Keep your line up and running.

BELT CONVEYOR PRODUCTS

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

**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

**Mistracking**
Belt drifts to one side or the other, resulting in material spillage, uneven belt wear, and possible system damage. To inhibit mistracking, we offer:
- Belt Trainers
- Belt Positioners

**Spillage**
Material that spills off the belt, typically at transfer and load points. To curb spillage, we offer:
- Skirt Clamps
- Impact Beds
- Belt Plows
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
- 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

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.

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.

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.

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 DIX™ Impact Beds.

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.
YOUR ISSUE: CARRYBACK
OUR SOLUTION: ADVANCED CLEANING SYSTEMS

BELT CLEANERS
Pre cleaners
• 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
• Blade width/material path options
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 1 Understand Your Options

Step 2 10 Key Criteria for Analyzing Your Conveyor System

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

*Note: CEMA has created an application classification guide that addresses these three criteria. Further explanation of this is found on Page 7.

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.

CEMA (Conveyor Equipment Manufacturers Association) publishes a guide with the explicit goal of providing a uniform method for determining the application class of any individual belt cleaner. This is meant as a way to assist in the selection of the correct belt cleaner or belt cleaner system. The complete guide, titled “Classification of Applications for Bulk Material Conveyor Belt Cleaning,” or CEMA Standard 576, is available from CEMA.

The classification is built on a points system based on five key criteria. While others play a role as noted on Page 6, these five were chosen as the key elements in selecting the appropriate cleaner or cleaning system. The five criteria are:

1. belt width
2. belt speed
3. splice type
4. material abrasiveness
5. material stickiness/moisture content

Each of these criteria score points; points increase based on the impact it would have on the required cleaner. Wider belt widths, faster belt speeds, introduction of mechanical splices, increase in material abrasiveness (using CEMA Standard 550), and increasing the moisture content of the material all add to the point totals when scoring an application.

The results of scoring the application created five classes:

<table>
<thead>
<tr>
<th>Score Range</th>
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<tbody>
<tr>
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<td>&gt;24</td>
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</table>

In accordance with this classification, you will find class ratings for Flexco’s belt cleaners throughout this guide as another resource to assist you in choosing the correct cleaning system for your application, while keeping in mind the full criteria found on Page 6. For more detailed info on each cleaner, log on to www.flexco.com.
EZP1 Precleaner
• Standard-duty, with 2 3/8" (60 mm) diameter pole
• Visual tension check
• Requires just 4" (100 mm) 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: Coke, Clinker, Cement, Asphalt
CEMA Class 3
*Belt speeds can be higher in vulcanized applications.

EZP1 High-Temp Precleaner
• Standard-duty, solid-blade design rated up to 275° F (135° C)
• Can handle temperature spikes to 325° F (163° C)
• Visual tension check
• Requires just 4" (100 mm) 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: Coke, Clinker, Cement, Asphalt
CEMA Class 3

EZP1 Stainless Steel Food Grade Precleaner
• Stainless steel components for superior corrosion resistance
• Standard-duty, solid-blade design
• Visual tension check
• White food-grade, chemical-resistant ConShear™ blade
Maximum Belt Speed*: 700 fpm (3.5 m/sec)
Pulley Diameter from 10"–36" (250–900 mm)
Applications: Fermentation Byproducts, Pre-processed Foods
CEMA Class 3

EZP1 Stainless Steel Food Grade Precleaner
• Stainless steel components for superior corrosion resistance
• Standard-duty, solid-blade design
• Visual tension check
• White food-grade, chemical-resistant ConShear™ blade
Maximum Belt Speed*: 700 fpm (3.5 m/sec)
Pulley Diameter from 10"–36" (250–900 mm)
Applications: Fermentation Byproducts, Pre-processed Foods
CEMA Class 3

EZP1 Twist Tensioner Precleaner
• Standard-duty, solid-blade design
• Compact torsion twist tensioner allows for measurable and verifiable tension
• Tensioner compatible to mount on either end of pole
• 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
CEMA Class 3

MSP Standard Mine-Duty Precleaner
• Standard Mine-Duty, with 2 7/8" (73 mm) 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
CEMA Class 3

Stainless Steel MSP Standard Mine-Duty Precleaner
• Stainless steel components for superior corrosion resistance
• Mini-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
CEMA Class 3

Stainless Steel MSP Standard Mine-Duty Precleaner
• Stainless steel components for superior corrosion resistance
• Compact design with shorter pole length
• Standard-duty, solid-blade design
• Visual tension check
• Requires just 4" (100 mm) 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: Coke, Clinker, Cement, Asphalt
CEMA Class 3
*Belt speeds can be higher in vulcanized applications.

