



Mertec

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Leaders In Slurry & Bulk Material Handling, Process Instrument & Controls



CONVEYOR COMPONENTS

- Primary Belt Cleaners
- Secondary Belt Cleaners
- Skirtboard Sealing Systems
- Belt Support Systems
- Belt Alignment Systems
- Dust Control Systems
- Simplicity Conveyor Accessories
- ARCHweigh Belt Scales
- Belt & Personal Protection



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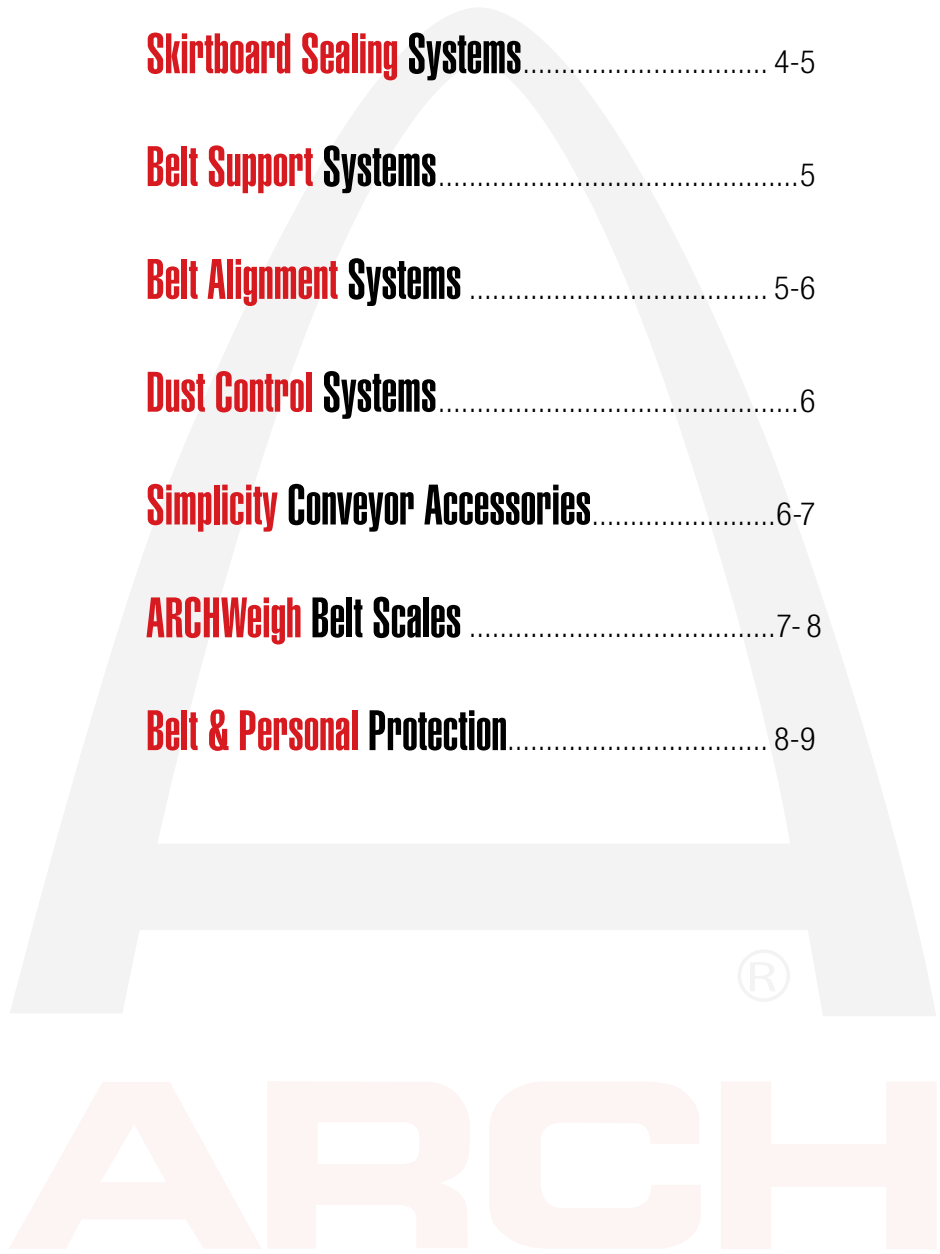
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PRIMARY BELT CLEANERS

Super Saber® Primary Cleaner

The alpha male of ARCH's cleaner line, the Super Saber® is as tough as it sounds. With a HUGE segmented blade pressed on a heavy-duty steel frame and dual Twister® Tensioners, the Super Saber® is the premier defense against stubborn carryback on large belts. Recommended for 30" head pulleys or larger, the Super Saber® is the big solution for big belts.



