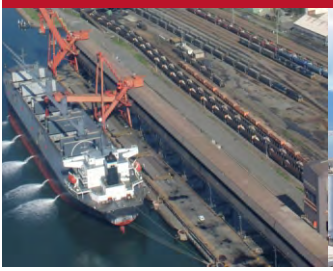
Bulk Material Handling

ASGCO®
Complete Conveyor Solutions

Conveyor Products, Systems and Services



Need Solutions... *to improve efficiency, safety and productivity?* ***ask...*** **ASGCO®**

ASGCO®
Complete Conveyor Solutions

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

ASGCO® Complete Conveyor Solutions

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 and his son Todd Gibbs, ASGCO® believes 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.

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.

Industries Served:

- Coal
- Iron Ore
- Power
- Copper & Gold
- Steel
- Bulk Shipping
- Cement & Aggregate
- Pulp & Paper
- Minerals
- Recycling

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Conveyor Belting

Plied
Straightwarp

High Performance Belting for Bulk Material Handling Applications

ContiTech is the World's Largest Manufacturer of Fabric and Steel Cable Conveyor Belting

ASGCO® stocks thousands of feet of belting, offering the most complete conveyor product range in the market for quarries, cement, aggregate, bulk shipping terminals, recycling, coal and coal fired power plants.

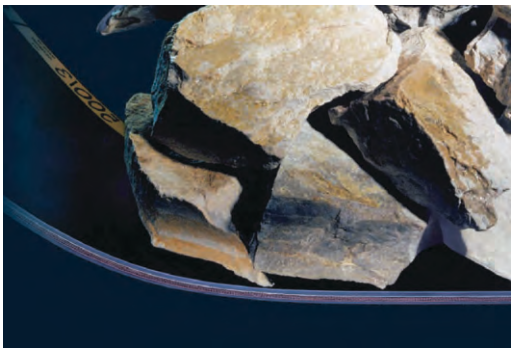
20% Greater in Abrasion Resistance Than Other Manufacturers

ContiTech is a technology leader and the world's largest bulk material handling conveyor belt manufacturer. They carry a broad selection of both steel cord and textile reinforced conveyor belts, service/repair materials and special engineered products – for mining, machine and equipment construction and many other branches of industry.

ContiTech's performance based conveyor belt technology represents safe, reliable, cost efficient and eco friendly operation above and below ground.

ContiTech manufacturers conveyor belt in 17 countries across the globe, including the United States (Kansas) with a New State-of-the-Art 96" wide Conveyor Belt Press.

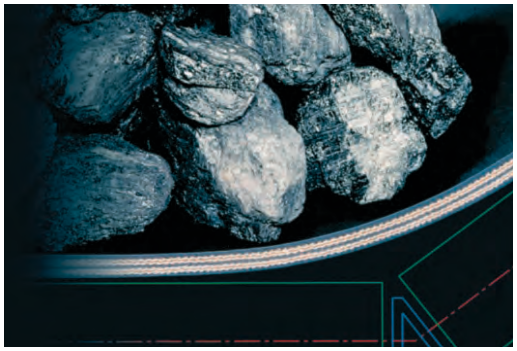
CONTIFLEX® Plied Belting



CONTIFLEX® textile reinforced conveyor belts are highly engineered for a variety of bulk material handling applications in the mining, aggregate, and industrial markets. In addition to a range for normal bulk goods, various special types are available for conveying hot goods, for the transport of goods containing oil and grease, for steep-incline conveying and with special reinforcing materials for particular applications.

- Extra strong for the most grueling demands
- Low-stretch tension member
- Excellent on small pulley diameters
- Superb true-tracking properties

CONTIFLEX® Plied Belting



CONTI TITAN® straight-warp fabric is designed with heavy duty, high-strength, straight yarns in the longitudinal direction, which are bound to heavy duty weft yarns with a specially engineered binder yarn. This unique construction eliminates most all of the crimp found in conventional conveyor belting fabrics.

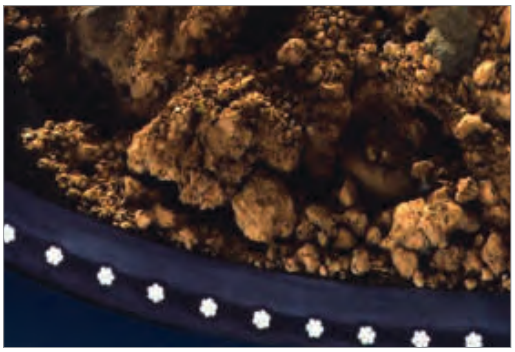
- High-strength with exceptional stability
- Rip and tear resistance that is 2-3 times that of conventional conveyor belting
- Outstanding puncture and high impact resistance
- Excellent flexibility and load support

VULKAN Heat Resistant Belting

The heat resistant ContiTech **Vulkan Prime** replaces the well-known Vulkan T200. The modified polymer-compostion and optimized crosslinking system in Vulkan OPTIMUM improves the resistance of conveyor belts while keeping adhesive values constant.

- Improved thermal resistance to temperatures 200 – 600°C *
- Good resistance to acids and lyes
- Adhesive values remain constant even under extreme thermal loads.

STAHLCORD® Steel Cord Belting



STAHLCORD® is wear-resistant, rot and corrosion-resistant, resistant to chemicals and thermally stable, our steel cord conveyor belts provide long years of service while requiring little maintenance.

- Few splices & transition areas
- High breaking load at maximum conveying capacity
- Wear, rot, corrosion and chemical resistant
- Fire retardant and anti-static
- Additional steel cord for extreme loads
- Little maintenance required

CHEVRON Steep-Angle Belting

CHEVRON belts are equipped with covers of a tried-and-tested, wear-resistant quality. With 10-50 mm high profiles, they are the perfect belt for numerous applications.

