

A Clean Conveyor is a Safe & Efficient Conveyor

PRIMARY & SECONDARY BELT CLEANERS



**E-Z Skalper • Skalper IV • Skalper III • Mini-Skalper • Super Skalper • Skalper MDX • Razorback
• Razorback MDX • New Wave III • Vibra Clean • Chevron • Hinged V-Plow • Diagonal Plow**



***Our Mission. . .
Providing the World Material Handling
Industry with Productive, Safe and Reliable
“Complete Conveyor Solutions”.***



ENGINEERED CONVEYOR PRODUCTS & SERVICES FOR BULK MATERIAL HANDLING SYSTEMS



www.asgco.com

800.344.4000

ASGCO Manufacturing, Inc. headquartered in Allentown, PA is a leading manufacturer of proprietary bulk conveyor components and accessories that enhance material flow performance. Founded in 1971 by Alfred S. Gibbs, ASGCO believes in taking care of the customer with great quality products and exceptional service. This has been a successful and a standard policy at ASGCO for many years and will continue in the future.

ASGCO is a diversified and innovative company with six major divisions that serve specific targets of the material handling industry. We market these innovative products and services through selected distributors, joint ventures, and representatives worldwide. The growth of the company, over the years, is due to recognized improvements in the productivity of our customers operations.

Every material handling system has conditions — either large or small, constant or intermittent, open or obscure — that an ASGCO study can identify and improve. We also believe that a consulting study will provide improvements that will be a wise investment. That's because, no matter what the basic assignment, we always seek out ways to increase production and to reduce operating costs.

We typically start these services with a thorough on-site inspection to observe the operation and gather data. Next, we analyze and study the data, and often search for additional information. The end result: recommendations for new procedures and improved equipment — all aimed at providing solutions that can be pragmatically implemented.

ASGCO will continue to serve the needs of the traditional bulk materials industry. Every client can be assured that ASGCO bases it's reputation on quality service and products. We promise that we will not just meet, but exceed your expectations in helping our customers increase production and reduce operating costs.

THE ASGCO PROMISE - applies to every client, every time.

Always think and work in terms of solutions that are best for the customer in the long term.

Provide prompt, reliable service to every client, every time.

Develop and sell products that satisfy the practical working needs of our customers.

CONVEYOR BELT CLEANERS

ASGCO MANUFACTURING, INC. is a world leader in the design and engineering of conveyor belt cleaning systems. We recognize that conveyors are the product lifelines to any plant. It is essential that all conveyor systems run efficiently in moving your products from one production unit to the next without failure or any unscheduled downtime.

Belt cleaners are an essential part of any conveyor system. Belt cleaners help remove product carry-back and prevent it from falling off at various points along the return side of the belt causing various housekeeping and maintenance problems.

Carry-back can lead to:

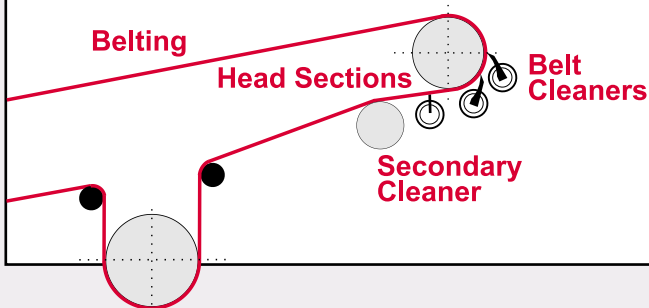
- Excessive buildup and wear on belt idlers and pulleys
- Conveyor belt misalignment due to the artificial crown created by the carry-back
- Accumulation of material falling off idlers and structure to the ground or on buildings, vehicles or even people
- Negative and unsafe work environment



We have set high standards to help plants minimize problems associated with material carry-back.

Our guidelines for effective belt cleaners are:

- Design for optimum clean with the least amount of pressure
- Position the blade 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 to maintain tension throughout the life of the blade



PRIMARY / SECONDARY

We generally recommend multiple belt cleaners be installed to provide effective cleaning on a conveyor system.

Primary or Pre-Cleaners

Installed at a positive angle, these belt cleaners would be mounted directly against the head pulley below the normal trajectory path of the material.

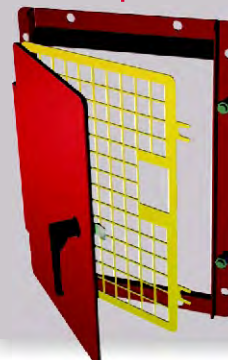


Secondary Cleaners

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.



