Primary & Secondary Belt Cleaners

Providing the World Bulk Material Handling Industry with Productive, Safe and Reliable “Complete Conveyor Solutions.”
ABOUT US

PRODUCTS AND SERVICE THAT LEAD TO SOLUTIONS
AT ASGCO®, our core motivation is to solve problems. We love a challenge, and thrive under pressure. We don’t just provide the highest quality products and services; we deliver solutions.

Providing solutions for your conveyor issues is at our core. From engineers to designers, from technicians to product specialists, it’s what drives everyone at ASGCO®, and the job is never done until our customer is satisfied.....IT’S OUR GUARANTEE!

MAXIMIZING EFFICIENCY

A HERITAGE OF INNOVATION
Since our founding in 1971, by Alfred S. Gibbs and his son Todd, ASGCO® has pioneered some of the most effective products in use for improving bulk material handling. We believe in taking care of the customer with great quality products and exceptional service. This has been a successful and standard policy at ASGCO® for many years and will continue in the future...

FOCUSED ON SOLUTIONS
At ASGCO® we continue to strive to make the handling of bulk materials cleaner, safer, and more productive. No matter what the basic assignment, we always seek out ways to increase production and to reduce operating costs. ASGCO® uses innovative products and engineered solutions to solve problems happening now and to prevent problems from happening in the future.

JUST ASK ASGCO!
What may seem like a problem to our customers is just a chance for us to put every resource we have in motion. And no matter what the basic assignment, we always seek out ways to increase production and to reduce operating costs. Our team is always ready. All you need to do is ask ASGCO®!

OUR PROMISE...
Applies to every shift, every time. Always think and work in terms of solutions that are best for the customer in the long term.
Develop and sell products that satisfy the practical working needs of our customers.

INDUSTRY APPLICATIONS

Primary Belt Cleaners

Secondary Belt Cleaners

Super-Skiper® Primary Belt Cleaner

Skiper MD® Primary Belt Cleaner

Wash-Bar® Secondary Belt Cleaning System

Chevron® Single Shaft with Uniform Disc Secondary Belt Cleaner

Razor-Back® Secondary Belt Cleaner
CONVEYOR BELT CLEANERS

U-Blade Belt Cleaner
- Removes excess water to ensure a dry carry side of the belt down the belt line.
- Tensioned by two air cylinders to assure equal and constant blade pressure, reducing maintenance and ensuring high cleaning efficiency throughout the life of the blade.
- Flippable two-sided, dual durometer blade to give you twice the blade life.

Maximum Belt Speed: 1500 fpm (5.0 m/s)
Applications: Underground Mining, Coal Preparation Plants

Dry Wipe Belt Cleaner
- Removes excess water to ensure a dry carry side of the belt down the belt line.
- Available with Bob-up, Duo-Spring® or Air-Shoc® Tensioning Systems

Maximum Belt Speed: 1000 fpm (3.0 m/s)
Applications: Underground Mining, Coal Preparation Plants

Vibrating Dribble Chute
- Vibrating floor keeps material moving and accumulations from clogging chute and bursting cleaners.
- Rubber lined "isolation" bracket protects chute by transmitting vibration to liner, avoiding metal fatigue.
- Low-Friction UHMW Liner promotes material flow without accumulation and cuts build-up.
- Rugged vibrator provides precise performance - 115 Volt 60HZ Single Phase (with switchbox)
  Electric vibrator provides 450 lbs of Force with durable performance.

Maximum Belt Speed: 1000 fpm (5.0 m/s)
Applications: Underground Mining, Coal Preparation Plants

V-Plow XD™, Hinged V-Plow™ & Diagonal Plow Belt Cleaners
- V-Plow XD™ is a patent pending design for tough mine duty applications that can be flipped to maximize results.
- Hinged V-Plow™ is a patented "hinged" design for low, tight clearance applications
- Diagonal Plow discharges material from one side of the belt
- Available with rubber or urethane bow material

Maximum Belt Speed: 1500 fpm (5.0 m/s)

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- Secondary Belt Cleaners

The Importance of Belt Cleaners
At ASGCO® we recognize that conveyors are the product lifelines to any plant. It is important that all conveyor systems run efficiently in moving your products from one production unit to the next with failure or any unscheduled downtime.

