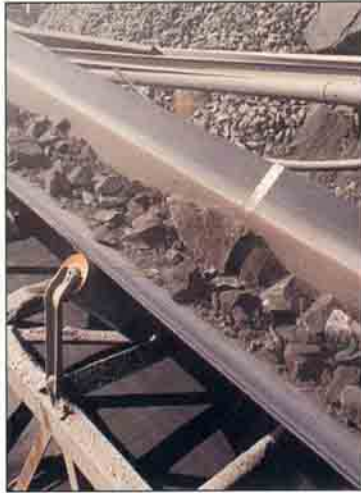


Fastener Systems for Heavy-Duty Applications



Welcome to Flexco

Companies from coal mines to distribution centers turn to Flexco for belt conveyor fasteners and maintenance solutions that help maximize uptime, productivity, and safety. We offer the most comprehensive selection of quality products in the industry. And we back customers with product and application support second to no one.



The support you need, when and where you need it

Flexco products are available through a select network of qualified belting and industrial supply distributors. This worldwide distributor network means we can back our customers with product and application support from locations around the globe.

From fastener selection and installation to troubleshooting, our distributors are equipped and trained to respond to both your day-to-day and emergency needs. Rely on Flexco and Flexco distributors for a broad range of belt conveyor maintenance solutions and unsurpassed product support.

www.flexco.com

For up-to-the-minute information on products, applications, and distributors – as well as late-breaking news and product bulletins – visit our Web site. You'll find links to:

- *Products*
- *Specification Guidelines*
- *On-line Catalog*
- *Technical Support*
- *Application Stories*
- *Frequently Asked Questions (FAQs)*
- *Product Literature*
- *Global Sales & Distribution Facilities*



You'll also find helpful links to industry trade show sites.

Mechanical Fastener Solutions from Flexco

The most respected name in belt conveyor solutions is Flexco. And for a simple reason. Flexco products set the industry's highest standards for design, ease of installation and reliability. Plus, knowledgeable advice and proven solutions help our customers keep conveyor efficiency high and operation costs low.

Flexco fastener systems for heavy-duty applications



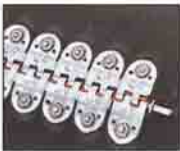
Bolt Solid Plate Fastener System
Pages 4-9



BR™ Rivet Solid Plate Fastener System
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Belt Maintenance Products
Pages 26-28



Bolt Hinged Fastener System
Pages 10-15



SR™ Rivet Hinged Fastener System
Pages 19-25



Belt Conveyor Products
Pages 29-31
(Positioners, Belt Plows & Skirt Clamps)

How to specify the right Flexco fastener

1. Determine belt tension.

Most conveyor belting has a mechanical fastener rating. Care should be taken not to operate the belting or fasteners beyond their recommended ratings.

2. Measure belt thickness.

If fasteners are to be countersunk, measure the belt thickness after a portion of the belt cover has been removed. Choose a fastener size which corresponds to belt thickness.

3. Measure the diameter of the smallest pulley in your drive.

For tail or take-up of the self-cleaning "wing" type pulley, 25% larger diameter dimensions are generally required. Only consider pulleys over which the belt makes at least a 90° wrap.

4. Choose the fastener size that is appropriate for your specifications.

Consult individual Flexco application catalogs to guide your selection.

5. Hinged or solid plate?

When either style is appropriate, solid plate styles are preferred for longer life and to prevent sifting. Hinged fasteners are preferred on portable conveyors and on conveyors with smaller pulley diameters.



Fastener metals

Steel: For most applications, plated steel helps combat mild corrosion.

RustAlloy®: Resists corrosion due to mine water exposure or other chemical attack.

Stainless Steel: Type 316 stainless steel for resistance to abrasion, magnetic attraction, and corrosion.

Everdur: Spark-free copper and silicon alloy for use in grain elevators and other potentially explosive environments.

MegAlloy®: Superior resistance to wear and abrasion. Provides several times the service life of steel.

Promal: Heat-treated, malleable castings for superior abrasion resistance in corrosive environments.

Flexco® Bolt Solid Plate Fastener System

Flexco® Bolt Solid Plate fasteners are engineered to meet the demands of the toughest material-handling applications. They can be applied to belts mechanically rated up to 620 P.I.W. (105 kN/m), and are commonly used for highly abrasive materials such as sand, gravel, and crushed stone, as well as coal, cement, and salt.



Superior strength

Bolt Solid Plate fasteners provide a strong, sift-free splice with superior holding ability. The strength of this fastener is derived from the compression of the plates mounted above and below the belts, with high tensile strength bolts. The bolts compress top and bottom plates to distribute splice tension evenly across the entire width of each fastener plate. For added strength and pull-out resistance, specially formed teeth penetrate deep into the belt carcass – without damaging the carcass fibers.



