

FLEXCO® BOLT SOLID PLATE FASTENING SYSTEM

The Industry Standard for Strong, Long-Lasting Splices

Flexco® Bolt Solid Plate fasteners are engineered to meet the demands of the toughest material handling applications, providing a strong, sift-free splice with superior holding ability. A choice of sizes accommodates belts from 3/16" (5 mm) to over 15/16" (24 mm) thick.



Fastener Size	Bolt Thickness Range		For Belts with Mechanical Fastener Ratings Up to:		Minimum Pulley Diameter	
	in	mm	pl.wt	kn/m	in	mm
1	3/16 - 7/16	5 - 11	150	30	12	300
140, 140SP	3/16 - 7/16	5 - 11	225	45	14	360
190, 190SP	3/16 - 9/16	8 - 14	375	75	18	450
1-1/2	7/16 - 1 1/8	11 - 17	300	50	18	450
2, 2P	9/16 - 1 3/8	14 - 21	440	75	30	760
2-1/4	9/16 - 1 3/8	14 - 30	620	105	36	920
2-1/2	3/4 - 1	19 - 25	450	75	42	1070
3	15/16 & over	24 & over	560	100	48	1220

High strength.

High strength is the result of superior design and plate compression on both the top and bottom sides of the belt. High tensile strength bolts compress top and bottom plates to distribute splice tension evenly across the entire width of each fastener plate. For added strength and pullout resistance, specially formed teeth penetrate deep into the belt carcass – without damaging carcass fibers.

Easy installation.

Field-proven templates, punches, and boring tools make it easy to quickly and accurately prepare belts for fastener installation. Fasteners are easily installed on-site using portable hand tools or power tools. Our exclusive piloted bolts also contribute to faster installation.

Market applications.

- Sand • Gravel • Crushed Stone • Grain
- Coal • Cement • Salt



Rip Repair

Use standard Flexco® Solid Plate fasteners to repair conveyor belt holes and edge tears. For jagged length-wise conveyor belt tears, standard Bolt Solid Plate fasteners can be combined with three-bolt Rip Repair fasteners. Three-bolt Rip Repair fasteners can also be used to bridge "soft" spots in the belt before they become rips.



Installation Tools

90° and 45° Templates

Templates are required for 90° and 45° Bolt Solid Plate fastener installation. Templates simplify installation by providing a guide for accurate bolt-hole placement. Lengths for all standard belt widths are available.

* These tools are also available in steel

FLEXCO® STAPLE

Features:

- Machine-applied, narrow-looped staple splice
- Patented built-in belt stops that ensure accurate installation
- Beveled edges and deep, recessed staple pockets that create a smooth profile
- For belts with mechanical fastener ratings of up to 140 kN/m (800 Pl.W.) and minimum pulley diameters of 225 – 300 mm (9" – 12")

Materials:

- Steel, Stainless Steel

Recommended for:

- Mining operations that prefer a machine-applied, narrow-looped staple splice

Installation

- FST Tool – Portable tool that ensures correct placement and finished profile; sets two staple legs simultaneously



Mechanical Belt Fasteners

Strength, Longevity, and easy installation make them a Smart option for heavy-duty belt conveyor operations.



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Offering Belt Fastening Solutions Since 1907

Partners in Productivity

FLEXCO® SR™ RIVET HINGED FASTENING System

Quality and Performance

The Flexco® SR™ Rivet Hinged Fastening System has earned a reputation for quality and performance in the most demanding material handling applications on earth. Wherever belt conveyors are used, you need a fastener system that lets you set up, splice, and get out of the way ... fast. Flexco SR fasteners deliver the performance, long life, and easy installation that maximise belt availability and help keep productivity on a roll.



Market Applications

- Coal and Hard Rock
- Underground and Surface Mining
- Wood Processing
- Asphalt Plants
- Construction and Road Equipment

Scalloped Edge



Lower fastener profile extends belt splice life
Less effort required for installation
Reduce maintenance costs
Viewport assures proper installation alignment



Fastener Overview

The SR™ (Self-Setting Rivet) Fastener utilizes staggered pattern, multiple rivet attachments that pass between carcass fibers without severing them. The specially shaped head of each pilot nail works in conjunction with the installation tool arvil plate to set the rivets. The same hammer blows that set the rivets also compress the fastener plates into the belt covers. This provides maximum holding ability and distributes splice tension evenly across the width of the belt. Patented scalloped edge provides for lower fastener profile to extend belt life and reduce exposure to belt cleaners and other conveyor components.