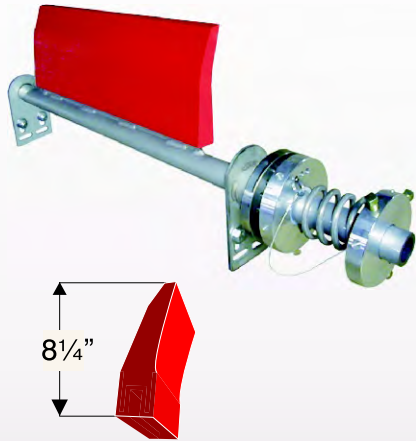
Chute Inspection Doors



Chute Inspection Doors are a necessary part of any transfer point to allow safe inspection and access to maintain the belt cleaner systems.

PRIMARY BELT CLEANER SYSTEMS

E-Z SKALPER

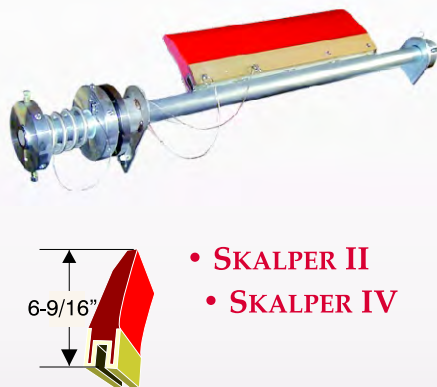


Your Best Value In An All Urethane Cleaner

The **EZ-Skalper** conveyor belt pre-cleaner provides effective carry-back removal in the toughest environments. The patented blade is designed for removing high volumes of material and for quick and easy maintenance.

- **Excellent Performance** - of our patented EZ-Skalper Blade design is available in a 1-piece blade or segmented blades that can be changed for the optimum in blade coverage across the belt's material carry path for better cleaning efficiency.
- **Advanced Composites** - using ASGCO's experience with urethane composites, provides belt cleaner blades that can handle the toughest environments; Aggregate, Cement, Coal, Gypsum, Potash, Pulp and Paper and Coal industries.
- **EZ-Torque Tensioner** - (lifetime warranty) made of stainless steel allows the blades to self adjust and is the most robust and accurate belt cleaner tensioner in the industry.

SKALPER SERIES



- **SKALPER II**
- **SKALPER IV**

Superior Primary Belt Cleaning System for Every Application

Our original **Skalper** conveyor belt pre-cleaner has been installed and has solved carry-back problems all over the world. The simple and highly effective Skalper belt cleaner removes carry-back effectively and efficiently.

- **Excellent Performance** - of our patented Skalper Blade design maintains an effective cleaning edge throughout the life of the blade and can be changed for the optimum in blade coverage across the belt's material carry path for better cleaning efficiency.
- **Quick-Change Blade** - stainless steel pin blade change-out system is a one-minute, no-tool operation.
- **EZ-Torque Tensioner** - (lifetime warranty) made of stainless steel allows the blades to self adjust and is the most robust and accurate belt cleaner tensioner in the industry.

MINI-SKALPER



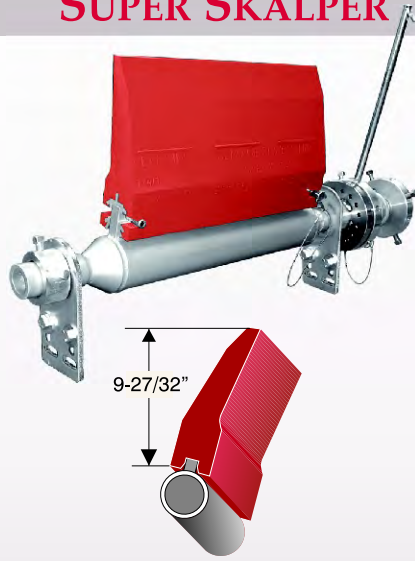
Great Solution for Smaller Diameter Pulleys

The unique **Mini-Skalper** conveyor belt pre-cleaner is designed where space and size is a factor. This belt cleaner is great when the head pulley is less than 16" (400mm) in diameter or tight locations.