- Wear-resistant cover with profiles vulcanized
- Flexible profile compounds for up to 50 mm
- Can be used efficiently with small pulley diameters
- Reduction of dirt caking
- Special types are available for conveying hot goods, for goods containing oil and grease and for steep-incline conveying applications.

MOR Oil Resistant Compounds

Moderate Oil Resistance (MOR) is engineered to resist cover swell due to oil exposure. MOR is ideally suited to handling waste products, sludge, sewage, wood products and other moderately oily materials.

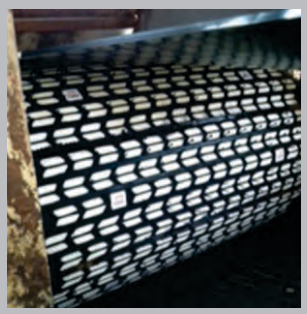
Applications:

- Aggregates & Cement
- Cement
- Power Generation
- Steel
- Fertilizer
- Aboveground Coal

Steel Cord
Hot Belt
Chevron
MOR

Conveyor Pulleys

Drum Pulleys
Wing Pulleys
Heavy Duty Covered Pulleys



Martin SPROCKET & GEAR, INC. Drum and Wing Pulleys

Martin's product line meets the demanding requirements of industries such as: sand and gravel pits, quarries, coal mines, unit packaging, food processing, and recycling. These pulleys are manufactured to the same quality standards you have come to expect from Martin.

Martin manufactures heavy duty conveyor pulleys, including drum pulleys, wing pulleys, turbine pulleys, engineered pulleys, and special construction pulleys.

Drum Pulleys

Martin Drum pulleys are manufactured from thick wall pipe or tubing, with a crowned face or flat face. Martin has standard duty, quarry duty, mine duty and machined drum pulleys.

- **Machined Drum Pulleys**
- **Standard Duty Drum Pulleys**
- **Mine Duty Drum Pulleys**
- **Quarry Duty Drum Pulleys**

Wing Pulleys

Martin Wing Pulleys are constructed from extremely heavy materials and are recognized in the industry as the most aggressive CEMA grade stock pulley on the shelf.

- **Standard Duty Wing Pulleys**
- **Mine Duty Wing Pulleys**
- **Quarry Duty Wing Pulleys**
- **Quarry Duty "AR" Wing Pulleys**
- **Special Construction Pulleys**

CFW Wing Pulley

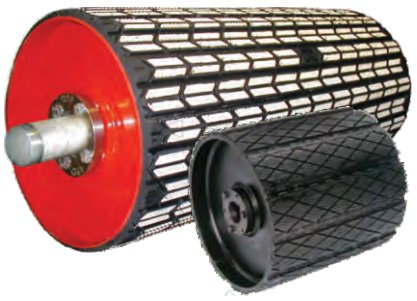
Martin's Clean Flight Wing Pulley is a much stronger design, constructed with distinctly aggressive materials and thick flight.

- **Enhance belt tracking**
- **Decreased vibration**
- **Reduced noise**
- **Improved material rejection**
- **No contact bar**
- **Maximum cleaning efficiency**

Heavy Duty Conveying Pulleys

Martin's Lagging is designed to meet the demands of your application. We offer Ceramic Lagging custom fit to your application, vulcanized rubber, cold bond lagging and strip lagging.Other lagging compounds such as Urethane, EPDM White Food Grade FDA approved rubber, SOF (static conductive/oil resistant/flame resistant) and many other lagging products are also available.

- **Vulcanized Rubber Lagging**
- **Ceramic Lagging**
- **VC-Lagg (Vulcanized Ceramic Lagging)**



Martin SPROCKET & GEAR, INC. Screw and Bucket Elevators

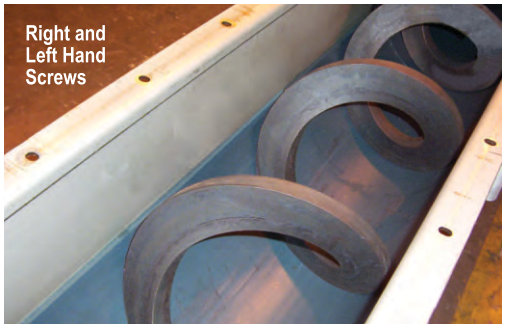
Martin offers a complete line of material handling solutions available to the marketplace. Our conveyor products are designed to efficiently handle most varieties of dry, free-flowing bulk materials. Martin offers a variety of configurations to efficiently handle most any material handling need.

- Screw Conveyors
- Shaftless Screw Conveyors
- Bucket Elevators
- Vertical Screw Elevators
- Drag Conveyors
- Modular Plastic Conveyor Screws
- General Material Handling

Screw Conveyors

Single and Double Screw conveyors are commonly used to transfer bulk material solids. However, a screw may also be used to heat or cool a product as it is being conveyed.

Martin can help size and select the conveyor that meets your needs.



A conveyor screw is either right hand or left hand depending on the form of the helix. The hand of the screw is easily determined by looking at the end of the screw

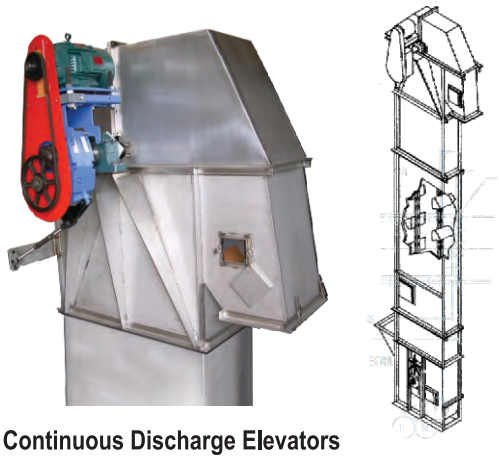
Bucket Elevators

Martin manufactures and stocks Bucket Elevators in a variety of styles and configurations. Bucket elevators are used in many industries with material including, soaps, ceramics, carbon black, fiberglass, metal powder, fertilizer, grain, sugar, flour, salt and much more.

