BELT CLEANERS
Carryback Removal Solutions

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martin®
PROBLEM

CONSEQUENCES OF CARRYBACK

Carryback is material that sticks to the belt past the discharge point and then drops off along the conveyor’s return run.

*Without belt cleaners, material carryback causes...*

- Reduced operating efficiency and profitability through increased expenses for maintenance, cleanup and the loss of material
- Material buildup on rolling components leading to seized idlers, wandering belts and increased power consumption
- Lower plant morale as employees sense the “I don’t care if it’s dirty” attitude
- Unsafe working conditions caused by material accumulation on floors and walkways, creating fire hazards and slip/trip hazards
- Health hazards and environmental concerns created by airborne material
- Unfavorable attention from neighbors and regulatory agencies
SOLVED!
CARRYBACK REMOVAL SOLUTION

Belt cleaner systems from Martin Engineering make conveyor systems cleaner, safer and more productive.

*With belt cleaners, minimalized carryback results in...*

- Improved maintenance planning and conveyor availability as emergency outages, unscheduled downtime and “hurry-up” repairs are reduced
- Reduced maintenance expenses by lower labor costs for fewer and faster service procedures
- Improved manpower utilization by fewer belt-tracking and material-cleanup chores
- Maximized equipment life by fewer replacements of prematurely worn components damaged by fugitive material and buildup
- Improved working conditions, plant safety and morale by better housekeeping
- Improved community relations and regulatory compliance by reducing environmental pollution
MARTIN PRIMARY CLEANERS

As the first stage in a multiple cleaner system, the primary cleaner removes the majority of material adhered to the belt, leaving only a thin layer of sticky fines.

Primary cleaners are generally tensioned at low pressure—roughly 2 psi (13.8 kPa)—against the belt. Low blade-to-belt pressure allows the primary cleaner to be positioned at a peeling angle against the belt. The use of higher pressure at this angle would endanger the belt, splice or cleaner itself.

Primary cleaners are typically installed on the face of the head pulley, just below the material trajectory. The cleaner should be constructed to avoid material buildup and installed so that it is out of the material.

SELECTION GUIDE

REQUIRED DATA

- Belt width
- Head pulley diameter
- Belt speed
- Material characteristics
- Application temperature

SELECTION PROCESS

1. Identify the specifications for your conveyor.
2. Use your conveyor’s specifications for belt width and pulley diameter to select a primary cleaner in the Primary Cleaner Sizing Chart on the next page.
3. Check your selection against the recommended maximum belt speeds in the Primary Cleaner Scale Chart on the next page.
4. Use material characteristics and application temperature to identify the appropriate urethane blade in the chart on page 6.
<table>
<thead>
<tr>
<th>Belt Width in. (mm)</th>
<th>Head Pulley Diameter—in. (mm)</th>
<th>7-10 (180-250)</th>
<th>12-16 (300-400)</th>
<th>18-22 (450-560)</th>
<th>24-30 (600-760)</th>
<th>32-38 (810-970)</th>
<th>40-46 (1010-1170)</th>
<th>48+ (1220+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>(300-400)</td>
<td>1</td>
<td>2</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>18</td>
<td>(400-500)</td>
<td>1</td>
<td>2</td>
<td>3 or 4</td>
<td>5 or 6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>24</td>
<td>(500-650)</td>
<td>1</td>
<td>2</td>
<td>3 or 4</td>
<td>5 or 6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>30</td>
<td>(650-800)</td>
<td>1</td>
<td>2</td>
<td>3 or 4</td>
<td>5 or 6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>36</td>
<td>(800-1000)</td>
<td>1</td>
<td>2</td>
<td>3 or 4</td>
<td>5 or 6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>42</td>
<td>(1000-1200)</td>
<td>N/A</td>
<td>2</td>
<td>3 or 4</td>
<td>5 or 6</td>
<td>7</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>48</td>
<td>(1200-1400)</td>
<td>N/A</td>
<td>2</td>
<td>3 or 4</td>
<td>5 or 6</td>
<td>7</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>54</td>
<td>(1400-1600)</td>
<td>N/A</td>
<td>2</td>
<td>3 or 4</td>
<td>5 or 6</td>
<td>7</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>60</td>
<td>(1600-1800)</td>
<td>N/A</td>
<td>2</td>
<td>3 or 4</td>
<td>5 or 6</td>
<td>7</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>72</td>
<td>(1800-2000)</td>
<td>N/A</td>
<td>2</td>
<td>3 or 4</td>
<td>5 or 6</td>
<td>7</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>84</td>
<td>(2000-2200)</td>
<td>N/A</td>
<td>3 or 4</td>
<td>3 or 4</td>
<td>5 or 6</td>
<td>7</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>96</td>
<td>(2200-2400)</td>
<td>N/A</td>
<td>3 or 4</td>
<td>3 or 4</td>
<td>5 or 6</td>
<td>7</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>108</td>
<td>(2600-2800)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>7</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>120</td>
<td>(2800-3000)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>7</td>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