18" to 120" Conveyor Belts-Splice Safe-Segmented Blade-Heavy Duty Applications

At nearly a foot, the polyurethane blade makes this monster gentle on mechanical splices and belt but impenetrable to carryback. As durable as it is menacing, the Super Saber® uses heavy-duty steel for the main-frame and square tubing that won't buckle, bend, or break.



Saber® Max Primary Cleaner

The newest member of the ARCH primary cleaner team, the Saber® Max is available with single or dual Twister® Tensioners and steel mainframe that meet tough conditions with even tougher attitude. Easy installation and minimal maintenance make the Saber® Max a favorite among maintenance personnel and operators. A premium polyurethane blade re-sharpens itself, assuring maximum contact across the width of the belt.



18" to 120" Conveyor Belts-Splice Safe-Non-Segmented Blade-Heavy Duty Applications

For those who want the ease of a channel mount cleaner but need the strength and durability of a massive blade, the Saber® Max is the perfect choice. Recommended for 24" head pulleys or larger. The Saber® Max is quickly becoming ARCH's fastest growing primary cleaner in the aggregate and coal industries.



Saber® (SB) Primary Cleaner

The Saber® Primary cleaner features a premium polyurethane blade and steel frame that allows it to take even more abuse than ever before. A standard Twister® Tensioner maintains optimum blade-to-belt pressure for consistent, maintenance-free cleaning.



18" to 120" Conveyor Belts-Splice Safe-Non-Segmented Blade-100% Polyurethane Blade

The standard-bearer of the ARCH arsenal, the ARCH Saber® Primary cleaner has been synonymous with belt cleaning since 1975 and is still setting standards today. As tough today as it was in the 1990s, the Saber® Primary cleaner is still considered by many to be the best primary cleaner on the market.



Saber® Channel Mount (SCM) Primary Cleaner

An upgraded version of our flagship Saber® Primary cleaner, the SCM features a reinforced frame and a channel-mount design for faster blade replacement from either side of the conveyor. The SCM cleaner sports a stout, curved polyurethane blade to assault problematic carryback at the head pulley.



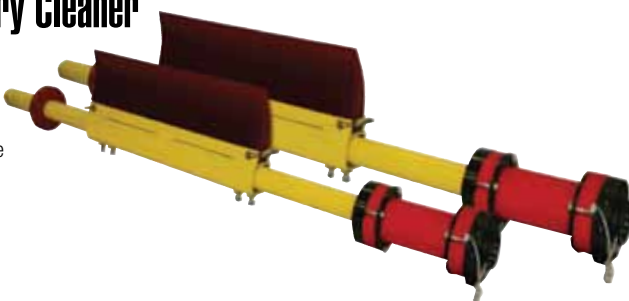
18" to 120" Conveyor Belts-Safe for Mechanical Splices-Non-Segmented Blade-Channel-Mount Frame

One of the first belt cleaners to feature single-pin blade removal, the SCM is easy to replace and maintain. Many blade options available. A standard Twister® Tensioner maintains optimum blade-to-belt pressure for consistent, maintenance-free cleaning.



Saber® Dual Primary Cleaner

Two Saber® Channel Mount primary cleaners mounted at the head pulley for extra defense against carry back. Dual primaries are also available in the Arch Mini and Maxi Saber® cleaners.



Starting with a narrower top cleaner that eliminates carry back off the center of the belt, backed by a second wider cleaner to address any material that is left. Both cleaners are equipped with the Arch patented Twister® tensioner that maintains optimum blade to belt pressure.



PRIMARY BELT CLEANERS



Like its larger Saber® counterparts, a super premium polyurethane blade and a mini Twister® Tensioner make the Mini Saber® a formidable foe for any material. As with all ARCH cleaners, the Mini Saber® utilizes a steel mainframe that resists bending or buckling under extreme pressure.

Mini Saber® Primary Cleaner

Featuring big performance from a little blade, the Mini Saber® is ideal for head pulleys 18" or smaller. The Mini Saber® blade conforms better to smaller head pulleys.

18" to 48" Conveyor Belts-Splice Safe-Non-Segmented Blade-18" Head Pulleys or Smaller



SECONDARY BELT CLEANERS



A heavy-duty trailing arm handles rigorous applications without buckling or bending and is easy to install anywhere along the return belt. As with all Saber® cleaners, the Saber® Secondary enlists the muscle of a patented Twister® Tensioner to ensure that proper blade-to-belt pressure is consistently applied.

