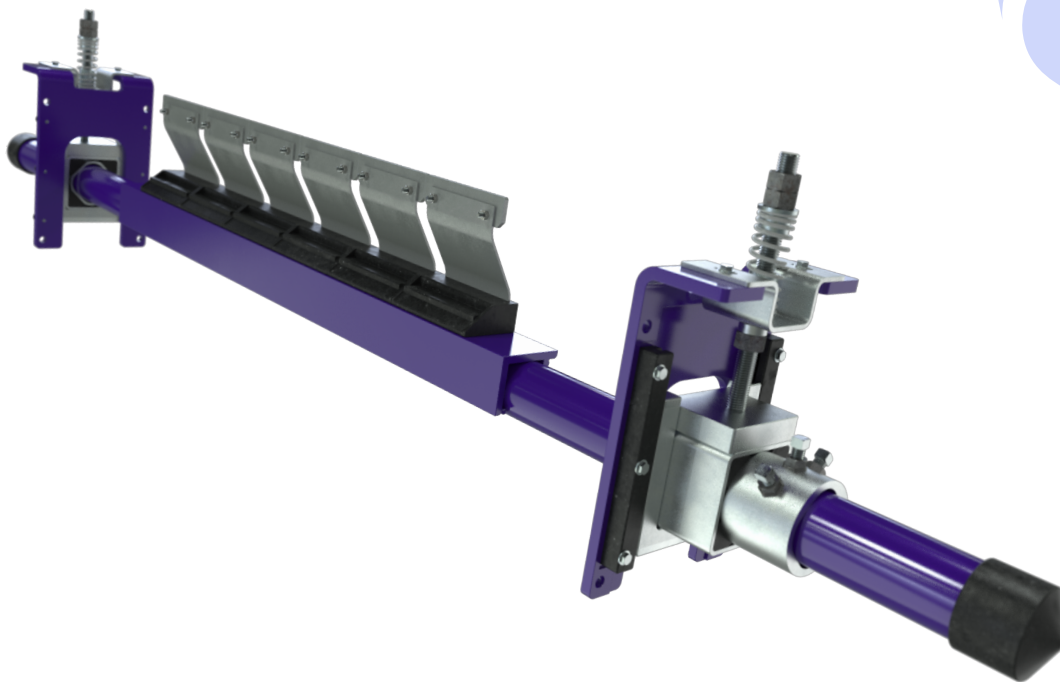


REPLACEMENT & AFTERMARKET

SECONDARY BELT SCRAPERS



Collaborate / Create / Convey

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SECONDARY BELT SCRAPERS



Secondary Belt Scrapers

Secondary belt scrapers mount immediately after the head pulley to remove residual material that passes the primary cleaner. In abrasive, wet, or sticky material applications, fugitive carryback causes severe accumulation along the return path. Without effective secondary cleaning, this accumulation leads to rapid return idler deterioration, premature belt wear, and increased facility cleanup requirements.

Fabricated with highly durable polyurethane or tungsten carbide blades, these scrapers utilize higher blade pressure to extract embedded fines. Configurations include standard duty, heavy duty, reversing, and compact models to fit specialized chute constraints and operational speeds up to 1500 fpm. Segmented and continuous blade options conform to belt variations, ensuring maximum material recovery and compatibility with both mechanical and vulcanized splices.



APPLICATIONS



Recycling & Waste Management

Conveyors handling municipal solid waste and mixed recycling experience extreme variations in material moisture and stickiness. Segmented urethane blades maintain continuous surface contact to shear away wet fines before they contaminate the return line.



High-Speed Continuous Operations

High-tonnage conveying systems operating between 1000 and 1500 fpm generate harmonic vibration that destabilizes standard cleaning implements. Heavy-duty scraper frames incorporate mechanical dampening systems to sustain continuous blade-to-belt contact under severe velocity.



Mining & Aggregate

High-tonnage conveying of crushed stone and ores creates severe abrasion and heavy carryback volumes. Tungsten carbide-tipped blades withstand continuous friction from aggressive media, yielding extended operational intervals.