1 = Compact Cleaner  
2 = QB1™ PV Cleaner  
3 = QC1™ Cleaner PD  
4 = QB1™ Cleaner HD  
5 = QC1™ Cleaner HD Max  
6 = QC1™ Cleaner XHD  
7 = SHD 600 Series Cleaner  
8 = SHD 1200 Series Cleaner

Please note: Stainless steel mainframes and tensioners are available for corrosive environments. “Safe to Service” cleaners available for primary or secondary.

PRIMARY CLEANER SCALE & BELT SPEEDS

Maximum Belt Speed by Categories: fpm (m/sec)

<table>
<thead>
<tr>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

In instances of conflict between size and speed, choose the larger size.
PATENTED CARP CLEANER BLADES

Martin belt cleaner blades come in a large array of shapes, sizes and materials to most effectively remove any type of material carryback while protecting the belt and its splices.

Martin’s patented Constant-Angle/Constant-Area Radial Pressure (CARP) blade design maintains consistent cleaning through all stages of blade wear.

HIGH-PERFORMANCE URETHANES®

Martin Engineering is the worldwide leader in the development of high-performance urethanes for specialized applications. Available for any Martin primary and secondary cleaners, as well as any primary cleaner supplied by another manufacturer.

<table>
<thead>
<tr>
<th>Color</th>
<th>Application Description</th>
<th>Typical Materials</th>
<th>Temp. Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange (OR)</td>
<td><strong>Standard Martin Urethane</strong> is suitable for most applications, including abrasive conditions and exposure to solvents or oil.</td>
<td>Bauxite, coke, coal, refuse, steel/ore, etc.</td>
<td>–20° to 160°F</td>
</tr>
<tr>
<td>Brown (BR)</td>
<td><strong>Chemical-Resistant Urethane</strong> provides improved resistance to chemicals and reduced water absorption in high-moisture environments.</td>
<td>Limestone</td>
<td>–40° to 160°F</td>
</tr>
<tr>
<td>Green (GR)</td>
<td><strong>High-Temperature Urethane</strong> withstands exposure to intermittent temperatures of up to 350°F.</td>
<td>Clinker</td>
<td>–40° to 300°F</td>
</tr>
<tr>
<td>Tan (CL)</td>
<td><strong>Low-Rigidity Urethane</strong> is ideal for dry products such as sand and gravel.</td>
<td>Gravel, dry sand</td>
<td>–20° to 160°F</td>
</tr>
<tr>
<td>Navy Blue (NB)</td>
<td><strong>Low-Adhesion Urethane</strong> is ideal for sticky or tacky materials.</td>
<td>Cement, glass, wood chips</td>
<td>–20° to 160°F</td>
</tr>
<tr>
<td>Yellow (CY)</td>
<td><strong>Ceramic Bead</strong> is ideal for aggressive applications</td>
<td>Cement, glass, wood chips</td>
<td>–40° to 160°F</td>
</tr>
</tbody>
</table>
MARTIN QC BLADE REPLACEMENT

One-pin blade replacement makes belt cleaner blade replacement an easy, one-minute, no-tool operation performed from outside of the chute. Simply (1) remove the R-clip and (2) slide the hitch pin out of the mainframe extrusion to (3) release the blade.