FLEXCO PRECLEANERS
FEATURES & APPLICATIONS

Cleaner Key:
- WET
- STICKY
- DRY
- HIGH TEMPERATURE
- CORROSIVE

To learn more about Flexco precleaners, visit www.flexco.com.
FLEXCO PRECLEANERS

MMP Medium Mine-Duty Precleaner
- Medium-duty mining precleaner with "TuffShear"® blade
- Heavy-duty, 3-piece design 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, Metal Mining, Aggregate, Coal Fired Power Plants, Load-out Facilities
CEMA Class 4

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
CEMA Class 4

Optional PAT Tensioner

MHCP Heavy-Duty Cartridge Precleaner
- One of the most rugged precleaners available
- Engineered for abusive conditions
- Telescoping, rigid 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
CEMA Class 5

Optional PAT Tensioner

H-Type® HV/HVP Precleaner
- Tungsten carbide tips provide superior cleaning efficiency (vulcanized belts only)
- Segmented blades work independently
- Visual tension check

Maximum Belt Speed*: 1500 fpm (7.5 m/sec)
Pulley Diameter from 10”–45” (250–1150 mm)
Applications: Power Plants, Port Facilities, Hard Rock Mining, Iron Ore, Steel Mills
CEMA Class 4

Optional HV Protected Tip

MH2 Precleaner
- Tungsten carbide tip provides superior cleaning efficiency (vulcanized belts only)
- 6” (150mm) segmented blades work independently
- Adjustable cushions for enhanced pulley conformance
- Visual tension check

Maximum Belt Speed*: 1500 fpm (7.5 m/sec)
Pulley Diameter from 10”–45” (250–1150 mm)
Applications: Power Plants, Port Facilities, Hard Rock Mining, Iron Ore, Steel Mills
CEMA Class 4

Optional HV Protected Tip

PAT Portable Air Tensioner
- PAT ensures constant tension for full blade life with little maintenance
- Works with Flexco mechanical fasteners
- Usable with air, nitrogen or water
- Offers single or dual tank (for two cleaners) when site air is not available
- Featured on MineLine®-approved cleaners like MMP, MHP, MHCP, MH and MDWS

H-Type® HV2 Precleaner
- Tungsten carbide tip provides superior cleaning efficiency (vulcanized belts only)
- 6” (150mm) segmented blades work independently
- Adjustable cushions for enhanced pulley conformance
- Visual tension check

Maximum Belt Speed*: 1500 fpm (7.5 m/sec)
Pulley Diameter from 10”–67” (250–1675 mm)
Applications: Power Plants, Port Facilities, Hard Rock Mining, Iron Ore, Steel Mills
CEMA Class 4

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**

**Y-Type Secondary Cleaner—Polyurethane**
- Available in standard duty belt widths 18"-48" (450-1200mm) and heavy duty belt widths 36"-72" (900-1800mm)
- Segmented tips easily serviced utilizing a removable cartridge
- Spring tensioned to deliver optimal cleaning performance and blade life
- Food grade/chemical resistant polyurethane option available
- Compatible with reversing belts

Maximum Belt Speed*: SD 600 fpm (3 m/sec); HD 750 fpm (3.75 m/sec)

Applications: Aggregate, Sand & Gravel, Cement

CEMA Class 3 (Y-Type Heavy-Duty Polyurethane)

CEMA Class 2 (Y-Type Standard-Duty Polyurethane)

**Y-Type Secondary Cleaner—Tungsten Carbide**
- Available in standard duty belt widths 18"-48" (450-1200mm) and heavy duty belt widths 36"-72" (900-1800mm)
- Segmented tungsten carbide blades compatible with mechanical fastener applications are easily serviced utilizing a removable carbide tip
- Spring tensioned to deliver optimal cleaning performance and blade life
- Compatible with reversing belts

Maximum Belt Speed*: SD 600 fpm (3 m/sec); HD 750 fpm (3.75 m/sec)

Applications: Aggregate, Sand & Gravel, Cement

CEMA Class 2 (Y-Type Standard-Duty Tungsten Carbide)

CEMA Class 3 (Y-Type Heavy-Duty Tungsten Carbide)

**EZS2 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

CEMA Class 3

**High-Temp EZS2 Secondary Cleaner**
- Temperature range up to 400° F (200° C)
- Segmented tungsten carbide blades
- Patented FormFlex™ cushions maintain optimal belt contact
- Do-it-yourself installation
- Bolt-up tensioning system

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

Applications: Cement, Asphalt

CEMA Class 3

**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: C-Tip: 1000 fpm (5.0 m/sec)
V-Tip: 1200 fpm (6.0 m/sec)

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

CEMA Class 4

**FMS Flexco Medium-Duty Secondary Cleaner**
- Available with C-tips for mechanical fastener applications or V-tips for vulcanized applications
- Compact MST spring tensioning system

