

REPLACEMENT & AFTERMARKET

CHEVRON SCRAPERS



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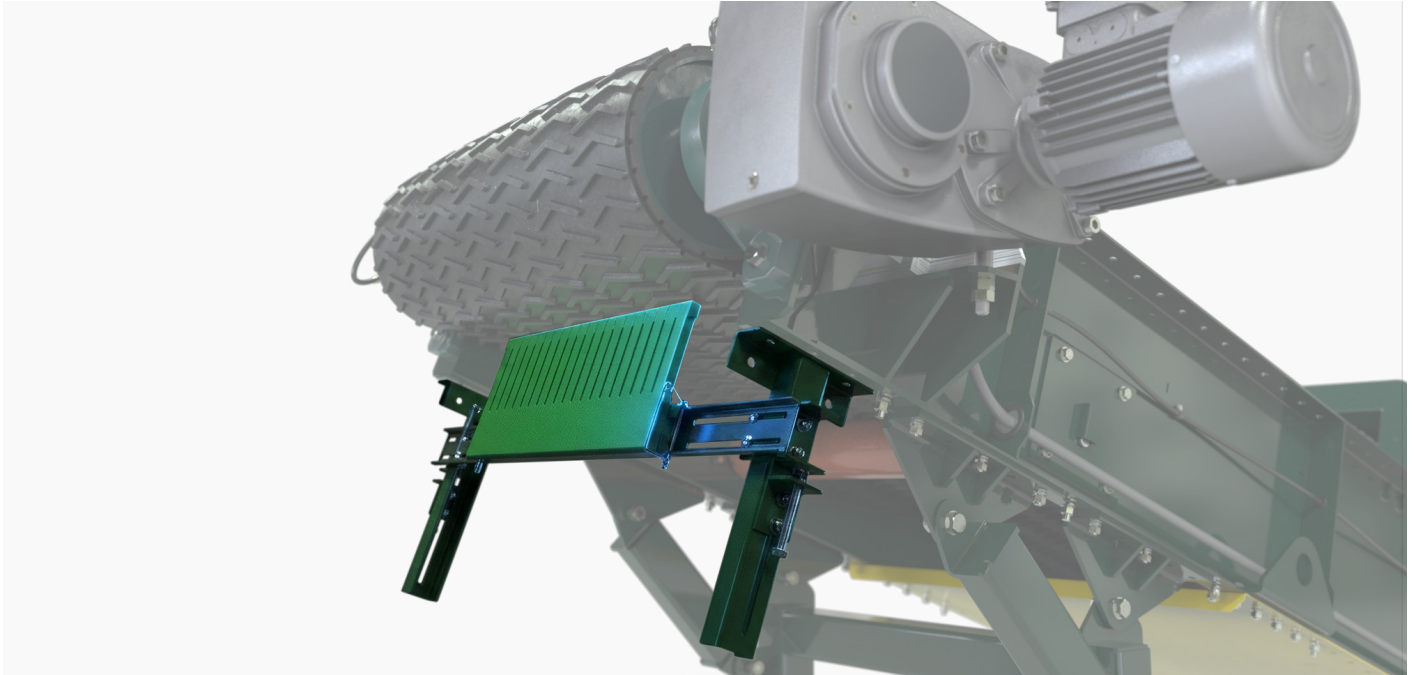
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CHEVRON SCRAPERS



Chevron Scrapers

Chevron, cleated, and raised rib belts move material up steep inclines that flat belts cannot climb, but their raised profiles defeat conventional straight-blade cleaners. A rigid blade either bridges across the cleats and leaves carryback untouched, or bears down hard enough to gouge the profile it was meant to clean, while stringy debris such as vines, wire, and bark snags and disables standard cleaner arms mid-shift. The result is fugitive material along the return run, buildup on idlers and pulleys, and unplanned downtime that compounds with every missed cleaning cycle.

The Chevron Belt Scraper line answers this in two configurations. The torsion arm configuration carries precision cut elastomer blades in a 14-finger pattern on shock-absorbing arms offset at 30 degrees, letting the blade edge ripple over passing cleats without interrupting contact. The segmented finger blade configuration mounts 9.5" polyurethane blade sections with 6" flexible fingers on a powder-coated steel mainframe, where each finger deflects over the raised profile and returns to shear carryback from the belt face. Both install as secondary cleaners on the return side of the head pulley and match the exact belt profile, width, and mounting envelope of the system they protect.

