

"CONVEYING CONFIDENCE"

Custom Modification • Fast Delivery • Easy Installation • Superior Support



www.archenv.com

800.553.4567

PRODUCT CATALOG

A ABOUT ARCH

Arch Environmental Equipment, Inc. is a manufacturer and distributor of a wide range of mechanical and electrical products designed to improve the efficiency and safety of conveyor belt systems.

Arch's in-house manufacturing begins with computer-aided design and continues through final assembly and shipping. Our 50,000 square foot facilities include a fabrication shop, machine shop with CNC equipment, and state of the art urethane production.

This allows us to meet the quality standard that our customers demand. Arch's approach to meeting the customers' needs is to evaluate both the short and long term problems and concerns of our customers.

Worldwide sales are provided through an established network of representatives and distributors.



MANUFACTURED PRODUCTS & SERVICES



MECHANICAL

Belt cleaning systems, sealing systems, belt alignment devices, belt support and impact systems, chute liners and access doors



ELECTRICAL

Belt scales, pull cord switches, pre-start alarms, conveyor management systems, metal detectors, speed monitoring, rip and tear detectors

PRIMARY MARKETS SERVED

Aggregate, Cement, Coal, Food, Foundry, Mining, Power, Primary Metals, Pulp and Paper

CONTACT INFORMATION



5929 Benton Rd.
P.O. Box 1760
Paducah, KY 42002-1760



P: 800.553.4567
F: 800.230.9462



info@archenv.com
www.archenv.com

TABLE OF CONTENTS

4 PRIMARY BELT CLEANERS

Saber® Channel Mount (SCM) Primary Cleaner
Saber® (SB) Primary Cleaner
Saber® Max Primary Cleaner
Super Saber® Primary Cleaner

5 Saber® Dual Primary Cleaner Mini Saber® Primary Cleaner **NEW Product Highlight**

6 SECONDARY BELT CLEANERS

RGS Secondary Cleaner
Saber® GSS Secondary Cleaner
RBS Secondary Cleaner
Saber Roller

7 SKIRTBOARD SEALING SYSTEMS

At-Last-A-Seal® Sealing System
Talon Sealing System
Cam-A-Lot
Flexiskirt Sealing System

8 **Secure Your Load Zones** **BELT SUPPORT SYSTEMS**

Simplicity Impact System
Simplicity Slider System

9 BELT ALIGNMENT SYSTEMS

Tri-Return Training System
Wyatt Alignment Disks

DUST CONTROL SYSTEMS

Agglomerative Dust Control

10 CONVEYOR ACCESSORIES

V-Plow Angle Plow
Simplicity Access Doors
Simplicity Chute Liners
Simplicity Chute Baffles & Stacker Doors

11 ARCHWEIGH BELT SCALES & INTEGRATORS

Archweigh SC Belt Scale
Archweigh HP Belt Scale
Archweigh 1000 and 2000 Scale Integrator

12 BELT & PERSONAL PROTECTION

CTS 9000 Infrared Rip Detector
CTS 700 BTR Rip & Tear Detector
CTS 700 BL Belt Misalignment Detector
CTS 700 RBL Return Belt Alignment Detector

13 CTS 100 Pull Cord Switch CTS 200L Pull Cord Switch with Trip Light CTS 300PSW Switch with Pre-Start Alarm CTS 900 AVA Audio/Visual Pre-Start Alarm

14 CTS 600 BCD Blocked Chute Detector CTS 700 OSU Belt Off Speed Monitor EMT 50 Metal Detector EMT 100 Metal Detector



PRIMARY BELT CLEANERS

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.

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

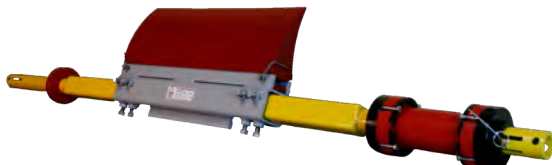
Saber® (SB) Primary Cleaner



The Saber® Primary cleaner features a 100% premium polyurethane blade and steel frame that allows it to take even more abuse than ever before.

18" to 120" Conveyor Belts, Safe for Mechanical Splices, Non-Segmented Blade

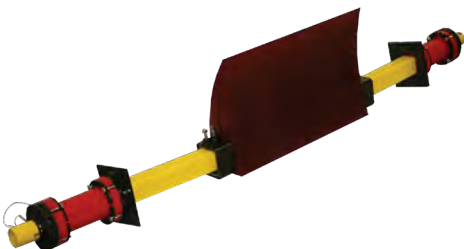
Saber® Max Primary Cleaner



Available with single or dual Twister® Tensioners and steel mainframe, the Saber® Max is no slouch when it comes to hard work. This robust cleaner utilizes the same proven Saber® blade profile in a bigger, stronger package.