No. 3, our largest, for belts 15/16" (24 mm) thick or more.

Easy installation

No. 1, our smallest, for belts from 3/16" (5 mm) to 7/16" (11 mm) thick.

Specially designed templates, punches and boring tools make it easy to quickly and accurately punch holes into belts. Fasteners can then be installed on site using portable hand or power tools.

The exclusive Flexco piloted bolt speeds installation. The piloted bolt tip cradles nuts securely in place, and simplifies installation by automatically aligning the bolt and nut threads.



New Quick-Fit™ Pre-Assemblies for Fast Installation



Twin mounting bolts, built into each bottom plate, simplify handling and positioning beneath the belt for faster installation. Additional features include:

- *Piloted bolt tips for easier nut placement*
- *Deeper leading-edge coining for improved cleaner and diverter compatibility*
- *Sharper gripping teeth for superior belt cover penetration*

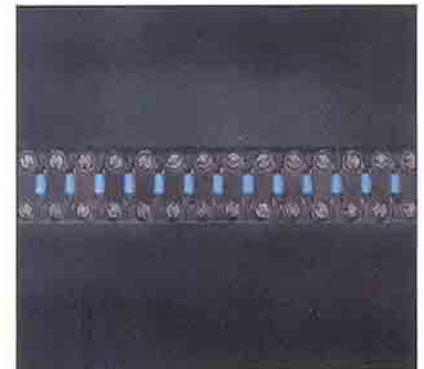


Flexco® Bolt Solid Plate Fastener Selection Guide

Fastener Size	Belt Thickness Range		For Belts with Mechanical Fastener Ratings Up To:		Recommended Minimum Pulley Diameter <i>(Operating Tension 75% - 100% of Belt Rating)</i>	
	in.	mm	P.L.W.	kN/m	in.	mm
1	3/16 - 7/16	5 - 11	150	30	12	300
140	3/16 - 7/16	5 - 11	225	40	14	350
190	5/16 - 9/16	8 - 14	330	60	18	450
1-1/2	7/16 - 11/16	11 - 17	300	50	18	450
2	9/16 - 13/16	14 - 21	440	75	30	750
2-1/4	9/16 - 1-3/16	14 - 30	620	105	36	900
2-1/2	3/4 - 1	19 - 25	450	75	42	1050
3	15/16 & over	24 & over	560	100	48	1200

90° splice for standard bulk conveyors

The conventional 90° splice is the most commonly used splice pattern for standard troughing and non-troughing bulk conveyors. It requires the fewest fasteners and is the easiest and quickest to install. Whenever pulley diameters allow, this is the preferred splice pattern.



45° splice for use with smaller pulleys

A 45° splice can be installed in situations where conveyor pulley diameters are as much as 25% smaller than the recommended size for 90° splices. This angled splice distributes tension over a greater belt area. The 45° splice passes more smoothly over pulleys and under cleaners. Cleaner blade life can be extended even more by skiving the 45° splice.



Recessed Bolt Solid Plate

- When belt top covers are 3/16" (4.8 mm) or more, we recommend countersinking (or recessing) fastener plates. Countersinking permits deeper penetration of fastener teeth into the carcass. This reduces plate exposure and extends splice life. Countersinking also contributes to reduced noise on return idlers. And because countersinking reduces the effective thickness of the belt, smaller fasteners may be used in applications employing smaller pulley diameters.



Flexco® Bolt Solid Plate

Additional Splice Patterns

Rip Repair

Use standard Flexco® Bolt Solid Plate fasteners to repair conveyor belt edge tears and holes.

For jagged length-wise conveyor belt tears, standard Bolt Solid Plate fasteners can be combined with the three-bolt Rip Plate fasteners. Each is installed alternately, across the entire length of the rip, as displayed in the photo at right.

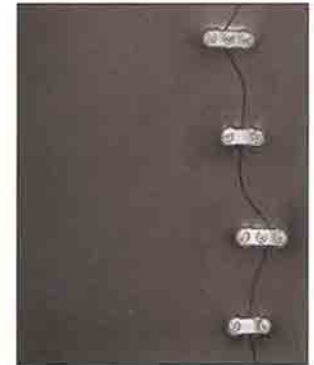
Three-bolt Rip Plate fasteners can also be used to bridge “soft” spots in the belt before they become rips.