Cleaning Systems Approach:
- Cleaners work most efficiently in a system
- A system is multiple cleaners of any brand or type
- Ball life is better with multiple lightly loaded cleaners rather than one overloaded cleaner
- A single cleaner is false economy
- Adding water to the system will improve performance up to 75%

Selecting the Proper Belt Cleaner:
- Space Available
- Vulcanized or mechanical faced belt
- Diameter of the head pulley
- Material and temperature of product being conveyed
- Belt speed
- Location available for proper installation
- Location off any dribble chute
- Moisture Content

Primary / Secondary Belt Cleaners
We generally recommend multiple belt cleaners be installed to provide effective cleaning on a conveyor system.

Primary or Pre-Cleaners
Installed on the face of the head pulley at a positive angle. It should be mounted directly below the trajectory flow of the material being discharged from the belt.

Secondary Cleaners
Installed after the belt leaves the head (discharge) pulley and/or anywhere on the return side of the belt to effectively remove the remainder of the material that has passed by the pre-cleaner.

Our Guideline for Effective Belt Cleaners Are:
- Design for optimum clean with the least amount of pressure
- Position the blades out of the main flow of the material
- If possible, install the belt cleaners in the main chute or an area that will be easily cleaned and maintained
- Primary blades should be no more than the width of the material being conveyed

- Engineered and designed to handle “worst case” conditions
- Designed for ease of maintenance - Quick and simple replacement blade change
- Tensioner maintains tension throughout the life of the blade
- Inspection/corrosion doors are critical to safely inspect and maintain belt cleaning systems
**Skalper® Belt Cleaner**

- Skalper® (patented) one-piece blade maintains an effective cleaning edge throughout the life of the blade.
- E-Z Torque® (patented) tensile style tensioning system provides a consistent tension throughout the life of the blade.
- Blade-Wear Indicator allows you to monitor blades wear without shutting down for inspection.

Maximum Belt Speed: 1,500 rpm (5.5 miles)

Fleury Diameter: 12" – 20" (300 – 500mm)

Applications: Coal & Coal Preparation Plants, Hard Rock Mining, Steel Mills, Iron Ore, Bulk Shipping Terminals, Coal-Food Power Plants, Coal Preparation Plants

CEMA Class 4

**Super-Skalper® HD Belt Cleaner**

- One Piece Single Mounting Tube for new robust, enhanced HD E-Z Torque® tensioner.
- E-Z Torque® HD Tensioner is patented, made of all stainless steel mounting plates, collars, and springs allows the blades to self adjust throughout the entire life of the blade.
- Optional Ceramic (XC) headed blade available for high speed high tonnage conveyor systems.

Maximum Belt Speed: 1,500 rpm (5.5 miles)

Fleury Diameter: 20" – 40" (500 – 1000mm)

Applications: Underground Mining, Hard Rock Mining, Metal scrap (crushed) Mining, Steel Mills, Iron Ore, Bulk Shipping Terminals, Coal-Food Power Plants, Coal Preparation Plants

CEMA Class 5

**Skalper MDX™ Belt Cleaner**

- Minute Skalper® MDX™ blades is one of the most rugged belt cleaners available.
- Impact absorbing Torque-Cam™ action mounting system adjusts itself when large impact forces from mechanical fasteners or large lumps of carry-back hit the belt cleaner.
- Engineered for the most abusive conditions and applications.
- Installed as individual blade or as a cartridge.
- Optional Ceramic (XC) headed blade available for high speed high tonnage conveyor systems.

Maximum Belt Speed: 1,500 rpm (5.5 miles)

Fleury Diameter: 24" (600mm)

Applications: Underground Mining, Hard Rock Mining, Off-Site Mining, Metals (crushed) Mining, Steel Mills, Iron Ore, Bulk Shipping Terminals

CEMA Class 3

**Toro® Belt Cleaner**

- Effective flexible belt cleaner that can accommodate reversing conveyor belts systems.
- Available with replaceable V-Tips for vulcanized conveyor belts or C-Tips for conveyor belts with mechanical fasteners.
- Slide-out service cartridge allows for easy service and inspection.
- Available with Belt-Up®, Dura-Spring® or Ar-Shoc® Tensioning Systems.

Maximum Belt Speed: 1,500 rpm (5.5 miles)

Applications: Aggregate, Cement, Coal Field Power Plants, Mineral (Phosphate, Potash, Salt Mining, Wood Processing, Recycling)

Available in Three Blade Tips.

Shown with Spring-Actuated Tensioner

**Wash Box® Belt Cleaning System**

- Complete belt cleaning system that incorporates a series of spray bars, belt cleaners and pressure/deflection roll to maximize the effectiveness and virtually eliminate any carry-back.
- Fully enclosed system that contains the wash waste fluid and carry-back.
- Large removable service doors allow the system to be easily inspected and service.
- Can be customized to meet each application needs.

