

REPLACEMENT & AFTERMARKET

REPLACEMENT BELT SCRAPER BLADES



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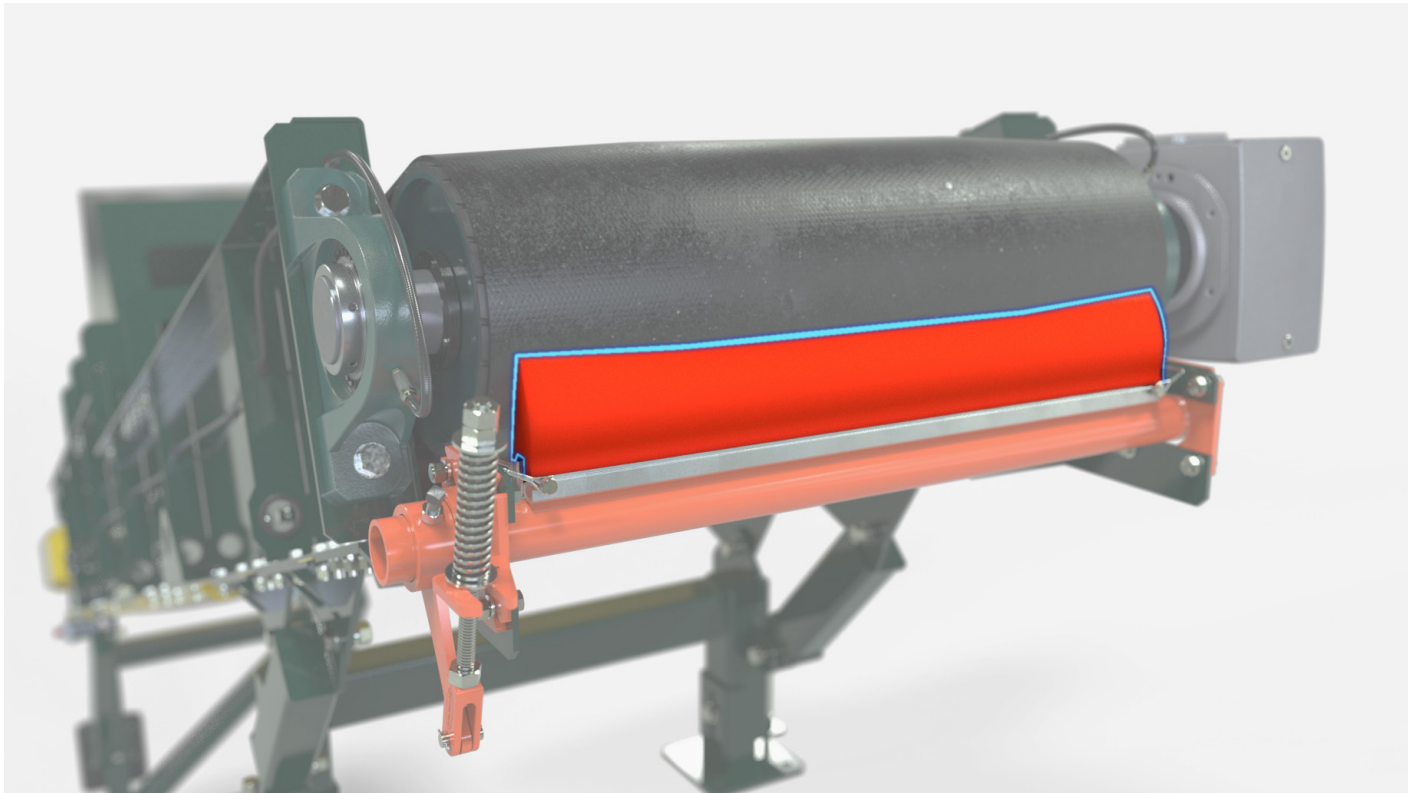
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REPLACEMENT BELT SCRAPER BLADES



Replacement Belt Scraper Blades

Bulk material handling environments generate fugitive material and carryback along the conveyor return path. Unmitigated carryback embeds into the belt surface, accelerates wear, and creates localized tracking failures. Allowing a worn scraper to run until the backing plate contacts the belt surface causes catastrophic belt scoring that far exceeds the cost of routine blade replacement.

Engineered to shear away residual material, these replacement blades are manufactured in standard polyurethane and tungsten carbide compounds. Configurations are profiled specifically for primary head pulley mounting or secondary return-side positioning. Urethane formulations include color-coded hardness ratings, high-temperature variants, and MSHA-approved compounds. Assemblies match standard pole diameters to ensure proper seating and uniform tensioner pressure distribution across the belt profile.

