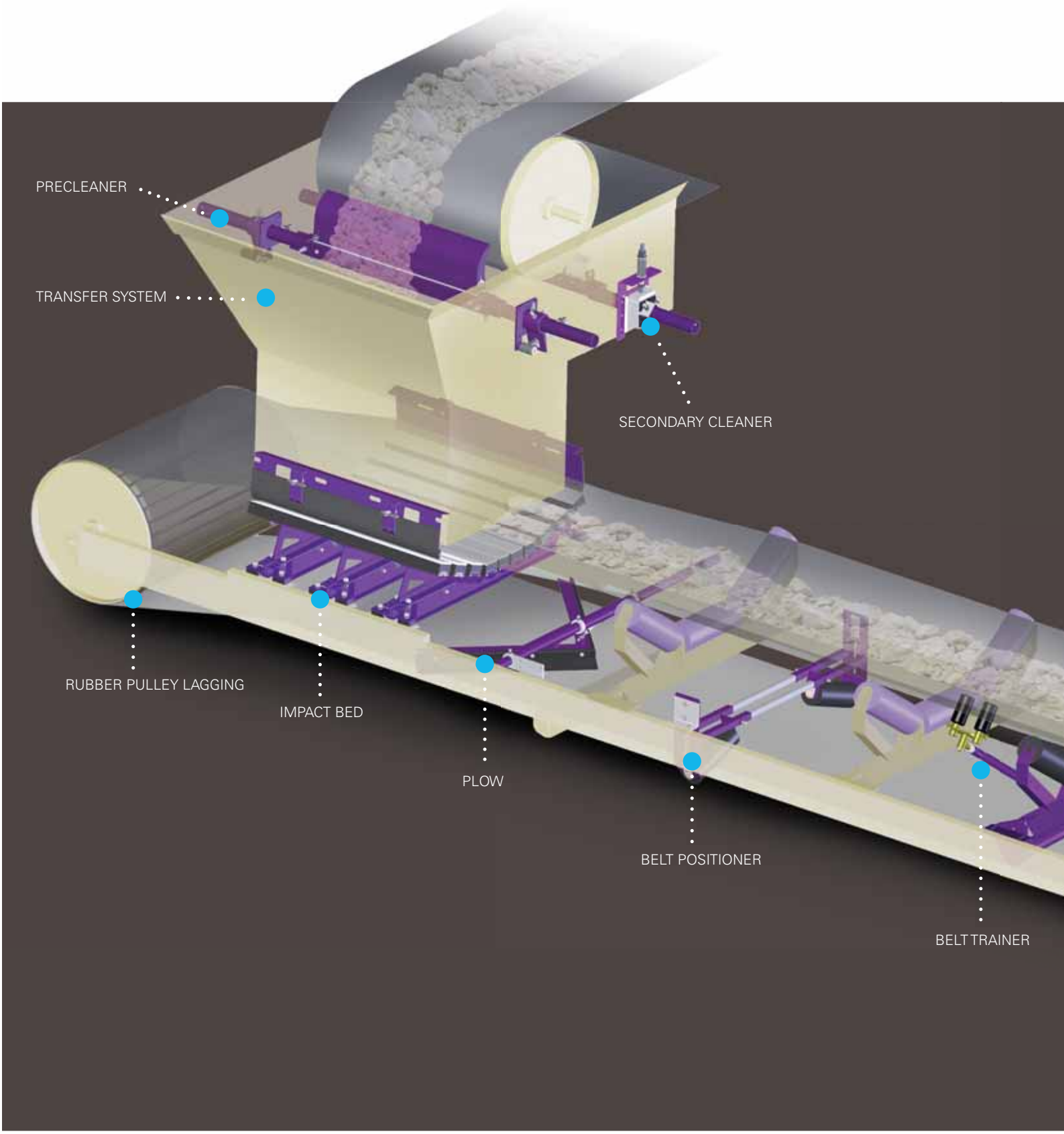
BELT CONVEYOR PRODUCTS

Keep your line up and running.

FLEXCO

Partners in Productivity

SOLUTIONS FOR EVERY ISSUE ALONG THE BELT LINE



With over 100 years of experience in the belt conveyor industry, Flexco knows that keeping your line running smoothly is essential to the success of your operation. That's why we've developed a comprehensive line of innovative belt conveyor products that address the key issues you face.

Carryback

Material that sticks to the belt after it leaves the transfer point and continues falling off along the conveyor's return side. To address carryback, we offer:

- Belt Cleaners
- Belt Plows
- Cleaner Blades

Mistracking

Belt drifts to one side or the other, resulting in material spillage, uneven belt wear, and possible system damage. To combat mistracking, we offer:

- Belt Trainers
- Belt Positioners

Belt Slip

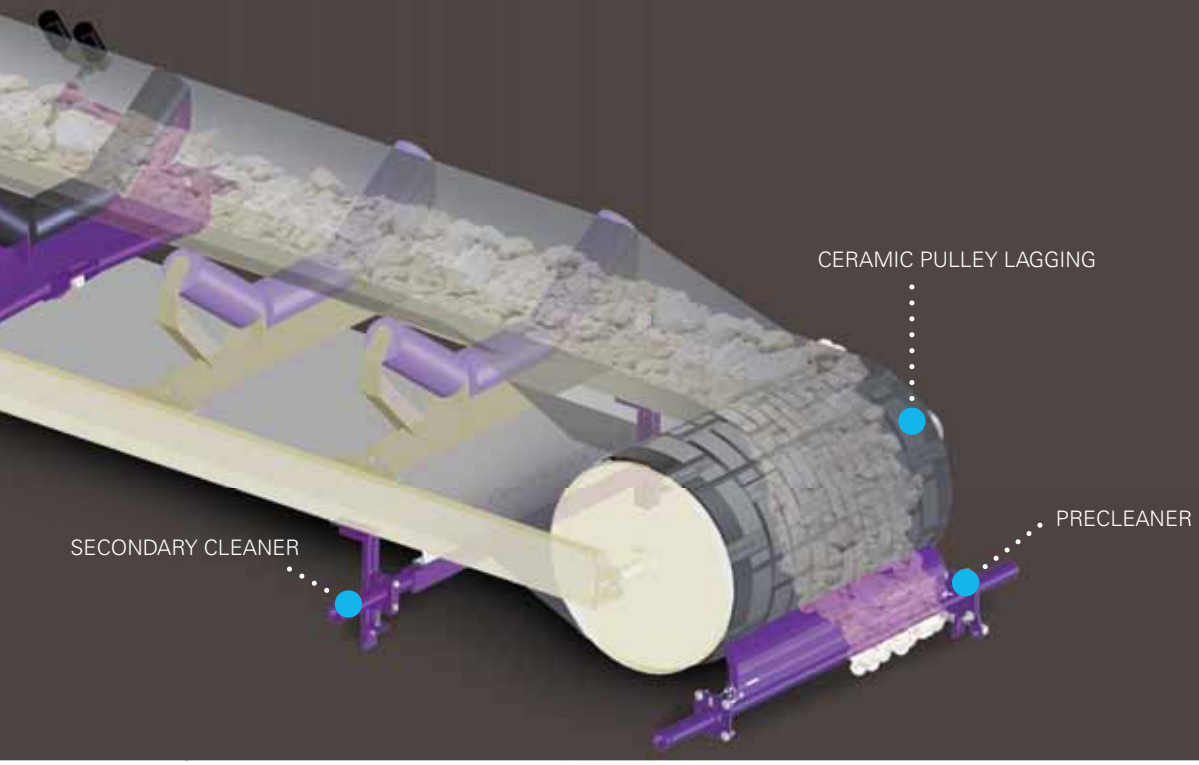
Occurs when the head pulley is not adequately gripping the belt due to a loss of friction. To combat slippage, we offer:

- Ceramic Pulley Lagging
- Rubber Pulley Lagging

Spillage

Material that spills off the belt, typically at transfer and load points. To combat spillage, we offer:

- Skirt Clamps
- Impact Beds
- Belt Plows



THE FLEXCO DIFFERENCE

Innovative Designs, Superior Engineering, Industry Expertise

Since 1907, we've been dedicated to improving belt performance and productivity. That's meant spending a lot of time in the field, working alongside customers and learning about their everyday challenges — first-hand.

We use that hard-won knowledge to design belt conveyor products that work better and last longer. In fact, we pioneered many of the advanced features that have since become industry standards.

Cleaner Innovations

- Patented, Faceted Blade Profile — These blades continually renew their edges, creating more efficient cleaning
- Better-Performing Tungsten Carbide Cleaner Blades — After years of testing and research, we've created blades that last longer and wear more evenly
- Heavy-Duty Spring Tensioning Systems — An important part of our cleaning systems, our tensioners enable easy visual inspection and maintain proper tension
- "Material Path" Cleaning — This unique option lets you match your cleaner width to your actual material path, reducing differential blade wear
- Larger Diameter Poles — Our poles are designed to resist the powerful twisting forces caused by continuous belt motion

Belt Tracking Innovations

- Pivot-and-Tilt technology — Special sensors detect belt wander, then guide the belt back to the correct path

Impact Bed Innovations

- Velocity Reduction Technology™ — An exclusive feature of our impact beds, this technology deadens impact energy for less rebound and material degradation
- Slide-Out Service™ — Designed for fast and safe complete bar change outs

Lagging Innovations

- The Highest Coefficient of Friction on the Market — Our Flex-Lag® Ceramic lagging offers up to three times the friction of rubber lagging
- An 80%-Ceramic Solution — We were the first to market with this option
- Incredibly Fast Installation — Our weld-on lagging is 50% faster to install than other lagging products

Mineline® – When "standard" products just won't do.

Flexco Mineline® products have been designed and engineered to work — day in and day out — in some of the toughest applications in the world. Regardless of the application, whether it be underground coal mining, port loading facilities, or other heavy tonnage applications that test the strength and durability of your conveyor system, Mineline® is the answer. Customers have come to expect a Flexco cleaner, impact bed or tracker with the Mineline® brand by its name to excel — even in situations where other products have failed. Next to Mineline endorsed products, you'll find this mark:

MINELINE

MINE TESTED
MINELINE
CERTIFIED TOUGH

Flexco Belt Conveyor Products Deliver Benefits for Your Belt — and Your Bottom Line

Budget Savings

- Flexco cleaners and other belt conveyor products increase the life of the belt by reducing wear from carryback, mistracking, and other issues. Given the cost of belting, being able to keep your belts longer can mean substantial savings.
- Our products also help reduce wear on other key conveyor components, like rollers, pulleys, splices, and more. That saves you even more money.
- By cutting down on carryback, spillage, and other belt problems, our products also reduce safety hazards. And as you know, accidents can be costly — in terms of lost productivity and possible fines.

Lower Maintenance Costs

- Because they reduce carryback and spillage, our belt conveyor products cut down on time-consuming cleanup.
- When your belt and other important conveyor components are protected from damage, you can spend less time making repairs and less money buying replacement components. In fact, studies show that reducing carryback from 3 percent to 1 percent can result in a 67 percent reduction in maintenance costs.

Consistent, Efficient Performance

- Unscheduled shutdowns for maintenance or repairs mean serious production losses. Our belt conveyor products help you maximize uptime by correcting the issues — such as mistracking and carryback — that typically cause system damage.

Greater Safety

- Studies show that approximately 42 percent of conveyor-related accidents occur during maintenance activities. Our cleaners and other belt conveyor products minimize the need for maintenance and reduce the risk of accidents.

Serviceability

- Proper servicing of products, such as belt cleaners and impact beds, is key to ensuring effective and long-lasting performance. That's why all Flexco products are designed with features that make regular servicing easy.
- We are continually enhancing our already service-friendly products, making them even easier to maintain. For example, we've added an easy-to-replace blade cartridge to our MHS Heavy-Duty Secondary Cleaner, and Slide-Out Service™ bars to our DRX™ Impact Beds.

YOUR ISSUE: CARRYBACK
OUR SOLUTION: ADVANCED CLEANING SYSTEMS

Step 1 Understand Your Options

BELT CLEANERS

Precleaners

- Mounted to the head pulley and below the material flow
- Ideal for removing large pieces of material — typically about 60 - 70 percent of initial carryback

Secondary cleaners

- Located just past where the belt leaves the head pulley — and anywhere else down the beltline
- Especially good at removing fines, increasing cleaning efficiency to 90+ percent

BLADE OPTIONS

Polyurethane

- Easier on the belt
- Works well with mechanical splices
- Economical
- Specialty formulations for high heat, chemical resistance, or water removal

Tungsten carbide:

- Superior cleaning efficiency
- Long wear

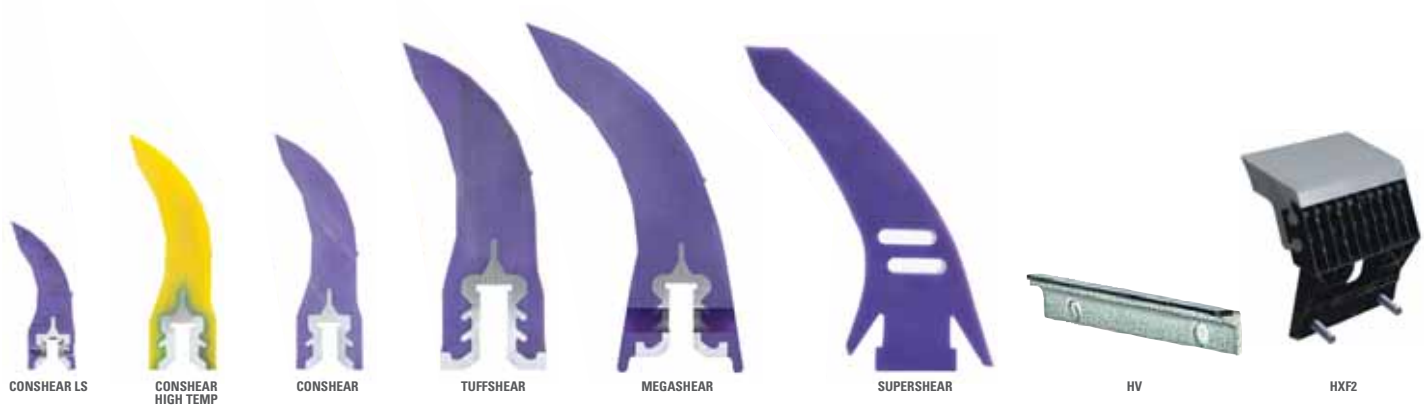
Step 2 10 Key Criteria for Analyzing Your Conveyor System