18" to 120" Conveyor Belts, Safe for Mechanical Splices, Non-Segmented Blade, Heavy Duty Applications

Super Saber® Primary Cleaner

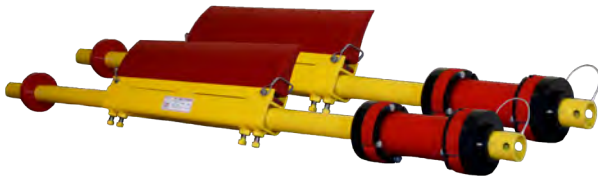


With a HUGE segmented blade pressed on a heavy-duty steel frame and dual Twister® Tensioners, the Super Saber® is the premier defense against stubborn carryback on large belts. Recommended for 30" head pulleys or larger, this is the big solution for big belts.

8" to 120" Conveyor Belts, Safe for Mechanical Splices, Segmented Blade, Heavy Duty Applications

PRIMARY BELT CLEANERS

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 Saber® Max cleaners.

Mini Saber® Primary Cleaner



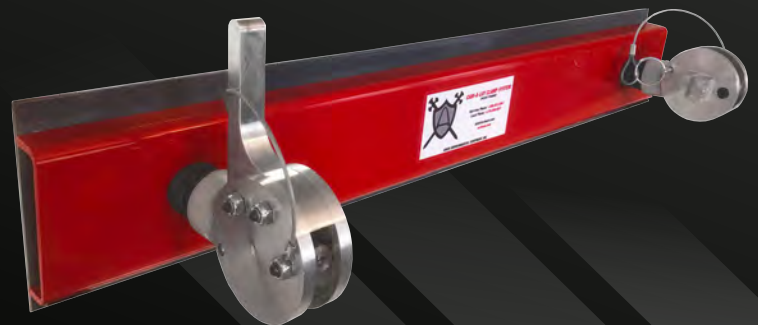
Featuring big performance from a little blade, the Mini Saber® is ideal for head pulleys 18" or smaller.

18" to 48" Conveyor Belts, Safe for Mechanical Splices, Non-Segmented Blade, 18" Head Pulleys or Smaller

NEW PRODUCT HIGHLIGHT

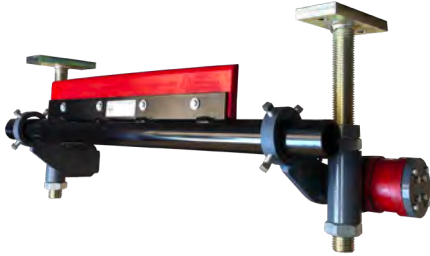
Cam-A-Lot Clamp System

This revolutionary clamp doesn't require any tools or adjustment, simply set your skirtboard rubber in place and lock the clamp. A sealed design means that when it's time to replace your worn seal, you don't have to worry about gummed-up threads! In addition, the Cam-A-Lot Clamp system utilizes a double spring design, aiding in opening the clamp after hard use in unforgiving environments.



SECONDARY BELT CLEANERS

RGS Secondary Cleaner



The RGS secondary utilizes a Heavy-duty trailing arm frame supported by 1½ inch spindles. An internal Twister Tensioner maintains the constant pressure of a urethane encased, tungsten carbide blade. This tough combination makes easy work of any residual material missed by a primary cleaner.

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

Saber® GSS Secondary Cleaner



ARCH Saber® Secondary (GSS) cleaners, incorporate the proven Saber® shape into a cantilever style secondary. The patented Twister tensioner applies optimum cleaning pressure to remove carry-back while letting the mechanical splices pass harmlessly, saving the blade, belt, and splice from damage.

18" to 72" Conveyor Belts, Safe for Mechanical Splices, Non-Segmented Blade

RBS Secondary Cleaner



Using metal-bladed technology, the RBS Secondary cleaner eliminates stubborn tack and slime sometimes 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

Saber Roller



The Arch Saber Roller puts a new spin on the conventional "beater roll" used in the industry for years. Using the proven Saber blade profile, this secondary cleaner will scrape the belt clean while providing the same vibratory action needed to remove excess material from the belt.

Perfect for belts that are cleated, textured, reversible, and/or in general poor condition.