Rip Repair Selection Information

Belt Thickness		Fastener Size
in.	mm	
1/4-1/2	6-13	RP1
3/8-13/16	10-21	RP2
9/16-1-3/16	14-30	2-1/4

Rip Repair Fasteners

Ordering Number	Box Qty.
Steel	
RP1E	25
RP1C	100
RP2E	25
RP2C	100
2-1/4E	25
2-1/4C	100
Stainless	
RP1ES	25
RP2ES	25
2-1/4ES	25
Everdur	
2-1/4EE	25



Three-bolt Rip Plate fasteners are extra-long and should be installed crosswise to the longitudinal rip. Two bolts should be attached to the “flap” side of the belt tear.

Wedlok® High Tension Splice

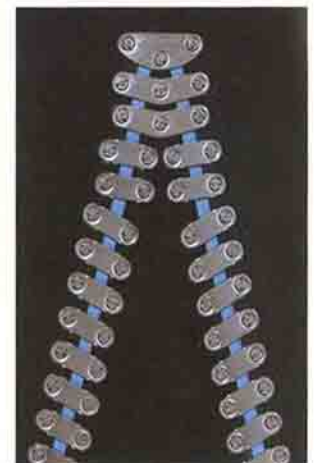
Wedlok® splices cost substantially less than a vulcanized splice, take considerably less installation time, and can be installed by your own maintenance crews on belts with mechanical fastener ratings up to 700 P.I.W. (123 kN/m).

The Wedlok splice requires standard No. 2 Bolt Solid Plate fasteners, and the Wedlok Kit consisting of a special tip, chevron and tail fasteners. A set of three Wedlok templets is also required.

Wedlok®

Description	Ordering Number
Splice Kit*	2W
Stainless Splice Kit	2WS
Leading End Kit	2WL
Trailing End Kit	2WT
Templet Set	T2W
72" Side Templet	T2WS72

*Stainless Top Plates, Balance Steel.



90° Splice for Bucket Elevator Belts

The standard 90° splice is recommended for most elevator belts. Bolt Solid Plate fasteners provide a smooth underside on the belt, protecting pulley bearings and lagging from the pounding resulting from bolted over-lap splices. The splice delivers tensile strength equal to that of a lap joint. And it can be made in confined spaces. For extremely heavy jobs, 35% greater strength than a lap joint can be obtained by adding a splice pad constructed from all-nylon conveyor belt carcass material.

Refer to page 7 for ordering standard Flexco fasteners.



Flexco® Bolt Solid Plate

Selection Charts

Fasteners

One "E" box contains 25 complete fastener sets.
A set consists of a top plate, a bottom plate,
two nuts, two bolts and an assembly clip.



"E" Box (25 Fastener Sets)

Ordering Number							
Steel	MegAlloy® Top & Bottom Plates, Steel Bolts & Nuts	Stainless – 300 Series	Everdur	Promal Top Plates Balance Steel	MegAlloy® Top Plates Balance Steel	300 Series Stainless Top Plates Balance Steel	1/8" Rubber- Covered Top Plates Balance Steel
1E							
140E	140EMAP	140ES	140EE	140EP	140EMA	140EST	
190E	190EMAP	190ES	190EE		190EMA	190EST	190ERCT
1-1/2E	1-1/2EMAP	1-1/2ES	1-1/2EE	1-1/2EP	1-1/2EMA	1-1/2EST	1-1/2ERCT
2E	2EMAP	2ES	2EE	2EP	2EMA	2EST	2ERCT
2-1/4E	2-1/4EMAP	2-1/4ES	2-1/4EE		2-1/4EMA	2-1/4EST	2-1/4ERCT
2-1/2*							
3*							

*10 Fastener Sets

"C" Bucket

(100 Fastener Sets – Bottom Plates Pre-Assembled)

Ordering Number		
Steel	MegAlloy® Top Plates Balance Steel	MegAlloy® Top & Bottom Plates, Steel Bolts & Nuts
1C		
140C	140CMA	140CMAP
190C	190CMA	190CMAP
1-1/2C	1-1/2CMA	1-1/2CMAP
2C	2CMA	2CMAP
2-1/4C	2-1/4CMA	
2-1/2C*		
3C*		

* Packaged in Cartons

NOTE: Stainless and Everdur fastener sets are also available in "C" buckets.