- **Excellent Performance** - of our patented Mini-Skalper Blade design maintains an effective cleaning edge throughout the life of the blade and can be changed for the optimum in blade coverage across the belt's material carry path for better cleaning efficiency.
- **Quick-Change Blade** - stainless steel pin blade change-out system is a one-minute, no-tool operation.
- **EZ-Torque Tensioner** (lifetime warranty) made of stainless steel allows the blades to self-adjust and is the most robust and accurate belt cleaner tensioner in the industry.

PRIMARY BELT CLEANER SYSTEMS

SUPER SKALPER



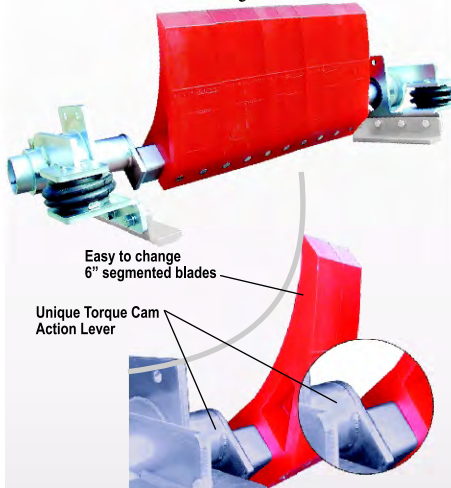
Superior Primary Belt Cleaning System for Tough Application

The **Super-Skalper** conveyor belt pre-cleaner can tackle the toughest carry-back applications. The massive blade provides carry-back removal for high-speed belts, large head pulleys and large sizes and volumes of material, typically found in below and above ground mining.

- **Extremely Rugged Heavy-Duty** - mounting tube and massive blade can handle any extreme carry-back conditions as seen in underground and aboveground mining.
- **Super-Skalper Blade** - (MSHA 1C95/1) is a massive 10" (250mm) high blade and is designed to maintain an effective cleaning edge throughout the life of the blade.
- **Quick-Change Blade** - stainless steel pin blade change-out system is a one-minute, no-tool operation.
- **EZ-Torque Tensioner** - (lifetime warranty) made of stainless steel allows the blades to self adjust and is the most robust and accurate belt cleaner tensioner in the industry.
- **Dual EZ-Torque Tensioners** - are standard for belt widths 48" (1200mm) and above.

SKALPER MDX

Mine DutyCleaner

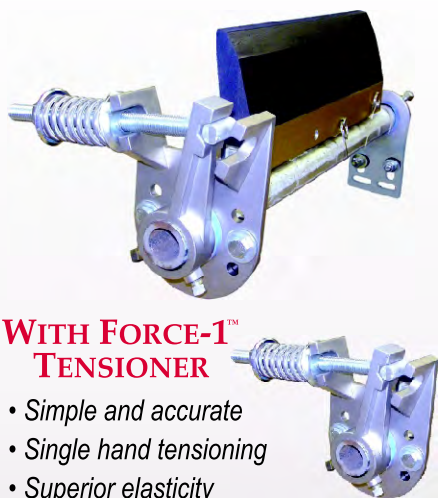


Superior Mine Duty Belt Cleaning Systems for Extreme Applications

The **Skalper MDX** pre-cleaner is designed for high speed and high tonnage conveyor systems in above and underground mining. The heavy-duty urethane blade mounts against the head pulley for efficient cleaning, and our unique torque cam action lever adjusts itself to remove high volumes of carry-back while minimizing blade wear and wear from mechanical fasteners. Guaranteed mine tough!

- **Extremely Rugged Heavy-Duty** - impact forces create a torque, rotating the blade away from the head pulley to prevent the mounting tube from bending.
- **Quick-Change Blade** - easily replaced by removing just 2 bolts per blade segment.
- **Unique Torque Cam Action Lever** - torques cam action lever allows the blade to angle into the belt to get rid of carry-back and prevent damage from material impact or mechanical splices.
- **Adjustable Blade Segments** - provide coverage where it is needed most, on the belt's material path, minimizing blade wear.

SKALPER III



Economical Solution for Better Belt Cleaning

The **Skalper III** conveyor belt pre-cleaner features the Skalper blade design and an effectively simple and accurate all stainless steel Force-1 tensioner with an economical price tag. The urethane composites used in the Skalper III blade are designed for the aggregate industries.

- Simple and accurate
- Single hand tensioning
- Superior elasticity


- **Excellent Performance** - of our patented Skalper Blade design maintains an effective cleaning edge throughout the life of the blade and can be changed for the optimum in blade coverage across the belt's material carry path for better cleaning efficiency.
- **Quick-Change Blade** - stainless steel pin blade change-out system is a one-minute, no-tool operation.
- **Force-1 Tensioner** - (lifetime warranty) all stainless steel tensioner provides the effective tension to the Skalper blade as it self-adjusts and can be easily reset to optimal blade tension.
- **Skalper III System** - tensioners can be upgraded to EZ-Torque or Roto-Twist.

