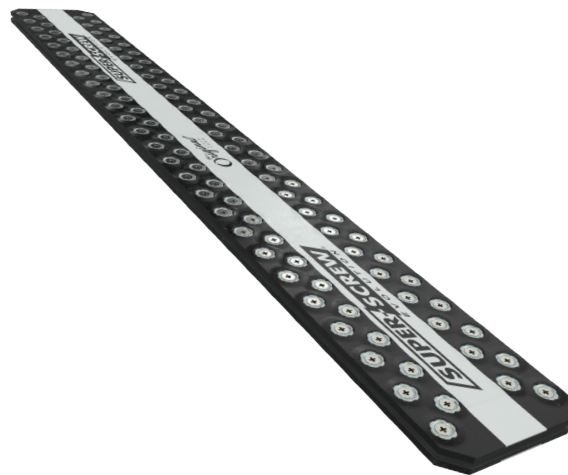


REPLACEMENT & AFTERMARKET

SUPER SCREW SPLICE KITS



Collaborate / Create / Convey

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SUPER SCREW SPLICE KITS



Super Screw Splice Kits

Conveyor belts fail at the splice before they fail anywhere else. A parted splice stops the line, spills the load, and forces crews into unplanned repairs at whatever point of the system the belt happens to break. Traditional vulcanized repairs demand presses, cure time, and specialist labor that most facilities cannot stage on short notice, which turns a single joint failure into hours of lost production.

Super Screw splice kits join medium- to heavy-duty belts with self-drilling, self-tapping fasteners driven through pre-molded top and bottom rubber strips, using nothing more than a cordless drill. The fasteners pass between the carcass threads without cutting them, preserving the structural fabric of the belt while the flexible strips conform to pulleys as small as 6" in diameter. Kits are rated from 200 PIW to 1,430 PIW and install on new belts, field repairs, and emergency splices alike, cut to length to match the exact belt width of the system.

APPLICATIONS



Recycling

Recycling and material recovery facilities run belts through shredded scrap, glass fines, and contamination-heavy streams that gouge splice hardware and tear conventional metal fasteners loose. Super Screw splice kits form a low-profile, sift-free joint that survives abrasive fines, clears belt scrapers cleanly, and restores a torn sortation belt to service within a single maintenance window.



Aggregate & Quarry

Crushed stone and gravel lines subject splices to constant abrasion and high belt tensions across long conveyor runs. Abrasion-resistant compound strips paired with 450 PIW – 1,430 PIW fastener tiers hold the joint together under continuous heavy loading.



Mining

Underground and surface mining operations demand splices that tolerate temperature extremes, confined installation spaces, and strict fire regulations. MSHA-approved fire-resistant, anti-static compound options carry certified splice construction into coal handling and explosive-atmosphere environments.



Food Processing & Packaging

Food-grade lines require washdown-compatible components that meet sanitation compliance standards. FDA/USDA-grade splice strips deliver a fully compliant white compound joint suited to packaging and processing belts.



Waste Management

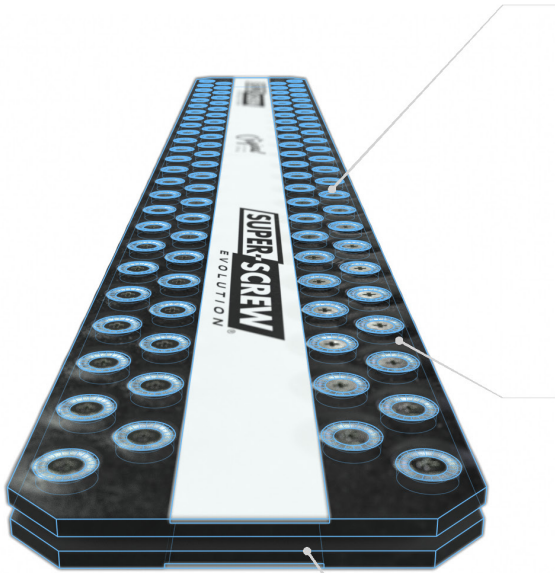
Transfer stations and waste processing lines cannot schedule downtime around a failed belt joint. Cut-to-length kits with pre-inserted spacers and included drive bits let maintenance crews complete an emergency splice in 60 – 120 minutes with a cordless drill.



Wood Products & Sawmills

Sawmill and pulp operations expose belts to resin, sap, and moderate oil contamination that swells standard rubber. Moderately oil-resistant compound strips resist grease absorption and keep the fastener bed dimensionally stable.

KEY FEATURES



01

Flexible Rubber Strip Construction:

Molded top and bottom strips with pre-molded fastener holes flex with the belt through pulleys as small as 6" in diameter, forming a sift-free joint across the full belt width.

02

Application-Specific Compound Selection:

Strip compounds are formulated for abrasion resistance, moderate oil exposure, heat to 392°F (200°C), MSHA fire-resistant service, or FDA/USDA food-grade compliance, each color-coded for identification on the belt.

03

Self-Drilling, Self-Tapping Fasteners:

5mm and 6.3mm diameter screws drill their own pilot path and thread between the carcass plies without cutting the structural fabric, so the belt retains its rated tension at the joint.



04

Pre-Inserted Assembly Spacers:

Factory-set spacers hold the top and bottom strips in correct alignment while fasteners are driven, then pull out once installation is complete.