Fastener Sets Required For A Complete Joint

Belt Width		Fastener Size 1, 140 & 190		Fastener Size 1-1/2, 2 & 2-1/4				Fastener Size 2-1/2 & 3					
		90°		45°		90°		45°		90°		45°	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
12	300	10	9	12	12	8	8	9	10	6	6	7	7
18	450	15	14	19	19	12	11	15	15	9	9	12	12
24	600	20	19	26	26	16	15	21	21	13	13	17	16
30	750	25	24	33	33	20	19	27	27	16	16	21	21
36	900	30	29	41	40	24	23	33	32	19	19	26	26
	1000		32		45		26		36		21		29
42	1050	35	34	48	47	28	27	39	38	22	21	31	30
48	1200	40	39	55	54	32	31	44	43	26	26	35	35
54	1350	45	44	63	61	36	35	48	49	29	29	40	40
60	1500	50	49	69	68	40	39	56	55	32	32	44	44
72	1800	60	59	83	82	48	47	68	65	39	39	53	53



Extra Piloted Bolts (100 per Box)

For Fastener Number	Ordering Number		
	Steel	Stainless – 300 Series	Everdur
1	20391		
140 & 190	20399	20400	20397
RP1	20398		20397
1-1/2	20402	20407	20409
2 & RP2	20406	20407	20409
2-1/4	20410	20411	20412
2-1/2 & 3	20414		

Extra Nuts (100 per Box)

For Fastener Number	Ordering Number		
	Steel	Stainless – 300 Series	Everdur
1, 140, 190 & RP1	20377	20381	20387
1-1/2, 2 & 2-1/4 & RP2	20378	20382	20388
2-1/2 & 3	20379		

To maximize fastener service life, see page 3 to select the fastener metal for your application.

Flexco® Bolt Solid Plate

Installation Tools and Supplies

The only tools needed for Bolt Solid Plate fastener installation are a templet and portable hand or power tools such as wrenches and belt punches. Impact wrench-driven power tools are recommended since they can speed installation time by at least 50%.



Hand Installation Tools

Description	For Fastener Number	Ordering Number
Bolt Horn		2BH
Punch	1, 140, 190 & RP1	P1P
	1-1/2, 2, 2-1/4 & RP2	P2P
	2-1/2 & 3	P3P
Boring Bit	1, 140, 190 & RP1	B1B
	1-1/2, 2, 2-1/4 & RP2	B2B
	2-1/2 & 3	B3B
Wrench	1, 140, 190 & RP1	S1S
	1-1/2, 2, 2-1/4 & RP2	S2S
	2-1/2 & 3	S3S

Power Installation Tools

Description	For Fastener Number	Ordering Number
Power Punch	1, 140, 190 & RP1	HP1
	1-1/2, 2, 2-1/4 & RP2	HP2
	2-1/2 & 3	HP3
Power Boring Bit	1, 140, 190 & RP1	HB1
	1-1/2, 2, 2-1/4 & RP2	HB2
	2-1/2 & 3	HB3
Power Wrench	1, 140, 190 & RP1	HW1
	1-1/2, 2, 2-1/4 & RP2	HW2
	2-1/2 & 3	HW3
Quick Change Chuck		5552



Bolt Breaker

Description	For Fastener Number	Ordering Number
Bolt Breaker (Two Per Package)	1, 140, 190 & RP1	110
	1-1/2, 2, 2-1/4 & RP2	112
	2-1/2 & 3	113



Bolt Breaker

Flexco-Lok® Tape

Flexco-Lok® Tape is a rigid nylon tape that helps eliminate belt ripple on plied or solid-woven belting, so belts run smoothly over pulleys and under cleaners. Also helps seal the splice against seepage of fines and moisture.

Flexco-Lok®

Belt Tape: 100' (30 m) per Carton

Fastener Size	Ordering Number
1 & 140	FL7C
190, 1-1/2 2 & 2-1/4	FL11C



Flexco® Cracking Chisel

With a hammer and cracking chisel, worn top plates can be easily replaced without resorting to replacement of the entire splice.

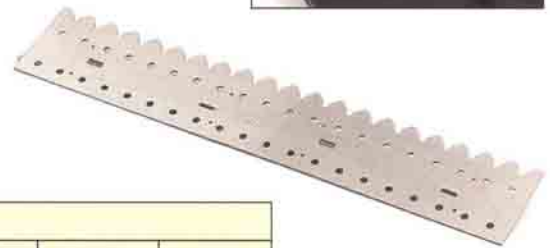
Cracking Chisel

Nut Size	Ordering Number
1, 140 & 190	C1C
1-1/2, 2 & 2-1/4	C2C



90° and 45° Templets

Templets for Bolt Solid Plate fastener installation are required for 90° or 45° splice applications. Templets simplify installation by providing an accurate guide for precise placement of bolt holes. Lengths for all standard belt widths are available.