1. Your belt speed and belt width
2. Whether the belt reverses
3. Your conveyor structure width
4. Your pulley diameter — typically, the larger the pulley, the larger the required cleaner
5. Your pulley condition — if the pulley is worn or not perfectly round, a segmented blade may clean more effectively
6. Where you plan to position the cleaner and how much room there is to accommodate it
7. What types of splices are present and their condition
8. Any unusual characteristics of your load or environment (extreme heat, abrasiveness, mud, etc.) — a specialty cleaner that can withstand these conditions may be necessary
9. The material's path on the belt — matching the cleaner to the material path reduces differential blade wear
10. Your desired level of performance and upkeep

Step 3 Determine Whether You Need a Complete Solution

Some operators want their belts as clean as possible; others are comfortable with a certain amount of renegade material.

To achieve maximum cleaning efficiency, it's best to bring together a precleaner and one or more secondary cleaners to form a comprehensive system. If you only want to install a single cleaner, try to target the area — such as the head pulley — where it will have the greatest effect.



CONSHEAR LS | CONSHEAR HIGH TEMP | CONSHEAR | TUFFSHEAR | MEGASHEAR | SUPERSHEAR | HV | HXF2

Precleaner Options

Application Description	EZP-LS	EZP1	EZP1 High Temp	MSP	MMP	MHP	MHCP	H-Type® (XF2 & XF)	H-Type® (V)	High Temp V-Tip
Belt Width*	12" – 60" 300 – 1500 mm	12" – 72" 300 – 1800 mm	12" – 72" 300 – 1800 mm	24" – 84" 600 – 2100 mm	24" – 84" 600 – 2100 mm	24" – 96" 600 – 2400 mm	24" – 84" 600 – 2100 mm	18" – 72" 450 – 1800 mm	18" – 72" 450 – 1800 mm	18" – 48" 450 – 1200 mm
Belt Speed**	<500 fpm 2.5 m/sec	<700 fpm 3.5 m/sec	<700 fpm 3.5 m/sec	<700 fpm 3.5 m/sec	<1000 fpm 5.0 m/sec	<1500 fpm 7.5 m/sec	<1200 fpm 6.0 m/sec	<700 fpm 3.5 m/sec	<1000 fpm 5.0 m/sec	<1000 fpm 5.0 m/sec
Head Pulley Diameter	6" – 22" 150 – 550 mm	10" – 36" 250 – 900 mm	10" – 36" 250 – 900 mm	16" – 42" 400 – 1050 mm	16" – 48" 400 – 1200 mm	20" – 120" 500 – 3000 mm	20" – 48" 500 – 1200 mm	10" – 53" 250 – 1325 mm	10" – 63" 250 – 1575 mm	8" – 35" 200 – 875 mm
Temperature Range	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	up to 275°F (135°C with spikes to 325°F (163°C)	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 400°F -35 to 205°C	-30 to 400°F -35 to 205°C
Blade	ConShear LS	ConShear	ConShear	ConShear	TuffShear	MegaShear	SuperShear	HXF, HXF2	HV	HV
Reversing Belts	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mechanical Fasteners	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No

**Special sizes available upon request.*

***Belt speeds can be higher in vulcanized applications.*

C-TIP | RV-TIP | PV-TIP | UF BLADE | UC/UV BLADE | DRY WIPE | CHEVRON

Secondary Cleaner Options

Application Description	EZS2 (C-Tip)	MSS (C-Tip)	MSS (V-Tip)	MHS (C-Tip)	MHS (V-Tip)	MDWS	P-Type® (C-Tip)	P-Type (V-Tip)	P-Type LS (C-Tip)	U-Type® (F-Blade)	U-Type (C-Blade)
Belt Width*	18" – 72" 450 – 1800 mm	24" – 84" 600 – 2100 mm	24" – 84" 600 – 2100 mm	24" – 84" 600 – 2100 mm	24" – 84" 600 – 2100 mm	24" – 84" 600 – 2100 mm	18" – 72" 450 – 1800 mm	18" – 72" 450 – 1800 mm	18" – 54" 450 – 1350 mm	18" – 84" 450 – 2100 mm	18" – 84" 450 – 2100 mm
Belt Speed**	<700 fpm 3.5 m/sec	<1000 fpm 5.0 m/sec	<1000 fpm 5.0 m/sec	<1200 fpm 6.0 m/sec	<1200 fpm 6.0 m/sec	<1000 fpm 5.0 m/sec	<1000 fpm 5.0 m/sec	<1000 fpm 5.0 m/sec	<1000 fpm 5.0 m/sec	<1000 fpm 5.0 m/sec	<1200 fpm 6.0 m/sec
Temperature Range	-30 to 200°F -35 to 93°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C
Reversing Belts	No	No	No	Yes	Yes	Yes	No	No	No	No	No
Work with Mechanical Fasteners	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes	Yes

Application Description	U-Type (V-Blade)	R-Type® (C-Tip)	R-Type (V-Tip)	EZS2 High Temp	Chevron
Belt Width*	18" – 84" 450 – 2100 mm	18" – 72" 450 – 1800 mm	18" – 72" 450 – 1800 mm	18" – 72" 450 – 1800 mm	18" – 60" 450 – 1500 mm
Belt Speed**	<1200 fpm 6.0 m/sec	<1000 fpm 5.0 m/sec	<1000 fpm 5.0 m/sec	<700 fpm 3.5 m/sec	<500 fpm 2.5 m/sec
Temperature Range	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 180°F -35 to 82°C	-30 to 400°F -35 to 205°C	-30 to 180°F -35 to 82°C
Reversing Belts	No	Yes	Yes	No	Yes
Work with Mechanical Fasteners	No	Yes	No	Yes	Yes

**Special sizes available upon request.*

***Belt speeds can be higher in vulcanized applications.*

FLEXCO PRECLEANERS

FEATURES & APPLICATIONS

EZP-LS "Limited Space" Precleaner

- Compact design with shorter pole length
- Standard-duty, solid-blade design
- Visual tension check
- Do-it-yourself installation and minimal maintenance

Maximum Belt Speed – 500 fpm (2.5 m/sec)*

Pulley Diameter from 6" – 22" (150 – 550 mm)

Applications – Brick/Block Plants, Ready Mix Plants, Road/Mobile Equipment

EZP1 Rockline® Precleaner

- Standard-duty, with 2 3/8" diameter pole
- Visual tension check
- Requires just 4" of horizontal clearance
- Do-it-yourself installation and minimal maintenance

Maximum Belt Speed – 700 fpm (3.5 m/sec)*

Pulley Diameter from 10" – 36" (250 – 900 mm)

Applications – Aggregate, Sand & Gravel, Cement, Wood Processing, Recycling

Applications listed are intended to identify where each cleaner is commonly and most effectively utilized. Belt conditions, belt speeds, and pulley diameters should all be considered before making a final product selection. Consult Flexco to assess specific applications and recommendations.

