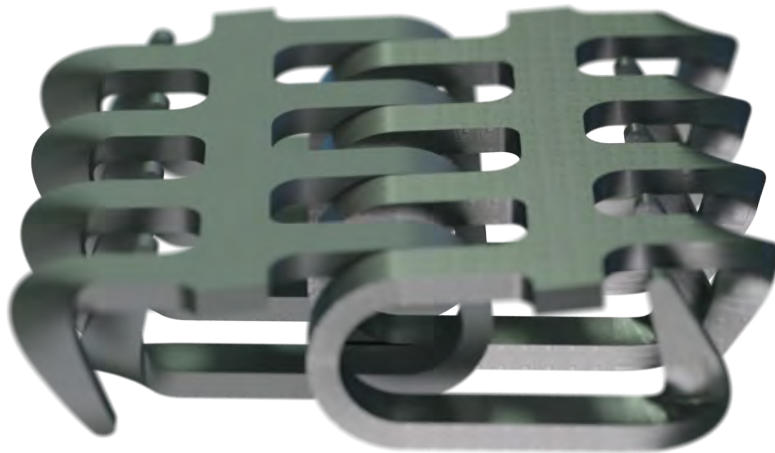


REPLACEMENT & AFTERMARKET

ALLIGATOR SPLICE KITS



Collaborate / Create / Convey

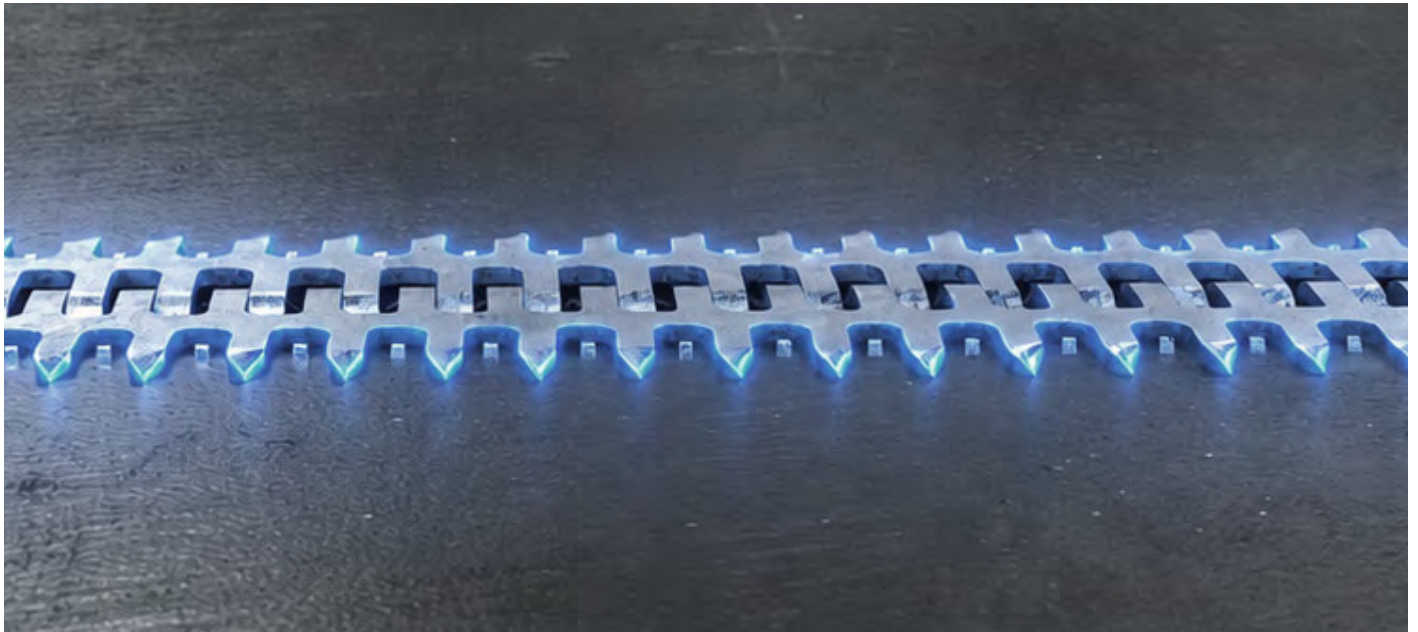
TABLE OF CONTENTS

Alligator Splice Kits	02	Product specifications	05
Applications	03	The Engineering Advantage	07
Key Features	04	Contact Information	08

© 2026 Fluent Conveyor. All rights reserved.

All content, including text, graphics, and product specifications, is the property of Fluent Conveyor and may not be reproduced, distributed, or transmitted in any form without prior written permission.