PRIMARY AND SECONDARY BELT CLEANERS / BLADES / TENSIONERS

PRIMARY BELT CLEANER TENSIONERS


Application

Force-1



- Stainless steel construction
- UHMW bushing both sides
- Steel spring - will not take set
- Compact size
- Economically priced

E-Z Torque



- Stainless mounting bracket
- UHMW bushing
- Stainless spring - will not take a set
- Minimum readjusting during life of blade
- Rugged coil spring


Air-Shoc (Primary)



- Extreme conditions 5/8" thick material
- Rubber shock mounts in hub
- UHMW for smooth operation
- Air Bag maintains constant force throughout life of blade - No readjustment


SECONDARY BELT CLEANER TENSIONERS

Bolt-Up



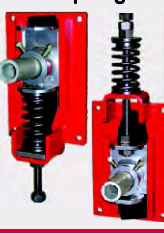
- Rugged simplicity
- Simple clamp block
- Slides to engage & compress rubber blade cushion
- Locks to frame
- No moving parts
- Simple lift away mounting tube removal

Air-Shoc (Secondary)



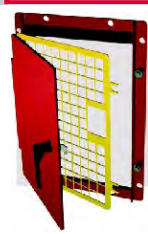
- Extreme conditions 5/8" thick mounting plates
- Rubber shock mounts in hub
- UHMW slide for smooth operation
- Rugged air bag maintains constant blade force throughout blade life

Duo-Spring



- Single spring tensioner allows for easy and consistent adjustments
- Allows for two mounting options, push or pull up.
- Rugged, reliable construction
- Integrated dust shield to keep fugitive material in
- Available on Razor-Back and NewWave III

PRIMARY BELT CLEANER SYSTEMS						SECONDARY BELT CLEANER SYSTEMS				
Application Summary	Mini-Skalper	Skalper	E-Z Skalper	Super Skalper	Skalper MDX	NewWave III	Razor-Back	Razor-Back MDX	Chevron Cleaner	
Belt Width	18"-48"	18"-96"	18"-96"	36"-96"	36"-96"	18"-96"	18"-96"	36"-96"	18"-96"	Belt Width
Belt Speed	< 600 fpm	< 1200 fpm	< 1200 fpm	< 1200 fpm	< 1200 fpm	< 800 fpm	< 800 fpm	< 1200 fpm	< 600 fpm	Belt Speed
Head Pulley Dia.	8"-16"	16"-24"	16"-30"	24"-36"	24"-48"	N/A	N/A	N/A	N/A	Head Pulley Dia.
Force-1	YES	YES	YES	NO	NO	N/A	N/A	N/A	N/A	Force-1
E-Z Torque	YES	YES	YES	YES	NO	N/A	N/A	N/A	N/A	E-Z Torque
Air-Shoc (Primary)	NO	NO	NO	YES	YES	N/A	N/A	N/A	N/A	Air-Shoc (Primary)
Mine-Shoc (Primary)	NO	NO	NO	YES	YES	N/A	N/A	N/A	N/A	Mine-Shoc (Primary)
Bolt-Up	NA	NA	NA	NA	NA	YES	YES	NO	N/A	Bolt-Up
Quad Spring	NA	NA	NA	NA	NA	YES	YES	NO	N/A	Quad Spring
Air-Shoc (Secondary)	NA	NA	NA	NA	NA	NO	NO	YES	N/A	Air-Shoc (Secondary)
Mine-Shoc (Secondary)	NA	NA	NA	NA	NA	NO	NO	YES	N/A	Mine-Shoc (Secondary)
OK on reversible belt?	YES	YES	NO	YES	YES	YES	NO	NO	YES	OK on reversible belt?
Belt clips compatible?	YES	YES	YES	YES	YES	YES	YES	YES	YES	Belt clips compatible?
Skalper IV	YES	YES	YES	YES	YES					Skalper IV
Skalper III	YES	YES	YES	YES	YES					Skalper III
Skalper II	YES	YES	YES	YES	YES					Skalper II
HT Skalper	YES	YES	YES	YES	YES					HT Skalper
UHT Skalper	YES	YES	YES	YES	YES					Skalper IV
NEW WAVE III						YES	N/A	N/A	N/A	New Wave 3C Tips
NEW WAVE III						YES	N/A	N/A	N/A	New Wave 3V-Tips
NEW WAVE III						N/A	YES	YES	N/A	F-Tips
NEW WAVE III						YES	N/A	N/A	N/A	C-Tips
NEW WAVE III						N/A	YES	YES	N/A	V-Tips
NEW WAVE III						N/A	YES	YES	N/A	MDX F-Tips
NEW WAVE III						N/A	N/A	YES	N/A	MDX C-Tips
NEW WAVE III						N/A	YES	YES	N/A	MDX V-Tips