Maximum Belt Speed: 1,500 rpm (5.5 miles)

Applications: Coal Field Power Plants, Bulk Shipping Terminals, Coal Preparation Plants, Underground Mining, Hard Rock Mining, Steel Mills, Iron Ore, Mineral (Phosphate, Potash, Salt Mining)

**Wash Box® Spray Bar**

The Wash Box® Spray Bar, apply an optimal spray of water which suffices the carry-back for a gentle cleaning made by the secondary cleaner. To maximize the effectiveness the Wash Box® “wash down” bar cleans the case pan for any remaining carry-back to prevent dragging.

**REMOVABLE INSPECTION**

2008 – on each side, with wash down hose included.

**Chevron™ Belt Cleaner System**

- Patented concave shaped rubber or urethane discs perform a sweeping action to clean chevron, raised top or grooved conveyor belts.
- Unique rotary fingers remove the carry-back and is designed to work only when the conveyor belt is running.
- Easily serviced and no motors, air nozzles or other problematic equipment to maintain.
- Single or dual shaft systems available.

Maximum Belt Speed: 1,500 rpm (5.5 miles)

Applications: Wood Processing, Mineral (Phosphate, Potash, Salt Mining, Recycling)

Chevron® Discs are available in both Rubber and Urethane, finished or Solid.
SECONDARY BELT CLEANERS

**Razor-Back™ Belt Cleaner**
- Impact absorbing, self-tensioning cushions allow each blade to flex individually and allow a more constant effective tension against the conveyor belt.
- Available with replaceable V-Tips for vulcanized conveyor belts or C-Tips or F-Tips for conveyor belts with mechanical fasteners.
- Slide-out service cartridge allows for easy service and inspection.
- Available with Both-Up™, Duo-Spring™ or Air-Shoc® Tensioning Systems.
- Available with optional water spray.

Maximum Belt Speed = 1000 fpm (5.0 m/min).

**Razor-Back Retractable System™**
- Longwearing Abrasion Resistant - tungsten carbide blades provides and maintains a great cleaning edge against the conveyor belt.
- Quick-Change - slide-out mounting system allows for simple removal of the cartridge from one side of the conveyor system, without having to break the plane of the conveyor structure, or having to move mounting brackets or the main mounting tube.
- Impact Absorbing Tension Cushions - tension each individual blade to the belt for a controlled and effective conveyor belt cleaning across the entire width of the belt.
- Compact Design - allows for an installation that requires less than 10’ of clearance to be installed and maintained.

Maximum Belt Speed = 1000 fpm (5.0 m/min).

**Razor-Back MX™ Belt Cleaner**
- FosforFlex™ (patent pending) impact absorbing rubber and spring-loaded tensioning cushions maintain a constant effective force between the belt cleaner and the conveyor belt.
- Available with replaceable MX™ V-Tips for vulcanized conveyor belts or MX™ C-Tips or F-Tips for conveyor belts with mechanical fasteners.
- Slide-out service cartridge allows for easy service and inspection.
- Available with Both-Up™, Spring-Shoc™ or Air-Shoc® Tensioning Systems.

Maximum Belt Speed = 1200 fpm (6.0 m/min).

PRIMARY BELT CLEANERS - QUARRY DUTY

**E-Z Skalper™ Belt Cleaner**
- E-Z Skalper™ (patented) one piece blade maintains an effective cleaning edge throughout the life of the blade.
- Available with either the E-Z Torque™ (patented) tension style tensioner or the Foros-IT™ tensioning system.
- Blade-Wear Indicator allows you to monitor blade wear sooner without having to shut the system down for inspection.

Maximum Belt Speed = 1000 fpm (5.0 m/min).
Pulley Diameter = 10” - 36” (250 - 900mm).
CEMA Class 4.

**Pit-Skalper™ Belt Cleaner**
- Pit-Skalper™ Blade design (patented) maintains an effective cleaning edge throughout the life of the blade.
- The zinc plated blade mounting tube and bracket assemblies offer the highest standard in corrosion resistance in a variety of applications.
- E-Z Torque™ Tensioner is a patented tensioner featuring stainless steel spring, allows the blades to self adjust throughout the entire life of the blade and is the most robust and accurate belt cleaner tensioner in the industry.

Maximum Belt Speed = 1000 fpm (5.0 m/min).
Pulley Diameter = 10” - 36” (250 - 900mm).
Applications: Aggregate, Ready Mix, Asphalt, Recycling, Sand and Gravel.
CEMA Class 3.