1. Remove the R-clip.
2. Slide the hitch pin out.
3. Release the blade.

MARTIN QC1 BLADE OPTIONS

Segments only
XX10
(for crowned head pulleys)

No segments
XX11
CLEANSCRAPE® CLEANER
The CleanScrape Cleaner lasts up to four times as long as traditional belt cleaners. Safe for use on mechanical and vulcanized splices, this metal-tipped cleaner provides aggressive cleaning without compromising your belt. Requiring minimal ongoing maintenance, CleanScrape needs only one tensioner adjustment—EVER. Installed at an angle, very little space for installation is required.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Cleaner Type</th>
<th>Pulley Diameter in. (mm)</th>
<th>Belt Width in. (mm)</th>
<th>Maximum Belt Speed fpm (m/sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
<td>Max.</td>
<td>18–48 (457–1219)</td>
</tr>
<tr>
<td>CSP-S</td>
<td>12</td>
<td>20</td>
<td>(300)</td>
</tr>
<tr>
<td>CSP-M</td>
<td>22</td>
<td>34</td>
<td>(550)</td>
</tr>
<tr>
<td>CSP-L</td>
<td>36</td>
<td>50</td>
<td>(900)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum Belt Speed m/sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vulcanized Splice</td>
</tr>
</tbody>
</table>

### CARBIDE BLADE SELECTION

<table>
<thead>
<tr>
<th>Carbide Selection</th>
<th>Application Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TU01</td>
<td>Suitable for less abrasive materials and low belt speeds. Applicable with mechanical belt splices.</td>
</tr>
<tr>
<td>TU02</td>
<td>Suitable for moderately abrasive materials and medium belt speeds. Applicable with mechanical belt splices.</td>
</tr>
<tr>
<td>TU03</td>
<td>Suitable for highly abrasive materials and high belt speeds. Do not use with mechanical belt splices.</td>
</tr>
<tr>
<td>TU04</td>
<td>Suitable for extremely abrasive materials and highest belt speeds. Do not use with mechanical belt splices.</td>
</tr>
<tr>
<td>TU05</td>
<td>Suitable for conditions similar to TU01 and TU02 with chemical resistance. Applicable with mechanical belt splices.</td>
</tr>
</tbody>
</table>

**Typical Materials**

- Limestone, Salt, Sugar, Coal
- Gravel, Clinker, Sandstone
- Sand, Glass, Ore
- Quartz Sand, Glass Ash, Ore
**MARTIN COMPACT CLEANER**
Fits in spaces with as little as 6.75 inches of clearance on pulleys as small as 7 inches in diameter.

Blades are available in high-performance urethane colors to match application requirements.

Patented “CARP” blade design maintains cleaning performance through all stages of blade life. To replace worn blade, slide new blade onto square tube mainframe. Supplied with internal spring tensioner.

**MARTIN PV QB1 CLEANER**
Same ease of installation as the current Martin QC1 Cleaners, maintaining standard installation and service costs.

Utilizes Martin’s highly effective patented “CARP” profile, ensuring the highest level of performance.

Utilizes Martin’s innovative EVO® design principles to reduce component surface exposure to material flow, minimizing material build-up and the resulting clean-up costs, production interruptions and safety concerns.

**MARTIN QC1+™ CLEANER**
Sturdy mainframe—2.875 in OD Schedule 80 steel pipe stands up to rugged conditions, large pulleys and heavy material loads.

The high-volume “CARP” blade features 20 percent more urethane than competitive cleaners. Durable and rugged spring tensioner maintains cleaning pressure, yet allows easy re-tensioning with minimal downtime.

Saves money at purchase by reducing the need for maintenance and blade replacements.

⚡️ Product can be powered by Martin Roll Gen System

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MARTIN QB1™ CLEANER HD
Same ease of installation as current Martin QC1 Cleaners, maintaining standard installation and service costs. Utilizes Martin’s highly effective, patented “CARP” profile, ensuring the highest level of cleaning performance expected from a Martin Belt Cleaner.

Utilizes Martin’s innovative EVO® design principles to reduce component surface exposure to material flow, minimizing material build-up and the resulting clean-up costs, production interruptions and safety concerns.

- Direct retrofit to current installations; no need for new holes or cutting head chutes
- Direct retrofit to other manufacturer's frames
- Aluminum, steel or stainless steel component options available

MARTIN QC1™ CLEANER HD MAX
Unique blade profile means the blade maintains the most efficient cleaning angle across the extended wear life.

Mainframe of rugged 3/8-in. thick DOM steel tubing has steel bar backbone. Aluminum extrusion in blade base holds cleaner snuggly to backbone.

Durable and rugged Martin Spring Tensioner XHD maintains cleaning pressure.

⚡ Product can be powered by Martin Roll Gen System
CARP Blade

Also Available with Air Tensioner

Economical cleaner and tensioner system combines effective cleaning, durable life and low-maintenance requirements. Available with either a Martin Spring Tensioner HD STS or a Martin Air Tensioner HD STS to maintain proper cleaning pressure while minimizing the need for adjustment.