Centrifugal Discharge Elevators
Offered in chain or belt type design and will handle a variety of free-flowing dry materials with small to medium lump size.

Super Capacity - Continuous Discharge Elevators
Offered in chain type design with buckets mounted between two chain rows and will handle higher capacities of free flowing, extremely abrasive materials.

High - Speed Grain Centrifugal Elevators
Offered as a belt design of either double or single leg construction. Designed to economically handle free flowing grain type products.



Continuous Discharge Elevators
Offered in chain or belt type design and will handle a variety of free-flowing dry and sluggish, extremely abrasive materials with medium to large lump size.

Mill Duty - Centrifugal Discharge Elevators
This heavy duty construction style for severe environments is offered in chain or belt type design including double row bucket design made to handle a variety of free-flowing dry materials with small to medium lump size.

Screw Conveyors
Bucket Elevator Conveyors

Conveyor Idlers

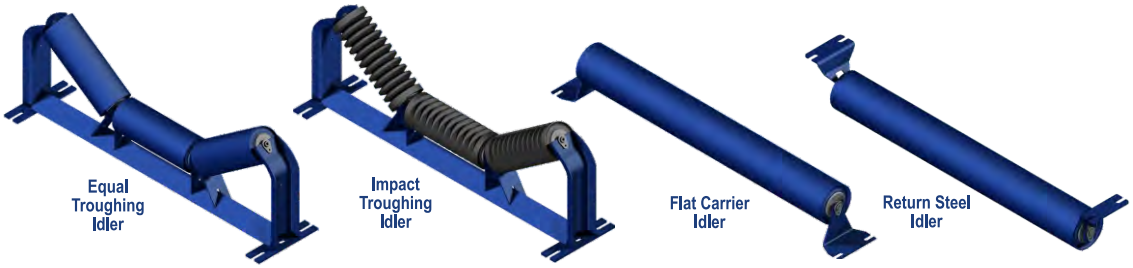
Ball Bearing Idlers
Link-Belt CEMA Series
Tapered Roller Bearing Idlers
Specialty Idlers

Martin IDLERS

Robust Idler frame construction and sealed-for life Idlers make a difference in the toughest Belt Conveyor applications.

Tough Construction for Tough Applications

Martin manufactures heavy duty Idlers and components that exceed CEMA standards. Heavy duty construction and triple labyrinth seals allow for trouble-free part life in the harshest of applications. With Idlers available when and where you need them, Martin can provide the complete solution for your belt conveyor needs.



Syntron Material Handling

For over 100 years, Link-Belt has designed and manufactured belt conveyor parts including conveyor idlers (rollers) and components that set the standard of excellence for bulk material handling throughout the world. Quality products, prompt shipment and after-sales service are Syntron® Material Handling trademarks. We offer a full line of conveyor idlers (rollers) products, ranging from 14" to 120" in belt widths, that meet or exceed CEMA B, C, D, E and F specifications.

By combining the strengths, capabilities and expertise we are able to offer the broadest selection of material handling solutions available anywhere. Our brands, Syntron®, and Link-Belt®, are recognized around the world for their history of exceptional performance and value in material handling and vibratory feeding equipment.

All Syntron® idlers conform with OSHA operational safety standards.

Link-Belt® C2000 Idlers

Choose from a wide range of Link-Belt® Conveyor Idlers (and parts) for above-ground and underground applications.

SUPERIOR®

SpinGuard® Seal Technology
- Contact seal prevents foreign material from entering seal cavity
- Grease-filled triple labyrinth seal shuts out contaminants
- Stationary external seal prevents material pinch points

Quick Reaction
- One to two day turnarounds on custom designs

High Quality Construction
- Thick or thicker steel construction compared to other brands
- Two year complete components warranty
- Largest, broadest range of all CEMA categories on the market

Economical Retrofit Rolls
- Slotted shafts fit most competitor frames
- Hex nut adapter available for hex nut style brackets

No Maintenance Base Frame
- Angled base sheds material
- Flared, non-clogging center stands
- No material pinch points between roll and frame

Specialty Conveyor Belt Tracking Idlers

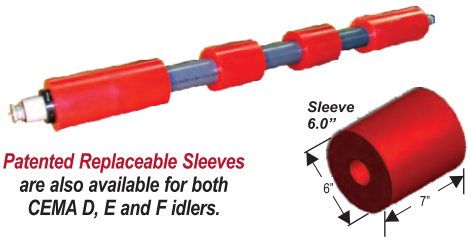
Tru-Trainer® Conveyor Belt Tracking Idlers

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.

Our 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, which occurs frequently with other tracking systems, is avoided. The center pivot is unique and simple, consisting of a stainless steel pin within a solid steel center shaft.

Tru-Trainer® Flat Return Idler - reacts as the belt tracker moves off center it will contact the tapered section of the roller on that side of the conveyor belt.

Tru-Trainer® Tapered Troughing Idler - The patented ASGCO® Tru-Trainer® Tapered Trougher offers the ultimate in tracking performance on the load-carrying side and is the result of over 10 years of design and innovation.



Patented Replaceable Sleeves are also available for both CEMA D, E and F idlers.

Dura-Sleeve™ - Return idlers are a patented abrasion resistant urethane sleeve that is easily clamped on any existing or new rubber or urethane disc return idler shaft.

