

SOLUTIONS made SIMPLE

A newsletter published
by ACT to help make your
material handling SAFER,
CLEANER, &
MORE PRODUCTIVE.

BELT CLEANER ESSENTIALS

ACT is an official distributor of the world's leading developer and manufacturer of engineered conveyor belt cleaning and conveyor belt scraping systems, Martin Engineering. Martin has developed fundamental principles of belt cleaner / belt scraper design that have set standards for belt cleaner / belt scraper engineering and performance.

Generally, the philosophy for belt cleaners / belt scrapers applications are:

- * As far forward (as close to the conveyor discharge) as possible.
- * Positioned out of the material flow.
- * Designed to minimize risk to belt, splice, and cleaner itself.
- * Designed to stand up to "worst case" conditions.
- * Designed for ease of maintenance, including simple blade replacement and reduced frequency of Re-tensioning.

To provide effective cleaning, Multiple Cleaning Systems, consist of:

- * Pre-Cleaner Installed on the face of the head pulley below the discharge trajectory, this cleaner uses low pressure to remove approximately 75 to 90 percent of the residual material.
- * Secondary Cleaners installed at the point where the belt leaves the head (discharge) pulley, or further along the return where space permits, these systems remove the remaining material.



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PRE-CLEANERS



Installed on the face of the discharge pulley below the material trajectory, Pre-Cleaners remove carryback with firm but gentle pressure.

Pre-Cleaners remove the majority of carryback, leaving only fines and slime for the follow-up secondary cleaning systems. This multiplecleaner system provides effective cleaning without becoming overwhelmed by an onslaught of material.

ACT offers pre-cleaners in a variety of color-coded high-performance urethanes to provide the best solution for challenging application requirements.

SECONDARY CLEANERS



Secondary Cleaners provide the final precision cleaning to remove the carryback that has passed the pre-cleaners.

Depending on material and conditions, some applications may require more than one secondary cleaner, or even the installation of tertiary cleaning systems to remove the remaining fines and water from the belt.

One or more secondary cleaners should be installed at the point where the conveyor belt is leaving the head pulley. If that point is inaccessible, the cleaners should be moved further along the conveyor return, to a point where the belt is firmly supported against a roller to allow the application of firm cleaning

To order your belt cleaner today,
call ACT @ 1-888-480-0680

URETHANE SELECTION



Martin Engineering is the leader in the development of high-performance urethanes for specialized belt cleaner / belt scraper applications. These color-coded urethanes can be supplied in blades for any MARTIN® Pre-Cleaner, as well as any pre-cleaner supplied by another manufacturer. To specify your belt cleaner urethane, add the appropriate suffix (shown below in parentheses) to the part number of the belt cleaner / belt scraper assembly or replacement blade.

(New) Teal Urethane

Specially formulated for use as a squeegee blade on MARTIN® ORION BELT CLEANING SYSTEMS® ORION H2O-4000 Water Cleaner. (Not available in Pre-Cleaner Blades.)
CONTINUOUS TEMPERATURE: -20° to 160° F (-40° to 70° C)

(GR) Green High-Temperature Urethane

For exposure to intermittent temperatures up to 350°F (177°C).
TYPICAL MATERIALS: Clinker.
CONTINUOUS TEMPERATURE: -40° to 300°F (-40° to 150°C)

(BR) Brown Chemical-Resistant Urethane

Improved resistance to chemicals; reduced absorption of water in high-moisture environments.
TYPICAL MATERIALS: Limestone.
CONTINUOUS TEMPERATURE: -40° to 160°F (-40° to 70°C)

(OR) Orange Standard MARTIN® Urethane

Suitable for 80% or more of all belt cleaner applications, including abrasive conditions. Best choice for exposure to solvents or oil.
TYPICAL MATERIALS: Bauxite, Coke, Coal, Overburden Refuse, Steel/Ore, All other.
CONTINUOUS TEMPERATURE: -20° to 160°F (-30° to 70°C)

(CL) Clear Low-Rigidity Urethane

(To improve manufacturing consistency, this urethane is now tan in color.)
For dry products such as sand and gravel.
TYPICAL MATERIALS: Gravel, Dry Sand.
CONTINUOUS TEMPERATURE: -20° to 160°F (-30° to 70°C)

(NB) Navy Blue Low-Adhesion Urethane

For sticky or tacky materials.
TYPICAL MATERIALS: Cement, Glass, Wood Chips.
CONTINUOUS TEMPERATURE: -20° to 160°F (-30° to 70°C)

TENSIONERS

MARTIN® Spring and Air Tensioners



Tensioners Available for Pre-Cleaner and Secondary Cleaner Applications

Pre-Cleaner Tensioners - Shallow Shock Mount Tensioners include air and spring models. Shock Mount Tensioners include air and water models.

Secondary Cleaner Tensioners - Adjustable "L" Bracket Tensioners include air and spring models. Flange Mount Tensioners include air, spring and water models. Shock (Ring) Mount Tensioners include air and spring models.

MARTIN® Air Tensioners use the resilience of an air spring to cushion impact.

MARTIN® TWIST™ Tensioner



For Pre-Cleaners Or Secondary Cleaners

The MARTIN® TWIST™ Tensioner can be used on either pre-cleaners or secondary cleaners.

Rubber element maintains cleaning pressure with minimal belt cleaner / belt scraper retensioning required.

Tensioner allows mechanical splices to pass without damage.

Twist the housing the specified number of notches (determined by belt width) and lock in place.

If blades pull through, the tensioner's coupling rolls over, releasing pressure, and reducing the risk of harm to personnel or equipment.

MARTIN® XHD Spring Tensioner



Suitable for use on MARTIN® QC #1 XHD Pre-Cleaner

When the belt cleaner's blade is worn out, the spring lever arm will bottom out on the weldment. This provides a visual gauge that lets plant personnel know it is time to replace the blade. This positive stop also prevents a worn cleaner from flipping through under the forces of a rotating head pulley.

MARTIN® XHD Spring Tensioner provides effective cleaning pressure, yet cushion splice shock to prevent damage.