Portable Stacking Equipment

Mobile stacking conveyors often lack structural space for comprehensive primary-plus-secondary cleaner arrangements. Standalone secondary scrapers installed flat against the belt return stream offer a space-efficient carryback solution.



Reversing & Reclaim Operations

Bi-directional sorting and reclaim systems require consistent material handling regardless of the belt travel direction. Symmetrical blade configurations remove fugitive material during reversing operations without requiring redundant scraper installations.



Chevron & Incline Conveying

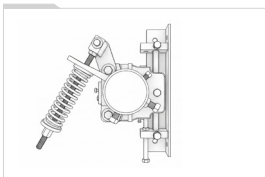
Steep-angle material transport utilizes raised cleat profiles that physically obstruct standard rigid scraper blades. Flexible polyurethane finger blades navigate between vertical cleats up to 32 mm high to extract trapped particulate without damaging the belt protrusions.

KEY FEATURES

01

Push-Up / Pull-Up Tensioning Mechanisms

Pneumatic and spring systems dictate specific blade-to-belt contact forces from either below or above the assembly frame.



02

Symmetrical Blade Geometry:

Bidirectional profiles and diamond groove patterns engage the belt securely in reversing, shuttle, and reclaim systems regardless of travel direction.

03

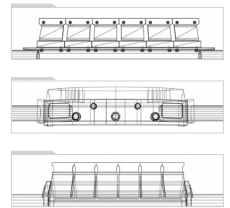
Tungsten Carbide Tip Fabrication:

Engineered metal-alloy inserts fixed to the blade edge withstand continuous abrasive friction in high-tonnage material handling operations.

04

Flexible Finger Blade Geometry:

Vertical polyurethane extensions bend around conveyor cleats up to 32 mm high to extract trapped particulate without severing the belt protrusions.



06

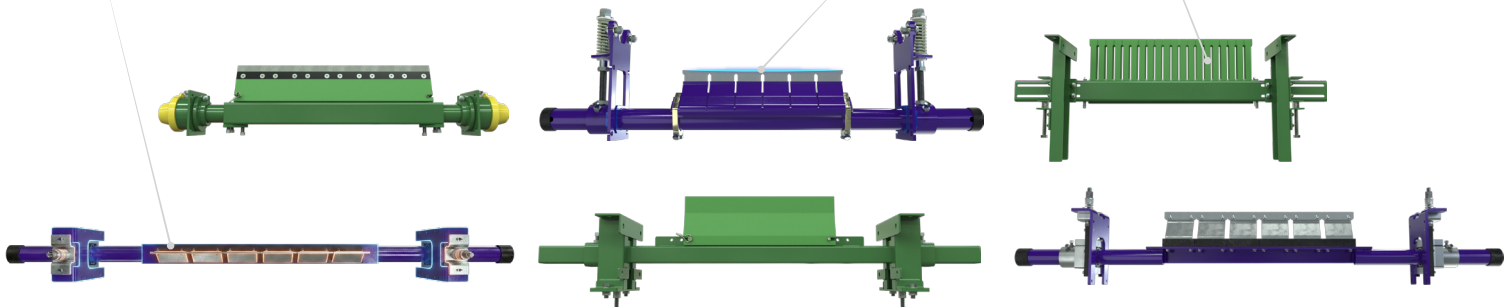
Polyurethane Blade Construction:

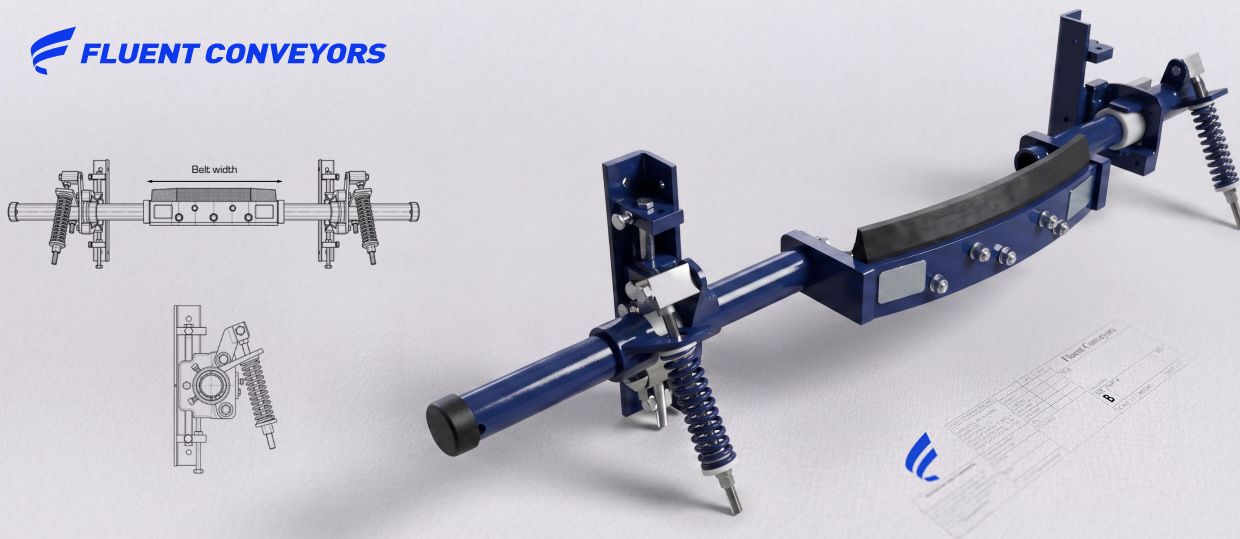
Formulated in 60-90 durometer compounds to shear away wet or sticky carryback while absorbing mechanical splice impacts.

05

Segmented Blade Configuration:

Independently mounted urethane sections yield individually to mechanical fasteners and worn belt sections to sustain constant scraping pressure.





SECONDARY BELT SCRAPERS

SPECIFICATIONS

Cleaner Type	Belt Width	Belt Speed	Temperature Range
Standard duty	18" – 72"	600 – 900 fpm	-30°F to 250°F
Heavy duty	18" – 96"	1000 – 1500 fpm	-30°F to 300°F
Compact/limited space	12" – 60"	500 – 750 fpm	-30°F to 250°F
Reversing	18" – 96"	600 – 1200 fpm	-30°F to 250°F
Chevron/cleated belt	18" – 72"	500 – 900 fpm	-30°F to 225°F

Blade Compound

Duty Class	Blade Material	Expected Life	Splice Compatibility
General duty, wet/sticky materials	Polyurethane (60–90 durometer)	4 – 12 months	Mechanical and vulcanized
Severely abrasive, high-tonnage	Tungsten carbide tips	8 – 18 months	Check model specifications
Uneven belts, mechanical splices	Segmented urethane	4 – 10 months	Excellent mechanical splice compatibility

Note: Expected life depends on material abrasiveness, belt speed, and operating hours. Replace blades when height reduces to approximately 50% of the original thickness.