High-Temp EZP1 Precleaner

- Standard-duty, solid-blade design rated up to 275° F
- Visual tension check
- Requires just 4" of horizontal clearance
- Do-it-yourself installation and minimal maintenance
- Can handle temperature spikes to 325° F

Maximum Belt Speed – 700 fpm (3.5 m/sec)*
Pulley Diameter from 10" – 36" (250 – 900 mm)
Applications – Coke, Clinker, Cement, Asphalt

MSP Standard Mine-Duty Precleaner

- Standard Mine-Duty, with 2 7/8" diameter rugged pole design
- Do-it-yourself installation and easy maintenance
- Visual tension check
- Highly effective cleaning

Maximum Belt Speed – 700 fpm (3.5 m/sec)*
Pulley Diameter from 16" – 42" (400 – 1050 mm)
Applications – Aggregate, Sand & Gravel, Cement, Wood Processing, Recycling

Stainless Steel MSP Standard Mine-Duty Precleaner

- Stainless steel components for superior corrosion resistance
- Mine-duty, solid-blade design
- Do-it-yourself installation and easy maintenance
- Visual tension check

Maximum Belt Speed – 700 fpm (3.5 m/sec)*
Pulley Diameter from 16" – 42" (400 – 1050 mm)
Applications – Phosphate, Potash, Salt

MMP Medium Mine-Duty Precleaner

- Medium-duty mining precleaner with TuffShear™ blade
- Heavy-duty, 3-piece design pole with dual tensioners
- Visual tension check

Maximum Belt Speed – 1000 fpm (5.0 m/sec)*
Pulley Diameter from 16" – 48" (400 – 1200 mm)
Applications – Underground Mining, Hard Rock Mining, Steel Mills, Iron Ore, Metal Mining, Aggregate, Coal Fired Power Plants, Load Out Facilities

Cleaner Key:

WET: Cleaner is suitable for carryback with a high moisture content

STICKY: Cleaner can handle gluey/ gummy carryback, such as fire clay

DRY: Cleaner is best suited for carryback with a low moisture content

HIGH TEMPERATURE: Cleaner can tolerate superheated materials and environments

CORROSIVE: Cleaner can withstand highly acidic/abrasive materials and environments

MINELINE® endorsed products for your toughest conveyor system challenges

**Belt speeds can be higher in vulcanized applications.*

Stainless Steel MMP Medium-Duty Precleaner

- Stainless steel components for superior corrosion resistance
- Medium-duty mining precleaner
- Heavy-duty, 3-piece design, corrosion-resistant pole with dual tensioners
- Visual tension check

Maximum Belt Speed – 1000 fpm (5.0 m/sec)*

Pulley Diameter from 16" – 48" (400 – 1200 mm)

Applications – Phosphate, Potash, Copper/Gold Mining, Salt, Load Out Facilities Near Salt Water

HV Precleaner

- Tungsten carbide tip provides superior cleaning efficiency (vulcanized belts only)
- Segmented blades work independently
- Visual tension check

Maximum Belt Speed – 1000 fpm (5.0 m/sec)*

Pulley Diameter from 10" – 63" (250 – 1575 mm)

Applications – Power Plants, Port Facilities, Hard Rock Mining, Iron Ore, Steel Mills

MHP Heavy-Duty Precleaner

- Heavy-duty, solid blade precleaner
- Heavy 3-piece pole design with rugged, dual-spring tensioners
- Abrasion-resistant, XL solid urethane MegaShear™ blade

Maximum Belt Speed – 1500 fpm (7.5 m/sec)*

Pulley Diameter from 48"+ (1200 mm+)

Applications – Underground Mining, Hard Rock Mining, Metal Mining, Longwall Coal Mining, Steel Mills, Iron Ore

High-Temp HV Precleaner

- Tungsten carbide tip provides superior cleaning efficiency (vulcanized belts only)
- Segmented blades work independently
- Visual tension check

Maximum Belt Speed – 1000 fpm (5.0 m/sec)*

Pulley Diameter from 10" – 63" (250 – 1575 mm)

Applications – Power Plants, Port Facilities, Iron Ore, Steel Mills

MHCP Heavy-Duty Cartridge Precleaner

- One of the most rugged precleaners available
- Engineered for abusive conditions
- Telescoping, 3-piece pole that resists twisting/bowing/bending
- Quick-change SuperShear™ blade cartridge for fast, easy maintenance

Maximum Belt Speed – 1200 fpm (6.0 m/sec)*

Pulley Diameter from 20" – 48" (500 – 1200 mm)

Applications – Underground Mining, Hard Rock Mining, Metal Mining, Longwall Coal Mining, Steel Mills, Iron Ore

HXF2 Precleaner

- Suitable as a stand-alone cleaner in standard- and medium-duty applications
- Available with urethane or tungsten carbide tipped blades

Maximum Belt Speed – 1000 fpm (5.0 m/sec)*

Pulley Diameter from 10" – 53" (250 – 1325 mm)

Applications – Underground Mining, Hard Rock Mining, Metal Mining, Aggregate

Applications listed are intended to identify where each cleaner is commonly and most effectively utilized. Belt conditions, belt speeds, and pulley diameters should all be considered before making a final product selection. Consult Flexco to assess specific applications and recommendations.