MARTIN QC1+™ CLEANER HD & XHD STS
Designed to allow for all service to take place safely outside of the chute, eliminating the need for confined space permit while preventing injuries and keeping workers from harm’s way.

The one-pin blade replacement makes service fast and easy. Patented “CARP” design maintains cleaning performance through all stages of blade life.

MARTIN QC1+™ CLEANER XHD
Engineered to preserve the cleaning edge from high belt speeds and multiple splices.

Patented “CARP” blade design maintains cleaning performance through all stages of blade life. Mainframe of rugged 3/8-in. DOM steel tubing has a steel bar backbone.

An aluminum extrusion in the belt cleaner blade base holds the cleaner snugly to the backbone.

MARTIN SHD 600 & 1200 SERIES CLEANERS
Structural steel means no more bent mainframes, even with high tonnages and large lumps.

Massive urethane blades provide up to 12 inches of wear life.

Martin SHD Cleaner and tensioner are designed together for effective cleaning and reduced service requirements.

Patented “CARP” blade design maintains cleaning performance through all stages of blade life.

Product can be powered by Martin Roll Gen System
MARTIN SECONDARY CLEANERS

Installed at the point where the belt is leaving the discharge pulley, secondary cleaners remove residual fines that remain on the belt past the primary cleaner. Its location is typically close enough to the material trajectory that the cleanings will return to the main material stream.

Tertiary cleaners can be installed to provide final cleaning. These cleaners can be the same model as the secondary cleaner, or of a different design to allow efficient cleaning and maintenance within the available space.

As these cleaners are typically installed away from the pulley, they should be placed at or near a point where the belt is against a roller. Firm support prevents the cleaning pressure from raising the belt line and reducing cleaning efficiency.

SELECTION GUIDE

1. Check your conveyor's belt speed against the specifications listed for the secondary cleaners in the table below.

2. If your belt features multiple mechanical splices, or a mechanical splice in poor condition, avoid using tungsten carbide blades as rapid wear or damage to both the blade and splice may result.

APPLICATION SPECIFICATIONS

<table>
<thead>
<tr>
<th>Belt Cleaner</th>
<th>Max Belt Speed fpm (m/sec)</th>
<th>Handles Reversing Belts &amp; Rollback</th>
<th>Available Blade Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mild Steel</td>
</tr>
<tr>
<td>DT2S Reversing Cleaner</td>
<td>900 (3.5)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>SQC2S™ Cleaner</td>
<td>1000 (5.1)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>SQC2 RM™ Cleaner</td>
<td>800 (5.1)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>SQC2S™ Cleaner STS</td>
<td>1000 (5.1)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>DT2H Inline Cleaner XHD</td>
<td>1200 (6.1)</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Please note: Stainless steel mainframes and tensioners are available for corrosive environments.
MARTIN DT2S REVERSING CLEANER
Slide-in/slide-out belt cleaner blade cartridge allows quick and easy blade service that minimizes conveyor downtime. Even when the cleaner is encrusted with material, one-half of the split frame can be removed to allow blade change.

Effective belt cleaning reduces plant cleanup chores and prolongs life of conveying equipment.
Can be installed on conveyors that roll back or run in two directions with proper blade selection.
Lean profile minimizes space requirements, allows installation in spaces as narrow as seven inches.

MARTIN DT2H REVERSING CLEANER XHD
Reduces plant cleanup chores and prolongs the life of conveyor components. Mandrel allows quick-and-easy belt cleaner blade replacement to increase conveyor availability.
Individual belt cleaner blade segments slide into sturdy track-forming cartridge. This cartridge slides over stainless steel mainframe into cleaning position.
The split-track cartridge design allows simple belt cleaner blade removal even with material accumulation.

MARTIN SQC2S™ CLEANER
Rugged construction withstands harsh applications like high-speed belts and high-tonnage loads.
Compact design allows installation in close quarters; narrow profile resists material buildup. Blade replacement is simple: remove the pin, slide the cartridge out, service and return.
SQC2S™ Cleaner cartridge comes with different blade options to suit your application.

⚡ Product can be powered by Martin Roll Gen System

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MARTIN SQC2™ RM BLADES
Rugged construction withstands harsh applications like high-speed belts and high-tonnage loads. Reduced height resists material buildup. Blade replacement is simple: remove the pin, slide the cartridge out, service and return.

SQC2™ RM Cleaner cartridge comes with different blade options to suit your application.

