

# PULP/PAPER/BIOFUEL

ASGCO® PRODUCTS FOR THE PULP/PAPER/BIOFUEL INDUSTRIES



**Need Solutions...***to improve efficiency, safety and productivity?* **ask... ASGCO®**  
[www.asgco.com](http://www.asgco.com) | 610.821.0216 | 800.344.4000 | [info@asgco.com](mailto:info@asgco.com)



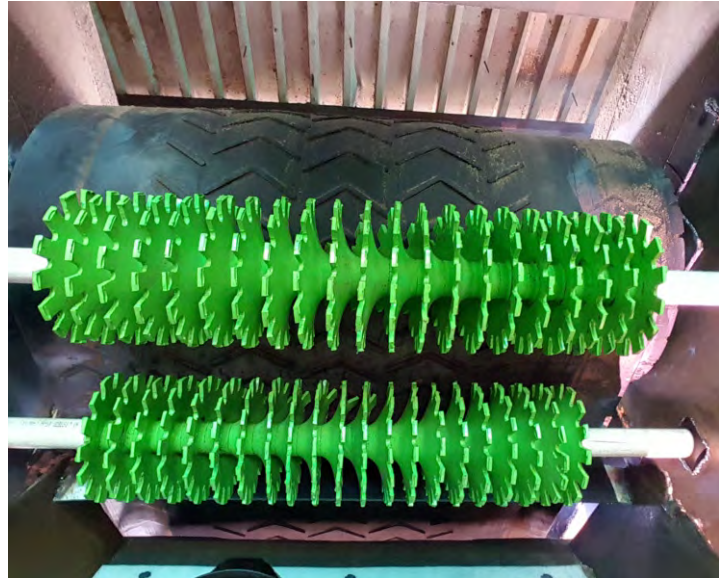


# BELT CLEANERS

BELT CLEANERS ARE DESIGNED FOR OPTIMUM CLEAN WITH THE LEAST AMOUNT OF PRESSURE.



Skalper® IV Primary Belt Cleaner with E-Z Torque® Tensioner System



Chevron™ Secondary Belt Cleaner

ASGCO®'s series of conveyor belt cleaners have been installed and have solved carry-back problems and material product build-up all over the world. They are simple and highly effective belt cleaning systems.

## Conveyor Belt Cleaners

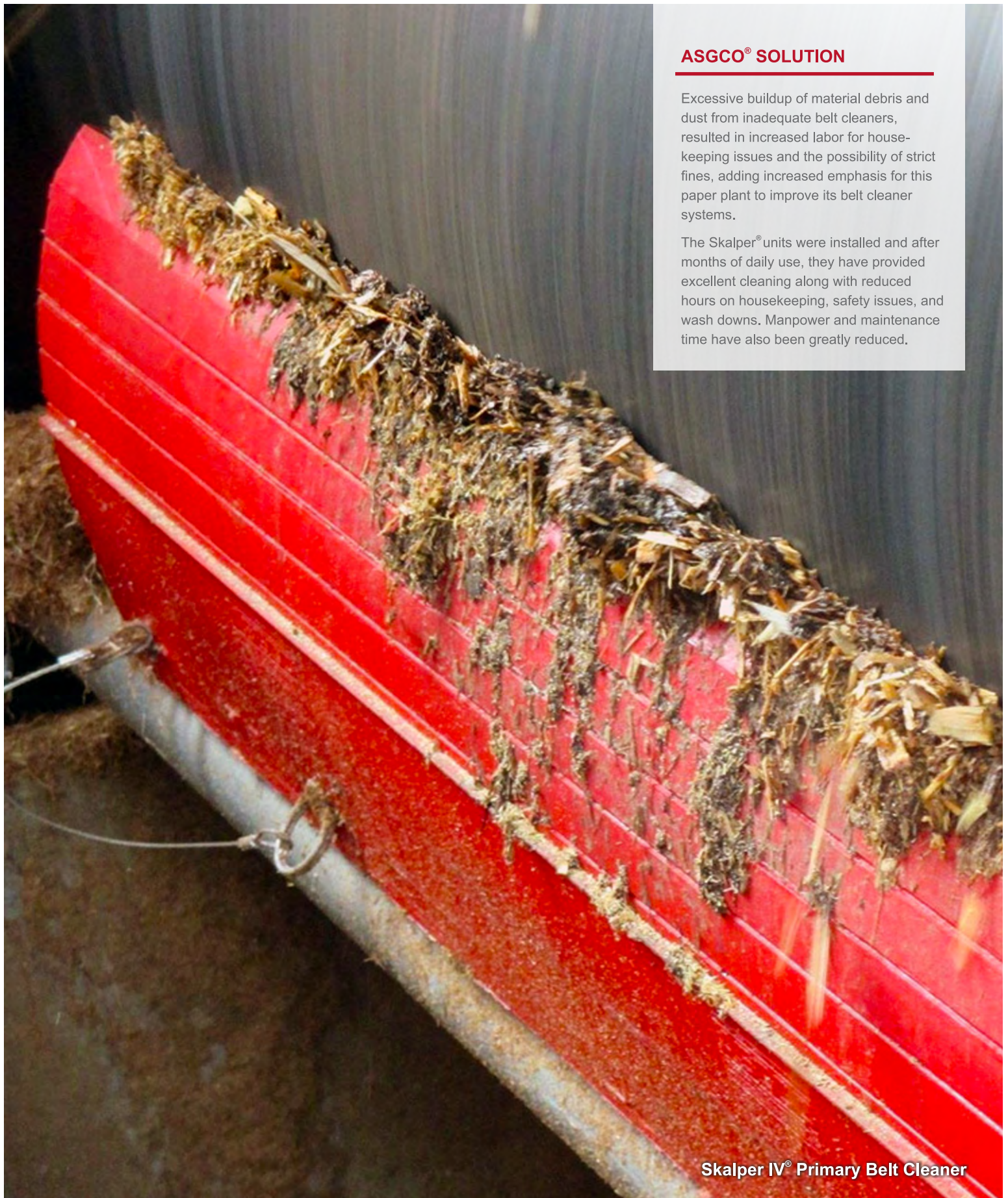
Primary conveyor belt cleaners or pre-cleaners are the foundation and first step in maintaining a highly productive conveyor system. Belt cleaners help remove material carry-back and prevent it from falling off at various points of the conveyor along the return side of the system. Carry-back causes a multitude of major problems including premature wear on conveyor belt idlers and pulleys, belt misalignment, and an unsafe working environment.