FLEXCO SECONDARY CLEANERS

FEATURES & APPLICATIONS

EZS2 Rockline Secondary Cleaner

- Segmented, tungsten carbide blades
- Patented FormFlex™ cushions that maintain optimal belt contact
- Do-it-yourself installation
- Bolt-up tensioning system

Maximum Belt Speed – 700 fpm (3.5 m/sec)*

Applications – Aggregate, Sand & Gravel, Cement

High-Temp EZS2 Secondary Cleaner

- Temperature range to up to 400° F
- Segmented, tungsten carbide blades
- Patented FormFlex™ cushions that maintain optimal belt contact
- Do-it-yourself installation
- Bolt-up tensioning system

Maximum Belt Speed – 700 fpm (3.5 m/sec)*

Applications – Cement, Asphalt

P-Type Secondary Cleaner

- Available with C-tips for mechanical fastener applications or V-tips for vulcanized applications
- Segmented, tungsten carbide blades
- Bolt-up tensioning system
- Limited space model option for telescoping, stacking, or portable conveyors

Maximum Belt Speed – 1000 fpm (5.0 m/sec)*

Applications – Aggregate, Sand & Gravel, Cement, Wood Processing, Recycling, Light Mining, Power Plants with Vulcanized Belts

R-Type Reversing Secondary Cleaner

- Available with C-tips for mechanical fastener applications or V-tips for vulcanized applications
- Two-way cushions that accommodate reversing belts
- Do-it-yourself installation
- Bolt-up tensioning system

Maximum Belt Speed – 1000 fpm (5.0 m/sec)*

Applications – Aggregate, Sand & Gravel, Cement, Wood Processing, Recycling, Light Mining, Power Plants with Vulcanized Belts

**Belt speeds can be higher in vulcanized applications.*

P-Type Cartridge Secondary Cleaner

- Available with C-tips for mechanical fastener applications or V-tips for vulcanized applications
- Bolt-up tensioning system
- Service advantage cartridge feature allows for easy service and inspection

Maximum Belt Speed – 1000 fpm (5.0 m/sec)

Applications – Aggregate, Sand & Gravel, Cement, Wood Processing, Recycling, Light Mining, Ideal for Power Plants with Vulcanized Belts

R-Type Cartridge Secondary Cleaner

- Available with C-tips for mechanical fastener applications or V-tips for vulcanized applications
- Two-way cushions that accommodate reversing belts
- Bolt-up tensioning system
- Service advantage cartridge feature allows for easy service and inspection

Maximum Belt Speed – 1000 fpm (5.0 m/sec)

Applications – Aggregate, Sand & Gravel, Cement, Wood Processing, Recycling, Light Mining, Ideal for Power Plants with Vulcanized Belts

MSS Standard-Duty Secondary Cleaner

- Available with C-tips for mechanical fastener applications or V-tips for vulcanized applications
- Segmented, tungsten carbide blades
- Spring tensioning system

Maximum Belt Speed – 1000 fpm (5.0 m/sec)

Applications – Aggregate, Sand & Gravel, Cement, Wood Processing, Recycling, Light Mining, Power Plants with Vulcanized Belts

MHS Heavy-Duty and Reversing Secondary Cleaner

- Segmented blades with choices of tungsten carbide tips
- Patented FormFlex™ cushions that maintain optimal belt contact
- Tensioners and cushion create 4 points of relief, making the cleaner fastener friendly
- Two-way cushions available for reversing applications on shuttle conveyors, conveyors that roll back, or tripper and stacker applications

Maximum Belt Speed – 1200 fpm (6.0 m/sec)

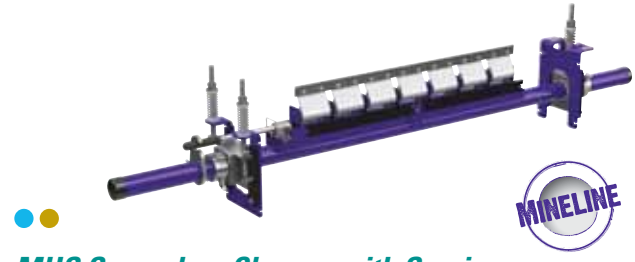
Applications – Underground Mining, Hard Rock Mining, Metal Mining, Aggregate, Load Out Facilities, Iron Ore, Steel Mills, Power Plants

Stainless Steel MHS Heavy-Duty Secondary Cleaner

- Stainless steel components for extra corrosion resistance
- Segmented blades with choices of tungsten carbide tips
- Patented PowerFlex™ cushions that maintain optimal belt contact
- Tensioners and cushion create 4 points of relief, making the cleaner fastener friendly

Maximum Belt Speed – 1200 fpm (6.0 m/sec)

Applications – Salt, Copper/Gold Mining, Phosphate, Potash, Load Out Facilities



MHS Secondary Cleaner with Service Advantage Cartridge™

- Segmented blades with choices of tungsten carbide tips
- Patented PowerFlex™ cushions that maintain optimal belt contact
- Tensioners and cushion create 4 points of relief, making the cleaner fastener friendly
- Service advantage cartridge feature allows for easy service and inspection

Maximum Belt Speed – 1200 fpm (6.0 m/sec)

Applications – Underground Mining, Hard Rock Mining, Metal Mining, Aggregate, Load Out Facilities, Iron Ore, Steel Mills, Power Plants

U-Type Secondary Cleaner

- U-shaped blade and offset pole that intensify cleaning power
- Blade tips that scrape off stubborn carryback, while rubber backers "squeegee" wet material
- Best for cupped belts and belts with worn centers
- Choice of tungsten carbide, impact-resistant tungsten carbide, or urethane blade tips
- Works best in wet applications

Maximum Belt Speed – 1200 fpm (6.0 m/sec)

Applications – Cement, Coal Mining, Coal Prep Plants, Power Plants, Load Out Facilities

Stainless Steel U-Type Secondary Cleaner

- Stainless steel components for extra corrosion resistance
- U-shaped blade and offset pole that intensify cleaning power
- Blade tips that scrape off stubborn carryback, while rubber backers "squeegee" wet material
- Best for cupped belts and belts with worn centers
- Choice of tungsten carbide, impact-resistant tungsten carbide, or urethane blade tips

Maximum Belt Speed – 1200 fpm (6.0 m/sec)

Applications – Load Out Facilities, Power Plants

Chevron Secondary Cleaner

- For raised top, chevron, or grooved belts
- Hundreds of rubber fingers that flick off carryback
- Free-rotating design that works only when the belt runs
- Do-it-yourself installation and quick drum replacement

Maximum Belt Speed – 500 fpm (2.5 m/sec)

Applications – Wood Chipping, Sand

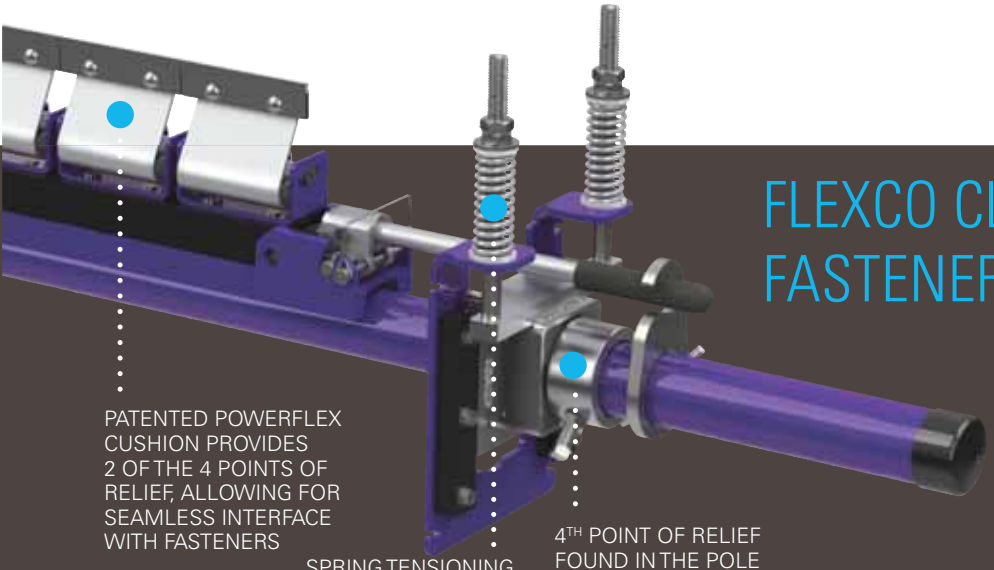
MDWS Dry Wipe Secondary Cleaner

- Removes excess water to ensure a dry return trip down belt line
- Ideal for systems using a water spray pole
- Do-it-yourself installation and minimal maintenance