**Mini-Skalper™ Belt Cleaner**
- Skalper™ (patented) compact one piece blade maintains an effective cleaning edge throughout the life of the blade.
- Foros-IT™ Tensioning system provides constant tension.
- Visual tension check.
- Quick blade change outs and minimal maintenance.

Maximum Belt Speed = 1000 fpm (5.0 m/min).
Pulley Diameter = 10” - 27” (250 - 680mm).
CEMA Class 2.

All belt cleaner tensioners and mounting hardware are constructed from 304 Stainless Steel and all have a lifetime guarantee for the life of the belt cleaning system.
Conveyor belt conditions, belt speeds, pulley diameters and general conveyor and maintenance conditions should all be considered before selecting the belt cleaner that will be most effectively utilized.
Underground mining mounting kits are also available.
### PRIMARY BELT CLEANERS

Primary belt cleaners are installed at the 9 o’clock position on the face of the head pulley, referred to as the primary position. It should be mounted below the trajectory flow of the material being discharged from the belt. These are the most common type of belt cleaner.

<table>
<thead>
<tr>
<th>Pro-Cleaner</th>
<th>Mini-Skaper®</th>
<th>Skaper®</th>
<th>E-Z Skaper®</th>
<th>Super-Skaper®</th>
<th>Skaper MX®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt Width</td>
<td>18”-36” 450-900 mm</td>
<td>18”-36” 450-900 mm</td>
<td>18”-36” 450-900 mm</td>
<td>18”-36” 450-900 mm</td>
<td>18”-36” 450-900 mm</td>
</tr>
<tr>
<td>Belt Speed</td>
<td>&lt; 500 fpm 2.5 m/min</td>
<td>&lt; 1250 fpm 5 m/min</td>
<td>&lt; 1000 fpm 5 m/min</td>
<td>&lt; 1200 fpm 6 m/min</td>
<td>&lt; 1350 fpm 6.5 m/min</td>
</tr>
<tr>
<td>Primary Tensioners</td>
<td>Force-1®</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Air-Strike® (liquid)</td>
<td>NA</td>
<td>YES</td>
<td>YES</td>
<td>NA</td>
<td>YES</td>
</tr>
<tr>
<td>Spring-Back® (liquid)</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Blade Conditions</td>
<td>OK on reversible belt?</td>
<td>YES</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

### SKAPER® BLADES

| Skaper® / Skaper® M / Skaper® 4 / Skaper® JR / Skaper® CR / Skaper® CR (Ceramic) / Skaper® AR | YES | YES | YES | YES | YES | YES |

### Secondary Belt Cleaner Tensioners

Secondary belt cleaners are installed after the point where the belt leaves the head (discharge) pulley and or anywhere on the return side of the belt where it can be cleaned and maintained effectively.

<table>
<thead>
<tr>
<th>Secondary Cleaners</th>
<th>TORO®</th>
<th>Razor-Back®</th>
<th>Razor-Back MX®</th>
<th>Chevron®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt Width</td>
<td>18”-36” 450-900 mm</td>
<td>18”-36” 450-900 mm</td>
<td>18”-36” 450-900 mm</td>
<td>18”-36” 450-900 mm</td>
</tr>
<tr>
<td>Belt Speed</td>
<td>&lt; 1500 fpm 6 m/min</td>
<td>&lt; 1500 fpm 6 m/min</td>
<td>&lt; 1320 fpm 6 m/min</td>
<td>&lt; 500 fpm 2.5 m/min</td>
</tr>
</tbody>
</table>

### Secondary Blades

<table>
<thead>
<tr>
<th>Blade Type</th>
<th>TORO® T-Tips</th>
<th>TORO® C-Tips</th>
<th>F-Tips</th>
<th>C-Tips</th>
<th>V-Tips</th>
<th>U-Tips</th>
<th>O-C-Tips</th>
<th>MX® F-Tips</th>
<th>MX® C-Tips</th>
<th>MX® V-Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt Speed</td>
<td>&lt; 1500 fpm 6 m/min</td>
<td>&lt; 1500 fpm 6 m/min</td>
<td>&lt; 1500 fpm 6 m/min</td>
<td>&lt; 1500 fpm 6 m/min</td>
<td>&lt; 1500 fpm 6 m/min</td>
<td>&lt; 1450 fpm 7 m/min</td>
<td>&lt; 1200 fpm 5 m/min</td>
<td>&lt; 1200 fpm 5 m/min</td>
<td>&lt; 1200 fpm 5 m/min</td>
<td></td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-20°F to 82°F</td>
<td>-20°F to 82°F</td>
<td>-20°F to 82°F</td>
<td>-20°F to 82°F</td>
<td>-20°F to 82°F</td>
<td>-20°F to 82°F</td>
<td>-20°F to 82°F</td>
<td>-20°F to 82°F</td>
<td>-20°F to 82°F</td>
<td></td>
</tr>
</tbody>
</table>