APPLICATIONS



Recycling & Material Recovery

Material recovery facilities run chevron and cleated belts to carry mixed streams of shredded plastics, fiber, and damp residuals up steep sort-line inclines, where fines cling to every recess of the belt profile. Elastomer and polyurethane fingers work between the raised cleats to dislodge carryback at belt speeds up to 500 fpm without severing the profile that keeps material on the incline.



Sand Processing

Washed sand holds moisture that packs into each pocket of a cleated belt. Finger contact traces the belt contour to release compacted fines before they ride back through the return run.



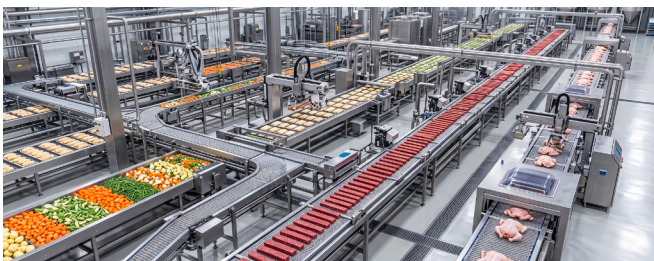
Biomass Power Plants

Bark strands and hog fuel wrap around the arms of conventional static cleaners and disable them mid-shift. Torsion arm geometry sheds stringy debris that would stall an ordinary cleaner.



Agriculture

Grain, feed, and vine crop handling demands gentle blade contact on belts moving product at high volume. Tensioning hardware keeps finger pressure light enough to protect belt covers through continuous seasonal operation.



Food Processing

Sticky ingredients coat cleated belts throughout processing and packaging lines. Flexible fingers lift residue from the belt face while stepping over cleats without gouging the cover.



Timber & Paper Manufacturing

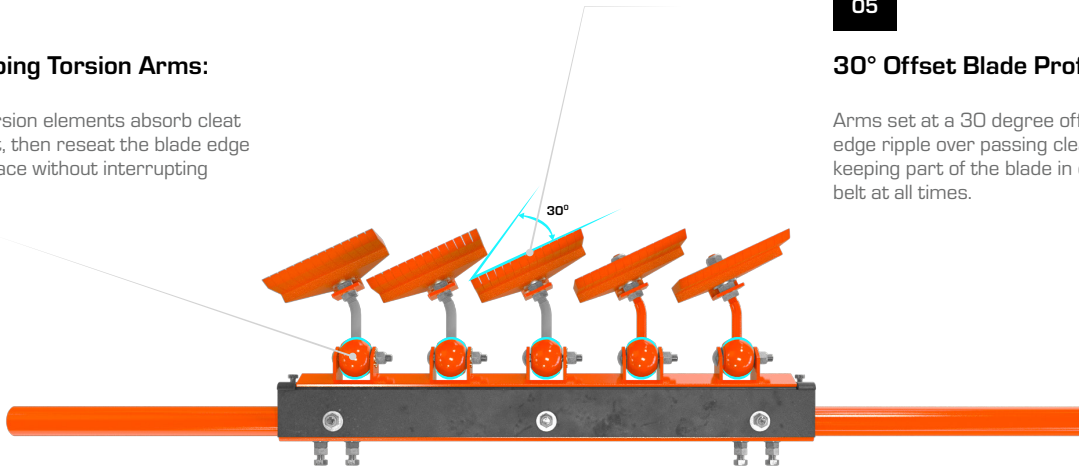
Wire, chips, and pulp fines lodge between cleats on steep incline conveyors. Offset blade sections clear packed material without snagging on mechanical splices or embedded debris.

KEY FEATURES

01

Shock-Absorbing Torsion Arms:

Arm-mounted torsion elements absorb cleat and splice impact, then reseal the blade edge against the belt face without interrupting cleaning contact.