Features and Benefits:

- Continuous Alignment reduces edge damage
- Heavy-Duty Patented Design
- Reactionary in both wet and dry conditions
- Total Satisfaction Guarantee (TSG)
- Polyurethane lagged rollers are also available.
- Excellent for Reversing Belt Applications.

Patented design does not rely on the conveyor belt to activate an arm-type tracking mechanism. By utilizing an internal pivot versus external pivot it does NOT build up with carry back.

Tru-Trainer® Dual Return Urethane or Rubber and Dual V-Return Urethane or Rubber Idlers - developed to accommodate excessive forces encountered with wide conveyor belts and heavy loads. Fast and effective.

Rollers slide out for easy removal.

Slide-lers™ - Give you the ability to change rolls under the conveyor loading skirt area without having to remove adjacent belt idlers.

Tru-Trainers®
Conveyor Belt
Tracking Idlers
Slide-lers™
Dura-Sleeve™

Gear Boxes, Bearings and Power Transmission Products

Mounted Bearings
Gearing
PT Components
System-1

BALDOR • DODGE®

Baldor•Dodge® power transmission products offer reliable service and low maintenance to help reduce your total cost of ownership. Our innovative bearings, gearing and power transmission products have solved the toughest applications for over 130 years Our technical sales team can help you with the most challenging applications, and our worldwidedistributor network ensures immediate delivery.

Mounted Bearings

- Mounted Ball Bearings
- Mounted Tapered Roller Bearings
- Mounted Spherical Roller Bearings
- Mounted Plain Bearings
- Hydrodynamic Bearings
- Take-Up Frames

Gearing

- TORQUE-ARM® Shaft Mount Reducers
- TORQUE-ARM II™ Shaft Mount Reducers
- TORQUE-ARM II Motorized Shft Mnt Reducers
- TIGEAR-2® Speed Reducers
- QUANTIS® Reducers & Gearmotors
- MAXUM® XTR Concentric Speed Reducers
- CST® (Controlled Start Transmissions)
- MAGNAGEAR XTR™

PT Components

- Couplings
- Conveyor Components
- Conveyor Pulleys
- Weld-On Hubs
- Bushings
- Sprockets
- Synchronous Belt Drives
- Sheaves
- V-Belt Drives
- Motor Brakes
- Clutch/Brake Modules

System-1

- Integrated solution for multiple-product power transmission projects
- Complete package of optimized, performance-matched Baldor•Reliance and Baldor•Dodge products
- Single point of contact for project management
- Total-package shipping under one part number
- Pre-Engineered Drive Packages

MOUNTING BEARING

PT COMPONENTS

GEARING

SYSTEM-1

TIMKEN

When your equipment faces harsh environments, you need roller bearing housed units rugged enough to outlast tough conditions and deliver exceptional performance.

Timken® Spherical Roller Bearing Solid-Block Housed Units multiply protection with primary and secondary seal options, as well as steel covers in size to fit all Timken® solid-block house units. The space between the primary and secondary seal offers a fallible grease cavity for more protection.

Increase performance and durability / Decrease overall cost of ownership

TWO-BOLT PILLOW BLOCK

FOUR-BOLT PILLOW BLOCK

FLANGE BLOCK

PILOTED-FLANGE CARTRIDGE

TAKE-UP BLOCK

CARTRIDGE BLOCK

Electric Motors, Controls and Gear Reducers

WorldWide provides customers with the best products, competitive prices and superior customer service.

HYUNDAI HEAVY INDUSTRIES CO.,LTD.

Rigid Base Motors

- 1-250 HP - 3600, 1800 and 1200 RPM
- Single voltage, 460 volt
- TEFC enclosure, Rigid base
- Dual rated service factor 1.15 for 40°C / 1.0 for 65°C
- Class F insulation with Class N varnish
- Full compliance with IEEE-841, version 2009
- Meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- Parker Hannifan ProTech IP66 labyrinth seals on both drive-end and opposite drive-end bearings
- CSA Certified for Class I, Division 2, Groups A, B, C, D
- Inverter duty, 10:1 CT / 1000:1 VT
- Class B temperature rise

Rock Crusher Motors

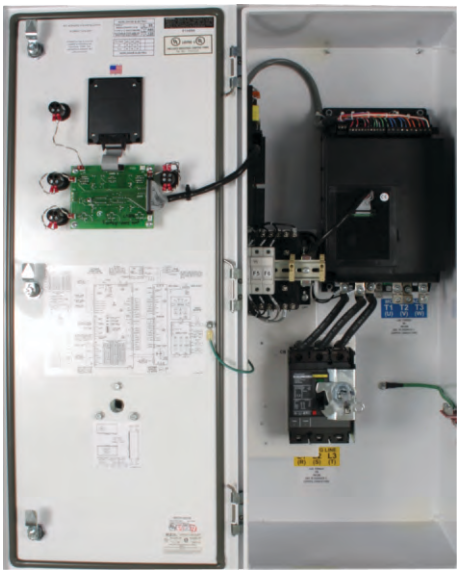
Advanced Design Rock Crusher Motors:

- 100 HP - 600 HP; 1800 and 1200 RPM
- 208-230/460 volt (100-200 HP) 460 volt (250-600 HP)
- TEFC enclosure
- 1.15 SF
- Class F insulation
- Rigid base
- Premium efficiency (100-200 HP)
- EISA-Compliant - high efficiency (250-600 HP)
- Inverter ready, 4:1 CT / 10:1 VT (100-200 HP
- Suitable for 50 hz operation with 1.0 SF (100-150 HP)