Maximum Belt Speed: C-Tip: 1000 fpm (5.0 m/sec)
V-Tip: 1200 fpm (6.0 m/sec)


CEMA Class 4

**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: C-Tip: 1000 fpm (5.0 m/sec)
V-Tip: 1200 fpm (6.0 m/sec)

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

CEMA Class 4

**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: C-Tip: 1000 fpm (5.0 m/sec)
V-Tip: 1200 fpm (6.0 m/sec)

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

CEMA Class 4

**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: C-Tip: 1000 fpm (5.0 m/sec)
V-Tip: 1200 fpm (6.0 m/sec)

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

CEMA Class 4

**MHS Heavy-Duty and Reversing Secondary Cleaner**
- 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
- Two-way cushions available for reversing applications on shuttle conveyors, conveyors that roll back, or tripper and stacker applications

Maximum Belt Speed: C-Tip: 1500 fpm (7.5 m/sec)
V-Tip: 1800 fpm (9.0 m/sec)


CEMA Class 5

To learn more about Flexco secondary cleaners, visit www.flexco.com.

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**Cleaner Key:**
- **WET**
- **STICKY**
- **DRY**
- **HIGH TEMPERATURE**
- **CORROSIVE**
MDWS Dry Wipe Secondary Cleaner
- Removes excess water to ensure a dry return trip down the 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
- CEMA Class 4

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 polyurethane blade tips
- Blade replacement made easy with removable front plate
- Maximum Belt Speed: C-Type: 1000 fpm (5.0 m/sec)
- V-Type: 1200 fpm (6.0 m/sec)
- Applications: Cement, Coal Mining, Coal Prep Plants, Power Plants, Load-out Facilities
- CEMA Class 5

Motorized Brush Cleaner
- Uniquely patterned bristles aid in reducing material buildup and clogging
- Adjustable tensioners allow easy brush-to-belt adjustment as the bristles wear
- Spins opposite the belt direction for optimal cleaning
- Do-it-yourself installation and quick drum replacement
- Maximum Belt Speed: 700 fpm (3.5 m/sec)
- Applications: Wood Chipping, Sand
- CEMA Class 4

Optional SAT Tensioner
- Allows for easy tension adjustment
- Can be used with any Flexco secondary cleaner

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:

- Patented PowerFlex™ Cushion provides 2 of the 4 points of relief
- Offset tensions system provides 2 of the 4 points of relief
- 4th Point of Relief found in the Pole Torsion Mounting System

To learn more about Flexco secondary cleaners, visit www.flexco.com.
**BLADE AND CLEANER OPTIONS**

**Secondary Cleaner Options**

<table>
<thead>
<tr>
<th>Application Description</th>
<th>R-Type® (C-Blade)</th>
<th>R-Type® (C-Blade)</th>
<th>EZS2 (C-Blade)</th>
<th>R-Type® (F-Blade)</th>
<th>Y-Type HD Polyurethane</th>
<th>Y-Type HD Polyurethane</th>
<th>Y-Type HD Carbon</th>
<th>Y-Type HD Carbon</th>
<th>Cleaner</th>
<th>Matedized Brush Cleaner</th>
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*Special sizes available upon request

**Precleaner Options**

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<th>EZP-LS</th>
<th>EZP1</th>
<th>EZP1 High Temp</th>
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<th>MMP</th>
<th>MMPH</th>
<th>MHCP</th>
<th>H-Type® (H22 &amp; H37)</th>
<th>H-Type® (H62 &amp; H622)</th>
<th>High Temp V-Tip</th>
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<td>Work with Mechanical Fasteners</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

*Special sizes available upon request

**FLEXCO BELT CLEANER ACCESSORIES**

**Mounting Plate Kit**
- For use with Mounting Bars to mount cleaners on open head pulleys
- For use with MST MMP MHP MHCP

**Optional Mounting Bar Kit**
- For use with secondary cleaners in applications requiring additional mounting versatility
- Long mounting bracket also available for installations requiring extra length legs

**Optional Top Angle Kit**
- Used with both Standard and Long SST Mounting Brackets below left for additional mounting options

**SST Mounting Bracket Kit**
- For MHS or MDX5 secondary cleaner installs requiring additional mounting versatility

**YST Mounting Bracket Kit**
- For H-Type secondary cleaner installs requiring additional mounting versatility

**Inspection Door**
- Modular design
- Dust-tight seal
- Available in 12”x12”, 12”x18”, 18”x24”, and 24”x24”
- Available with or without screen

**Stabilizing Rollers**
- For use in applications with belt cup or belt flap
- By preventing issues secondary cleaner performance and blade/tip life is enhanced

**Water Spray Pole Kit**
- Stainless steel pole with powder coated steel clamp brackets
- For use with secondary cleaners for an exceptionally clean belt
- Typical pressure setting is 40-60 psi (276-414 kPa)

**Spring Covers and Tensioner Locks**
- For Precleaners and Secondaries
- Spring Covers protect spring and threaded rod from contamination and material buildup
- Tensioner Lock prevents unauthorized cleaner repositioning

To learn more about Flexco belt cleaner accessories, visit [www.flexco.com](http://www.flexco.com).
**FEATURES & APPLICATIONS**

To select the right belt trainer, 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 belt trainer for your needs.