05

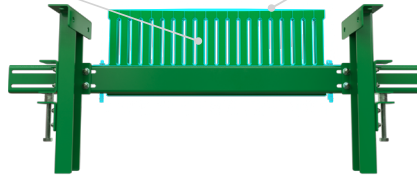
30° Offset Blade Profile:

Arms set at a 30 degree offset let each blade edge ripple over passing cleats in sequence, keeping part of the blade in contact with the belt at all times.

02

14-Finger Elastomer Blade:

Precision cut fingers spread cleaning contact across the belt profile, working between ribs and cleats that a solid blade edge would bridge.



06

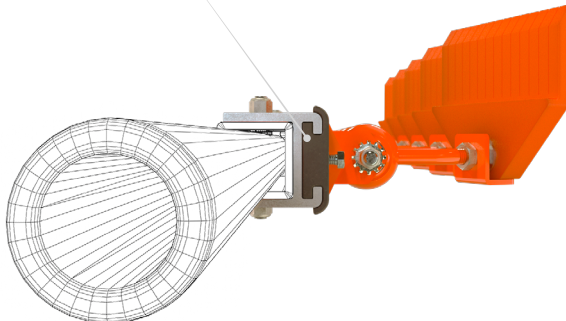
Rubber and Urethane Compound Selection:

Blade sections cast in high-performance rubber or color-coded urethane match compound hardness to the material stream and operating environment.

03

Slide-On Blade Segments:

Individual 6" wide segments slide onto the mainframe and pin in place, so a worn section swaps out without tools or full blade replacement.



04

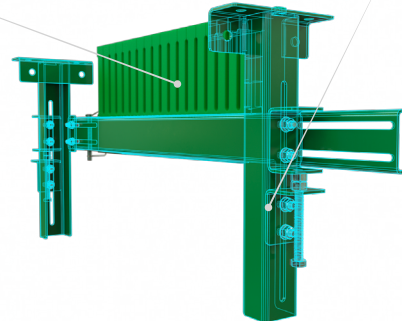
Polyurethane Finger Blade:

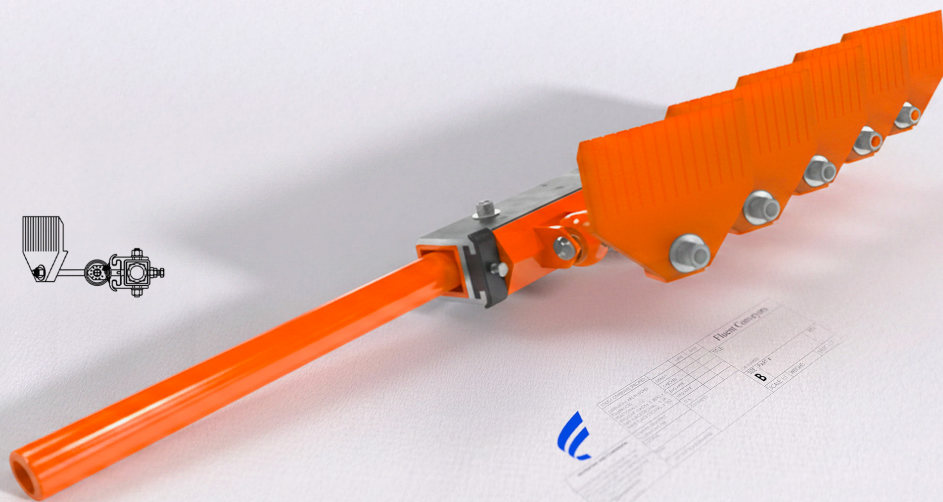
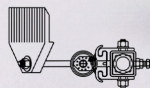
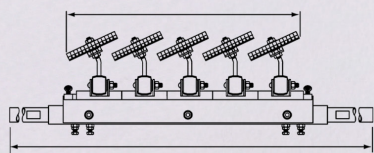
Flexible 6" tall fingers on 9.5" blade sections deflect over chevrons, cleats, and raised ribs, then return against the belt face to shear carryback without cutting the profile.

07

Powder-Coated Steel Components:

Powder-coated mainframe and bracket steel resists corrosion and abrasion in wet, dusty, and washdown environments.