SKIRTBOARD SEALING SYSTEMS

At-Last-A-Seal® Sealing System



At-Last-A-Seal® skirt seal takes 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. This solution 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 500 ft., 'Floating Seal', No Splices or Joints, Super Duty Applications

Talon Sealing System



The Talon Seal uses a unique design with multiple barriers to contain dust and fines to the belt. This 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.

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

Cam-A-Lot



Utilizing a cam action, the Cam-A-Lot Clamp System makes quick work of changing skirtboard rubber. 360 degree rotating clamp heads allow for a custom fit in an otherwise unusable space. Simple and easy weld on installation makes the Cam-A-Lot a hassle free solution to load zone sealing.

Manufactured in 5 foot sections, Will work with most existing seals (recommended to be paired with Arch Talon Seal).

Flexiskirt Sealing System



Flexiskirt sealing systems utilize directionally grooved rubber to force fines back into the bulk flow. Recommended for very dry, dusty materials, this 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 seal conforms 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

SECURE YOUR LOAD ZONES

Simplicity Slider System & Talon Sealing System

The Arch Simplicity Slider System creates a solid foundation for the belt to ride on. Not only does this provide a light impact resistance it also offers a flat surface for the Talon Seal to sit on the belt. This uniform belt position allows for a nice, tight seal! Better yet, the Talon Seal is designed to be used with many existing clamps, eliminating the replacement of more components! This strong pair will have your load zone cleaned up in no time with an easy install!



BELT SUPPORT SYSTEMS

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 are molded into a shock absorbing rubber and capped with low-friction UHMW, giving your belts a smooth ride out of the loading zone.

Custom Built to Fit Application, Steel Construction, Bolt-in-Place installation, Supports Length and Width of load zone

Simplicity Slider System



Load zones create problem areas, especially those that are unsupported. Arch's Simplicity Slider System fills in problematic gaps in the load zone. Slider Bar inserts allow the use of existing idler stands or can be replaced with new stands.

Custom Built to Fit Application, Drop-in Inserts replace wing rolls and allow for use of existing idler stands

BELT ALIGNMENT SYSTEMS

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

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

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

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.

CONVEYOR ACCESSORIES

V-Plow Angle Plow



V-Plow discharges material off both sides of the belt while the Angle Plow removes it to one side only. These solutions eliminate uneven buildup on the tail pulley that leads to belt misalignment.

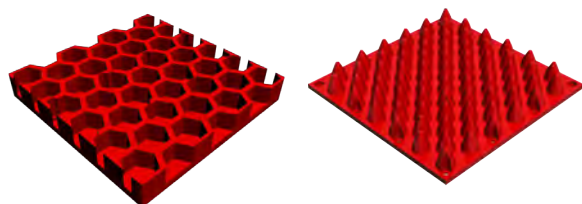
Standard blades for V-Plow are black rubber and red urethane for Angle Plow

Simplicity Access Doors



Simplicity Access Doors are constructed with a polyurethane lid that forms a natural, tight seal. Openings are available in 8" and 12". Corrosion resistant doors are easily bolted or welded to existing structure with optional adaptor plate. These allow easy access to conveyor for inspection without leaking.

Simplicity Chute Liners



Made of wear-resistant polyurethane, Arch's Simplicity Chute Liners outlast traditional steel liners. Simplicity Chute Liners allow material to build up on itself and provides a protective barrier for chutes and screens. These liners are available in two configurations (Honeycomb or Cone configurations) and feature an easy bolt on installation.

Simplicity Chute Baffles



Featuring double-layer wear-resistant polyurethane, Simplicity Chute Baffles trap and contain dust particles. The overlapping design provides double the protection against harmful fugitive dust.

Stop Escaping Dust, Customizable to Your Dimensions.

ARCHWEIGH BELT SCALES & INTEGRATORS

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)

NO assembly required, Bolt-in-Place Installation, Minimum Recalibration

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 mount directly to the idler, and provide reliable, 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 a force pushes down one end, that same force naturally lifts the other; any movement is cancelled out.

No assembly required, Bolt-in-Place Installation, Minimum Recalibration

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 and results in long term repeatability. In addition, you get a bolt-in-place scale carriage custom built for your application; not an unassembled box of parts.

Let us prove to you that we provide better service, easier installation, and superior belt scales.



Archweigh 1000 and 2000 Scale Integrator



Archweigh Integrators utilize 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. A 6" touch screen display guides the user through set-up and calibration, making the Archweigh system extremely user friendly.