<table>
<thead>
<tr>
<th>Conveyor Criteria</th>
<th>Belt Positioner™</th>
<th>PT Smart™</th>
<th>PT Pro™</th>
<th>PT Max™</th>
<th>Heavy Duty</th>
<th>Super Duty</th>
<th>PT Pro™</th>
<th>Return Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top side mistracking</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Return side mistracking</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Reversing belts</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Belt mistracking to one side</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Belt mistracking to both sides</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Environmental tracking problems</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Belt is ragged (loose)</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Belt has few running tension</td>
<td>Poor</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Belt has medium running tension</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Belt has high running tension</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Approx. “apparent” affect*</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
</tr>
<tr>
<td>Approx. “downstream” effect*</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
<td>0” (0 M)</td>
</tr>
</tbody>
</table>

*Typical results; actual results may vary.

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**BELT MISTRACKING**

**OUR SOLUTION:**

- Belt trainers designed to fit underground conveyors
- Simple mounting brackets for easy installation, plus adjustment screws to fine-tune for optimal performance

**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
- Specially designed to fit underground conveyors

**PT Pro™**

- Tapered rolls activate the “pivot and tilt” motion to track the belt belt into place
- Works on single direction or reversing belts
- Simple mounting brackets for easy installation, plus adjustment screws to fine-tune for optimal performance
- Ideal for belts with edge damage

Maximum Belt Tension: Standard Duty: 1600 PIW
Heavy Duty: 2400 PIW
Belt Dimensions: Standard Duty: 16” (400 mm) to 3000 mm
Heavy Duty: 48”–54” (1200–1370 mm)

**PT Max™**

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

Maximum Belt Tension: 3000 PIW
Belt Dimensions: 24”–48” (600–1200 mm) wide
Up to 3/4” (19 mm) thick

**PT Max™ Return Side**

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

Maximum Belt Tension: 6000 PIW
Belt Dimensions: 24”–48” (600–1200 mm) wide
3/4”–1” (19–25 mm) thick

**Heavy Duty PT Max™ Return Side**

- Ideal for high tension 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: 10,000 PIW
Belt Dimensions: 48”–60” (1200–1500 mm) wide
Up to 3” (75 mm) thick

**Heavy Duty PT Max™ Top Side**

- Ideal for high tension 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: 48”–60” (1200–1500 mm) wide
3/4”–1” (19–25 mm) thick

**Super Duty PT Max™ Return Side**

- For highest tension applications
- Sensor rollers detect wander, then “pivot and tilt” belt into place
- Performs in wet and dry conditions
- Return-side installation only

Maximum Belt Tension: 10,000 PIW
Belt Dimensions: 24”–120” (600–3000 mm) wide
1”–2” (25 mm) thick and higher

**Super Duty PT Max™ Top Side**

- For highest tension applications
- Sensor rollers detect wander, then “pivot and tilt” belt into place
- Performs in wet and dry conditions
- Top-side installation only

Maximum Belt Tension: 10,000 PIW
Belt Dimensions: 24”–120” (600–3000 mm) wide
1”–2” (25 mm) thick and higher

---

**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: Small, Medium and Large: 900 PIW
Extra-Large: 2400 PIW
Belt Dimensions: From 18”–96” (450–2400 mm) wide

---

**FLEXCO BELT TRainers**

- 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: Small, Medium and Large: 900 PIW
Extra-Large: 2400 PIW
Belt Dimensions: From 18”–96” (450–2400 mm) wide

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**18 19**

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To learn more about Flexco belt training systems, visit [www.flexco.com](http://www.flexco.com).
YOUR ISSUE: LOAD-POINT SPILLAGE
OUR SOLUTION: IMPACT BEDS, SLIDER BEDS, SKIRTING SYSTEMS, PLOWS & MORE

Set Up an Appropriate Transition Distance
- Often compromised to save space, but short transition can lead to premature belt, lagging, and idler wear or failure.
- Using your idlers or Flexco adjustable idlers, follow CEMA recommendations based on your trough angle, belt tension and belt carcass construction.