Saber® GSS Secondary Cleaner

ARCH Saber® Secondary (aka GSS) cleaners, like Saber® primary cleaners, use a super-premium polyurethane blade that handles carryback along the return side of the belt. Its cantilever design maintains optimum cleaning pressure while letting mechanical splices pass harmlessly, saving the blade, belt, and splice from damage.

18" to 72" Conveyor Belts-Splice Safe-Non-Segmented Blade

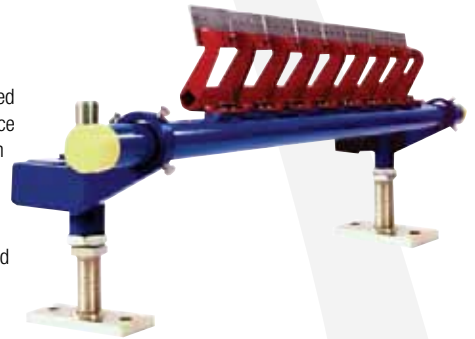


The durable blade holders reduce chattermark damage caused by blade oscillation. The unique polyurethane unit applies consistent pressure and self-adjusts to compensate for normal blade wear.

RBS Secondary Cleaner

Using proven blade technology the RBS metal-bladed secondary cleaner handles carryback that brute force can't handle alone. The RBS eliminates stubborn tack and slime often missed by primary cleaners with a precision-crafted tungsten carbide blade. Delivered pre-assembled to your specifications, this aggressive secondary cleaner is easy to install and handles the toughest conditions at any belt speed.

18" to 120" Conveyor Belts-Tungsten Carbide Blade-Fixed Lugs Available



The heavy-duty trailing arm allows for easy installation anywhere along the return belt line. ARCH's patented Twister® Tensioner makes constant re-tensioning unnecessary, saving you time and money by reducing, or even eliminating, maintenance and costly downtime. This aggressive secondary cleaner is easy to install and handles the toughest conditions at any belt speed.

RGS Secondary Cleaner

ARCH's newest innovation in secondary cleaning, the RGS, uses the same cantilever design as the GSS cleaner, but with a tungsten carbide blade molded in rubber to do the dirty work. Using proven blade technology the RBS metal-bladed secondary cleaner handles carryback that brute force can't handle alone. The RBS eliminates stubborn tack and slime often missed by primary cleaners with a precision-crafted tungsten carbide blade.

18" to 72" Conveyor Belts-Tungsten Carbide Blade-Tolerant-Heavy Duty Applications



SKIRTBOARD SEALING SYSTEMS



At-Last-A-Seal® utilizes wear-resistant, self-adjusting EPDM rubber that reacts to the pressure applied by the conveyed material and forms a tight seal. Available for troughed AND flat belts, At-Last-A-Seal® has no seams or joints to maintain and is available in continuous lengths up to 600'. Retaining chains instead of costly clamps or mounting brackets give At-Last-A-Seal® its fluidity and flexibility.

At-Last-A-Seal® Sealing System

At-Last-A-Seal® skirt seals take a new approach to sealing transfer points; they become a part of the chute wall and float on the belt, allowing the conveyed material to apply sealing pressure without excessive drag and friction. At-Last-A-Seal® encapsulates the bottom edge of the chute wall and harmlessly rides on the surface of the belt. This lets the seal 'float' and conform to any irregularities and inconsistencies of the belt surface.

Up to 600 ft.-'Floating Seal'-No Splices or Joints-Super Duty Applications



SKIRTBOARD SEALING SYSTEMS

Talon Sealing System

ARCH's newest innovation in sealing technology, the Talon Seal is as fierce on fugitive dust as its name suggests. The Talon Seal uses a unique design with multiple barriers to contain dust and fines to the belt. The Talon Seal leverages the weight of the load to either increase or decrease the seal-to-belt pressure; heavy loads create more pressure, lighter loads less pressure.

NEW 7.5" height



Use With Existing Clamps-Continuous Lengths up to 200'-Minimal Friction

The unique multi-barrier design conforms to the dynamics of the belt with less friction for longer seal and belt life. The Talon Seal is an economical solution for harmful fugitive dust in load areas. The Talon Seal is a best value because it requires no new hardware to install; you use your existing brackets and clamps! Available in continuous lengths of up to 200 feet, the Talon Seal has no seams or joints to maintain.