Maximum Belt Speed – 1000 fpm (5.0 m/sec)

Applications – Underground Mining

Applications listed are intended to identify where each cleaner is commonly and most effectively utilized. Belt conditions, belt speeds, and pulley diameters should all be considered before making a final product selection. Consult Flexco to assess specific applications and recommendations.



FLEXCO CLEANERS AND FASTENERS: BETTER, TOGETHER

Many of our cleaning systems have special features that allow them to interface seamlessly with our mechanical belt fasteners.

Shown: MHS Secondary Cleaner with Service Advantage Cartridge

YOUR ISSUE: BELT MISTRACKING
OUR SOLUTION: BELT TRACKERS

To select the right belt tracker, you need to consider whether:

- The belt is wandering to one or both sides
- The top or return side of the belt is affected
- The mistracking is happening consistently or occasionally
- The belt has a low, medium, or high running tension

Use the following chart to identify the best Flexco tracker for your needs.

Conveyor Criteria	Belt Positioner™	PT Smart™	PT Smart™ Underground	PT Max™ Top Side	HD PT Max™ Top Side	PT Max™ Return Side	HD PT Max™ Return Side
Top side mistracking	No	No	No	Yes	Yes	No	No
Return side mistracking	Yes	Yes	Yes	No	No	Yes	Yes
Belt mistracking to one side	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Belt mistracking to both sides	Poor	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Inconsistent tracking problem	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Belt is cupped (heavy)	Good	Good	Good	Excellent	Excellent	Good	Good
Belt has low running tension	Poor	Excellent	Excellent	Good	Good	Good	Good
Belt has medium running tension	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Belt has high running tension	Good	Good	Good	Excellent	Excellent	Excellent	Excellent
Approx. "upstream" effect*	50' (15 M)	20' (6 M)	20' (6 M)	20' (6 M)	20' (6 M)	20' (6 M)	20' (6 M)
Approx. "downstream" effect*	50' (15 M)	120' – 150' (36 – 45 M)	120' – 150' (36 – 45 M)	150' – 200' (45 – 61 M)	120' – 150' (45 – 61 M)	120' – 150' (45 – 61 M)	120' – 150' (45 – 61 M)

**Typical results; actual results may vary*

FLEXCO BELT TRACKERS

FEATURES & APPLICATIONS

Belt Positioner™

- Simple solution for belts wandering to a single side
- Fixed, angled rollers "funnel" the belt onto the correct path
- Return-side installation only
- Easy to install and maintain

Maximum Belt Tension: 1200 PIW

Belt Dimensions: From 18" – 96" (450 – 2400 mm) wide

PT Smart™

- Sensor rollers detect wander, then "pivot and tilt" belt into place
- Economical solution for medium-tension belts
- Effectively prevents belt from damaging structure
- Easy to install

Maximum Belt Tension: 1600 PIW

Belt Dimensions: For belt width + 3" roller and up to 1" (25 mm) thick

PT Smart™ Underground Structure

- Specially designed to fit underground conveyors
- Sensor rollers detect wander, then "pivot and tilt" belt into place
- Economical solution for medium-tension belts
- Effectively prevents belt from damaging structure

Maximum Belt Tension: 1600 PIW

Belt Dimensions: For belt width + 9" roller and up to 1" (25 mm) thick

PT Max™ Return Side

- Sensor rollers detect wander, then "pivot and tilt" belt into place
- Ideal solution for cupped and heavy-tension belts
- Performs in wet and dry conditions
- Return-side installation only

Maximum Belt Tension: 3000 PIW

Belt Dimensions: From 24" – 60" (600 – 1500 mm) wide and up to 1" (25 mm) thick

HD PT Max™ Return Side

- Ideal for the heaviest, most highly tensioned belts
- Sensor rollers detect wander, then "pivot and tilt" belt into place
- Performs in wet and dry conditions
- Return-side installation only

Maximum Belt Tension: 6000 PIW

Belt Dimensions: From 48" – 84" (1200 – 2100 mm) wide

PT Max™ Top Side

- Sensor rollers detect wander, then "pivot and tilt" belt into place
- Ideal solution for cupped and heavy-tension belts
- Performs in wet and dry conditions
- Top-side installation only

Maximum Belt Tension: 3000 PIW

Belt Dimensions: From 24" – 60" (600 – 1500 mm) wide and over 3/4" (19 mm) thick

HD PT Max™ Top Side

- Ideal for the heaviest, most highly tensioned belts
- Sensor rollers detect wander, then "pivot and tilt" belt into place
- Performs in wet and dry conditions
- Top-side installation only

Maximum Belt Tension: 6000 PIW

Belt Dimensions: From 48" – 84" (1200 – 2100 mm) wide

YOUR ISSUE: LOAD-POINT SPILLAGE

OUR SOLUTION: IMPACT BEDS, SKIRTING SYSTEMS & PLOWS

How to Select the Right Impact Bed

Step 1:

Calculate Your Impact Energy

Identify the weight of your largest lump size and multiply this number by your drop height. The result, expressed in lb-ft, will be your estimated impact energy.

Step 2:

Match the Result to the Bed Rating

Up to 200 lb-ft. — DRX200
200 to 750 lb-ft. — DRX750
750 to 1500 lb-ft. — DRX1500
1500 to 3000 lb-ft. — DRX3000

How to Select the Right Plow

When choosing a plow to prevent fugitive material from finding its way into your tail pulley, you need to consider where you want to discharge any debris.

To discharge material to a single side of the belt:
Choose the RDP1 Diagonal Plow.

To discharge material to both sides of the belt:
Choose the V-Plow.

Tasman WARAJAY TECHNOLOGY

Ultimate Performance – Flexco Transfer Chute Solutions

We have over 25 years of experience in designing and implementing superior transfer-point solutions. We offer:

- Tasman Warajay Technology™ — the original "controlled flow" solution
- Greater throughput with virtually no plugging
- Custom engineering to meet your needs
- Advanced diversion capabilities

When it comes to load zones, our impact beds deliver the highest level of material containment and belt protection. They've been specially designed to control acceleration, deaden impact energy, reduce damaging vibrations, and extend belt life.