ASGCO®'s belt cleaners are specifically designed for long lasting removal of the toughest materials on the planet. The Skalper® and Skalper III® primary cleaners are fabricated from a single piece urethane blade for the maximum in durability. The patented E-Z Torque®

tensioning system with stainless steel torsion tensioning spring, ensures uniform belt contact throughout the life of the blade. An exterior visual indicator will alert technicians when replacement is needed, without the need to shut down operations for inspection inside the head chute. Replacing blades is a fast and easy process that can be performed in just minutes.

Razor-Back® Secondary Cleaners can be added for additional removal of the most stubborn materials. Self-tensioning blades maintain constant belt contact and can be used on belts with or without mechanical fasteners. For the ultimate in belt cleaning performance, the ASGCO® Wash Box is the perfect addition to remove the finest particulate from the belt surface and loosen any hardened material.





## ASGCO® SOLUTION

Excessive buildup of material debris and dust from inadequate belt cleaners, resulted in increased labor for house-keeping issues and the possibility of strict fines, adding increased emphasis for this paper plant to improve its belt cleaner systems.

The Skalper® units were installed and after months of daily use, they have provided excellent cleaning along with reduced hours on housekeeping, safety issues, and wash downs. Manpower and maintenance time have also been greatly reduced.

Skalper IV® Primary Belt Cleaner



# BELT TRACKING IDLERS

A PATENTED DESIGN OFFERING THE MOST RELIABLE AND REACTIVE BELT TRACKING IDLER AVAILABLE



Tru-Trainer® Flat Return Idler



Tru-Trainer® Tapered Troughing Idler

ASGCO's line of Tru-Trainer® conveyor belt trackers don't rely on contact with the belt edge in order to guide it. This means that conveyor belt edge damage is avoided.

## Tru-Trainer® Conveyor Belt Tracking Idlers

There are many options available to improve belt tracking, but nothing is more effective than ASGCO's Tru-Trainer® line of tracking idlers. The Tru-Trainer® conveyor belt tracker employs a unique and highly effective tracking action, which is non-damaging to the belt and reacts immediately if the conveyor belt begins to drift off center.

Tru-Trainer® conveyor belt trackers have no edge rollers, thus eliminating a major source of belt edge damage, which is common in conventional tracking idlers. The patented design uses a proprietary center pivot, consisting of a stainless steel pin within a solid steel center shaft. Its sealed design makes it a perfect choice for highly abrasive environments in both wet or dry conditions.

ASGCO'S® Tru-Trainer® series of training idlers offer the most reliable and re-active tracking available today. Any movement from center immediately and constantly actuates the pivot to steer the belt back on line. Due to the streamlined design, the Tru-Trainer® is perfect for reversing belts and is easily installed on the return side of the system.