THE ENGINEERING ADVANTAGE

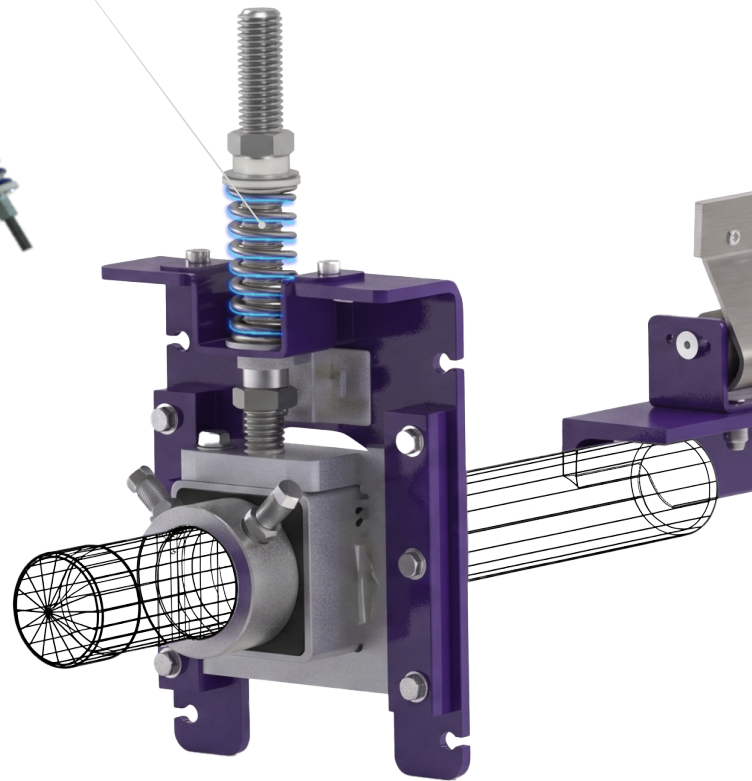
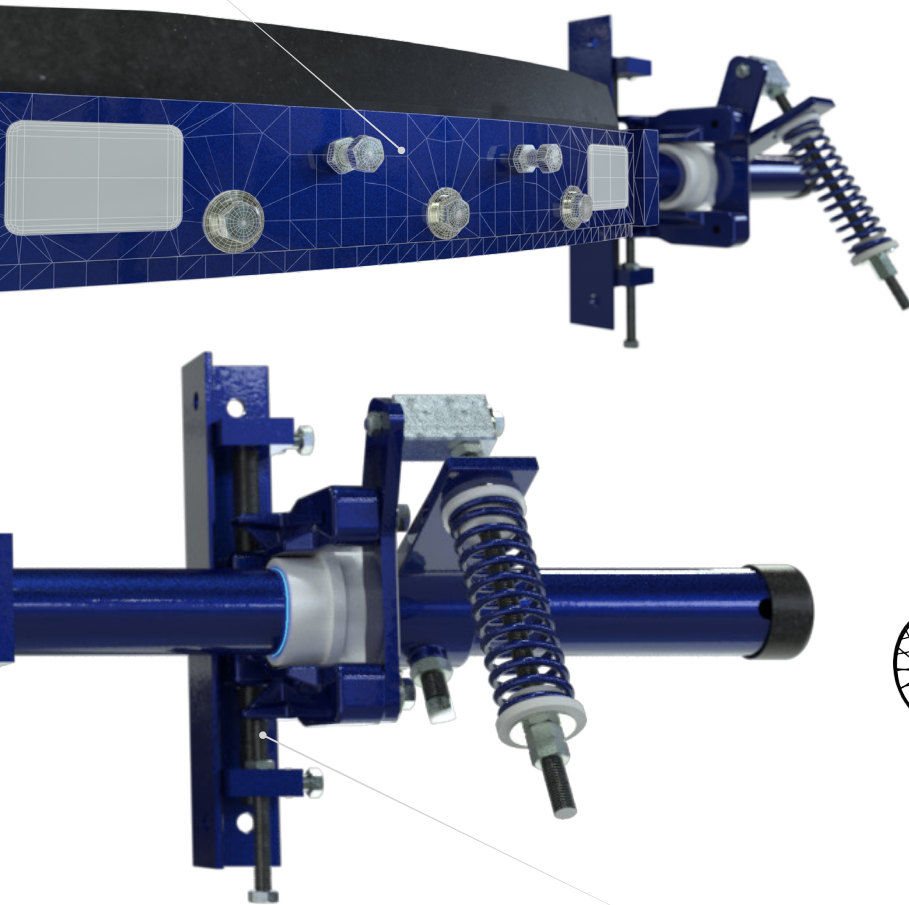
This section outlines the core engineering methodology behind secondary belt scrapers, covering blade deployment and tensioning principles to ensure critical carryback removal.

Mechanical Dampening Systems:

Heavy-duty scraper frames incorporate vibration-absorbing mounts to prevent harmonic blade chatter during high-velocity 1500 fpm material transit.

Continuous Contact Tensioning:

Spring and pneumatic automatic mechanisms actively adjust the blade position against the belt to maintain constant pressure as physical material wear occurs.



Compact Profile Fabrication:

Reduced-clearance mounting frames minimize the physical footprint, permitting direct installation in tightly confined drop chutes.

Pressure Roller Stabilization:

Support roller brackets mount directly opposite the blade location to flatten the belt surface and provide a rigid structural backing against secondary scraping forces.

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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