Advanced Design Soft Starts

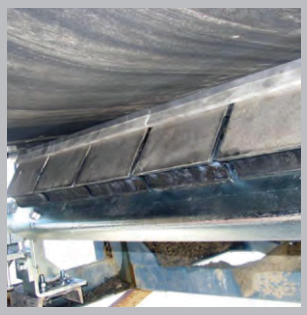
Advanced Design Heavy Duty Soft Starts:

- Three wire in, three wire out installation
- Service Entrance Rated
- Integral bypass contactors are standard on all sizes
- Over current capacity : 500% for 60 seconds
- Real-time thermal modeling and dynamic thermal register continuously calculates motor operating temperature even when your motor is not running
- Phase loss protection based on current and voltage
- Separate across the line overload protection
- Load loss trip (under current) with trip delay
- Pre-start checks for shorted load prior to each start
- Two programmable overload trip curves allow for the thermal capacity required to start the load while providing more closely matched overload protection during the run time
- PTC thermistor input for use on motors with embedded PTC temperature sensors
- Current imbalance trip and biasing of the thermal register



Low Voltage Motors
Hyundai Motors
Rock Crusher Motors
Motor Controls
Gear Reducers

Primary Belt Cleaners
Secondary Belt Cleaners



Primary and Secondary Conveyor 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 without failure or any unscheduled downtime.

Our Primary Belt Cleaners are now bigger, stronger and more durable.

Carry-back can lead to:

- Excessive buildup and wear on conveyor belt idlers and pulleys.
- Conveyor belt misalignment due to the artificial crown created by the carry back.
- Negative and unsafe work environment.

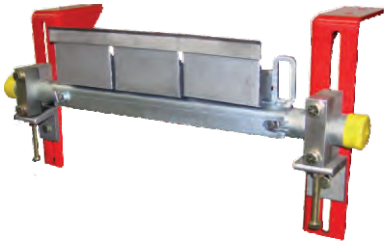
Primary Belt Cleaners

Skalper® with E-Z Torque® - Simple and highly effective belt cleaning system for every application.

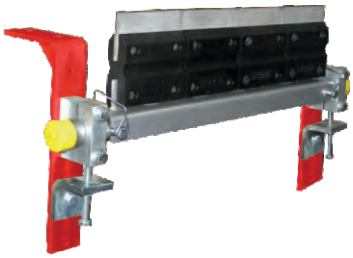
Skalper® III with Force-1™ - Economical pre-cleaner features the Skalper® blade design and an effectively simple and accurate Force-1 tensioner. aggregate industries.

Super-Skalper® - The massive blade tackles the toughest bulk material handling applications.

Secondary Belt Cleaners



Razor-Back™ - Tough self-adjusting replaceable tungsten carbide blades (non-carbide also available) for extremely effective belt cleaning.



TORO™ - Effective, flexible solution that is also suitable for reversing conveyor belts.

V-Plow XD™ - Designed for the toughest mining environments to reduce build-up on the tail and take-up pulleys and reduce belt edge damage.

Load Zone, Skirting and Dust Control

Conveyor Load Zone Support

ASGCO®'s decades of load zone support is utilized in developing world class conveyor transfer point products such as our line of Impact Beds and Pro-Zone™ that help:

- **NO Pinch Points or Idler Junction Area**
- **Absorbs Impact and Can Really Take the Shock of Large Material**
- **Modular Designed Cradles**
- **Available in Either Standard or Mine Duty**

Impact Cradle Beds™ - ASGCO®'s Impact Cradle Beds™ are (Patent Pending) designed to provide protection to your conveyor belt from impact damage from large rocks, tramp metal, roof bolts or bucket teeth that can put a stop to operations.

Roller Cassette™ - Incorporates the advantages of slider and impact bars for sealing, while maintaining constant rolling support for the conveyor belt in the load zone.

Pro-Zone™ - A patent pending modular conveyor belt load-zone system that optimizes the sealing for air/dust tightness of the receiving conveyor belt.

Conveyor Skirting and Dust Control

ASGCO®'s Skirt Sealing Systems and dust control products eliminate spillage, dust and fines at transfer points on the conveyor system. Provides Highly Reliable, Positive Seal in the Conveyor Load Zone.

- **Slashes Clean-up Costs**
- **Improves Conveyor Safety**
- **Reduces Damage to Conveyor Belt and Components**

Standard Double Clamp-Mount® - Helps eliminate spillage and dust in the conveyor transfer point. Installs easily and allows for one person to replace or reposition skirt rubber.

Clamp-Mount MDX™ (Mine Duty) - Helps to eliminate spillage and dust in the conveyor transfer point. MDX installs easily and allows for one person to replace or reposition skirt rubber.

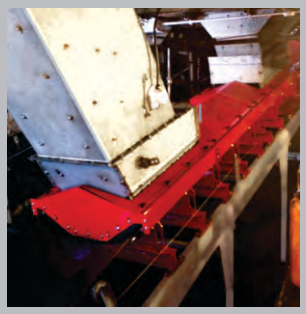
Tri-Seal™, Multi-Seal™, Dura-Seal™ (ORG), B&R Dura Seal™, and SX3™ Skirtboard Sealing Compounds

Multi-Seal™ Skirting

Dura-Seal™(ORG)Compound

Our adjustable skirtboard sealing compounds stop fines and dust from escaping the load zone. They work great in above and below ground mining.

Clamp-Mount® Sealing Systems
Skirtboard Sealing Compounds
Impact Beds
Pro-Zone™



Flexible Lacing
MS Fasteners
Click'N Lock Fasteners

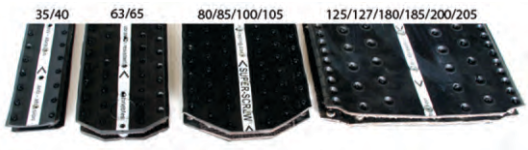
Super-Screw® Conveyor Belt Lacing ....So Easy to Install!