FLEXCO® SR™ RIVET HINGED Installation

Aluminum MSRT, MSRT8 & MSRT9 Multiple Rivet Driving Tools

Designed for ease-of-use and portability to make multiple rivet driving simple and fast. The Aluminum MSRT tools hold the belt, fastener strip, and guide blocks securely in place allowing for a low profile, even tension finished splice. The Aluminum MSRT Applicator includes two SR700 Multiple Guide Blocks, two SR759 Multiple Drive Rods, two 4 lbs. Hammers, Lubricant, and one Canvas Carry Bag.



Specially machined Scalloped Edge™ on riser plate allows fasteners to nest securely for accurate alignment of fasteners



Easy installation of rivets with Rapid Loader™ Collated Rivet strips. Load the entire guide block with one strip of collated rivets.

Flexco® Rivet Hinged Fastener Selection Chart

Fastener Size	For Belts With Mechanical Fastener Ratings Up To:		Belt Thickness Range	Recommended Min. Pulley Diameter	
	PIW	kN/m		Operating Tension Under 100% of Belt Rating	Operating Tension Under 75% of Belt Rating
R2	330	60	3-10	127	127
R5	450	79	6-11	230	175
RS-1/2	650	114	8-15	300	250
R6	800	140	10-17	450	400
R6LP	800	140	8-18	450	400
R8	1500	263	10-17	450	400
R9	2000	350	16-25.5	1050	1050

* These tools are also available in steel

FLEXCO® BR™ RIVET SOLID PLATE Solid Plate Fasteners

Flexco® Solid Plate Fasteners for Higher Tension Applications with Smaller Pulley Diameters

The new Flexco® Solid Plate Fasteners fastener is an addition to our Rivet Solid Plate fastening system. Ideal for pulley diameters as small as 14" (350 mm), the 8-rivet configuration provides a staggered, multiple-point rivet attachment to allow rivets to pass between carcass fibers without severing them for maximum resistance to pull-out. Plus the patented Scalloped Edge™ provides for a lower fastener profile to extend belt splice life and reduce exposure to belt cleaner blades and other conveyor components.

Features and Benefits

Flexco® BR6 fasteners nest securely in the tool to allow for fast, accurate installation.



Use Rapid Loader™ Collated Rivet Strips to speed installation of Flexco® BR6 fasteners



Flexco® Rivet Solid Plate Fastener Selection Chart

Fastener Size	For Belts With Mechanical Fastener Ratings Up To:		Belt Thickness Range	Recommended Min. Pulley Diameter		
	PIW	kN/m		Operating Tension 75-100% of Belt Rating	Operating Tension 50-75% of Belt Rating	Operating Tension Under 50% of Belt Rating
BR6	400*	70*	6.5-17	350		
BR10	650	114	8-17	450	400	350
BR14	800	140	10-24	500	860	860

* Contact Flexco Engineering for applications greater than 400 PIW (100N/m).

FLEXCO® BR™ RIVET SOLID PLATE Aluminum Installation Tool

Newly Designed Aluminum MBRT Tool Provides for Easier, Faster Installation of Flexco® Scalloped Edge™ BR™ Fasteners

Recommended for the most demanding high-tension applications, Flexco® BR™ Rivet Plate fasteners are now easier and faster to install with the newly designed Aluminum MBRT Installation Tool. Designed to improve installation time, the tool has a specially machined scalloped edge that eliminates the need for cumbersome clips and cam rod, allowing fasteners to nest securely on the bottom side of the belt. Plus, the enhanced clamp bar holds belt securely in place during installation without the need for additional nails or reinforcement.



Ribbing on the tool and grip surface on the clamp bar provide for secure clamping and enhanced operator safety



Heavy duty clamping method with Acme threading and large knobs to speed clamping time and ensure maximum holding capability.



Newly designed guide block and aligning bar allows operator to move rapidly across the belt for faster installation (MBRT10 Tool shown)

* These tools are also available in steel