### Secondary Belt Cleaner Mounting Bracket

<table>
<thead>
<tr>
<th>Roll-Up</th>
<th>backup MX®</th>
<th>Spring-Back® / MX®</th>
<th>Dual-Spring®</th>
<th>Air-Strike® MX®</th>
<th>Secondary Mounting Bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder coated steel bracket</td>
<td>Powder coated steel construction of eg, pulleys, etc</td>
<td>Powder coated steel construction of eg, pulleys, etc</td>
<td>Powder coated steel construction of eg, pulleys, etc</td>
<td>Powder coated steel construction of eg, pulleys, etc</td>
<td>Powder coated steel construction of eg, pulleys, etc</td>
</tr>
</tbody>
</table>
| - Zinc plated steel construction | - Zinc plated steel construction | - Zinc plated steel construction | - Zinc plated steel construction | - Zinc plated steel construction | - Removable blind flange 

[Images and diagrams related to belt cleaners and mounting brackets are shown.]
**Primary Belt Cleaners**

Primary belt cleaners are installed at the 9 o’clock position on the face of the head pulley, referred to as the primary position. It should be mounted below the trajectory flow of the material being discharged from the belt. These are the most common type of belt cleaner.

### Pro-Cleaner
- **Mini-Skaber®**: 18"-28" 450-700 mm
- **Skaber®**: 18"-28" 450-700 mm
- **Super Skaber®**: 18"-28" 450-700 mm
- **Skaber MX®**

**Pro-Cleaner (continued)**
- **Belt Speed**: < 3500 fps 1070 m/sec
- **Head Pulley Diameter**: 10"-12" 250-300 mm

**Primary Tensioners**
- Force-1®
- E-Z Tensioner®
- Air-Strut™ (Spring-Back)®
- Spring-Back® (Miniway)

**Bolt Conditions**
- OK on reversible belt?: Yes

**Blade Materials**
- **Skaber® 8**: Yes
- **Skaber® 8-1/2**: Yes
- **Skaber® 10**: Yes
- **Skaber® 10-1/2**: Yes
- **Skaber® X®**: No
- **Skaber® X® Ceramic**: No
- **Skaber® All®**: Yes

**Skaber® Blades**

### Secondary Belt Cleaners

Secondary belt cleaners are installed after the point where the belt leaves the head (discharge) pulley and/or anywhere on the return side of the belt where it can be cleaned and maintained effectively.

### Secondary Belt Cleaner Tensioners
- **Bolt-Up**: Yes
- **Bolt-Up MX®**: Yes
- **Spring-Back® MX®**: Yes
- **Spring-Back® MX® (Miniway)**

**Secondary Blades**

### Blade Materials
- **TORO® TIPS**: Yes
- **TORO® C-TIPS**: Yes
- **F-TIPS**: Yes
- **X-TIPS**: Yes
- **MX® F-TIPS**: Yes
- **MX® V-TIPS**: Yes

**Blade Tensions**
- **Bolt Speed**: < 1000 fps 300 m/sec
- **Temperature Range**: -30°F to 90°F

**Primary Mounting Brackets**

### Primary Belt Cleaner Tensioners
- **Roll-Up**: Yes
- **Bolt-Up MX®**: Yes
- **Spring-Back® MX®**: Yes
- **Spring-Back® MX® (Miniway)**

**Primary Tensioners**
- **E-Z Tensioner®**: Yes
- **Spring-Back®**: Yes
- **Air-Strut™**: Yes
- **Force-1®**: Yes

### Primary Mounting Brackets
- **Bolt-Up MX®**: Yes
- **Spring-Back® MX®**: Yes
- **Spring-Back® MX® (Miniway)**

**Primary Mounting Bracket**
- **Bolt-Up MX®**: Yes
- **Spring-Back® MX®**: Yes
- **Spring-Back® MX® (Miniway)**

For more information or to purchase these products, visit [www.asgco.com](http://www.asgco.com) or call 800.344.4000.
**SECONDARY BELT CLEANERS**

**Razor-Back** Belt Cleaner

- Impact absorbing, self-tensioning cushions allow each blade to flex individually and allow a more constant effective tension against the conveyor belt.
- Available with replaceable V-Tips for vulcanized conveyor belts or C-Tips or F-Tips for conveyor belts with mechanical fasteners.
- Slide-out service cartridge allows for easy service and inspection.
- Available with Bolt-up™, Duo-Spring™ or Air-Shoc™ Tensioning Systems.
- Available with optional water spray.