Divert Material to Avoid Damaging Tail Pulley or Belt
- Material trapped between the pulley and belt can cause significant damage to both.
- Use a plow before the tail pulley to remove material from the belt: Diagonal Plow for one-side discharge V-Plow for two-side discharge

Protect Belt in Impact Area
- Just like the belt, impact beds see every ounce of every ton of product. Careful consideration should be made to account for the worst-case impact your system may ever see.
- Find your drop height and material lump weight to select the proper bed. Never pick a bed with a lower impact rating.
- Flexco offers beds for numerous impact ratings:
  - Up to 200 ft-lbs: EZSB-I, EZIB-L, DRX-200
  - 200 to 750 ft-lbs: EZIB-M, DRX-750
  - 750 to 1500 ft-lbs: DRX-1500
  - 1500 - 3000 ft-lbs: DRX-3000

Support Belt as Material Settles
- Most conveyors feature an extended area where material settles after the impact area.
- Idlers often used but sealing with idlers is difficult due to belt sag. Impact beds can be used to help with sealing but are expensive and cause belt drag.
- EZSB-C provides the best of both: idlers in center to reduce drag, and UHMW bars on trough to provide constant sealing.

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

Seal the Load Zone
- Clamps and skirting provide the final—and very important—assurance against spillage.
- Clamps should be durable yet easy to use when skirting needs adjustment or replacement.

Track Belt in Load-Point
- If belt is mistracking before the load zone it will mistrack through the load zone, causing spillage.
- Prevent mistracking by installing a Belt Positioner, PT Smart™, or PT Max™ before the tail pulley.
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
No Impact — EZSB-C
Up to 200 lb-ft. — DRX200, EZSB-I, EZIB-L
200 to 750 lb-ft. — DRX750, EZIB-M
750 to 1500 lb-ft. — DRX1500
1500 to 3000 lb-ft. — DRX3000

Sample Calculation

Gather data for your Impact Energy Calculation:

Q: What size material are you running?
A: I’m running 8" x 15" x 16".

Q: Is that the largest piece you’ve seen or could a larger piece get through that 8” chute setting?
A: Yes, that’s the crusher setting. The largest rock I’ve seen is 8” x 15” x 16”.

Lump Weight (W) = 8 x 15 x 16 = 193 lb

Volume = 8/12 x 15/12 x 16/12 = 1.185 ft³

W = 193 x 1.185 = 229 lb-ft

Drop Height (H) = 5 ft + 4 ft = 9 ft

Impact Energy Calculation:
Lump Weight (W) x Drop Height (H) = Impact Energy

Impact Energy = 229 lb-ft x 9 ft = 2061 lb-ft

This impact scenario would require a DRX 3000.

Material Reference Table

<table>
<thead>
<tr>
<th>Material</th>
<th>lb/ft³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>163</td>
</tr>
<tr>
<td>Granite</td>
<td>168</td>
</tr>
<tr>
<td>Shale</td>
<td>167</td>
</tr>
<tr>
<td>Limestone, Solid</td>
<td>163</td>
</tr>
<tr>
<td>Gypsum, Solid</td>
<td>174</td>
</tr>
<tr>
<td>Dolomite, Solid</td>
<td>181</td>
</tr>
<tr>
<td>Trap Rock, Solid</td>
<td>180</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>146</td>
</tr>
<tr>
<td>Halite, Solid</td>
<td>145</td>
</tr>
<tr>
<td>Slag, Solid</td>
<td>132</td>
</tr>
<tr>
<td>Bauxite, Crushed</td>
<td>132</td>
</tr>
<tr>
<td>Coke, Anthracite</td>
<td>129</td>
</tr>
<tr>
<td>Coal, Anthracite</td>
<td>129</td>
</tr>
<tr>
<td>Coal, Bituminous</td>
<td>129</td>
</tr>
<tr>
<td>Potash</td>
<td>129</td>
</tr>
<tr>
<td>Fertilizer</td>
<td>129</td>
</tr>
<tr>
<td>Coke</td>
<td>129</td>
</tr>
</tbody>
</table>

Material size, lump weight and drop height should all be considered before making a final product selection.

Consult Flexco to assess specific applications and recommendations.

Applications (listed are intended to identify where each impact bed is commonly and most effectively utilized. Individual cases, lump weight and drop height should all be considered before making a final product selection. Consult Flexco to assess specific applications and recommendations.)