SAF BLADES
Light “touch” of resilient three-inch wide (75 mm) urethane blades reduces risk of damage, even on belts with multiple fasteners, rips or longitudinal splices or rollback. As cleaning edge wears, the urethane blades self-adjust to maintain effective cleaning.

Cartridge mounting provides easy removal of blades from mainframe. Pry out worn blades with a screwdriver and snap new blades into place.

RUBBER BUFFER
Patented rubber buffers maintain cleaning pressure while deflecting to allow for splices to pass and for reversal of belt direction without damage.

CHEVRON BLADES
Rubber or urethane chevron blades effectively remove carryback while gently stepping over ribs, chevrons, and cleats.
**SQC2STM CLEANER STS**

Designed for safety, this cleaner helps prevent injuries and keep workers from harm’s way during service. This safe-to-service cleaner allows for all service to take place from one side of the conveyor, avoiding the need for confined space entry. Blade replacement and maintenance is quick and easy:

- Disengage tensioner
- Pull blade cartridge outside of the conveyor
- Remove quick release pin & blade cartridge
- Replace blade
- Push cartridge back into position
- Engage the tensioner

**MARTIN H2O CLEANER**

Martin H2O Cleaner squeegees the belt to remove dirt and moisture. Suited for medium-duty applications, on 18- to 96-inch belts operating at speeds up to 750 fpm (3.8 m/sec).

Comes with the option of a spray nozzle to apply water to the belt to further improve cleaning efficiency. Tensioners also available.

**PRESSURE ROLLER & BRACKETS**

The Martin Pressure Roller Bracket stabilizes the conveyor belt, providing proper pressure for multiple conveyor belt scraper installations or where space limitations prevent installation on head pulley.

Compatible with DH2, SQC2, QC2, SAF, H2O and Reversing Cleaners.
MARTIN FOOD GRADE CLEANER
Mounts on the face of the head pulley to reclaim material into the product stream.
Engineered to fit the conveyor specifications and belt cleaning requirements of the food processing and packaging industries.
Modular belt cleaner blades on stainless steel mainframes. Supplied with internal spring tensioner.

MARTIN BRUSH CLEANER
One or two-horsepower motor (depending on belt width) turns brush against belt motion. Spiral Brush Cleaner uses 0.38 inch polypropylene bristles wrapped in a spiral around the hub.
Strip Brush Cleaner uses 12 brush strips that sheds even moist material that would plug other brushes. Strips are made with 0.40 inch polypropylene bristles.

MARTIN HIGH TEMPERATURE CLEANER
All-steel construction allows the Martin High Temperature Cleaner to withstand high temperatures up to 600°F.
Overlapping stainless steel or tungsten carbide blades on coil spring arms provide effective cleaning.
MARTIN CHEVRON CLEANER
Incorporates arms with blades offset at a 30° angle to allow the edge to ripple over belt cleats.
Use the Chevron Cleaner where stringy material like vines, wire or bark can catch on conventional cleaner arms.

MARTIN WASHBOX™ CLEANING SYSTEM
Consists of a powder-coated steel enclosure equipped with 3 rollers, 4 spray bars, 4 inspection doors and 2 secondary cleaners.
Rather than “blast” material from the belt, the water softens the carryback.
The installation of a primary cleaner on the face of the head pulley is recommended.

MARTIN CARRYBACK CAPTURE SYSTEM
Allows for the addition of secondary and tertiary cleaners outside the head chute and returns removed carryback to the cargo stream.
Reduce worker risks and cleanup costs by moving carryback away from moving parts and confined spaces.
Modular construction increases portability and makes installation easy in any unique or confined spaces; system requires only 13 inches of clearance for easy installation in tight spaces.
Minimal moving parts increase reliability and minimize opportunities for breakdowns.

⚡ Product can be powered by Martin Roll Gen System
MARTIN TWIST™ TENSIONER
The Martin Twist Tensioner can be used on either primary cleaners or secondary cleaners.

Rubber element maintains cleaning pressure with minimal belt cleaner re-tensioning required.

Tensioner allows mechanical splices to pass without damage. If blades pull through, the tensioner’s coupling rolls over, releasing pressure and reducing the risk of harm to personnel or equipment. Light aluminum housing and the fully enclosed design keeps the tensioner mechanism clean.

MARTIN SPRING & AIR TENSIONERS

MARTIN SPRING TENSIONERS maintain efficient belt cleaning with a rugged coil spring.