**Razor-Back Retractable System™**

- Longwearing Abrasion Resistant - tungsten carbide blades provide and maintain a great cleaning edge against the conveyor belt.
- Quick-Change - slide-out mounting system allows for simple removal of the cartridge from one side of the conveyor system, without having to break the plane of the conveyor structure, or having to remove mounting brackets or the main mounting tube.
- Impact Absorbing Tension Cushions - tension each individual blade to the belt for a controlled and effective conveyor belt cleaning across the entire width of the belt.
- Compact Design - allows for an installation that requires less than 9” of clearance to be installed and maintained.

**Razor-Back MDX** Belt Cleaner

- Flexorflex™ (patent pending) impact absorbing rubber and spring-loaded tensioning cushions maintain a constant effective force between the belt cleaner and the conveyor belt.
- Available with replaceable MDX V-Tips for vulcanized conveyor belts or MDX C-Tips for conveyor belts with mechanical fasteners.
- Slide-out service cartridge allows for easy service and inspection.
- Available with Bolt-up™, Duo-Spring™ or Air-Shoc™ Tensioning Systems.

**PRIMARY BELT CLEANERS - QUARRY DUTY**

**E-Z Skalper** Belt Cleaner

- E-Z Skalper® (patented) one piece blade maintains an effective cleaning edge throughout the life of the blade.
- Available with either the E-Z Torque® (patented) torsion style tensioner or the Flexo-F® tensioning system.
- Blade-Wear Indicator allows you to monitor blade wear easily without having to shut the system down for inspection.

**Pit-Skalper** Belt Cleaner

- Pit-Skalper® Blade design (patented) maintains an effective cleaning edge throughout the life of the blade.
- The zinc plated blade mounting tube and bracket assemblies offer the highest standard in corrosion resistance in a variety of applications.
- E-Z Torque™ Tensioner is a patented tensioner featuring stainless steel spring, allows the blades to self-adjust throughout the entire life of the blade and is the most robust and accurate belt cleaner tensioner in the industry.

**Mini-Skalper** Belt Cleaner

- Skalper® (patented) compact one piece blade maintains an effective cleaning edge throughout the life of the blade.
- Flexo-F® Tensioning system provides constant tension.
- Visual tension check.
- Quick blade change outs and minimal maintenance.

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All belt cleaner tensioners and mounting hardware are constructed from 304 Stainless Steel and all have a lifetime guarantee for the life of the belt cleaning system.

- Conveyor belt conditions, belt speeds, pulley diameters and general conveyor and maintenance conditions should all be considered before selecting the belt cleaner that will be most effectively utilized.
- Underground mining mounting kits are also available.
### PRIMARY BELT CLEANERS

**Skalper® Belt Cleaner**
- Skalper® (patented) one piece blade maintains an effective cleaning edge throughout the life of the blade.
- E-Z Torque® (patented) tension style tensioning system provides a consistent tension throughout the life of the blade.
- Blade Wear Indicator allows you to monitor blade wear without shutting down for inspection.
- **Maximum Belt Speed:** 1500 fpm (5.5 miles)
- **Flywheel Diameter:** 7 3/4” (100 – 300mm)
- Applications: Coal Fired Power Plants, Hard Rock Mining, Coal Preparation Plants
- CEMA Class 4

**Super-Skalper® HD Belt Cleaner**
- One Piece Single Mounting Tube for new robust, enhanced HD E-Z Torque® tensioner.
- E-Z Torque® HD Tensioner is patented, made of all 304 stainless steel mounting plates, collars and springs allows the blades to self adjust throughout the entire life of the blade.
- Optional Ceramic (XC) headed blade available for high speed high tonnage conveyor systems.
- **Maximum Belt Speed:** 1500 fpm (5.5 miles)
- **Flywheel Diameter:** 26” (650mm – 1)
- Applications: Underground Mining, Hard Rock Mining, Metal (copper/lead), Mining, Steel Mills, Iron Ore, Dock, Shipping Terminals, Coal Preparation Plants
- CEMA Class 5