Flexco Standard-Duty Impact Bed (EZIB-L)
• Features adjustable trough frames for use on 20”, 35” or 45”
• Recommended for light-impact applications
• Recommended for -4” to -6” materials
• Available with short lead time
Bed Rating: Up to 200 lb-ft
Maximum Belt Speed: 1000 fpm (5.0 m/sec)
Applications: Sand and Gravel

DRX200 Impact Bed
• Exclusive Velocity Reduction Technology™ that deadens rebound forces for reduced spillage and material degradation
• Recommended for -4” to -6” (100–150 mm) materials
• Slide-Out Service™ for easy maintenance
Bed Rating: Up to 200 lb-ft
Maximum Belt Speed: 1000 fpm (5.0 m/sec)
Applications: Sand and Gravel

Flexco Medium-Duty Impact Bed (EZIB-M)
• Features adjustable trough frames for use on 20”, 35” or 45”
• For medium-impact applications
• Recommended for -8” to -10” materials
• Available with short lead time
Bed Rating: 200 to 750 lb-ft
Maximum Belt Speed: 1000 fpm (5.0 m/sec)
Applications: Hard Rock Mining, Limestone Quarrying

DRX1500 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” (200–250 mm) materials
• Provides a unique second level of impact relief
Bed Rating: 200 to 750 lb-ft
Maximum Belt Speed: 1000 fpm (5.0 m/sec)
Applications: Hard Rock Mining, Limestone Quarrying

Flexco Slider Bed (EZSB-C)
• Uses Flexco CoreTech™ idlers in center section
• Features adjustable trough frames for use on 20”, 35” or 45”
• Recommended for non-impact sealing areas
Bed Rating: No impact
Maximum Belt Speed: 1000 fpm (5.0 m/sec)
Applications: Sealing of extended load zone

Flexco Slider Impact Bed (EZSB-I)
• Uses Flexco CoreTech™ idlers in center section
• Features adjustable trough frames for use on 20”, 35” or 45”
• For light-impact applications
• Recommended for -4” to -6” (100–150 mm) materials
• Available with short lead time
Bed Rating: Up to 200 lb-ft
Maximum Belt Speed: 1000 fpm (5.0 m/sec)
Applications: Sand and Gravel

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” (200–250 mm) materials
• Provides a unique second level of impact relief
Bed Rating: 200 to 750 lb-ft
Maximum Belt Speed: 1000 fpm (5.0 m/sec)
Applications: Hard Rock Mining, Limestone Quarrying

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 to 1500 lb-ft
Maximum Belt Speed: 1000 fpm (5.0 m/sec)
Applications: Coal-Fired Power Plants, Coal Prep Plants, Load-out Facility

Applications (listed are intended to identify where each impact bed is commonly and most effectively utilized. Individual cases, lump weight and drop height should all be considered before making a final product selection. Consult Flexco to assess specific applications and recommendations.)
**FLEXCO SKIRTING SYSTEMS**

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.

**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

**Flex-Seal™ 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” (140mm)

**PAL Paks**
- Safe, easy-to-install skirt clamps
- Clamp pin bolt or weld directly to skirt board
- Bolt-on version provides no-weld solution to eliminate sparking risks
- Limited Space (LS) option available
- Clamp plates are 7” (180mm) high (LS version 4½” (115mm) high)

**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
- Limited Space (LS) option available

**PAL Pak Options**
- Bolt-on PAL Pak
- Weld-on PAL Pak

---

**Flex-Lok™ Skirt Clamps**
- Uses Flexco CoreTech™ idlers
- For use around load zone to lift belt off beds
- Features adjustable trough frames in 5° increments

**Adjustable Idler Frame**
- Use for every other Mod-A-Flex impact bed
- Anti-vibration clamp pin
- Interlocking clamp plates and 4½” (115mm) clamp bar

**Modules Sizes**
- 4’ (1200 mm)

**Skirting Sizes**
- For skirt rubber from 5/16”–3/4” (8–19 mm) thick

---

**Applications Listed are intended to identify where each impact bed is commonly and most effectively utilized. Material size, lump weight and drop height should all be considered before making a final product selection. Consult Flexco to assess specific applications and recommendations.**

---

**FLEXCO IMPACT BEDS**

**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 to 3000 lb
Maximum Belt Speed: 1000 fpm (5.0 m/sec)
Applications: Any operation that combines large material size and extreme height

---

**Adjustable Idler Frame**
- Use for every other Mod-A-Flex impact bed
- For use around load zone to lift belt off beds
- Features adjustable trough frames in 5° increments

Idler Rating: CoreTech™—No impact
CoreTech Impact roll—200 ft-lb
Applications: For use between every two Flexco beds, transitions

---

**Flex-Seal™ Skirt Clamps**
- 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
- Limited Space (LS) option available

Module Sizes: 4’ (1200 mm)
Skirting Sizes: For a range of skirt rubber heights; for thicknesses from 5/16”–1” (8–25 mm) thick

---

**PAL Paks**
- Safe, easy-to-install skirt clamps
- Clamp pin bolt or weld directly to skirt board
- Bolt-on version provides no-weld solution to eliminate sparking risks
- Limited Space (LS) option available
- Clamp plates are 7” (180mm) high (LS version 4½” (115mm) high)

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.**
**How to Select the Right Belt 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.