Minet Lacing Technology has developed the **SUPER-SCREW®. MLT** specific screws are self-drilling and self-tapping (they spread the carcass threads without cutting them).

The fasteners are made of composite material with self-tapping screws and are usable on reinforced rubber corresponding to the various conveyor quality: wear, oil or fire-resistant or white FDA.

The screwing system allows Super-Screw® to be installed regardless of the :
- configuration of the conveyor belt
- access conditions
- weather conditions

Super-Screw® can also be used as a permanent splice and for repair of holes and rips.



Super Screw Advantages:

- Wear and cut resistant
- Perfect for tubular belts
- Flexible and leak proof
- High tensile strength
- Compatible with small pulley diameter by bias installation
- Can be used for a short insert on the conveyor system
- Compatible with conveyor belt scrapers
- Available in coil or 'ready to use' cut specific lengths
- Suitable for high-heat belt up to 200°C or 392 °F and very low temperatures (-50°C or 19°F)
- Many rubber qualities available
- For antimagnetic splice (magnet belts) use screws and inserts made of antimagnetic stainless steel

Belt Skiver PS 15 Standard

- Handle is very ergonomic and comfortable.
- Every size blade can be fitted on the cutting head in one operation, clamps are spring loaded.
- Can skive on any part of your belt.
- Can skive your belts from 1/16" to 5/8" deep.
- Each part is available as a spare part.

High Quality Skiving Tool with 4 Heat Settings

Additional Fasteners

Clip'N Lock® is a low profile light duty fastener. It maintains the normal pitch that ensures an excellent gripping of the claws in wide belts:

Meander Design (continuously connected design), developed by Minet Lacing Technology's R&D :
- Double rows of teeth for additional strength
- Eliminates risk of loosing claws
- Helps to maintain pitch in wide belts
- Perfect for trough belts - 33 % more grip points gives 15 % more additional strength than standard fasteners.

MS® Fasteners utilizes self-tapping screws for heavy duty belts that: require no drilling, no template, and no hammering. The screws drill smoothly through the belt, while maintaining belt integrity (thickness of 9/64" to 23/32").
- No Pre Drilling / No template
- Installed by screwing directly
- Belt is clamped by the fastener itself
- Rubber belts can be repaired, then back to work
- Turn fastener upside down for a more leak proof and long life installation

FLEXCO
FASTENERS/CONVEYOR ACCESORIES

Mechanical Fastener Solutions for all your Conveyor Needs.

Fastener systems for heavy-duty applications:

Rivet Solid Plate Fastener System

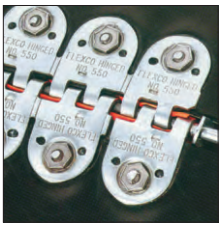
1. Low-profile, belt cleaner compatible
2. Quick installation, minimal downtime
3. Power installation options
4. Maximum resistance to pull-out

Bolt Solid Plate Fastener System

1. Sift-free splice
2. Non-magnetic and rubber covered options
3. On-site installation with portable hand and power tools
4. Low cost, long life splice

Rivet Hinged Fastener System

1. Low-profile, belt cleaner compatible
2. Quick installation, minimal downtime
3. Power installation options
4. Maximum resistance to pull-out



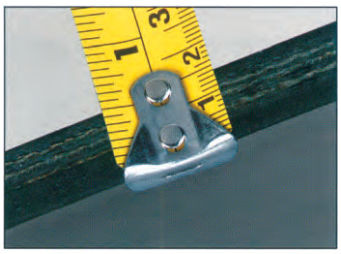
Bolt Hinged Fastener System

1. For belts with frequent belt-length alterations or smaller pulleys
2. Easy to install and re-install
3. Non-magnetic and spark-free options

Mechanical belt fasteners combine surprising strength and durability with affordability and easy installation. That makes them a smart option when your priority is saving time and money.

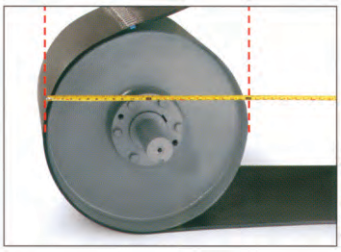
ASGCO®'s service team has the capability of installing Flexco® fasteners to quickly repair your conveyor belt, reducing costly downtime and increasing productivity.

How to specify the right fastener:



1. **Determine belt tension -** Most conveyor belting has a mechanical fastener rating. Care should be taken not to operate the belting or fasteners beyond their recommended ratings.

2. **Measure belt thickness -** If fasteners are to be countersunk, measure the belt thickness after a portion of the belt cover has been removed. Choose a fastener size which corresponds to belt thickness.



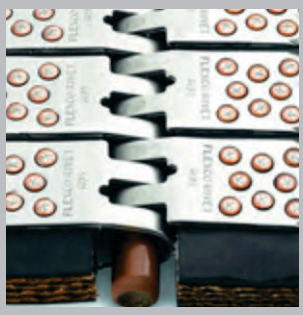
3. **Measure the diameter of the smallest pulley in your drive -** For tail or take-up of the self-cleaning "wing"type pulley, 25% larger diameter dimensions are generally required. Only consider pulleys over which the belt makes at least a 90º wrap.

4. **Choose the fastener size that is appropriate for your specifications -** Consult individual Flexco® application catalogs to guide your selection.

5. **Hinged or solid plate?-** When either style is appropriate, solid plate styles are preferred for longer life and to prevent sifting. Hinged fasteners are preferred on portable conveyors with smaller pulley diameters.