Flexiskirt® Sealing System

A mainstay in ARCH's fight against fugitive dust, Flexiskirt® sealing systems utilize directionally grooved rubber to force fines back into the bulk flow. Recommended for very dry, dusty materials the Flexiskirt® design takes advantage of the rubber's natural flexibility to seal the belt by conforming to the belt surface. Able to withstand temperatures of up to 150°F Flexiskirt® seals conform to the belt's dynamics with minimal friction as it adapts to widening or narrowing gaps between the belt and seal chute wall.



18" to 120" Conveyor Belts-Safe for Mechanical Splices

The modular Flexiskirt® design and standardized parts make installation and maintenance quick and simple. The sandwich grip of the steel holder maintains secure grip to prevent seal slippage. For reversing belts, smooth rubber (non-grooved) is standard. Grooved Flexiskirt® seal rubber is available in 25' and 50' rolls; smooth rubber in 50' rolls only. Holders are supplied in 5' lengths and customized according to your belt's troughing angle (20, 35, and 45).



Secondary Dust Seal

Made with rope and weather-resistant EPDM rubber, the ARCH Secondary Dust Seal is installed directly behind the primary seal and acts as a safety net to catch what your primary seal doesn't. It works in unison with existing skirt rubber to maximize your sealing effectiveness.



Provided in continuous lengths of up to 350', this supreme secondary seal has no seams or joints and will not leak.

Many operations find that their skirt seals are only marginally effective; small fines escape through small gaps in the primary seal and find their way into the air, on the ground, or into other conveyor components. An effective and economical solution to this is the ARCH Secondary Dust Seal.

Incredibly easy to install, the ARCH Secondary Seal is ready for work within minutes of delivery. Simply tie-off the rope at each end and you're done. No maintenance or manual adjustments are required.

BELT SUPPORT SYSTEMS

Simplicity Impact System

For extremely heavy impact zones ARCH developed the ultimate belt support, the Simplicity Impact System. Constructed with more steel than most impact beds, Simplicity Impact Systems provide 75 percent more belt support than conventional impact beds! The impact bars rely on the strength and durability of steel to handle heavy, bulky material, just like the frame.

The STEEL sub-frames in the bars (NOT ALUMINUM) are molded into a shock absorbing rubber and capped with low-friction UHMW giving your belts a smooth ride out of the loading zone.

100% Customizable-STEEL Construction-Bolt-in-Place installation-Supports Length and Width of load zone



Simplicity Impact Systems are built with the user in mind; we customize every system to match your existing idler profile, preventing costly field modifications before and after installation. Simple 'bolt-in-place' engineering assures quick installation with minimal downtime.



Simplicity Slider System

The biggest problem area for dust is the load zone. Tons of rock, coal, wood, and ore are dumped onto a belt every hour. Naturally, when this kind of mass is supported by ordinary idlers, the idlers lose. The belt stays between the idlers and fines escape. Without proper support your belts will leak! The Simplicity Slider System fills in those problematic gaps by supporting the belt between the idlers.

100% Customizable-Steel Construction-Bolt-in-Place installation-Supports Length and Width of load zone



Center rolls and low-friction slider bars give your material a firm place to land and a smooth surface to travel on, saving your belts from premature wear-and-tear. Making installation and maintenance simpler, ARCH made the Simplicity Slider System entirely customizable; the insert and slider bars can be retrofitted to your existing stands or supplied as a complete system.



BELT ALIGNMENT SYSTEMS



The Tri-Return automatically corrects belt misalignment, preventing belt damage and spillage. The patented convex roller design conforms to every conveyor belt, thus contacting the entire width of the belt. The Tri-Return replaces existing return idlers with easy installation. The belt is supported by 6 bearings, versus 2 in a single flat roll. Works on reversing conveyor belts, unlike most other idlers.

Tri-Return Training Idler

The Tri-Return Training Idler uses a patented convex arrangement of three self-adjusting idler rolls on a center pivot that automatically centers your conveyor belt. The center roll is horizontal and the two outer rolls are mounted at a descending angle. This roll arrangement allows the trainer to fit the full cup of the return conveyor belt.



Rubber Coated Rolls-Steel Construction-Bolt-in-Place installation-Easily Replaces Current Idlers



Lightweight belts can be difficult to keep contained. Wind gusts and off-center surge loading are two examples of the problems that cause belt misalignment which can easily (and inexpensively) be corrected with Wyatt Alignment Disks.