CHUTE INSPECTION DOORS
 Safety inspection screen guard standard on every door for the ability to safely inspect equipment while it is running and for easy blade change-out when the conveyor is locked out.

- Re-designed Frame** - has a 45 degree flange to shed fines from accumulating on the interior of the door.
- Available in 3 standard sizes:** 12" x 12", 12" x 18" and 18" x 24".










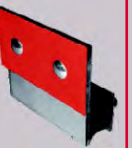
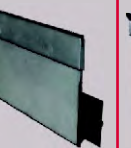

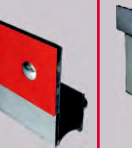

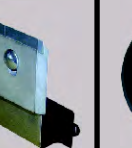


RAZOR-BACK with SPRAY BAR
 A secondary belt cleaner that uses a row of spray nozzles to spray a fine sharp stream of water onto the conveyor belt where carry-back material is difficult to remove.

- Lubricates** - the belt/cleaners interface, reducing maintenance
- Fully adjustable sprays** - for the tightest of spaces
- Stainless steel** - construction with replaceable tungsten carbide tips



PRIMARY BLADES

SECONDARY BLADES

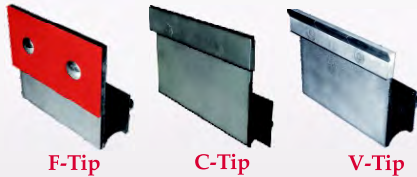
	SKALPER BLADE MATERIALS					NEW WAVE III				RAZOR-BACK			RAZOR-BACK MDX			CHEVRON	
																	
Blade Type	Skalper II	Skalper III	Skalper IV	Skalper HT	Skalper UHT	Urethane	3F-Tips	3C-Tips	3V-Tips	F-Tips	C-Tips	V-Tips	MDX F-Tips	MDX C-Tips	MDX V-Tips	Chevron Solid	Chevron Notched
Durometer	95	85	85	85	95	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	70	70
Urethane	YES	YES	YES	YES	YES	YES	NO	NO	NO	N/A	NO	N/A	N/A	NO	N/A	N/A	N/A
Carbide Tipped	N/A	N/A	N/A	N/A	N/A	N/A	NO	YES	YES	NO	YES	YES	NO	YES	YES	N/A	N/A
Hardox 400	N/A	N/A	N/A	N/A	N/A	NO	YES	NO	NO	YES	NO	NO	YES	NO	NO	N/A	N/A
Belt Speed	< 1200 fpm	< 1200 fpm	< 1200 fpm	< 1200 fpm	< 1200 fpm	< 800 fpm	< 800 fpm	< 800 fpm	< 800 fpm	< 800 fpm	< 800 fpm	< 800 fpm	< 1200 fpm	< 1200 fpm	< 1200 fpm	200-600 fpm	200-600 fpm
Temperature Range	-20 - 180°F	-20 - 180°F	-20 - 180°F	-20 - 225°F	-20 - 300°F	-20 - 180°F	-20 - 300°F	-20 - 300°F	-20 - 300°F	-20 - 400°F	-20 - 400°F	-20 - 400°F	-20 - 400°F	-20 - 400°F	-20 - 400°F	-20 - 250°F	-20 - 250°F
Use w/Mech.Fasteners	NO	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	NO	YES	YES	NO	YES	YES

SECONDARY BELT CLEANERS

RAZOR-BACK



Available in Three Blade Tips



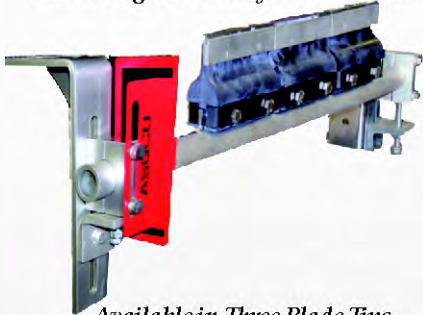
Superior Secondary Belt Cleaning System

The **Razor-Back** secondary belt cleaner features tough self-adjusting replaceable tungsten carbide blades (non-carbide also available) for extremely effective belt cleaning. Once you try the Razor-Back, it will be the only secondary belt cleaner you'll ever buy again.