FLEXCO IMPACT BEDS

FEATURES & APPLICATIONS

DRX3000 Impact Bed

- Exclusive Velocity Reduction Technology™ that deadens rebound forces for reduced spillage and material degradation
- For extreme-impact applications requiring the highest energy absorption
- Impact Energy Absorbers disperse an immense amount of impact energy
- Stationary skirt support bar system helps ensure a positive seal with the skirt rubber

Bed Rating – 1500 – 3000 lb-ft

Applications – Any operation that combines large material size and extreme height

DRX1500 Impact Bed

- Exclusive Velocity Reduction Technology™ that deadens rebound forces for reduced spillage and material degradation
- For high-impact applications
- Recommended for -12" materials
- Isolation Mounts ensure a second level of impact force reduction

Bed Rating – 750 – 1500 lb-ft

Applications – Coal-Fired Power Plants, Coal Prep Plants, Load Out Facilities

DRX750 Impact Bed

- Exclusive Velocity Reduction Technology™ that deadens rebound forces for reduced spillage and material degradation
- For medium-impact applications
- Recommended for -8" to -10" materials
- Provides a unique second level of impact relief

Bed Rating – 200 – 750 lb-ft

Applications – Hard Rock Mining, Limestone Quarrying

DRX200 Impact Bed

- Exclusive Velocity Reduction Technology™ that deadens rebound forces for reduced spillage and material degradation
- Recommended for -4" to -6" materials
- Slide-Out-Service™ for easy maintenance

Bed Rating – Up to 200 lb-ft

Applications – Sand and Gravel

FLEXCO SKIRTING SYSTEMS

FEATURES & APPLICATIONS

Specially designed to create an effective seal at load points without damaging the top cover of your belt, our skirting systems are a smart way to improve throughput.

Flex-Seal™ Skirting System

- Dynamic containment unit that fully seals the loading zone
- Sturdy, corrosion-resistant components that deliver long service life
- Easy to install and maintain

Module Sizes: 4' (1200 mm)

Skirting Sizes: For skirt rubber 6" (150 mm) wide and from 5/16" – 3/4" (8 – 19 mm) thick

RMC1 Skirt Clamps

- Simple installation, no-hassle maintenance
- Versatile design that can be installed on vertical or perpendicular skirt boards
- Anti-vibration clamp pin
- Interlocking clamp plates and 4' (1200 mm) clamp bar

Skirting Sizes: For a range of skirt rubber heights; for thicknesses from 5/16" – 3/4" (8 – 19 mm) thick

Flex-Lok™ Skirt Clamps

- Heavy-duty applications
- Strong restraining bar that is held in place by clamp plates to allow easy adjustment of skirt rubber
- Anti-vibration clamp pin can be unlocked with a rubber hammer
- Easy to install and maintain
- Mini Flex-Lok™ option available — overall height of 5½"

Module Sizes: 6' (1800 mm)

Skirting Sizes: For skirt rubber from 5/16" – 1" (8 – 25 mm) thick

Pal Paks

- Safe, easy-to-install skirt clamps
- Clamp pins bolt directly to skirt board
- No-weld solution that eliminates sparking risks
- Clamp plates are 7" high (LS version 4½" high)
- LS and bolt-on options available

Skirting Sizes: For a range of skirt rubber heights; for thicknesses from 5/16" – 3/4" (8 – 19 mm) thick

Simply tap loose the locking pin to reposition or replace skirt rubber and then tap to re-lock in place.

FLEXCO PLOWS

FEATURES & APPLICATIONS

Flexco offers two advanced plows that prevent costly damage to tail pulleys and gravity take-ups, while cleaning the inside of the belt.

RDP1 Diagonal Plow

- Discharges debris to one side of belt
- Unique angled blade that creates effective "spiral" action
- Fixed position eliminates bouncing and vibration problems
- Appropriate for use at any point along inside of return belt

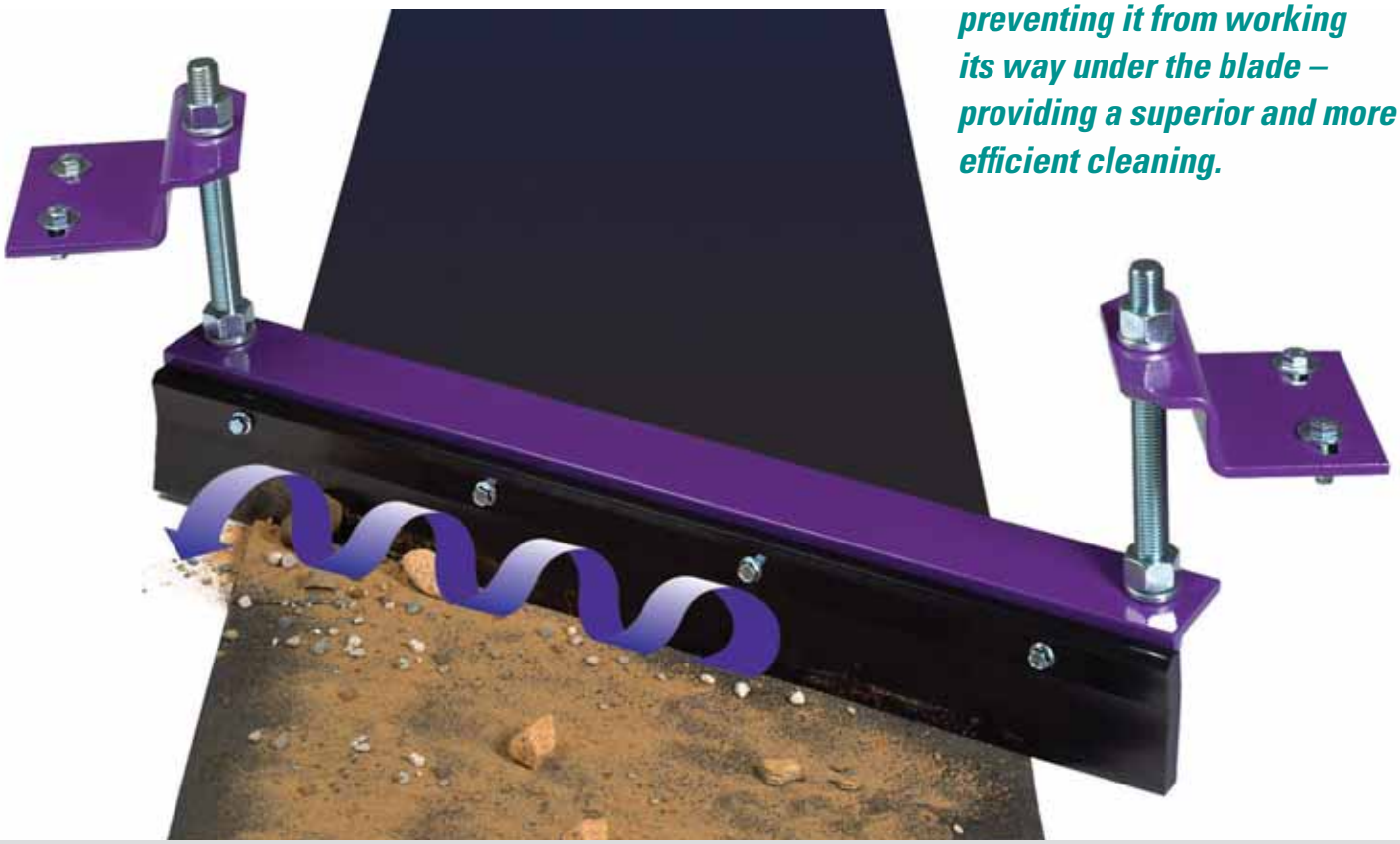
Belt Widths: From 18" – 84" (450 – 2100 mm)

V-Plow

- Simultaneously discharges debris to both sides of belt
- Angled blade design "spirals" away debris and water
- Easy to install
- Fits virtually any conveyor structure

Belt Widths: From 18" – 96" (450 – 2400 mm)

Unique angled blade quickly spirals material off the belt, preventing it from working its way under the blade – providing a superior and more efficient cleaning.