Wyatt Alignment Disks

Constructed of polyurethane, Wyatt Alignment Disks will not damage your belts, and since they mount to your existing carry or return idler rolls, they are easy to install.



Corrosion Resistant-For Lightweight Belts-100% Polyurethane-Easily Mounts to Current Idlers

DUST CONTROL SYSTEMS



Every application is different. ARCH specializes in custom fogger systems built for your specific needs. Customized fogger systems help you maximize dust control in hoppers, head & tail boxes, chute mid-points, crushers, and transfer points.

Agglomerative Dust Control

The cluster spray heads are equipped with the standard #3 nozzle. The number of nozzles depends upon the spray head required. A filter and ball valve may be added to the spray bar or head. Pumps are equipped with one filter, one ball valve, a pressure regulation valve, and pressure gauge. Motors are available in 120/240 or 230/460 voltage.



Low Water Consumption-No Chemical or Air Injectors

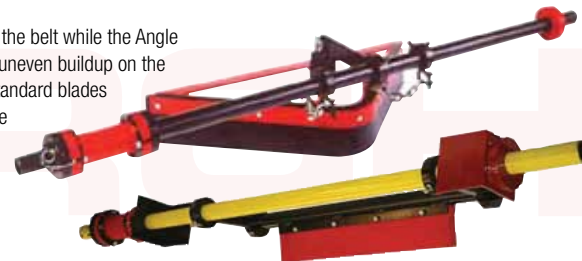
CONVEYOR ACCESSORIES



Prevents premature component wear caused by material buildup on the return side of your belt. Other available blade options are: white non-pigmented urethane, and extra high temp green.

V-Plow Angle Plow

V-Plow discharges material off both sides of the belt while the Angle Plow removes it to one side only. Eliminates uneven buildup on the tail pulley that leads to belt misalignment. Standard blades for V-Plow are black rubber and red urethane for Angle Plow.



Simplicity Access Doors

Simplicity Access Doors supplied with fasteners and urethane seal. Urethane lid construction with integral seal forms a natural, tight seal. Available with 8" and 12" openings. Custom imprint available on 12" doors. Easily bolted or welded to existing structure with optional adaptor plate. Allows easy access to conveyor for inspection.



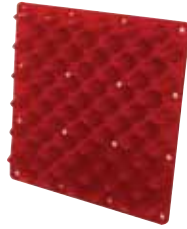
Corrosion Resistant

CONVEYOR ACCESSORIES

Simplicity Chute Liners

Made of wear-resistant polyurethane. Outlasts traditional steel liners. Easily bolts at impact point on chutes or screens. Allows material to build up on itself and provides a protective barrier for chutes and screens. Significantly reduces noise. Available in two configurations.

Corrosion Resistant



Simplicity Chute Baffles & Stacker Doors

Features double-layer wear-resistant polyurethane that traps and contains dust particles. Overlapping design provides double the protection against harmful fugitive dust. Easily installed anywhere along the conveyor. Heavy-duty baffles make great Stacker Tube doors to replace OEM steel doors that get easily torn off.

Stop Escaping Dust-Customizable to Your Dimensions



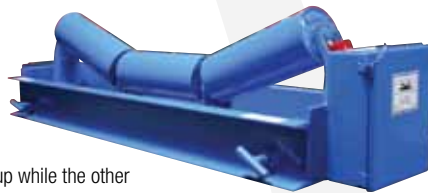
Standard baffles are 2' long and 1/4" thick. Heavy-duty baffles are 4' long and 3/4" thick. Grass skirting is included with the standard baffles.

ARCHWEIGH BELT SCALES

ARCHWeigh SC Belt Scale

The ArchWeigh SC offers weight accuracies of 1-2% as it self-adjusts to the movement of the belt, thanks to ARCH's patented dual-ended load cells. This unique engineering compensates for outside forces on the belt by forcing converse reactions by the load cells; one is forced up while the other pushes down. Constant recalibration is never necessary.

Bolt-in-Place Installation-Minimum Recalibration



Unitized bridge construction and internal speed sensor allow for one time 'Bolt-in-Place' installation; the internal housing for the speed sensor means that once the scale is installed, so is the speed unit. The speed unit precisely measures belt speed for consistent readings. A reinforced, factory balanced and leveled frame eliminates the common problems associated with insufficient structure and will give you years of reliable readings.