APPLICATIONS



Recycling & Waste Management

Mixed-material sorting lines utilize mechanically fastened belts that violently impact rigid cleaning structures. Segmented urethane designs flex independently to clear mechanical splices without tearing or dislodging the cleaner assembly.



Underground Mining

Regulated subterranean environments demand strict adherence to fire and static safety standards. FRAS and MSHA-approved urethane compounds provide compliant material removal without exceeding operational safety limits



Food-Grade Processing

FDA-regulated material handling requires components that prevent chemical contamination during physical contact. Specialized food-grade polyurethane formulations resist compound degradation while clearing sticky or wet organic bulk.



Abrasive Bulk Aggregates

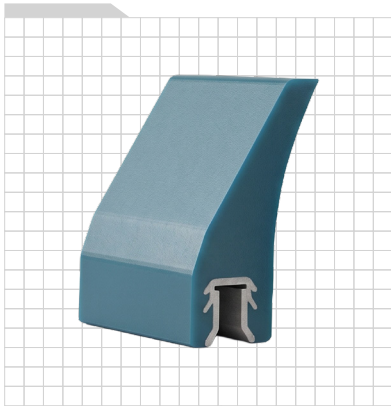
High-tonnage conveying environments subject mechanical components to extreme abrasion that rapidly degrades standard urethane compounds. Tungsten carbide blades shear abrasive fines while extending service intervals by 2–3x compared to polyurethane equivalents.

KEY FEATURES

01

Segmented Blade Construction:

Individual 3-inch-wide blade sections conform to worn or cambered belt surfaces and allow targeted section replacement without pulling the entire assembly.



05

Color-Coded Urethane Compounds:

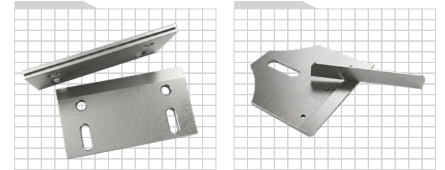
Distinct visual indicators match urethane hardness and temperature ratings directly to specific application demands and chemical environments.



02

Tungsten Carbide Tip Integration:

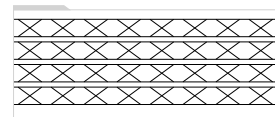
Machined carbide inserts maintain sharp edge geometry in high-abrasion conditions to prevent the loss of required scraping performance.



03

Bidirectional Symmetrical Profile:

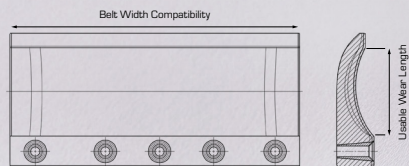
Diamond groove patterns and symmetrical geometries accommodate reversing conveyor operations without folding or damaging the contact surface during reverse rotation.



04

Cartridge-Style Assembly:

Slide-out retention tracks allow worn blade assemblies to be swapped in under 15 minutes without removing the existing mainframe or tensioner.



REPLACEMENT BELT SCRAPER BLADES SPECIFICATIONS

Parameter	Standard Specification	Custom / Extended Options
Belt Width Compatibility	18" - 96"	N/A
Maximum Belt Speed	Up to 600 fpm	Up to 1,200 fpm (mine-duty)
Standard Pole Diameters	2-3/8", 2-7/8"	Match existing mainframes
Usable Wear Length	1/4" to 3/8"	N/A
Operating Temperature	-30°F to 180°F	High-temperature formulations

Blade Compound

Blade Materia	Application Environment	Splice Compatibility	Replacement Interval
Polyurethane	General-duty, sticky/wet materials, food-grade	Accommodates mechanical fasteners	4-12 months
Tungsten Carbide	Abrasive bulk, high-tonnage	Requires low profile/clearance verification	8-18 months