### SECONDARY BELT CLEANERS

**TORO® Belt Cleaner**
- Effective flexible belt cleaner that can accommodate reversing conveyor belt systems.
- Available with replaceable V-Tips for vulcanized conveyor belts or C-Tips or F-Tips for conveyor belts with mechanical fasteners.
- Slide-out service cartridge allows for easy service and inspection.
- Available with Bolt-Up™, Ovak-Spring™ or Aron-Shoc™ Tensioning Systems.
- **Maximum Belt Speed:** 1000 fpm (5.5 miles)
- Applications: Aggregate, Cement, Coal Fired Power Plants, Mineral (Phosphate, Pulp, Salt Mining, Wood Processing, Recycling)

**Wash Box® Belt Cleaning System**
- Complete belt cleaning system that incorporates a series of spray bars, belt cleaners and pressure/deflection roll to maximize the effectiveness and virtually eliminate all carry-back.
- Fully enclosed system that contains the wash waste fluid and carry-back.
- Large removable service doors allow the system to be easily inspected and service.
- Can be customized to meet exact application needs.
- **Maximum Belt Speed:** 1000 fpm (5.5 miles)
- Applications: Coal Fired Power Plants, Dock, Shipping Terminals, Coal Preparation Plants, Underground Mining, Hard Rock Mining, Steel Mills, Iron Ore, Mineral (Phosphate, Pulp, Salt Mining)

**Skalper MDX® Belt Cleaner**
- Mini-duty Skalper MDX® blades is one of the most rugged belt cleaners available.
- Impact absorbing Torque-Cam™ action mounting system attaches itself when large impact forces from mechanical fasteners or large lumps of carry-back hit the belt cleaner.
- Engineered for the most abusive conditions and applications.
- Installed as individual blades or as a cartridge.
- Optional Ceramic (XC) headed blade available for high speed high tonnage conveyor systems.
- **Maximum Belt Speed:** 1200 fpm (5.5 miles)
- **Flywheel Diameter:** 24” (600mm – 1)
- Applications: Underground Mining, Hard Rock Mining, Off Belt Mining, Metal (copper/lead), Mining, Steel Mills, Iron Ore, Dock, Shipping Terminals
- CEMA Class 5

**Chevron® Belt Cleaner System**
- Patented concave shaped rubber or urethane discs perform a sweeping action to clean chevron, raised top or grooved conveyor belts.
- Unique rotary fingers remove the carry-back and is designed to work only when the conveyor belt is running.
- Easily serviced and no motors, air nozzles or other problematic equipment to maintain.
- Single or dual shaft systems available.
- **Maximum Belt Speed:** 600 fpm (2.5 miles)
- Applications: Wood Processing, Mineral (Phosphate, Pulp, Salt Mining, Recycling

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**Wash Box® Spray Bar**
- The Wash Box® Spray Bar, apply an optimal spray of water which softens the carry-back for a gentle cleaning made by the secondary cleaner. To maximize the effectiveness the Wash Box® “wash down” bar dries the clean pan for any remaining carry-back to prevent dragging.

**REMOVABLE INSPECTION SIDE 2008 – on each side, wash down not included.**

**Chevron® Belts**
- Chevron® Belts are available in both Rubber and Urethane, notched or solid.
- Unique rotary fingers are forced against the base of the chevron to dislodge material from the belt.
- Chevron® Belts are available in both Rubber and Urethane, notched or solid.

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CONVEYOR BELT CLEANERS

U-Blade Belt Cleaner
• Removes excess water to ensure a dry carry side of the belt down the belt line.
• Tensioned by two air cylinders to assure equal and constant blade pressure, reducing maintenance and ensuring high cleaning efficiency throughout the life of the blade.
• Flipable two-sided, dual durometer blades to give you twice the blade life.
  Maximum Belt Speed = 1500 fpm (5.0 m/s)
  Applications – Underground Mining, Coal Preparation Plants

Dry Wipe Belt Cleaner
• Removes excess water to ensure a dry carry side of the belt down the belt line.
• Available with Bo-Top, Duo-Spring™ or Air-Shoc® Tensioning Systems
  Maximum Belt Speed = 1500 fpm (5.0 m/s)
  Applications – Underground Mining, Coal Preparation Plants

Vibrating Dribble Chute
• Vibrating floor keeps material moving and accumulations from clogging chute and clogging conveyors.
• Rubber lined “isolation” bracket protects chute by transferring vibration to liner, avoiding metal fatigue.
• Low-Friction UHMW Fling promotes material flow without accumulation and cuts build-up.
• Rugged vibrator provides precise performance – 115 Volt 60Hz Single Phase (with switchbox) Electric vibrator provides 450 lbs of Force with durable performance.
  Maximum Belt Speed = 1000 fpm (3.0 m/s)
  Applications – Underground Mining, Coal Preparation Plants