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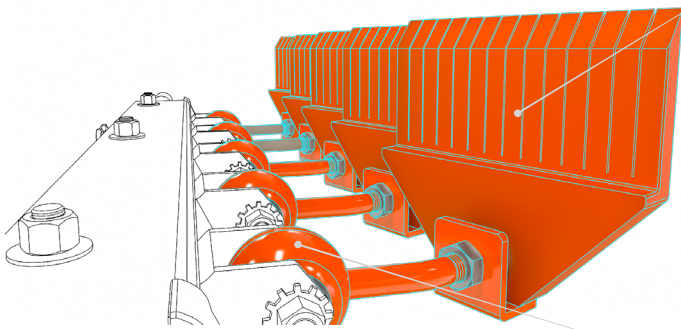
SPECIFICATIONS

Parameter	Torsion Arm	Segmented Finger Blade
Cleaning element	14-finger elastomer blades on 30° offset arms	9.5" (241 mm) polyurethane blades, 6" (152 mm) flexible fingers
Blade material	Rubber or color-coded urethane	Durometer-rated polyurethane
Belt width range	18" – 96" (400 – 2400 mm)	12" – 72" (305 – 1829 mm)
Max belt speed	500 fpm (2.5 m/s)	500 fpm (2.5 m/s)
Max cleat height	3/8" (9.5 mm)	Consult engineering
Service temperature	180°F intermittent, 150°F continuous	Consult engineering
Blade replacement	Sections per arm, 2" (50 mm) wearable depth	6" (152 mm) slide-on segments, pin retained
Mainframe	Telescoping ends, no field cutting	Powder-coated steel, dual bracket mount
Splice compatibility	Consult engineering	Mechanical and vulcanized splices
Tensioning	Tensioner system, specified separately	Integrated adjustable tension

Note: "Consult engineering" indicates a parameter configured per application review rather than published as a standard rating. Note: Mounting requirements: torsion arm requires a 4" (102 mm) mounting radius; finger blade mounts within 1" – 9" (25 – 229 mm) horizontal and 0" – 6" (0 – 152 mm) vertical of the belt. Note: Extended-length mainframes for non-standard installations available through application review.

THE ENGINEERING ADVANTAGE

This section outlines the suspension geometry and blade construction methodology behind the Chevron Belt Scraper line, covering torsion arm suspension, mainframe design, finger deflection, and frame simplification to ensure profile-matched cleaning and predictable service life.



Flexible Finger Geometry:

Fingers spaced across each blade segment flex independently, so the cleaning edge conforms to the raised belt profile instead of bridging across it.

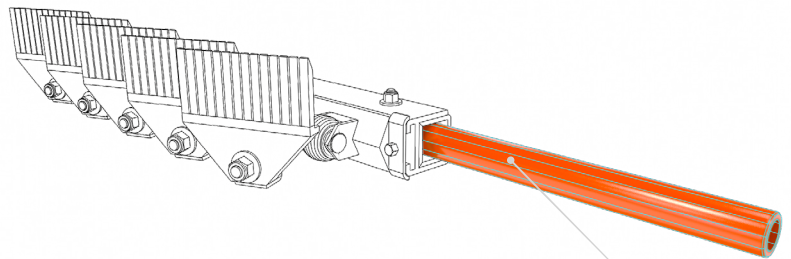
Torsion Suspension Geometry:

Each arm pivots on a torsion element that meters blade-to-belt pressure through the wear cycle, absorbing shock loads that would fracture rigidly mounted blades.



External Spring Elimination:

Constructed without exposed springs or moving hardware that trap fugitive material, keeping the tension system functional in dusty and abrasive conditions.



Telescoping Mainframe Construction:

Adjustable mainframe ends extend to the installed conveyor width, eliminating field cutting of the mainframe during installation.

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.

Reach Us Directly

Email

Send us your questions or requests, and we'll respond promptly.

sales@fluentconveyors.com

Phone

Call us for immediate assistance and technical support.

[+1\(866\) 764-2980](tel:+18667642980)

Business Hours

Monday - Friday

8:00 AM – 5:00 PM MST

Departments

Sales & Quoting

Product pricing, availability, and order placement.

sales@fluentconveyors.com

Customer Service

Product pricing, availability, and order placement.

[+1 \(303\) 390-1228](tel:+13033901228)

Engineering

Technical specs, application review, custom configurations.

engineering@fluentconveyors.com