MARTIN SPRING TENSIONER XHD Provides effective cleaning pressure, yet cushions splice shock to prevent damage. Provides effective tension for heavy-duty belt cleaners and stands up to tough conditions.

MARTIN AIR TENSIONERS use the resilience of an air spring to cushion impact.

AIR TENSIONER CONTROL BOX
Safe and effective regulating of air pressure to air tensioning systems. Unit maintains the proper blade-to-belt cleaning pressure for primary and secondary belt cleaners.

Effective control of single-acting cylinders or airbag belt cleaner tensioning systems.
MARTIN ROLL GEN™ SYSTEM
Self-contained, mini 24-Volt DC power station that generates enough power to run a wide variety of electronic systems:

- Compressor for Air Tensioner
- Activation of Water Supply to Wash Box Belt Cleaning System
- Initiation of Spray Bars
- Firing of an Air Cannon
- LED Lighting

Reversing Tracker Switching Mechanism Martin Roll Gen System* consists of:

Martin Roll Generator (3-year warranty) coupled with either:

- Martin Roll Gen Power Supply
- Martin Roll Gen Continuous Power Supply

MARTIN VIBRATING Dribble chute
Keep material accumulations from clogging chute and burying cleaners.

Low-friction plastic lining promotes material flow without accumulation.

Rubber-lined bracket transfers vibration to liner without metal fatigue.

Electric vibrator provides durable performance.

MARTIN INSPECTION DOOR
Latch handle folds down, so door stands only 2.25 inches high. With handle standing, door is 4.1 inches high.

Suitable for service temperatures up to 400° F continuous or 450° F intermittent.

Also available with integral guard screen.

*Mounted on Trac-Mount™ Idler Frame. Depending on your existing setup,
Martin offers replacement blades for all Martin belt cleaners as well as systems from any manufacturer.

**FEATURES AND BENEFITS**

- Effectively eliminate material carryback
- Reduce lost material
- Decrease maintenance hours and expenses
- Fewer blade changes means less downtime
- Best price per performance of ANY blade on the market
- All Martin Primary Blades utilize our patented CARP (Constant Angle Radial Pressure) profile, ensuring consistent cleaning across all stages of blade life.

“Containing 20% more urethane in the wearable area than competitive blades Martin blades clean better and last longer!”

**REPLACEMENT BLADES**

- **Martin QC1™ Cleaner HD Replacement Blade**
- **Martin PV Cleaner Replacement Blade**
- **Martin QB1™ Cleaner HD Replacement Blade**
- **Martin PV QB1 Cleaner Replacement Blade**
20% MORE URETHANE!