ARCHWeigh HP Belt Scale

The ArchWeigh HP is the only belt scale that accounts for outside forces that affect every conveyor. ARCH's patented dual-ended load cells, which mount directly to the idler, are the reason that you can now rely on accurate data (up to +/- 1/2%) every day without recalibration. The dual load cells work opposite each other to neutralize the natural lateral and vertical movements of your conveyor belt. As one end is pushed down by a force, the other is naturally lifted by that same force; any movement is cancelled out.

Bolt-in-Place Installation-Minimum Recalibration



Long-term repeatability without recalibration makes this heavy-duty scale virtually maintenance-free; no constant recalibration is necessary. Installation of ArchWeigh scales is easier and faster than other belt scales. There are no parts to bolt together and no kits to figure out. Simply pull off the idler and bolt the scale in place, run some wire and you're up and running.



ARCHWEIGH SCALE INTEGRATORS

ARCHWeigh 1000 Scale Integrator

The ArchWeigh Integrator utilizes a unique Analog-to-Digital conversion process which allows for the use of an industry standard programmable logic controller (PLC) as a control processor. The exclusive converter internally performs thousands of weight and speed calculations per minute and transmits that high accuracy value to the PLC. The processor then uses those numbers to perform basic rate, weight, and totalizer calculations.

Single-Scale Integrator-Touchscreen Display-Unlimited Communication Options



The integrator processes and displays totalized weight, rate, and belt speed on a touch screen display. The system can be calibrated in three (3) easy steps without the need for test chains. Its user friendly design reduces operator training time while minimizing the potential for errors. The integrator is so simple to use, it can be maintained by plant personnel, eliminating the need for scale technicians.

ARCHWEIGH SCALE INTEGRATORS

The ArchWeigh belt scales are uniquely designed mechanically and electrically. ARCH's patented load cell design eliminates problems associated with weighing material on a moving conveyor belt. With other scales, the force created by the movement of the belt over the scale carriage is factored as a component of the calibration weight or Belt-Tare. The assumption that mechanical components will not vary over time results in a lack of long term accuracy and repeatability. Therefore, the output value of the load cell is always only the weight of the material on the belt, nothing more and nothing less.



With our scales, there are no parts to bolt together or kits to figure out. Let us prove to you that we provide better service, installation, and belt scales. ARCH installation services are available to any of our customers or we'll train your staff to properly install, set up, calibrate and maintain your equipment.

ARCHWeigh 2000 Scale Integrator

Built with the same rock-solid, time-tested software and analog-to-digital conversion as the ArchWeigh 1000, the ArchWeigh 2000 is built for multiple scales carriages. A 6" touch screen display makes set-up and calibration easy to do anywhere. A steel enclosure makes the ArchWeigh 2000 as tough as the environment it works in.



An additional benefit of using a standard PLC is that an unlimited number of communication options and protocols are available to allow information to be transmitted to any control system. Whether using conventional wire, fiber optic cable, or wireless modems, there are communications modules available for the ArchWeigh integrator.

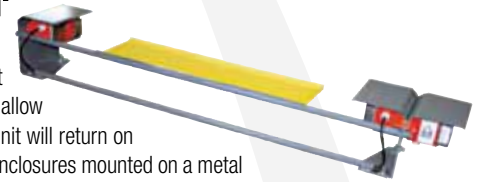
**Manages Up To 6 Scales-Touchscreen Display-
Unlimited Communication Options**

BELT & PERSONAL PROTECTION

The CTS 9000 Belt rip detector is an electronic device consisting of a network of sensing beams, which are mounted beneath the troughing belt, immediately after the chute. A rip in the conveyor belt causes the material to fall through the rip onto a collection tray which then builds up and breaks the infra-red beam causing the unit to trip. Once this material starts accumulating and builds up on the tray, which is mounted beneath the troughing belt it will cut the sensing beams which will cause the conveyor to stop.

CTS 9000 Infrared Rip Detector

The electronic unit is equipped with a push-button that starts a wash cycle without stopping the conveyor. The wash cycle will allow the operator five minutes to clear the lens and the unit will return on line automatically. The total unit consists of 3 IP 66 enclosures mounted on a metal bracket facing each other with the sensing beams, an electronic control unit which is mounted on the bracket facing out, and a special metal tray to catch the falling material.



Auto-Wash Mechanism-For Belts 24" to 96"-Minimum Recalibration-High-Impact Housing

Two profiled arms are connected to an electrical switch through a glass-reinforced polycarbonate coupling. If the belt rips or tears to the extent of possible damage to the belt or structure, it will contact one of the upright arms. A contacted arm will tilt in the direction of the moving belt and activate the switch. Switch coupling mechanism is designed to provide an adjustable mechanical delay to prevent false trips.