THE ENGINEERING ADVANTAGE

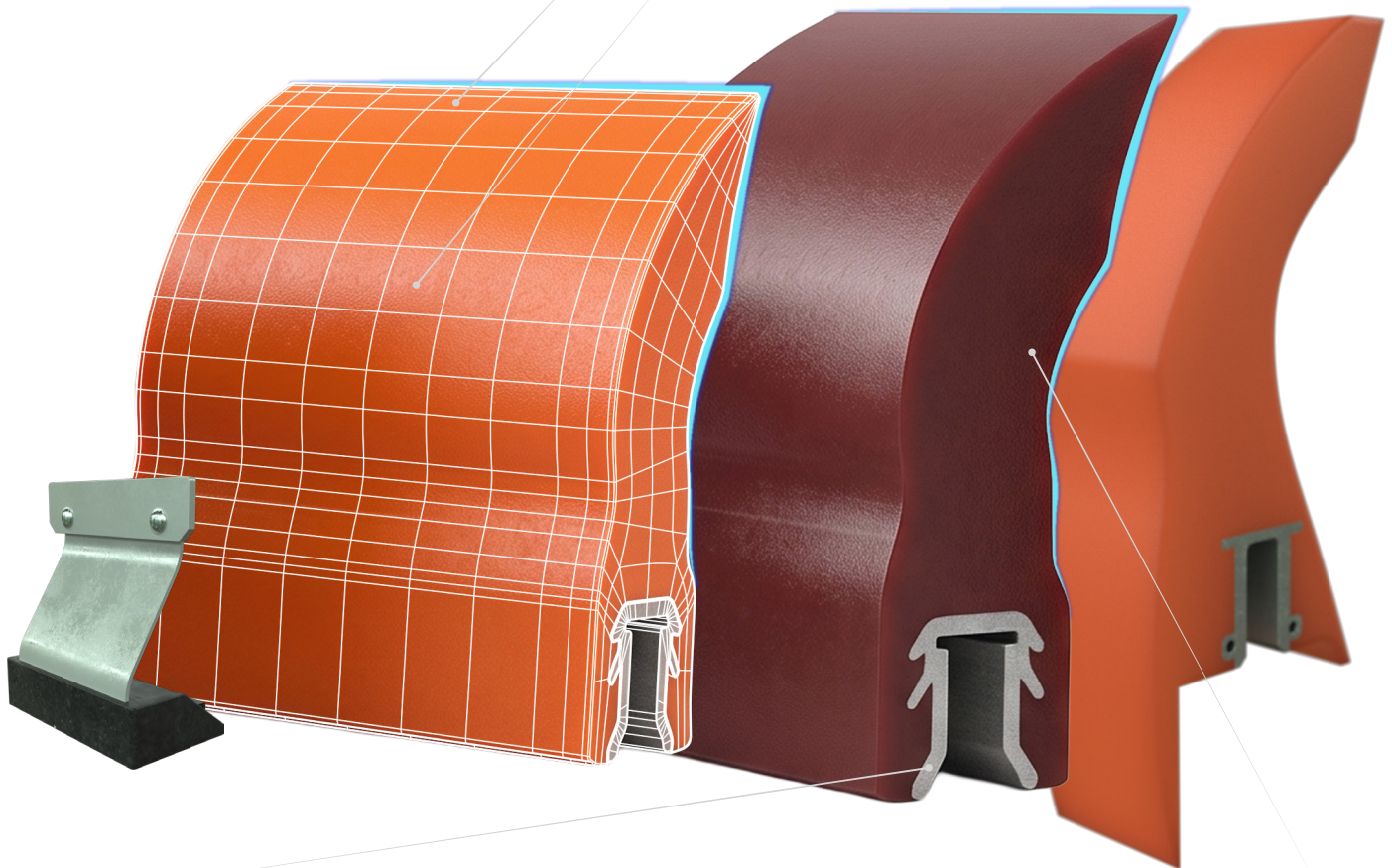
This section outlines the application-matched engineering behind replacement belt scraper blades, covering material selection and mounting geometry to ensure precise fit and optimal mechanical function.

Primary Attack Angle Geometry:

Blades designated for the head pulley are profiled to a specific attack angle to remove 60–70% of carryback while the belt remains under operational tension.

Segmented Flex Independence:

Urethane blade segments isolate deflection across individual 3-inch sections, accommodating mechanical splice profiles without lifting the adjacent cleaning edge.



Tensioner Pressure Calibration:

Blade configurations pair with spring or pneumatic systems to maintain consistent application force as the 1/4-inch to 3/8-inch usable wear length degrades.

Secondary Flat-Profile Geometry:

Return-side blades utilize a flatter physical profile to apply higher contact force, targeting residual embedded fines missed by the primary position.

CONTACT INFORMATION

OUR ENGINEERS WILL SPEC THE EXACT PART FOR YOUR SYSTEM

For product specifications, engineering support, or order inquiries, please contact our team using the information provided below. Our specialists are available to ensure accurate recommendations and efficient service for your application requirements.

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