05

Bias Splice Geometry:

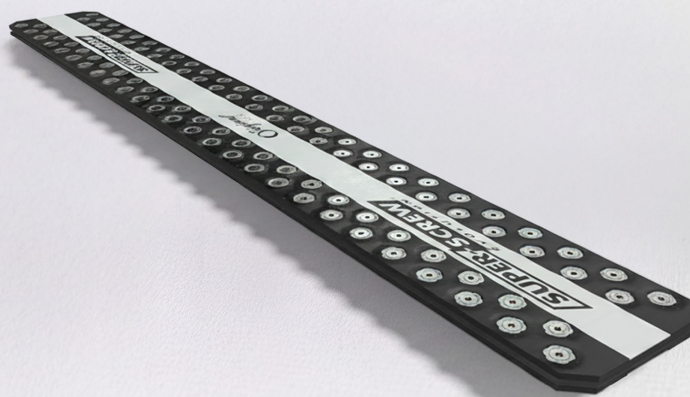
Strips install at an 18° or 5° bias angle across the belt, distributing splice tension diagonally so no single line of fasteners carries the full load at once.

06

Low-Profile Splice Surface:

The finished joint sits flush with the belt top cover, passing under belt scraper blades without snagging and without shedding fines through the splice line.





SUPER SCREW SPLICE KITS SPECIFICATIONS

Series Selection

Series	System type	Belt thickness after skiving	PIW rating	Min. pulley diameter	Applications
Super Screw 35	Evolution	5/32" - 1/2" (3.2 - 14 mm)	200 PIW	6" (160 mm)	Light-duty recycling, packaging
Super Screw 63	Evolution	5/32" - 1/2" (3.2 - 16 mm)	360 PIW	8" (200 mm)	Medium-duty aggregate, recycling
Super Screw 65	Evolution	5/32" - 1/2" (3.2 - 15 mm)	360 PIW	8" (200 mm)	Medium-duty aggregate recycling
Super Screw 80	Evolution/ Original*	5/32" - 1/2" (4.8 - 15 mm)	450 PIW	10" (250 mm)	Heavy-duty mining, aggregate
Super Screw 85	Original	5/32" - 19/32" (4.8 - 16 mm)	450 PIW	10" (250 mm)	Heavy-duty mining, aggregate
Super Screw 100	Original	5/32" - 19/32" (4.8 - 16 mm)	650 PIW	12" (300 mm)	Heavy-duty quarry, cement
Super Screw 105	Original	5/32" - 19/32" (4.8 - 14 mm)	650 PIW	13" (330 mm)	Heavy-duty quarry, cement (extra top cover)
Super Screw 180	Original	9/32" - 13/16" (2.8 - 20 mm)	1,030 PIW	16" (400 mm)	Extreme-duty mining, aggregate
Super Screw 200	Original	9/32" - 3/4" (4.8 - 20 mm)	1,200 PIW	20" (500 mm)	Extreme-duty mining, aggregate
Super Screw 250	Original	9/32" - 3/4" (4.8 - 18 mm)	1,430 PIW	32" (800 mm)	Maximum-capacity heavy-duty systems

Note: Long (-L) versions carry longer staples for thicker belts at the same tension rating. The fastener PIW rating must equal or exceed the belt's rated strength, and fasteners must never run on pulleys smaller than the specified minimum diameter. Consult Fluent Conveyors for belt width configurations and package quantities.

SUPER SCREW SPLICE KITS SPECIFICATIONS

Splice length ordering

System	Bias angle	Splice length formula	Example (36" belt)
Evolution series	18° (4" per 12" of belt width)	Belt width × 1.067, rounded down to nearest inch	Order 38" splice
Original series	5° (1" per 12" of belt width)	Splice length = belt width	Order 36" splice

Rubber compound selection

Compound	Identification	Operating environment
Abrasion resistant (AR)	White	Sand, gravel, quarry, cement, general abrasive streams
Moderately oil resistant (MOR)	Green	Wood products, pulp and paper, sawmills, moderate oil or grease exposure
Heat resistant (HOT)	Orange	Clinker, foundry, hot sand, 170°F – 392°F service
MSHA fire-resistant / anti-static	Blue	Underground mining, coal, silos, explosive atmospheres
Stainless hardware (SS)	Yellow outline	Corrosive environments, chemical and fertilizer processing
FDA/USDA food grade	White (full splice)	Food processing, packaging, washdown sanitation compliance
Sliding bed variants	White or green, bottom ply exposed	Impact beds, continuous sliding beds, bare back belts

THE ENGINEERING ADVANTAGE

This section outlines the fastening and installation methodology behind Super Screw splice kits, covering fastener engagement, belt preparation, tension classification, and hardware metallurgy to ensure the splice matches the belt's rated strength and service environment.

Between-Thread Fastener Engagement:

Self-drilling screws thread between the carcass plies rather than punching through them, leaving the belt's load-bearing fabric intact across the joint.

PIW-Matched Splice Classification:

Each series is rated in pounds per inch of width so the splice rating equals or exceeds the belt's rated tension, preventing the joint from becoming the weakest point in the system.

Skived-Cover Installation Method:

Top cover rubber is skived away to expose the carcass plies before strip placement, letting each fastener engage the structural fabric at the correct depth for its screw length.

Single-Tool Field Installation:

The complete splice installs with an 18-volt cordless drill and the included drive bit in 60 – 120 minutes, in confined spaces, outdoor conditions, and temperature extremes, with no press or cure time required.

316 Stainless Steel Hardware Upgrade:

Screws and internal inserts are available in 316 stainless steel for corrosive, chemical, and washdown environments where galvanized hardware would degrade.



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