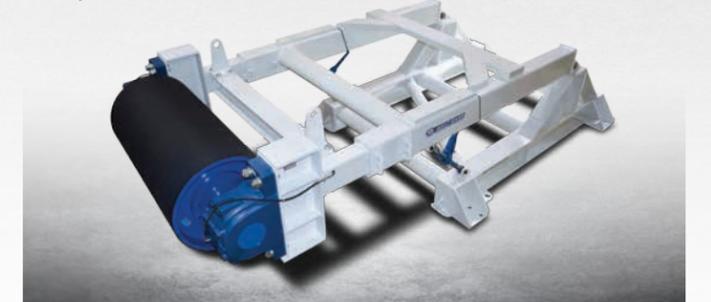
Options:

- Belt cleaner mounting provisions
- Adjustable or fixed design
- Floor or roof mount
- Engineered pulleys



» 54" Remote Discharge

This unit was designed with adjustable angular boom jacks that gives it the ability to extend four feet. The frame was designed with mounting pads to allow for bolting to the mine floor. The discharge pulley was equipped with area safety guarding prior to shipment.



ADDITIONAL SERVICES

Laser Shaft Alignment

Belt drive misalignment is one of the most common causes of premature drive failure. West River offers laser shaft alignment on the input and output sides of the reducer to assure your drive is aligned properly. Our experienced technicians, with more than 40 years of combined experience, can detect and avert catastrophic failure before it occurs.

Installation & Start-up

West River technicians are available for onsite supervision of installation and start-up — another way we're able to customize products to suit your needs.

By having one or more technicians onsite, they're able to see first-hand ways to improve packaging, delivery, and handling.



Belt Assessments

Onsite assessment of your conveyor line can detect potential issues before they become major problems. West River's objective is to find long-term solutions, not temporary fixes, by taking both preventative and predictive maintenance measures. Once we determine that your conveyor system is designed to proper size and specification for your operation, we can help you minimize future repair costs and avoid costly downtime due to drive failure.

Learn more about our professional conveyor belt assessments by calling us directly or by visiting our website.

- Belt Drives*
- Take-up Units*
- Tail Sections*
- VFD Power Centers*
- Custom Design*
- Starters*
- Transfer Stations*
- Belting & Structure*
- Discharge Booms*
- Winches*
- Power Packs*
- Belt Storage Units*



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