Archweigh 1000 integrators are designed to be used in a single-scale application while the Archweigh 2000 Integrator can manage up to 6 scales.

BELT & PERSONAL PROTECTION

CTS 9000 Infrared Rip Detector



The CTS 9000 IRD 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 online 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

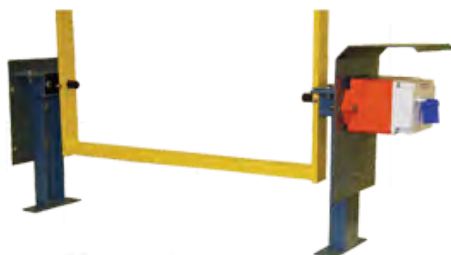
CTS 700 BTR Rip and Tear Detector



The CTS 700 BTR's two profiled arms connect to a 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

CTS 700 BL Belt Misalignment Detector



Arch's CTS 700 BL utilizes a mechanical delay to prevent trips from incidental misalignment. The switch features two upright arms connected to a rotary switch that will shut down a conveyor before damage is done. (Once activated, the switch must be manually reset)

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

CTS 700 RBL Return Belt Misalignment Detector



The CTS 700 RBL uses two downcast arms to detect misalignment of a return belt. 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. These arms are connected to an electrical switch via a glass-reinforced polycarbonate made coupling mechanism.

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

BELT & PERSONAL PROTECTION

CTS 100 Pull Cord Switch



The CTS 100 uses an electrical rotary switch, allowing personnel to trip it 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. Once the switch has been tripped, the Orange colored flag is in the “Up” position to alert maintenance personnel. It must then be manually reset in order to restart the conveyor.

Non-Hazardous Environments Only, Self-Wiping Rotary Switch, Lockable Switch

CTS 200L Pull Cord Switch with Trip Light



The CTS 200L uses an electrical rotary switch, allowing personnel to trip it 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. Once tripped, the Blue colored flag is in the “Up” position the light is illuminated (making it visible to maintenance personnel). It must then be manually reset in order to restart the conveyor.

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

CTS 300PSW Switch with Pre-Start Alarm



The CTS 300 PSW is a self-wiping rotary switch (not a micro-switch), and consists of two normally open and two normally closed contacts. Once the switch has been tripped, the Blue colored flag is in the “Up” position. The CTS 300 PSW also emits an “Audible” alarm sound before “Start Up” of the conveyor to warn maintenance personnel that the conveyor is about to start.

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

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 and a flashing strobe light.

Audio AND Visual Alarm, Heavy Duty Housing, Corrosion Proof

BELT & PERSONAL PROTECTION

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, tilting 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.

Polyurethane Construction, Encapsulated Probe, Adjustable Timer, Corrosion Resistant

CTS 700 OSU Belt Off Speed Monitor



The CTS 700 OSU uses a roller mounted underneath the troughing belt to detect belt movement. A pulse sensor is mounted on the roller structure and monitors the pulses in magnetic proximity mode.

Easy Setup, Zero Speed Monitor Also Available

EMT 50 Metal Detector



The EMT 50 has a 5 percent sensitivity level and can be tuned to ignore conductive or magnetic ores, such as magnetite or pyrite (even if they're carried by high-tension steel cord belts with rip detection loops). The EMT 50 will still detect small pieces of tramp metal. Its lightweight construction allows for easy assembly and installation, even as a flat-pack, under-belt style. (Available for nearly any belt width)

EMT 100 Metal Detector



Equipped with a 10 percent sensitivity level, the EMT 100 can detect both ferrous and non-ferrous metals. It can be used on belts containing metallic repair clips or splices with our optional clip detector. The aperture can be adjusted up to 23.5" to accommodate burden heights up to 19.5." The lightweight, flexible design also allows the detector aperture to be moved in the field. The EMT 100 is available for belt widths up to 48."



MISSION STATEMENT:

To provide the bulk material handling industry with high-quality, common-sense products that are personally supported and specifically designed with the user in mind.

Arch takes pride in providing customization, making sure that when you purchase an Arch product it fits your application with minimal installation time.

While it would be easier and more profitable to produce “one size fits all” equipment, that is not what we are about. Arch believes that providing total solutions begins with an order and continues through optimum daily performance. Our desire is to solve your conveyor problems in a way that saves your time, headaches, and money.



5929 Benton Rd.
P.O. Box 1760
Paducah, KY 42002-1760

P: 800.553.4567

F: 800.230.9462

info@archenv.com

www.archenv.com