Fastener Metals include: Steel, Stainless Steel, MegAlloy®, RustAlloy®, Everdur and Promal.

Flexible Mechanical Fasteners



Conveyor Belt Repair

Conveyor Belt Repair System

The best and fastest system in the world for belt conveyer reparations.

Fourthane® is a new easy to apply synthetic rubber with high tear and impact resistance. Fourthane® allows you to repair rubber conveyor belt covers that cure enough within one hour so the equipment operation canbe resumed, reducing down time and maximizing the equipment operational time.

Specially formulated to be applied on conveyor belts that work under high impact and abrasion.

FOURTHANE® is a liquid material designed to be applied with a spatula or a similar tool. After a relatively short period of curing time it achieves physical properties similar to the conveyor belt's rubber cover.

FOURTHANE® product is provided in a kit of 26.5 Ounces (750 grams), which includes the synthetic rubber and catalyst. With the proper primer, the product can also be applied to non rubber surfaces such as steel, concrete, wood, etc.

TYPICAL APPLICATIONS:

- **Restore belt covers worn from skirtboard contact**
- **Restore belt covers on feeder belts**
- **Patch impact damaged areas of feeder belt covers**
- **Repair of longitudinal cuts in steel cord and fabric belts**
- **Refurbish damaged belt splice areas**
- **Renovate rip detection antenna installation areas**

Each Kit includes:
- **FOURTHANE® resin**
- **Cleaning Agent**
- **Primer**
- **Catalyzer**
- **Brush**
- **Latex Gloves**

Productivity
After applied, it only requires 10 minutes to dry and 1 hour to setup, minimizing down time, accomplishing time and money saving.

Easy Application
Specially formulated to be used in the field with very few tools and personnel.

High Tear and Impact Resistance
The high tear and impact resistance of the FOURTHANE® Red Line, allows the users to repair rubber coatings and conveyor belt covers of heavy demand, such as fever belts.

Grinding/Cleaning old rubber out of damaged conveyor belt.

Applying cleaner and primer.

Finished, longitudinal groove repaired.

Fourthane® Product Line:

- **Fourthane® Red**: Repair rubber conveyor belt coverings
- **Fourthane® Green Line**: Quick & efficient formula
- **Fourthane® Blue Line**: Plastic welding reparation
- **Fourthane® Orange Line**: Quick off-road tires repair
- **Fourthane® Grey Line**: Multi-purpose reparations
- **Fourthane® Yellow Line**: Cut detector antenna

Syntron®
Material Handling Solutions

Heavy-Duty Vibrating Feeders and Replacement Parts

Syntron® Heavy-Duty Vibrating Feeders

Syntron® Vibrating Feeders for heavy industry are ideal for feeding a wide variety of bulk materials from storage piles, hoppers, bins and silos. Rugged and dependable, Syntron® heavy-duty feeders are backed by years of service with proven performance in the mining, aggregates, glass, cement, chemical, wood products and steel industries.

Syntron®

Heavy-Duty Electromagnetic Feeders

Syntron® F-Series

Syntron® Heavy-Duty Electromagnetic Feeders are the most recognized name in the industry. With models having capacities ranging from 25 to 1,600 tons per hour, these feeders are capable of handling a variety of materials from fine powder to large, coarse particles.

Performance Feeder Feature

- **Dust-tight and maintenance-free drive units:** Feeders have no mechanical parts to wear out, such as cams, eccentrics, belts and bearings - thus eliminating the need for lubrication.
- **Stroke generated by electromagnetic field produced by coil.**
- **High Frequency:** 3600 VPM at 60 Hz or 50 Hz with EVF Control for maximum feed rate.
- **Stroke - .080 inches:** New "HP" units operate at .080" at 3600 VPM to provide 40% more output than traditional units at .060"

Syntron®

Heavy-Duty Electromechanical Feeders

Syntron® MF

The high-capacity performers

Syntron® MF Heavy-Duty Electromechanical Feeders are the heavy-weights of bulk material handling and are used for higher capacity requirements. The ten heavy-duty models handle capacities from 600 to 4,000 tons per hour.*

Syntron® Heavy-Duty Electromechanical Feeders combine extra structural strength with durable components. The deep wing plates form a bridge between inlet and discharge suspension supports, providing extra strength for years of dependable service.

Feeder Features

- Operating frequency - 1100 VPM at 55.4 Hz
- Stroke: 0.25 - 0.30 inches
- Start and operate fully loaded or empty
- Dependable, flexible, easily adjustable
- Minimal component design to reduce adjustments and replacements due to wear loaded or empty

Syntron® F-Series

Syntron® MF Electromechanical

Armorite®
Armorite™ AR
X-Wear™ Ceramic Liners
Canoe Liners
Urethane Cast Products

Wear Liners for Bulk Material Handling Conveyor Systems

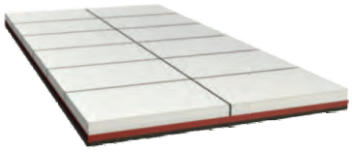
Wear Liners

Wear Liners are designed to be an integral part of any bulk handling conveyor system.

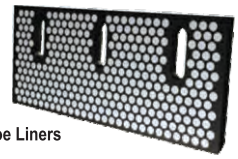
ASGCO® manufactures a variety of conveyor wear liners with many options and sizes to choose from. Designed to handle any tough hard rock mining application. Abrasion resistant, modular, high- wear material to line belts, chutes, and bin impact areas; ASGCO® wear liner products are the longest lasting, most cost effective in the industry.

Nitronic SX™ Stainless Steel - is a nitrogen-strengthened stainless steel developed for applications requiring good level corrosion resistance and durability.