CTS 700 BTR Rip & Tear Detector

Two tear detection arms connected to the rotary switch will provide protection against side wing and center belt tears. Rotary switch equipped with a mechanical delay to prevent trips from incidental contact. Once activated, the switch must be manually reset.

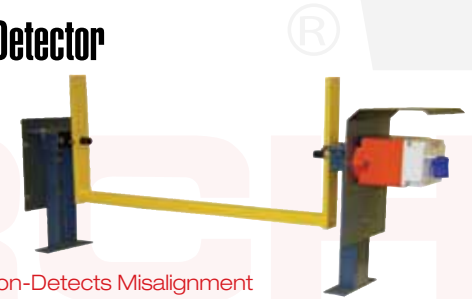


For Belt 24" to 96"-Detects Side Wing Tears and Center Rips-High-Impact Housing

Misalignment of the troughing belt is detected via two upright arms, which are connected to an electrical switch via a polycarbonate made coupling mechanism. Should the belt run off, either to the right or to the left, exceeding the end of the idler roller to potentially cause damage to the belt or the conveyor structure, it will come into contact with one of the upright arms.

CTS 700 BL Belt Misalignment Detector

Two upright arms connected to the rotary switch will contact misaligned belts and shut down conveyor before damage is done. Rotary switch equipped with a mechanical delay to prevent trips from incidental misalignment. Once activated, the switch must be manually reset.

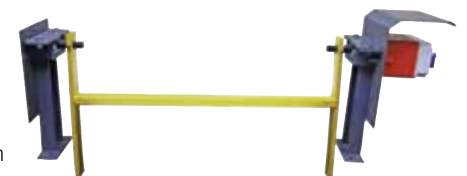


For Belts 24" to 96"-Bolt-in-Place Installation-Detects Misalignment in Both Directions

When one of the downcast arms are contacted it will tilt in the moving direction of the belt towards the tail, activating the tripping mechanism connected to the electrical switch, stopping the conveyor.

CTS 700 BL Return Belt Misalignment Detector

Misalignment of the return belt is detected via two downcast arms which are connected to an electrical switch via glass reinforced polycarbonate made coupling mechanism. Should the belt run off to the right or to the left to the extent that it can cause damage to the belt or the conveyor structure, it will come into contact with one of the downcast arms.



For Belts 24" to 96"-Bolt-in-Place Installation-Heavy Duty Housing

CTS 600 BCD Blocked Chute Detector

The CTS 600 BCD blocked chute detector is a tilt-type switch, which is mounted inside the chute to monitor any blockage in the material conveyed. Should material start to build up due to a blockage, it will lift the sensing rod which will start to tilt the switch; any tilt to the switch above 15 degrees will cause one of the steel-encapsulated switches to open. This unit provides a relay interface between a tilt-type probe and the conveyor control system.

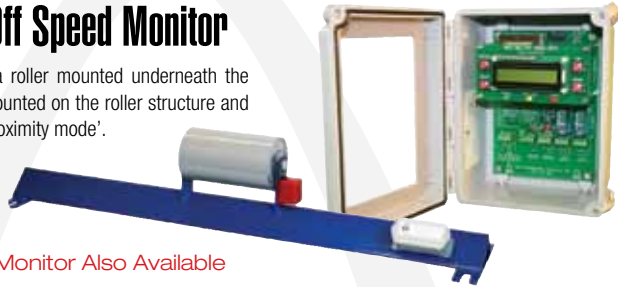


Urethane-Encapsulated Probe-Adjustable Timer-Corrosion Resistant

In addition to the relay output, an adjustable timer allows the unit to be set to avoid spurious trips caused by material striking the probe. The timer setting defines the amount of time which the tilt switch must be activated in order to latch the relay. Once the controller has been tripped, the relay will remain latched until the reset input is energized. The activation delays can be field adjusted from instantaneous to nine (9) seconds. Urethane-encapsulated probe prevents damage to downstream equipment if broken off.

CTS 700 OSU Belt Off Speed Monitor

Belt movements are detected by a roller mounted underneath the troughing belt. A pulse sensor is mounted on the roller structure and monitors the pulses in 'magnetic proximity mode'.



Easy Setup-Zero Speed Monitor Also Available

The enclosure consists of a resin coated PC board populated with a lightning protection network, spring-loaded terminals and compression glands for cable parts. The electronic system is completely isolated via the epoxy sealed speed sensor, thus maintaining the galvanic isolation of the unit from the conveyor structure. The unit can also be used as a sequence roller.