V-Plow XD™, Hinged V-Plow™ & Diagonal Plow Belt Cleaners
• V-Plow XD™ is a patent pending design for tough mine duty applications that can be flipped to maximize results.
• Hinged V-Plow™ is a patented “hinged” design for low, tight clearance applications.
• Diagonal Plow discharges material from one side of the belt.
• Available with rubber or urethane plow material.
  Maximum Belt Speed = 1500 fpm (5.0 m/s)
  Applications – Coal Feed, Power Plants, Hard Rock Mining, Underground Mining, Coal Preparation Plants, Steel Mills, Iron Ore, Aggregates, Metals (copper/nickel) Mining, Mineral (Phosphate, Potash, Salt) Mining, Bulk Shipping Terminals

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The Importance of Belt Cleaners
At ASGCO® we recognize that conveyors are the product lifeline to any plant. It is important that all conveyor systems run efficiently in moving your products from one production unit to the other without failure or any unscheduled downtime.

Cleaning Systems Approach:
• Cleaners work more efficiently in a system
• A system is multiple cleaners of any brand or type
• Belt life is better with multiple lightly loaded cleaners rather than one overloaded cleaner
• A single cleaner is false economy
• Adding water to the system will improve performance up to 75%

Selecting the Proper Belt Cleaner:
• Space Available
• Vulcanized or mechanical faced belt
• Diameter of the head pulley
• Material and temperature of product being conveyed
• Belt speed
• Location available for proper installation
• Location off any dribble chute
• Moisture Content

Primary / Secondary Belt Cleaners
We generally recommend multiple belt cleaners be installed to provide effective cleaning on a conveyor system.

Primary or Pre-Cleaners
Installed on the face of the head pulley at a positive angle. It should be mounted directly below the trajectory of the material being discharged from the belt.

Secondary Cleaners
Installed after the belt leaves the head (discharge) pulley and/or anywhere on the return side of the belt to effectively remove the remainder of the material that has passed through the pre-cleaner.

Our Guideline for Effective Belt Cleaners Are:
• Design for optimum clean with the least amount of pressure
• Position the blades out of the main flow of the material
• If possible, install the belt cleaners in the main chute or in an area that will be easily cleaned and maintained
• Primary blades should be no more than the width of the material being conveyed

• Engineered and designed to handle “worst case” conditions
• Designed for ease of maintenance
• Quick and simple replacement blade change
• Tensioner maintains tension throughout the life of the blade
• Inspection/corrosion doors are critical to safely inspect and maintain belt cleaning systems

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ABOUT
US

Providing solutions for your conveyor issues is at our core. From engineers to designers, from technicians to product specialists, it’s what drives everyone at ASGCO®, and the job is never done until our customer is satisfied... IT’S OUR GUARANTEE!

A HERITAGE OF INNOVATION
Since our founding in 1971, by Alfred S. Gibbs and his son, Todd, ASGCO® has pioneered some of the most effective products in use for improving bulk material handling. We believe in taking care of the customer with great quality products and exceptional service. This has been a successful and standard policy at ASGCO® for many years and will continue in the future...

FOCUSED ON SOLUTIONS
At ASGCO® we continue to strive to make the handling of bulk materials cleaner, safer, and more productive. No matter what the basic assignment, we always seek out ways to increase production and to reduce operating costs. ASGCO® uses innovative products and engineered solutions to solve problems happening now and to prevent problems from happening in the future.

JUST ASK ASGCO!
What may seem like a problem to our customers is just a chance for us to put every resource we have in motion. And no matter what the basic assignment, we always seek out ways to increase production and to reduce operating costs. Our team is always ready. All you need to do is ask ASGCO®!

OUR PROMISE...
Apply to every deal, every time.
Always think and work in terms of solutions that are best for the customer in the long term.
Develop and sell products that satisfy the practical working needs of our customers.

PRODUCTS AND SERVICE THAT LEAD TO SOLUTIONS
At ASGCO®, our core motivation is to solve problems. We love a challenge, and thrive under pressure. We don’t just provide the highest quality products and services; we deliver solutions.

INDUSTRY APPLICATIONS

Primary Belt Cleaners

Super Skimmer® Primary Belt Cleaner

Skimmer 7™ Primary Belt Cleaner

Secondary Belt Cleaners

Wash-Brush® Secondary Belt Cleaning System

Chevron® Single Shaft with Uniform Discs Secondary Belt Cleaner

Razor-Back® Secondary Belt Cleaner
Providing the World Bulk Material Handling Industry with Productive, Safe and Reliable “Complete Conveyor Solutions.”

Primary & Secondary Belt Cleaners