YOUR ISSUE: SLIPPAGE
OUR SOLUTION: PULLEY LAGGING

How to Select the Right Lagging Product

To select the right pulley lagging, be sure to consider the environmental conditions around the pulley:

- Belt condition, i.e., wet or dry
- The service required for bonded lagging versus weld-on
- The expected wear life of the lagging

Use the following chart to identify the best Flexco lagging for your needs.

Criteria	Flex-Lag® Rubber			Flex-Lag® Ceramic		Flex-Lag® Weld-On™	
	Light Duty	Plain	Diamond	13% Coverage	80% Coverage	Rubber Diamond	Ceramic 74% Coverage
Total Thickness	5/16" (8 mm)	13/32" – 1" (10 – 25 mm)	13/32" – 1" (10 – 25 mm)	5/32" (12 mm)	1/2" (13 mm)	9/16" (14 mm)	9/32" (15 mm)
Rubber/Ceramic Thickness	5/16" (8 mm)	13/32" – 1" (10 – 25 mm)	13/32" – 1" (10 – 25 mm)	5/32" (12 mm)	1/2" (13 mm)	15/32" (12 mm)	1/2" (13 mm)
Belt Width	Any Width	Any Width	Any Width	Any Width	18" – 84" (450 – 2100 mm)	18" – 72" (450 – 1800 mm)	18" – 72" (450 – 1800 mm)
Pulley Diameter	12" – 72" (300 – 1800 mm)	12" – 72" (300 – 1800 mm)	12" – 72" (300 – 1800 mm)	12" – 72" (300 – 1800 mm)	12" – 72" (300 – 1800 mm)	16" – 72" (400 – 1800 mm)	16" – 72" (400 – 1800 mm)
Dry Performance	Very Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Wet Performance	Average	Average	Good	Very Good	Excellent	Good	Excellent
Wear Life	Good	Very Good	Very Good	Excellent	Excellent	Very Good	Excellent
Ease of Installation	Good	Good	Good	Good	Good	Excellent	Excellent
Drainage Grooves	No	Yes	Yes	Yes	Yes	Yes	Yes
FRAS (Fire Resistant Anti Static)	No	Yes	Yes	Yes	Yes	Yes	Yes

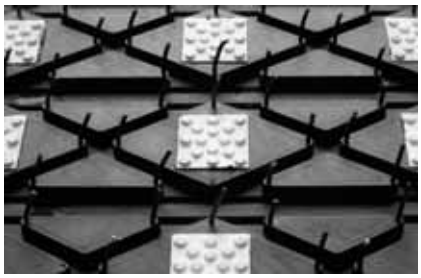
FLEXCO PULLEY LAGGING

FEATURES & APPLICATIONS

Flex-Lag® Rubber Pulley Lagging

- Cost-efficient choice that installs fast
- For standard applications with minimal slippage
- Available in plain and diamond-pattern
- Excellent water shedding capabilities

Pulley Diameters: From 12" – 72" (300 – 1800 mm)
Belt Width: Any Width



Flex-Lag® Diamond Ceramic Pulley Lagging

- Excellent friction properties at an affordable cost
- Diamond pattern helps water/moisture drainage
- Performs in dry, wet, and muddy conditions
- 15% tile coverage for medium-duty applications

Pulley Diameters: From 12" – 72" (300 – 1800 mm)
Belt Width: Any Width

MINELINE

Flex-Lag® Ceramic Pulley Lagging

- 80% tile coverage for the most severe applications
- Highest coefficient of friction in lagging materials
- Performs in dry, wet, and muddy conditions

Pulley Diameters: From 12" – 72" (300 – 1800 mm)
Belt Width: From 18" – 84" (450 – 2100 mm)

Flex-Lag® Weld-On Rubber Pulley Lagging

- For standard applications with minimal slippage
- Gutterless design for cleaner compatibility
- Reduces belt vibration and cleaner chatter
- Simple, on-site installation

Pulley Diameters: 16" – 72" (405 – 1800 mm) and over
Belt Width: From 18" – 72" (450 – 1800 mm)

Flex-Lag® Weld-On Ceramic Pulley Lagging

- 74% tile coverage for heavy-duty applications
- Reduces belt vibration and cleaner chatter
- Patented gear tooth design
- Ideal for operations that need a high degree of friction and a quiet operation

Pulley Diameters: 16" – 72" (405 – 1800 mm) and over
Belt Width: From 18" – 72" (450 – 1800 mm)


DTA

For Belt Conveyor Challenges,

TRUST YOUR PARTNERS IN PRODUCTIVITY

We work with you to determine the best solution.

We can conduct an on-site system audit to understand your conveyor and identify opportunities for improvement. Then we'll recommend the right solution — one that works for your belt and your budget.

We have extensive industry knowledge.

Our hands-on industry experience gives us deep insights into your productivity demands, maintenance challenges, safety requirements, and more. We serve operations all over the world in the coal, aggregate, bulk material, and mining industries.

We're committed to safety and quality.

At Flexco, we won't settle for anything less than the best, most durable products around. That's why we do extensive testing to ensure that our products work properly and perform beyond your expectations. Plus, many of our products have built-in safety features to help prevent on-the-job injuries.

We offer a wide range of compatible products.

In addition to high-quality belt conveyor products, we offer mechanical belt fasteners, transfer chutes, and maintenance tools. And they're specially designed to work with cleaners, trackers, lagging, and more.

FLEXCO

Partners in Productivity

Visit our website or contact your local distributor to learn more.

2525 Wisconsin Avenue • Downers Grove, IL 60515-4200 U.S.A.
Tel: (630)-971-0150 • Fax: (630)-971-1180 • E-mail: info@flexco.com

www.flexco.com

Australia: 61-2-9680-3322 • China: 86-21-33528388 • England: 44-1274-600-942 • Germany: 49-7428-9406-0
India: 91-44-4354-2091 • Mexico: 52-55-5674-5326 • Singapore: 65-6281-7278 • South Africa: 27-11-608-4180