There are Tru-Trainer® models for any application or installation. Flat Return, Dual Return, Dual V-Return, Tapered Troughing Idler, Urethane covered and more. Regardless of the material or system design, there is a Tru-Trainer® model that will immediately improve belt performance and productivity with virtually no maintenance.





## ASGCO® SOLUTION

This facility was using conventional guide roller trackers that kept failing. Due to the design of the guide rollers they continually came in contact with the belt's edge which made them slow to react and caused premature "side wear" on the belt.

After the installation of the ASGCO® Tru-Trainer®s with unique center pivot, the customer has not had a single belt misalignment problem. And since it does not rely on contact with the belt edge to guide the belt, belt edge damage was avoided.

Tru-Trainer® Flat Return Idler



# CONVEYOR SAFETY

ASGCO® SAFE-GUARD® LINE OF CONVEYOR SAFETY PRODUCTS ENSURE SAFETY IN THE WORK PLACE.



Safe-Guard® Return Idler Cage



Safe-Guard® Modular Conveyor Flat Guard Panels

Our goal, to solve conveyor problems, always aware of OSHA/MSHA regulations in order to create a safer and well maintained work environment.

## Conveyor Safety Products

Pulp and paper manufacturing can be very hazardous due to massive weights and falling, rolling, and/or sliding pulpwood loads. Workers may be struck or injured from the misuse of equipment, particularly when machines are used improperly or without proper safeguards.

The safety of workers is the most critical objective of any facility, and a delivering products to improve safety and reduce injury is a major focus at ASGCO®. Conveyor belts provide rapid, continuous flow of bulk material and products, but require regular maintenance to ensure maximum efficiency. Did you know that 84% of conveyor belt accidents occur during cleanup operations, due to lack of attention?

ASGCO® has developed the Safe-Guard® line of conveyor safety products to provide barriers to moving conveyor equipment and protect workers from injury. ASGCO® also

has products that prevent injuries from pinch points and cages that will catch a return idler if it should fall. These products are in compliance with MSHA Title 30, for flying or falling material, equipment guard construction and moving machine parts.

ASGCO® inspection doors are also a key addition to any conveyor system and allow operators to access primary or secondary cleaners located within head chutes, or even inspect material flow without the need to shut down the system.

Every item in ASGCO®'s Safe-Guard® line is designed for easy installation, maximum longevity and made from powder coated steel, UHMW, and stainless steel components to ensure corrosion resistance and allow for easy clean-outs. With safety and performance benefits, it's easy to see why ASGCO® Safe-Guard® products have become essential additions to so many conveyor systems worldwide.



## ASGCO® SOLUTION

The objective was to protect workers from all areas of conveyor systems that create a safety hazard, yet allow for easy removal of conveyor guarding, and replacement, when maintenance on the conveyor system is required.

By using various standard sizes of the ASGCO® Safe-Guard® Modular Conveyor Flat Guards, we were able to protect the hazardous areas and still allow them access as needed by easily removing and replacing the lightweight powder coated panels.



Point Cloud Laser Scanning for accurate measurements of the conveyor facade and complex structure.

Safe-Guard® Modular Flat Guard Panels



# IMPACT BEDS/CONVEYOR SLIDER BEDS

PATENTED DESIGN TO ELIMINATE SPILLAGE IN THE LOAD ZONE



Slide-N-Roll™ Conveyor Slider Bed with Clamp-Mount® MDX



Slide-N-Roll™ Conveyor Slider Bed with Double Handle Clamp-Mount®

ASGCO®'s patented Impact Cradle Beds are designed to provide protection to your conveyor belt from impact damage that can put a stop to operations.

## Conveyor Impact Beds®

ASGCO®'s Impact Cradle Bed's™ are a patented design to provide protection to your conveyor belt from impact damage from anything that can put a stop to operations. Our modular style beds provide impact protection for the conveyor belt, as well as a tool to help control spillage in the conveyor-loading zone. The Impact Cradle Beds™ support the conveyor belt across the entire width using our unique semi-U-shaped design that eliminates any unsupported areas between the rollers or bars where typical damage can occur in the idler junction points.

The Impact Cradle Beds™ are available in a variety of configurations for specific environments and applications. All models consist of a heavy-duty frame with removable (Slide-in or Slide-out) sides and center sections for ease of installation and maintenance.

Specialty applications can benefit from Slide-N-Roll™ Beds for an effective load support while helping to eliminate

dust and spillage in the conveyor load zone. Replacing the side troughing idlers with low friction UHMW bars reduces belt friction and eliminates the gap between idlers to provide an effective sealing surface for the skirting at any troughing angle. The 3 Roll Slide-N-Roll™ Beds are the ultimate in load zone spillage control for wide, high speed and high tonnage conveyor belts. Our patented design encompasses a three-roller idler with low-friction UHMW bars, creating a dust free high-speed material transfer point.