---

**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
- Simple and quick installation and blade replacement
- Unique angled blade that creates effective “spiral” action
- Discharges debris to one side of belt

**Maximum belt speed:** 700 fpm (3.5 m/sec)

**V-Plow**

- Simultaneously discharges debris to both sides of belt
- Angled blade design “spirals” away debris and water
- Simultaneously discharges debris to both sides of belt

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

**Maximum belt speed:** 1000 fpm (5 m/sec)

---

**Flexible Pulley Lagging**

**OUR SOLUTION:** 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**

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Flex-Lag® Rubber</th>
<th>Flex-Lag® Ceramic</th>
<th>Flex-Lag® Weld-On™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Duty</td>
<td>Diamond Pattern</td>
<td>Medium Ceramic Pattern</td>
<td>Full Ceramic Pattern</td>
</tr>
<tr>
<td>Plume</td>
<td>1/2&quot; (13 mm)</td>
<td>1/2&quot; (13 mm)</td>
<td>1/2&quot; (13 mm)</td>
</tr>
<tr>
<td>Medium Ceramic</td>
<td>5/8&quot; (16 mm)</td>
<td>5/8&quot; (16 mm)</td>
<td>5/8&quot; (16 mm)</td>
</tr>
<tr>
<td>Medium Ceramic</td>
<td>1-1/16&quot; (26 mm)</td>
<td>1-1/16&quot; (26 mm)</td>
<td>1-1/16&quot; (26 mm)</td>
</tr>
<tr>
<td>Full Ceramic</td>
<td>1-5/16&quot; (32 mm)</td>
<td>1-5/16&quot; (32 mm)</td>
<td>1-5/16&quot; (32 mm)</td>
</tr>
</tbody>
</table>

**How to Select the Right Belt Plow**

**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.

**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
- Simple and quick installation and blade replacement
- Unique angled blade (on both Diagonal and V-Plow models) quickly spirals material off the belt, preventing it from working its way under the blade and providing a superior and more efficient cleaning.

**V-Plow**

- Simultaneously discharges debris to both sides of belt
- Angled blade design “spirals” away debris and water
- Simultaneously discharges debris to both sides of belt

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

**Maximum belt speed:** 1000 fpm (5 m/sec)

---

**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
- Simple and quick installation and blade replacement
- Unique angled blade that creates effective “spiral” action
- Discharges debris to one side of belt

**Maximum belt speed:** 700 fpm (3.5 m/sec)

**V-Plow**

- Simultaneously discharges debris to both sides of belt
- Angled blade design “spirals” away debris and water
- Simultaneously discharges debris to both sides of belt

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

**Maximum belt speed:** 1000 fpm (5 m/sec)
FLEXCO PULLEY LAGGING

Light-Duty Rubber Lagging
* Specially designed for pulleys with diameters as small as 2" (50mm).
* Increased moisture channeling between small raised buttons that support and grip the belt and deliver superior traction.
* Available in SBR and White Noble.

Plain-Pattern Rubber Lagging
* Helps prevent belt slippage in dry environments.
* Proves larger surface contact area relative to other patterned lagging.
* Horizontal grooves channel water and debris while providing a better dynamic interaction with the belt compared to sheet lagging.

Diamond-Pattern Rubber Lagging
* Performs well in both dry and wet applications.
* Diamond-Pattern features a bidirectional design for superior water-shedding characteristics.

Weld-On Rubber Lagging
* Weld-On design allows for quick, in-situ installation.
* Gear-tooth layout protects cleaners on pulley from experiencing "chatter" and premature wear.
* Diamond-Pattern features a bidirectional design for superior water-shedding characteristics.
* Performs well in both dry and wet applications.

Minimum Pulley Diameter: 18" (450 mm)

Diamond-Pattern Ceramic Lagging (13% tile coverage)
* Large ceramic tile is molded into the diamond section, providing an increased coefficient of friction vs. Diamond- Pattern Rubber.
* Also features a bidirectional design for superior water-shedding characteristics.
* Uses the advantages of a ceramic product at a more affordable cost in light or medium duty applications.

Medium Ceramic Lagging (39% tile coverage)
* Constructed from individual ceramic tiles molded into a durable rubber backing.
* Excellent friction in dry or wet applications and very good performance in muddy applications.
* Molded ceramic buttons grip the belt’s underside for positive traction.

Weld-On Ceramic Lagging (74% tile coverage)
* Weld-On design allows for quick, in-situ installation.
* Gear-tooth layout protects cleaners on pulley from experiencing "chatter" and premature wear.
* Diamond-Pattern features a bidirectional design for superior water-shedding characteristics.
* Performs well in both dry and wet applications.