- **Longwearing Abrasion Resistant** - tungsten carbide blades provides and maintains a great cleaning edge against the belt.
- **Impact Absorbing Tension Cushions** - tension each individual blade to the belt for a controlled and effective 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.
- **Mechanical Splices? No Problem.** - The Razor-Back can be installed on belts with mechanical splices, due to the laid-back wiping blade angle and impact-absorbing tensioning cushions, allowing the mechanical splices to pass without damaging the belt cleaner or the splice.
- **Also available with Duo-Spring Tensioner**
- **Also available with Spray Bar**

NEW WAVE 3

Reversing Secondary Belt Cleaner



Available in Three Blade Tips

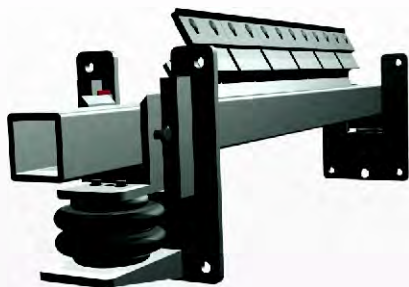


Effective Secondary Reversing Belt Cleaner

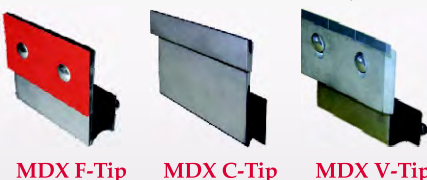
The **New Wave III** secondary belt cleaner is an effective flexible belt cleaner for reversing or high temperature conveyor belts. It is available with different blade styles and 3 different tensioners depending on the application.

- **Custom Blade Styles** - allow you to custom fit a solution to your application.
- **All Stainless Steel and Tungsten Carbide** - blades and assembly (NW-1) for high temperature conveyors.
- **Reversing Belts** - are not a problem for this effective and simple secondary cleaner.
- **Mechanical Splices? No Problem.** - The Razor-Back can be installed on belts with mechanical splices, due to the laid-back wiping blade angle and impact-absorbing tensioning cushions, allowing the mechanical splices to pass without damaging the belt cleaner or the splice.
- **Also available with Duo-Spring Tensioner**
- **Also available with Spray Bar**

RAZOR-BACK MDX



Available in Three Blade Tips



Superior Cleaning for the Toughest Mining Applications

The **Razor-Back MDX** is a secondary belt cleaner designed for high speed and high tonnage mining conveyor systems running in the most aggressive environments. The heavy-duty replaceable carbide tips blades effectively clean the conveyor belt with our dual action tensioning system to maintain effective pressure across the entire belt surface.

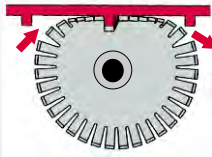
- **Complete Cleaning** - with our MDX V-tip carbide blades or optional F-Tip (non-carbide steel), are 3 times heavier than any other carbide blade system in the industry.
- **Dual Tensioning** - system is a combination of our Air-Shoc Tensioner to position the blades against the belt; then with our individual 6" impact absorbing rubber cushions to individually flex and maintain pressure across the entire width of the belt.
- **Universal Mounting** - allows for installation from the bottom of the head pulley to anywhere down the conveyor system.
- **Durable Construction** - consisting of 5/8" thick by 3 1/2" square tubing and combination of stainless and corrosion-resistant steel parts to endure the toughest and most extreme mining environments.

SECONDARY BELT CLEANER SYSTEMS

CHEVRON



Dual shafts of rotating abrasion resistant disks



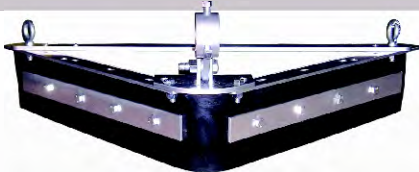
Unique rotary fingers are forced against the base of the chevrons to dislodge material from the belt.

A Chevron Cleaner that Really Works!