An additional measure of control can be added via ASGCO®'s Conveyor Chute Tail Box, which is designed to form an effective seal at the back of the loading zone to prevent material rollback to the tail section of the conveyor. With dust control being a primary concern in the paper industry, these ASGCO® dust control products are proving essential to properly designed conveyor systems and can be easily added to existing systems for immediate benefit.



A photograph of an industrial conveyor system. The main structure is painted light blue. A red metal door is open on the left side, revealing internal components. Below the door, a series of red metal brackets are mounted along a horizontal track. A white, flexible material, likely the Dura-Seal skirting rubber, is being installed or adjusted between these brackets. The background shows a metal mesh fence and other industrial structures.

## ASGCO® SOLUTION

Increased material flow naturally produces more dust and fugitive material due to escaping debris. The dust quickly accumulates creating a dangerous environment that can lead to costly repairs, downtime, injuries and fines. At this facility ill-fitting rubber skirts were causing dust and material leakage.

ASGCO® installed Slide-n-Roll® Slider Beds to support the belt, and Clamp-Mount® Skirtboard Sealing Systems with Dura-Seal® (ORG) skirting rubber to seal the dust from escaping from the skirting area. As a result dust and debris have been adequately contained allowing for a much higher level of productivity.

Slide-N-Roll™ Conveyor Slider Bed



# SKIRTING/DUST CONTROL/FLO-CONTROL CHUTES

ELIMINATE SPILLAGE, DUST AND FINES AT THE TRANSFER POINT



Clamp-Mount® with Support Plate and Dura-Seal™ (ORG) Skirtboard Sealing



Standard Double Clamp-Mount® with Dura-Seal™ (ORG) Skirtboard Sealing

ASGCO®'s Clamp-Mount® Skirt Sealing systems and dust control products eliminate spillage and dust at transfer points and provide a highly reliable seal in the load zone. ASGCO®'s 3-DEM™ transfer point design, fabrication and installation techniques optimize life on the conveyor belt by minimizing impact.

## Dust Control Sealing Systems / Transfer Point Design and Flo-Control Chutes

Dust control is a serious problem across the pulp, paper and biofuel industries. Paper dust poses fire and explosion hazards, building maintenance issues and equipment problems. Due to the fibrous nature of the particulate, conventional filters and dust collectors will clog up quickly. This dust can become a major hazard to the safety of workers as well as the performance of the conveyor system.

ASGCO® has many solutions for both controlling dust and eliminating spillage in the load zone. ASGCO®'s Skirt Sealing systems provide a highly reliable, positive seal in the load zone. These skirts can be installed quickly without tools, using high performance clamp-mounts. Available in a variety of materials specific to the application, this skirting material is the toughest and most cut resistant available anywhere.

ASGCO® Flo-Control™ transfer point design, fabrication and installation utilizes our proprietary 3-DEM® (Discrete Element Methods) chute analysis program and provides

a revolutionary way to handle granular and particular material handling problems while increasing production capabilities. Virtual modeling technology can determine optimal chute design to maximize material flow and reduce impact in the load zone.

Improved chute design will immediately increase your production capabilities by helping to eliminate spillage, chute plugging, belt wear, dust control and noise. These advanced designs minimize material spillage by center-loading the material at a uniform rate and optimizing the material flow in the direction of travel after the belt is fully troughed. This will also reduce the need for dust control and suppression by keeping the column of material together. Since air does not become entrapped in the material flow, there is less dust forced out of the material during belt loading.

These techniques are easily applied to both existing and new installations, resulting in significant cost improvements and system efficiency.



A photograph showing a conveyor system with a green metal frame. A red metal structure, the ASGCO Impact Bed Cradle, is installed over the conveyor belt. The structure consists of a horizontal beam with several red, curved impact rollers mounted on it. Below the beam, there are large, red, triangular-shaped supports. The conveyor belt is visible in the background, and the overall scene is set in an industrial environment.

## ASGCO® SOLUTION

The belt was spilling badly and the impact rollers could not keep up with the seven load zones where the material was being dumped. A 28' span needed to be supported and sealed in a way that did not increase amperage or draw on the existing belt drive.

After removing the existing frozen impact rollers, the ASGCO® Impact Bed Cradle system was installed to protect the conveyor belt and to help control the spillage, thus eliminating the need for future impact rollers. The amperage of the belt went down saving the plant money, downtime was decreased, and with the existing skirt boards and skirt rubber the spillage was stopped.

Slide-N-Roll™ Conveyor Slider Bed