Minimum Pulley Diameter: 18" (450 mm)

Face Width

| Face Width | 10 | 14 | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 | 58 | 62 | 66 | 70 | 74 | 78 | 82 | 86 | 90 |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| mm         | 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254| 254|
| m          | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| 8          | 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361| 361|
| 10         | 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480| 480|
| 14         | 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720| 720|
| 20         | 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080| 1080|
| 22         | 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200| 1200|
| 24         | 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320| 1320|
| 26         | 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440| 1440|
| 28         | 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560| 1560|

FLEXCO PULLEY LAGGING ADHESIVES

Flex-Lag® Adhesives are a two-part cold bonding system designed specifically for use with rubber-to-rubber and rubber-to-metal adhesion. Flex-Lag Adhesives are also produced without using chlorofluorocarbons (CFCs). An excellent bond is achieved while using the minimal amount of cement and primer thanks to high adhesion during installation and after curing.

Excellent Bonding Strength
* Simple to order, easy to use
* Environmentally friendly, free of chlorofluorocarbons (CFC)
* Works with all Flexco cold-bond lagging products

Use the following charts to determine correct order quantities for your pulley size.

Each Flex-Lag Adhesive is mixed with one Flex-Lag Activator. Refer to the usage chart below to calculate the number of cans required for your pulley. Each size is included in the chart please contact Flexco Customer Service for assistance.

**ADHESIVE & ACTIVATOR MIX (1 can : 1 bottle mix ratio)**

- **PRIMER .75L**
- **ADHESIVE 0.8L / ACTIVATOR 40g (1 can : 1 bottle mix ratio)**

- **Face Width**

- **Pulley Diameter (mm)**

- **Correct Order Quantities**

For proper quantities by pulley size, use the lagging calculator at www.flexco.com.

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TRUST YOUR PARTNERS IN PRODUCTIVITY

Flexco’s Partners Plus distributors are strategic partners that have been certified to provide unsurpassed quality installations and service to complement the industry’s leading products. Partners Plus Distributors are also certified by Flexco to diagnose problems, recommend solutions, and share advanced knowledge that will help operations maintain their belt conveyor systems and maximize efficiency and output.

Fewer than 5% of all Flexco distributors are Authorized Partners Plus distributors, making this a special distinction given to distributors who have committed to providing the skills required to earn this title. To obtain this certification, employees from our distributor partners undergo extensive training, learning to properly specify, install, maintain, and troubleshoot Flexco products. Continual training is offered throughout the year to ensure they are fully up to speed on Flexco’s offerings and latest innovations. Each partner is recertified each year they are in the program.

Our Partners Plus distributors are easily identified by looking for this logo on our website’s distributor locator. With over 30 partners in over 15 countries, this growing program that partners Flexco with local experts and the operations in their regions allows us to work together to address their productivity needs.

We work with you to determine the best solution.
Partners Plus distributors are trained to be experts on specifying, installing, and troubleshooting Flexco products, to ensure you receive the optimal performance from your investment.

We’re committed to safety and quality.
At Flexco, we won’t settle for anything less than the best, most durable products around, and we aim to have the services and support to match. That is why we developed the Partners Plus program—to deliver a quality and consistent service program capable of matching the quality of our products.

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. Our global presence balanced with the expertise of our local Partners Plus distributors allows us to enhance the service you receive, actively working toward addressing your specific concerns and needs that may be unique to your operation or industry.

We offer a wide range of compatible products.
In addition to high-quality belt conveyor products, through our Partners Plus program we offer high-quality support and service that matches those products.

FLEXCO SERVICES

Inspection, Installation and Maintenance
Around the world, Flexco has your operation covered. Whether it be with our factory-trained and certified Flexco resources or our trained distributor partners, we’re there to ensure you maximize the return on your investment by making sure Flexco’s products are properly specified, installed, or maintained.

Ensuring the product is installed correctly and maintained is critical to provide the optimal results our products are engineered to deliver. Flexco takes pride in making sure you have access to the resources that make certain the products exceed your expectations.

Conveyor Assessments
Having a third party review your conveyor system can prove to be an effective way to identify performance, maintenance and safety concerns that can be critical to minimizing downtime and maximizing your productivity.

Flexco’s assessment program allows you to proactively address belt conveyor concerns before they lead to costly repairs and unscheduled downtime. Focusing on issues such as spillage, carryback, belt slippage, and mistracking, Flexco specialists will record their findings and return to your operation with a complete recommendation on the system, identifying immediate needs and suggesting future fixes.

Training
Flexco offers training programs around the world that are flexible to meet your needs and requirements. Our programs range from coming to your site to train a maintenance team to hosting you at one of our Flexco training centers at 10 locations around the world. Our comprehensive Flexco University program delivers the knowledge and skills required to ensure you keep your belts running effectively and efficiently, balancing both classroom and field instruction to deliver a detailed, thorough education program. We utilize a variety of tools, from mobile showrooms to demonstration conveyors to provide the most value.

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