The **Chevron** secondary belt cleaner uses the speed and force of the belt rolling over our patented rubber disks. The unique rotary fingers are forced against the base of the chevrons to dislodge material from the belt.

- **Sweeping Action** - of each disk cleans in front of and behind each and every chevron.
- **Easy Maintenance** - no motors, air nozzles, or other problematic equipment to maintain.
- **Works Great** - in the pulp and paper, fertilizer, potash, and other bulk material industries where chevron style belts are heavily used.
- **Solid or Notched** - 8" (200mm) diameter abrasion resistant rubber disks are available depending on the height of the chevrons and the conveyor belt speed.

HINGED V-PLOW



Inside view



Unique patented hinge allows plow to adjust discharge angles

Discharge Fugitive Material to Both Sides of the Conveyor

Hinged V-Plow is a patented design to effectively keep material from becoming trapped between the tail pulley and the belt. The unique patented design of the "Hinge" part of the V-plow allows you to change the amount of angle the plow can have from 30, 45, or 60-degree angle.

- **Hinged V-Plow** - installs flat and then the wings are spread out to the optimum angle to remove material traveling on the return side of the belt.
- **Protects and Reduces** - the conveyor belt from puncture damage and its three-point suspension keeps the plow parallel to the belt.
- **Easy Maintenance** - simple and easy to install and maintain.
- **Mine-Duty** - plows are also available.
- **Safety Chains** - standard on all plows.

DIAGONAL PLOW



Reduces build-up on tail and take-up pulleys

Diagonal Plows are designed to discharge fugitive material from one side of the conveyor. Our diagonal plow is built of a rugged steel structure to hold up in the toughest environments.

- **Provides Effective** - cleaning of the return side of the belt, protecting your tail pulley and the conveyor belt.
- **Reversing Conveyors** - are not a problem for our diagonal plow.
- **Easy Maintenance** - simple and easy to install and maintain

VIBRA-CLEAN

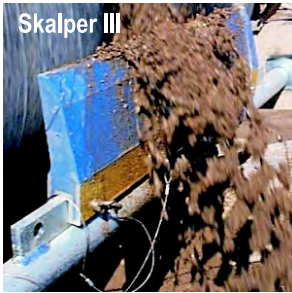


Belt Cleaner for Corrugated-Sidewall Conveyor Belts

The ASGCO **Vibra-Clean** secondary belt cleaner is designed to work on the return side or "clean" side of the conveyor belt. It is mainly used on flexible sidewall or chevron style conveyor belts. It consists of a set of rollers with bearings, rotating on a main shaft at approximately 600 RPM. Mounted behind the head pulley, these rollers make slight contact with the belt causing the material to loosen and fall away from the belt.

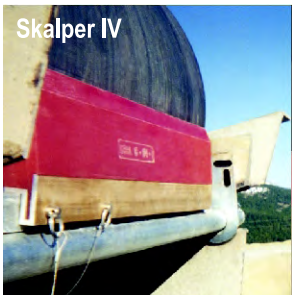
- **Dual Rollers** - designed for belts 18"-42", set with bearings causes a rotating vibration effect verses a "scrub" effect, which wears out the bottom cover of the conveyor belt, found on most other beater bar cleaners.
- **Four Roller** - Vibra-Clean belt cleaner is designed for belts 42" and above, providing effective load support and superior cleaning.
- **Universal Mounting** - and drive package, including motor and V-belt drive is available.
- **Dampening Roll** - assemblies are recommended for Vibra-Clean belt cleaners

BELT CLEANING SYSTEMS & APPLICATIONS

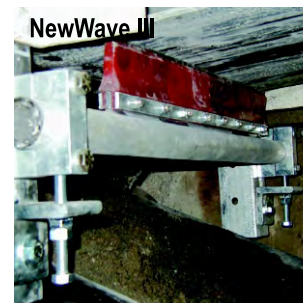


Bulk Material Characteristics and Belt Cleaning Considerations

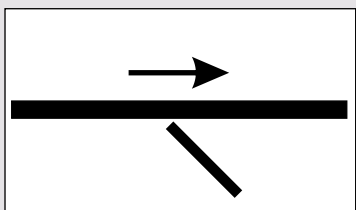
The material to be cleaned from the belt affects the selection of the belt cleaner system so it is important to be able to define and classify the bulk material. Changes in the source and quality of the bulk material can have a dramatic effect on the ability of a cleaning system to function. It is important to classify the properties and characteristics of the bulk material. The basic elements of the classification system are Size, Flowability, Abrasiveness, Moisture, and other Miscellaneous characteristics.