American Eagle® E4 Series Primary Cleaner

American Eagle® E5 Series Primary Cleaner

ASGCO® Skalper® Primary Cleaner

Flexco® EZP1 Rockline® Primary Cleaner

Flexco® MMP Primary Cleaner

Argonics™ Eraser Primary Cleaner

BENETECH® BEP1 Primary Cleaner

ARCH Saber® (SB) Primary Cleaner

ARCH Saber® (SCM) Primary Cleaner

SUPERIOR Exterra® Primary Cleaner

airmatic.com | 215.333.5600 | infocenter@airmatic.com
<table>
<thead>
<tr>
<th>MARTIN® CLEANSCRAPE® CLEANER</th>
<th>MARTIN® QC1™ CLEANER HD MAX</th>
<th>MARTIN® COMPACT CLEANER</th>
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<tbody>
<tr>
<td>Assembly P/N</td>
<td>CSP-X</td>
<td>Assembly P/N</td>
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<tr>
<td>Carbide Selection</td>
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<tr>
<td>Technical Data Sheet P/N</td>
<td>L4040</td>
<td>Technical Data Sheet P/N</td>
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<tr>
<td>Maximum Belt Speed</td>
<td>1500 fpm</td>
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<tr>
<td>Belt Width</td>
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<td>Maximum Belt Width</td>
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<tr>
<td>Pulley Diameter</td>
<td>12-30 in.</td>
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<thead>
<tr>
<th>MARTIN® Q81™ CLEANER HD</th>
<th>MARTIN® QC1™ CLEANER XHD</th>
<th>MARTIN® PV QB1 CLEANER</th>
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<tr>
<td>Assembly P/N</td>
<td>39346</td>
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<tr>
<td>Blade P/N</td>
<td>39344</td>
<td>Blade P/N</td>
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<td>Technical Data Sheet P/N</td>
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<td>Maximum Belt Speed</td>
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<td>Maximum Belt Width</td>
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<tr>
<th>MARTIN® QC1™ CLEANER PD</th>
<th>MARTIN® QC1™ CLEANER XHD STS</th>
<th>MARTIN® SHD 600 &amp; 1200 SERIES CLEANERS</th>
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<tr>
<td>Assembly P/N</td>
<td>38556</td>
<td>Assembly P/N</td>
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<tr>
<td>Blade P/N</td>
<td>35381</td>
<td>STS Tensioner</td>
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<td>Technical Data Sheet P/N</td>
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<td>Technical Data Sheet P/N</td>
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<td>Maximum Belt Width</td>
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<td>Belt Width</td>
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<tr>
<td>Pulley Diameter</td>
<td>16-22 in.</td>
<td>Pulley Diameter</td>
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<tr>
<th>SECONDARY CLEANERS</th>
<th>MARTIN® QC1™ CLEANER XHD STS</th>
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<tr>
<td>MARTIN® DT2S REVERSING CLEANER</td>
<td>MARTIN® QC1™ CLEANER XHD STS</td>
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<td>DT2SC</td>
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<td>Air Tensioner P/N</td>
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<thead>
<tr>
<th>MARTIN® SQC2S CLEANER</th>
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<tbody>
<tr>
<td>Assembly P/N</td>
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<tr>
<td>SQC2S® Blade P/N</td>
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<td>SAF-2¨ Blade P/N</td>
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<td>Rubber Buffer</td>
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<td>Cartridge P/N</td>
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<tr>
<td>Sq. Mainframe Tensioner</td>
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<tr>
<th>MARTIN® H2O CLEANER</th>
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<tr>
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<tr>
<td>Belt Width</td>
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MARTIN® FOOD GRADE CLEANER

- Primary Assembly P/N 33035
- Internal Spring Tensioner P/N 33036
- Secondary Assembly P/N 31369
- Food Grade Air Tensioner P/N 31348
- Food Grade Hub Mount Tensioner P/N 31368
- Technical Data Sheet P/N L3370-08
- Maximum Belt Speed: 350 fpm
- Belt Width: 4-48 in.

MARTIN® BRUSH CLEANER

- Strip Assembly P/N 35331
- Spiral Brush Assembly P/N 32875
- Spiral Polypropylene Brush P/N 28898
- Spiral Nylon Brush P/N 28560
- Strip Brush with Hubs P/N 35327
- Brush Strips (Set of 12) P/N 35329
- Technical Data Sheet P/N L3431
- Maximum Belt Speed: —
- Belt Width: 18-72 in.

MARTIN® CHEVRON CLEANER

- Torsion Arm Assembly P/N 36881
- Inline Assembly P/N 33705
- Technical Data Sheet P/N L3370-11
- Maximum Belt Speed: 500 fpm
- Belt Width: 18-96 in.

MARTIN® WASHBOX CLEANING SYSTEM

- Dual Belt Cleaner Assembly P/N WBPXX
- Single Belt Cleaner Assembly P/N WBSCPXX
- Technical Data Sheet P/N L3780
- Maximum Belt Speed: 750 fpm
- Belt Width: 18-84 in.

MARTIN® HIGH TEMPERATURE CLEANER

- Assembly P/N 21042
- Tungsten Carbide Blade P/N 27924
- Stainless Steel Blade P/N 16960
- Technical Data Sheet P/N L3370-12
- Maximum Belt Speed: 750 fpm
- Belt Width: 18-96 in.
- Maximum Service Temperature: 600° F

TENSIONERS

MARTIN® TWIST™ TENSIONER

- Single Tensioner P/N 38850-0X
- Dual Tensioner P/N 38850-2X
- Technical Data Sheet P/N L3839

MARTIN® REVERSING MOUNT SPRING TENSIONER

- Reversing Mount Tensioner P/N 33599
- Reversing Cleaner Z Bracket P/N 31158-01
- Reversing Hanger Mount Assembly P/N 33288
- Belt Width: 18-96 in.
- Technical Data Sheet P/N L3370-16

MARTIN® SPRING TENSIONER STANDARD

- Tensioner P/N 38180
- Belt Width: 18-48 in.
- Technical Data Sheet P/N L3370-16