ALLIGATOR SPLICE KITS



Alligator Splice Kits

Light- to medium-duty conveyors run thin belting over small-diameter pulleys, a combination that puts vulcanized splicing out of reach and leaves the splice as the first point of failure. A separated splice on a packaging line, sort conveyor, or harvesting machine stops production immediately, and loose fastener pieces working out of a damaged joint contaminate the conveyed product. Alligator splice kits address both failure modes with hinged mechanical fastening built for belts from 1/16" to 1/2" thick and pulleys down to 1" in diameter.

Three fastening systems cover the duty range: continuous-tooth lacing rated 25 to 200 PIW, one-piece staple strips rated 100 to 200 PIW, and rivet fasteners rated to 300 PIW for high-abuse service. Lacing and staple strips are fabricated as single continuous pieces, so no individual fastener can loosen into the product stream, and hinged configurations accept a removable pin for belt separation and length adjustment. Every kit is specified against belt thickness, PIW rating, and minimum pulley diameter, matching the installed splice to the belt and conveyor it serves.

APPLICATIONS



Recycling & Material Recovery

Sort lines, trommel feeds, and baler infeed conveyors run thin fabric and PVC belting through abrasive, contamination-heavy streams that tear splices without warning, backing up the entire recovery line. Lacing sizes 27 and 35 rejoin belts up to 5/16" thick at 100 to 150 PIW with nothing more than a hammer, returning a torn sort belt to service in under 90 minutes.



Packaging & Distribution

Distribution centers and packaging lines pair thin belting with pulleys as small as 2", where a failed splice stalls order flow across the building. Staple strips with pre-inserted fasteners seat in 30 to 60 minutes under an installation tool and final set plate.



Food Processing

Washdown cycles and sanitary compliance rule out plated hardware on processing and packaging belts. 300 series stainless lacing withstands acids, chemicals, and repeated washdown, and resists magnetic attraction near metal detection equipment.



Agriculture

Harvesting equipment and round hay balers subject belts to shock loads, field debris, and outdoor exposure. Rivet fasteners drive through the belt carcass under a hammer or power driver and hold the joint through high-abuse baling service.



Wood Products

Sawmill and panel lines carry splintered, abrasive material on mid-thickness belting. Lacing size 35 joins belts from 9/32" to 5/16" thick at 150 PIW on pulleys down to 7".



Light-Duty Industrial

Parts conveying and OEM equipment run ultra-light belting over pulleys as small as 1". Lacing size 00 splices belts up to 1/16" thick with hammer installation and no specialized tooling.

KEY FEATURES



01

Continuous-Tooth Lacing Strip:

Hammer-driven teeth penetrate both belt ends in a single unbroken row, distributing splice tension uniformly across the full belt width.

02

Corrugated Hinge Pin:

Lugs along the corrugated body engage the lacing loops to resist pin migration while the joint flexes freely around small-diameter pulleys.

03

Pre-Inserted Staple Strip:

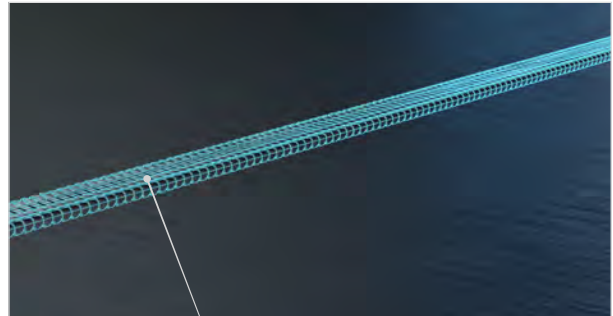
Factory-loaded fasteners drive through the belt in one pass under a guide block, clinching against a final set plate for uniform seating depth.



04

Rivet Fastening Hardware:

Pins set through the full belt carcass under a hammer or power driver, with retaining washers locking the attachment against shock loads.



05

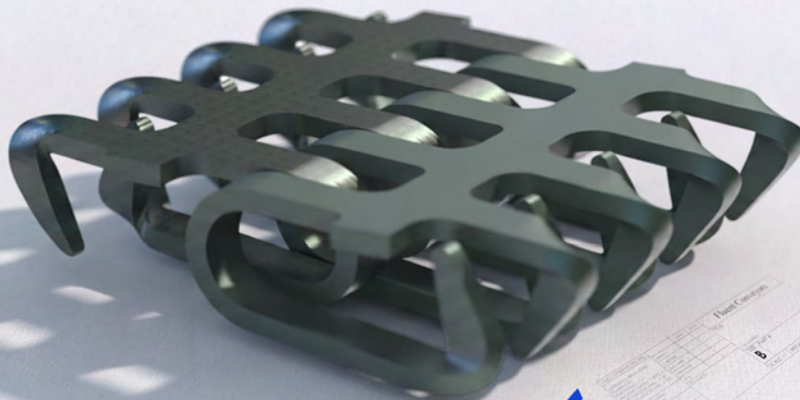
Plated Steel & Stainless Material Selection:

Rust-inhibiting plating protects standard steel fasteners, while 300 series stainless grades serve corrosive, sanitary, and washdown environments.