CTS 900 AVA Audio/Visual Pre-Start Alarm

The CTS 900 AVA alarm unit is housed in a high impact UV stabilized polycarbonate enclosure rated to IP 65 degrees of protection. The unit consists of:- 1 alarm buzzer rated 105 dB- Flashing Strobe light-Audio AND Vi



Audio AND Visual Alarm-Heavy Duty Housing-Corrosion Proof

The unit has three operating modes which the customer can select buzzers and strobe switching together or individual switching of strobe and buzzer. The unit can also be fitted with a push button for use as a signalling device. Operating voltage 110 or 220 v AC or 24 VDC. Current consumption up to +/- 200 mA.

CTS 100 Standard Rotary Switch

Electrical rotary switch allows the switch to be tripped manually. The electrical switch is a self-wiping rotary switch (not a micro switch), and consists of two normally open and two normally closed contacts. Switch knob is pad lockable in the "Off" position. Once the switch has been tripped, the Orange colored flag is in the "Up" position to alert maintenance personnel and is lockable. It must then be manually reset in order to restart the conveyor.



Non-Hazardous Environments Only-Self-Wiping Rotary Switch

High impact U.V. stabilized polycarbonate enclosure is rated IP 66 and D.I.P. (Dust Ignition Proof) degree of protection. Recommended distance between switches is 330 feet (100.6 m).

CTS 200L Standard W/Trip Light

Electrical rotary switch allows the switch to be tripped manually. The electrical switch is a self-wiping rotary switch (not a micro switch), and consists of two normally open and two normally closed contacts. Switch knob is pad lockable in the "Off" position. Once the switch has been tripped, the Blue colored flag is in the "Up" position, is lockable, and the light is illuminated so it can be seen by maintenance personnel. It must then be manually reset in order to restart the conveyor.

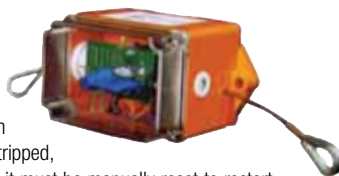


Non-Hazardous Environments Only-Self-Wiping Rotary Switch-Trip Indication

High impact U.V. stabilized polycarbonate enclosure is rated IP 66 and D.I.P. (Dust Ignition Proof) degree of protection. Recommended distance between switches is 330 feet (100.6 m).

CTS 300PSW Switch W/Pre-Start Alarm

Electrical rotary switch allows the switch to be tripped manually. The electrical switch is a self-wiping rotary switch (not a micro switch), and consists of two normally open and two normally closed contacts. Switch knob is pad lockable in the "Off" position. Once the switch has been tripped, the Blue colored flag is in the "Up" position and is lockable. Once tripped it must be manually reset to restart the conveyor. This switch also emits an "Audible" alarm sound before "Start Up" of the conveyor to warn maintenance personnel that the conveyor is about to start. This switch can only be used in conjunction with an Arch "CMS Conveyor Monitoring System" and not as a stand alone switch.



Hazardous/Non-Hazardous Environments-Audio/Visual Pre-Start Alarms-Trip Indication LEDs

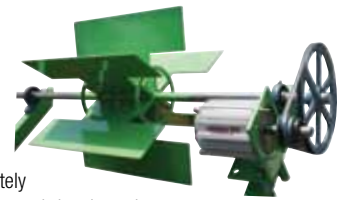
High impact U.V. stabilized polycarbonate enclosure is rated IP 66 and D.I.P. (Dust Ignition Proof) degree of protection. Recommended distance between switches is 330 feet (100.6 m). Speech communication and carbon monoxide monitoring available.

The DEH can improve plant safety and security by providing site lighting and security cameras. Mast-mounted site lighting will illuminate your plant at night or in areas protected from natural lighting while a mast-mounted video camera improves security by recording the activities in your plant. Accurately controls continuous rate output for process control applications with an optional ArchWeigh Belt Scale.



DEH Dean Energy Harvester

The Dean Energy Harvester (DEH) is a revolutionary product that allows anyone using a bulk handling conveyor belt to reclaim and reuse the kinetic energy caused by falling material at drop zones. The Power Rotor (pictured) spins as material hits the blades and sends this energy to the Power Storage Unit where it is stored for future use or immediately redirected to other conveyor components, lighting, security cameras, or auxiliary tool charging units.



Creates Self-Sustaining Energy-No Strain on Current Power Supply-Easy to Install-Wireless Monitoring Options



ARCH