X-Wear™ (Ceramic) - Smooth laminate surface provides optimum sliding for bulk material handling.



Available in ½", 1" or 2" ceramic.



Canoe Liners

Armorite™ AR - Hardox 400 Internal Skirtboard Liners protect your skirtboard and extend the life and effectiveness of your sealing compound.

Angled Skirtboard Liner

Straight Skirtboard Liner

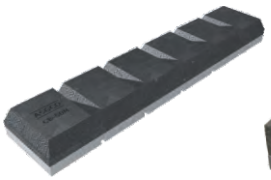
Armorite®

ASGCO® Armorite® is both impact and abrasion resistant and is made from a combination of high chromium and molybdenum white iron metallurgically bonded to a mild steel plate.

Smooth Liners

Wear Buttons

Skirtboard Liners

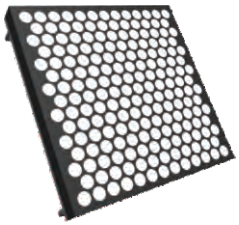


Chocky Bars

Grizzly Screen Caps & Wear Bars

X-Wear™ Mine Duty - Built with extreme hard ceramics that provide unsurpassed resistance to abrasive wear.

Square 2" Ceramic



Round ¾" Ceramic

Urethane Liners - We manufacture Urethane cast products as per customer requirement under strict confidentiality agreements with our customers, respecting any and all patents on the products they have designed and given us the opportunity to manufacture.

Available Conveyor Products:

- Urethane Lagged Pulleys & Rollers
- Urethane Classifier Shoes
- Urethane Hydrocyclone Liners
- Urethane Sheets & Linings
- Pipeline Products & Pigs

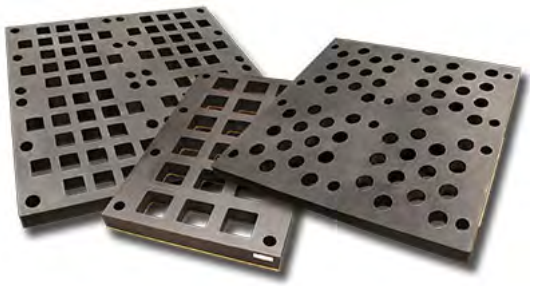
Rubber Scalping Screens, Perforated Plates, Canoe Liners and Side Tension Screen Rails

The roll of screening in the processing flow is to size and separate material ahead of secondary and tertiary crushing circuits, and/or to size and separate material in preparation for final product stockpiling.

ASGCO® Rubber Screen Panels deliver unmatched precision performance – dependable production even under adverse high impact operating conditions, or when handling the most abrasive and coarse material types for dry screening.

ASGCO® rubber screens are custom-made to fit your existing application, giving you low maintenance costs and high efficiency in applications that are too severe for conventional wire cloth.

Punch Plate Screens also available.



Provide us access to take measurements and we will use our team of experienced professionals to custom design a solution for you.

Screen Feed Box Liners

Screen Feed Box Liners are patterned for a direct replacement of the current liner configuration being used, or depending on the wear characteristics change the layout for maximum wear life. Liners have the ability to have various sized and shaped ceramics inserted to increase the longevity of the liner.

Screen Feed Box Liners

Screen Side Wear Liners

Screen Side Wear Liners are boxed in with mild steel or hard plate to prevent premature edge wear or damage. Bolt patterns, sizes, and thicknesses are fully customizable to increase the wear life for your operation. In house engineered to allow for an ease in duplicity.

Screen Side Wear Liners

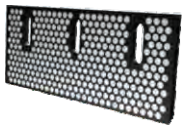
Skirtboard Wear Liners (Urethane, Steel, Rubber, Ceramic)

Wear Liners protect your skirtboard and extend the life and effectiveness of your sealing compound. Use the straight design where belts are fully loaded and full chute width needs to be maintained. The angled deflector plate wear liner will force larger material to the center of the belt.

Our Urethane Canoe Liners are engineered to absorb impact and abrasion in all types of material transfer operations.ASGCO® Ceramic Canoe Skirt Liners are highly effective for sealing inside the skirtboard, controls the material until it becomes stable and protecting the skirt wall from wearing.

Urethane Canoe Liners

Available in
1", 2" and 3" thicknesses
9" wide x 48" long



Ceramic Canoe Liners Available in
1" thick 24" Width
1" thick 36" width

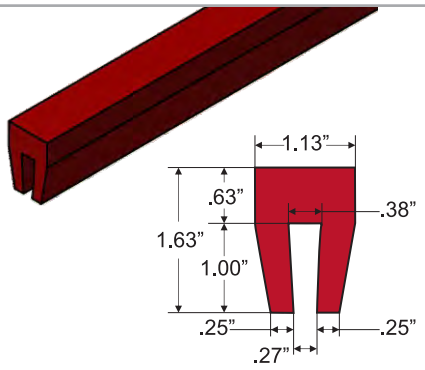
Urethane Bucker Backer Bar Channel

Also referred to as buffer strip, bucker-up strip, buffer channel and crown bar channel. Lasts 5 times longer than conventional rubber.

Legs are tapered slightly inward to aid in gripping the bucker up bar to prevent rolling.

- Available ⅜" and ½" channel in 4ft strips
- Durometer 82

- Abrasion Resistant
- Resists cuts and tears
- Impact Resistant
- Less Maintenance
- Easy Installation



Aggregate & Mining Screens
Feed Box Liners
Canoe Liners
Channel Rubber
Accessories

Bucker Backer Bar Channel

ASGCO®
Complete Conveyor Solutions

www.asgco.com | 800.344.4000

301 Gordon Street
Allentown, PA 18102
610-821-0216
FAX 610-778-8991

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