06

Installation Clip & Gauge Pin Set:

Clips spaced three per 12" of belt width hold the lacing squarely against the belt edge, producing a straight splice that tracks true.



ALLIGATOR SPLICE KITS SPECIFICATIONS

Fastening System Specifications

Fastening system	Belt thickness	PIW rating	Min. pulley diameter	Installation method
Lacing	Up to 1/2" (12.7 mm)	25 – 200 PIW	1" – 14" (25 – 356 mm)	Hammer
Staple	1/16" – 1/4" (1.5 – 6.4 mm)	100 – 200 PIW	2" – 4" (50 – 102 mm)	Installation tool + hammer
Rivet	3/16" – 1/4" (4.76 – 6.35 mm)	Up to 300 PIW	3.5" (88 mm)	Hammer or power driver
Plastic rivet	Up to 1/8" (3.2 mm)	40 – 65 PIW	1.5" – 3" (38 – 75 mm)	Hand installation

Note: Material options by system: lacing in plated steel or 300 series stainless with corrugated steel or nylon hinge pins; staple in steel, 316 stainless, 430 stainless, or high-strength alloy; rivet in steel or stainless steel.

Lacing Size Selection

Lacing size	Belt thickness	PIW rating	Min. pulley diameter	Hinge pin diameter
00	Up to 1/16" (1.6 mm)	25 PIW	1" (25 mm)	3/64"
1	1/16" – 3/32" (1.6 – 2.4 mm)	45 PIW	1.5" (38 mm)	1/16"
7	3/32" – 9/64" (2.38 – 3.57 mm)	50 PIW	2" (51 mm)	1/16"
15	1/8" – 5/32" (3.2 – 4.0 mm)	65 PIW	2.5" (64 mm)	3/32"
20	5/32" – 3/16" (4.0 – 4.8 mm)	95 PIW	3" (76 mm)	7/64"
25	3/16" – 7/32" (4.8 – 5.6 mm)	100 PIW	4" (102 mm)	1/8"
27	7/32" – 9/32" (5.6 – 7.1 mm)	100 PIW	5" (127 mm)	1/8"
35	9/32" – 5/16" (7.1 – 7.9 mm)	150 PIW	7" (178 mm)	9/64"
45	5/16" – 3/8" (7.9 – 9.5 mm)	165 PIW	9" (229 mm)	3/16"
55	3/8" – 7/16" (9.5 – 11.1 mm)	175 PIW	12" (305 mm)	13/64"
65	7/16" – 1/2" (11.1 – 12.7 mm)	200 PIW	14" (356 mm)	13/64"

Note: Fastener PIW rating must equal or exceed the belt's rated strength. Minimum pulley diameter is a hard filter; never install fasteners on pulleys smaller than specified.

ALLIGATOR SPLICE KITS SPECIFICATIONS

Size / system & Rivet Size

Size / system	Belt thickness	PIW rating	Min. pulley diameter	Connecting hardware
Staple size 125	1/8" - 3/16" (3.2 - 4.8 mm)	100 - 150 PIW	3" (76 mm)	Pre-inserted staples
Staple size 187	3/32" - 1/4" (2.4 - 6.4 mm)	125 - 200 PIW	2" - 4" (50 - 102 mm)	Pre-inserted staples
Rivet	3/16" - 1/4" (4.76 - 6.35 mm)	Up to 300 PIW	3.5" (88 mm)	Rivet pin + retaining washers
Plastic rivet	Up to 1/8" (3.2 mm)	40 - 65 PIW	1.5" - 3" (38 - 75 mm)	Plastic rivet pin

Note: Specifications shown represent specific sizes. Fastener rating must equal or exceed the belt's PIW rating, and fasteners must never be installed on pulleys smaller than the specified minimum diameter.

THE ENGINEERING ADVANTAGE

This section outlines the fastening system engineering behind Alligator splice kits, covering strip fabrication, hinge geometry, tooth design, and installation tooling to ensure a straight, full-width splice matched to the belt and pulleys it runs on.

One-Piece Strip Fabrication:

Each fastener row is formed as a single continuous strip, eliminating the individual loose fasteners that work out of a damaged splice and into the conveyed product.

Low-Profile Hinge Geometry:

The assembled joint sits close to the belt surface, passing belt cleaners, skirting, and return-side components without snagging or gouging.

Hammer-Set Tooth Design:

Lacing teeth set flush with the belt surface under hammer blows and a steel setting plate, completing a field splice without powered or specialized tooling.

Guide Block & Final Set Plate Tooling:

Staple installation tools locate the strip under a guide block and clinch fasteners against a final set plate, holding a consistent seating depth across every splice.

Skived Cover Preparation:

Top or bottom cover removal seats the fastener at carcass level on rough top and thick-cover belting, keeping the finished splice within the system's belt thickness limits.

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