Because of the position on the head pulley, the material removed is most easily discharged into the main chute. Therefore this location is considered the Primary Location for belt cleaning. The second most practical location for belt cleaners is the space between where the belt leaves the head pulley and where it contacts the first snub pulley, bend pulley or return idler

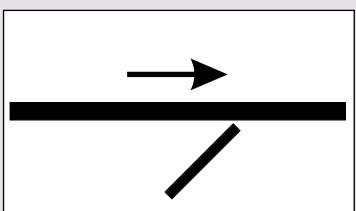


Use both a primary and a secondary belt cleaner for the best cleaning results.



Peeling - Primary
(pre-cleaner)

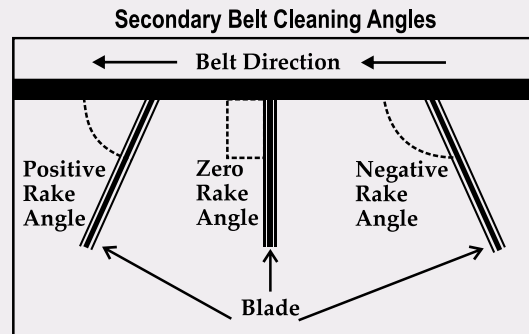
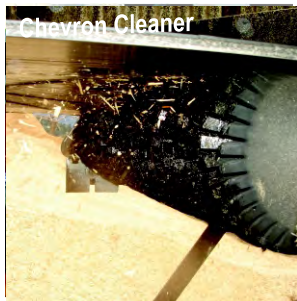
Primary Peeling type belt cleaners are installed at the 9 o'clock position on the head pulley referred to as the primary position. These are the most common type of belt cleaners.



Scraping - Secondary

Secondary Scraping type belt cleaners are installed after the tangent point where the belt leaves the head or discharge pulley. Normally referred to as the secondary position. They are positioned against a belt at an angle that conforms to the direction the belt travels. Commonly referred to as the "angle of attack" These type cleaners in essence act like a squeegee. They are used mainly when sticky fines cannot be removed by the primary cleaner.

BELT CLEANING SYSTEMS & APPLICATIONS

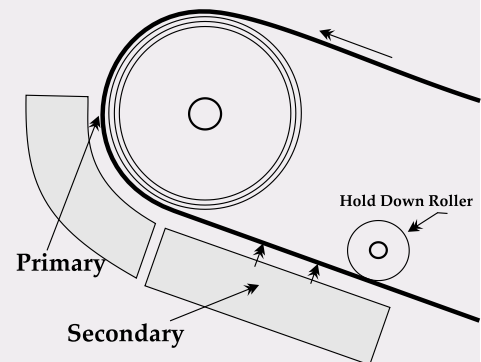


Belt cleaners and horsepower as a rule:

- A typical urethane primary belt cleaner will use approx. 0.2 HP per 100FPM belt speed.
- A typical secondary belt cleaner (which are tensioned more than a primary) will use approx. 0.5 HP per 100FPM belt speed.

Effectiveness of Belt Cleaners:

- Generally, a primary belt cleaner will remove 90-95% of the carryback.
- A secondary belt cleaner will remove up to 80-85% of the carryback the primary was unable to.



Selection of Proper Belt Cleaning Equipment:

- **Space** • **Material** • **Temperature** • **Moisture Content** • **Speeds**

Pneumatic air and water spray belt cleaning systems can be installed either in the primary or secondary position. These can also have their place and can be quite effective in the removal of carry-back, but at a price. They have substantial costs inherent in their design and operation. The pneumatic systems costs in terms of air usage and dust creation and the wet costs in terms of the addition of moisture to the product, however greatly aid in belt cleaning.

Importance of tensioning:

Tensioners have evolved through the years. From counterweights, air and rubber to finally metal springs and urethane. Many tensioners have crucial flaws and are unable to provide constant consistent pressure between the cleaning blade and the belt surface. This is why we prefer to use our stainless steel spring tensioners, or air-shoc, to ensure constant tension between the belt and the cleaning blade.

Brush type belt cleaners are typically installed in a secondary position. They are rotated with an electric motor in the opposite direction of belt travel. These type systems have their place but are rarely recommended for most materials due to their high maintenance and inefficiency. When they are new they can work quite well, but the brush is readily filled with material and the effectiveness is diminished greatly. Causing constant cleaning or replacement.

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