MARTIN® AIR TENSIONERS

- Control Box P/N 36489
- XHD Air Tensioner P/N 32135
- Std./HD Air Tensioner P/N 37843
- Std./HD Air Control Kit P/N 31772-AS
- Control Panel w/CO2 P/N 38491-2
- XHD Air Control Kit P/N 32181

MARTIN® MOUNTING BRACKETS

- L Bracket P/N 33706
- Flange Mount Bracket P/N 30537
- Hanger Mount Assembly P/N 27382
- Reversing Hanger Mount Assembly P/N 33288
- Heavy Duty Hanger Mount Assembly P/N 34233-HD
- Technical Data Sheet P/N L3370-16

MARTIN® ADJUSTABLE L BRACKET SPRING TENSIONER

- Tensioner P/N 31291-SM
- Belt Width: 18-54 in.
- Technical Data Sheet P/N L3370-16

MARTIN® SHOCK MOUNT

MARTIN® SPRING TENSIONER XHD

- Tensioner P/N 38003
- Belt Width: 18-48 in.
- Technical Data Sheet P/N L3370-16

MARTIN® PRESSURE ROLLER BRACKET

- Brackets Pair w/Roller for DH2 P/N 32290-XXXX
- Brackets Pair w/o Roller P/N 32290-XX
- Bracket Assembly for SAF2™ & SQC2S™ P/N 34542-XX
- Bracket Assembly for O2, H2O & DT2 P/N 37954-XXXX
- Technical Data Sheet P/N L3370-15

MARTIN® VIBRATING DRIBBLE CHUTE

- Vibrating Dribble Chute P/N 31546
- w/Overload Protection P/N 31546-OL
- Dribble Sheet Liner P/N 31494XXXXXX
- Technical Data Sheet P/N L3370-14

MARTIN® ROLL GEN™ SYSTEM

- Roll Generator P/N RG1-010-XPX
- Roll Gen™ Power Supply P/N 39413
- Roll Gen™ Continuous Power Supply contact for specs

ACCESSORIES

MARTIN® INSPECTION DOORS

- Steel Door P/N CYA-XXXX
- Rubber Door P/N CYAR-XXXX
- Extended-Height Steel Door P/N CYAE-XXXX
- Round Steel Door P/N CYARD-XXXX
- Technical Data Sheet P/N L3432

MARTIN® PRESSURE ROLLER BRACKET

- Brackets Pair w/Roller for DH2 P/N 32290-XXXX
- Brackets Pair w/o Roller P/N 32290-XX
- Bracket Assembly for SAF2™ & SQC2S™ P/N 34542-XX
- Bracket Assembly for O2, H2O & DT2 P/N 37954-XXXX
- Technical Data Sheet P/N L3370-15

MARTIN® CARRYBACK CAPTURE SYSTEM

- Carryback Capture System P/N CCSXXXXXX
- Belt Width: 24-72 in.
- Technical Data Sheet P/N L3806
AIRMATIC founded in 1944, is a woman-owned Industrial Distributor, with installation and maintenance capabilities, offering equipment, machinery, and shop supplies to the Industrial, Construction, Utility, Government, and Commercial Markets. Our products and services are sold through three business units:

The MATERIALS MANAGEMENT GROUP provides products and services to industries that convey, store, transport, and process powders and bulk solids from aggregates, cement, and chemicals to foods, grains, metals, power generation, and waste water treatment applications;

The SERVICE GROUP provides fabrication, installation, and maintenance services to improve bulk materials handling efficiency; mechanical clean-out services for silos and hoppers to eliminate material flow problems; and shop repair/rebuilding and modifications services of products sold by the Company.

The TOOL GROUP provides power tools, personal protective equipment, materials-handling equipment, shop equipment and MRO supplies used for production, fabrication, assembly, metal removal, maintenance, and storage in manufacturing, construction, utility, and commercial applications. Our Customers tell us that by choosing AIRMATIC to solve their problems, they gain increased productivity, decreased costs, and a safer, cleaner work environment.

MARTIN ENGINEERING is the leading global supplier of system to make the handling of bulk materials cleaner, safer, and more productive. Since its founding in 1944, the company has grown dramatically through the development of solutions to help the solids-handling industries around the world. MARTIN ENGINEERING’s success can be attributed to the development of practical, field-proven, cost-effective answers for "real life" problems. MARTIN Products are designed for tough industrial conditions; they are built to allow easy maintenance; they are engineered for simplicity, cleanliness, safety, and efficiency; they are personalized to meet each customer’s unique requirements.