90° Templets

Belt Width		Ordering Number							
in.	mm	1	140	190	1-1/2	2	2-1/4	2-1/2	3
12	300	1-12	140-12	190-12	1-1/2-12	2-12			
14	350	1-14	140-14	190-14					
16	400	1-16	140-16	190-16					
18	450	1-18	140-18	190-18	1-1/2-18	2-18			
20	500	1-20	140-20	190-20	1-1/2-20			2-1/2-20	
24	600	1-24	140-24	190-24	1-1/2-24	2-24	2-1/4-24	2-1/2-24	
26	650			190-26					
28	700			190-28					
30	750	1-30	140-30	190-30	1-1/2-30	2-30	2-1/4-30	2-1/2-30	
36	900	1-36	140-36	190-36	1-1/2-36	2-36	2-1/4-36	2-1/2-36	3-36
42	1050	1-42	140-42	190-42	1-1/2-42	2-42	2-1/4-42	2-1/2-42	3-42
48	1200	1-48	140-48	190-48	1-1/2-48	2-48	2-1/4-48	2-1/2-48	3-48
54	1350				1-1/2-54	2-54	2-1/4-54	2-1/2-54	
60	1500				1-1/2-60	2-60	2-1/4-60	2-1/2-60	3-60
72	1800				1-1/2-72	2-72	2-1/4-72	2-1/2-72	3-72



45° Templets

Belt Width		Ordering Number				
in.	mm	1	140	190	1-1/2	2
12	300	1-12-45				
18	450	1-18-45		190-18-45	1-1/2-18-45	
24	600	1-24-45	140-24-45	190-24-45	1-1/2-24-45	2-24-45
30	750	1-30-45	140-30-45	190-30-45	1-1/2-30-45	2-30-45
36	900	1-36-45	140-36-45	190-36-45	1-1/2-36-45	2-36-45
42	1050		140-42-45	190-42-45	1-1/2-42-45	2-42-45
48	1200	1-48-45	140-48-45	190-48-45	1-1/2-48-45	
60	1500		140-60-45	190-60-45	1-1/2-60-45	2-60-45

Flexco® Bolt Hinged Fastener System

For belts operating over smaller pulleys – such as in construction equipment and road machinery – Flexco® Bolt Hinged fasteners are strong, dependable and easy-to-install.

Designed as a compression fastener, Bolt Hinged is fastened to the belt ends with high tensile strength bolts. These compress the plates in the belt cover. Additional holding capability is provided by the fastener teeth that inbed in the belt without damage to the belt carcass. So splice tension is distributed across the entire plate width and teeth secure the fastener to resist pull-out.



No. 375X

No. 550

Application versatility

Hinged construction makes Bolt Hinged fasteners ideal for many types of machinery that use smaller pulleys but still require a high-strength splice. And for applications requiring frequent belt-length alterations, the joint can be separated simply by removing the hinge pin.



Easy installation

On-site installation requires only portable hand or power tools. A specially designed templet and boring tool or belt punch quickly and accurately punches bolt holes into belts. Installation is also simplified by our exclusive piloted bolt. Tapered bolt tips cradle nuts securely in place and eliminate the need to twist nuts onto bolts by hand during installation set-up.



Flexco® Bolt Hinged Fastener Selection Guide

Fastener Size	Belt Thickness Range		For Belts with Mechanical Fastener Ratings Up To:		Recommended Minimum Pulley Diameter (Operating Tension 75% - 100% of Belt Rating)	
	in.	mm	P.L.W.	kN/m	in.	mm
375X	1/4 - 13/32	6 - 11	190	33	6	150
550	1/4 - 5/8	6 - 16	300	52	9	225

Flexco® Bolt Hinged

Selection Charts

“J” carton complete fastener joint

Each “J” carton includes one complete belt joint for belt widths ranging from 12” (300 mm) to 60” (1500 mm). Cartons include:

- 2 Fastener Strips
- 1 Hinge Pin
- Filler Tubing
- 1 Gauge Pin
- 2 Hinge Pin Washers
- Required Piloted Bolts, Nuts, Clips



375X Fasteners

Belt Width		Ordering Number					
		NC Steel Joint with Nylon Covered Steel Cable *	NCS Steel Joint with Nylon Covered Stainless Cable *	SC Steel Joint with Bare Steel Cable *	SSC Stainless Joint with Bare Stainless Cable **	NCS Stainless Joint with Nylon Covered Stainless Cable **	NB Everdur Joint with Nylon Covered Bronze Cable ***
in.	mm						
12	300	375XJ12NC					
14	350	375XJ14NC					
16	400	375XJ16NC					
18	450	375XJ18NC	375XJ18NCS			375XSJ18NCS	375XEJ18NB
20	500	375XJ20NC					
24	600	375XJ24NC	375XJ24NCS	375XJ24SC	375XSJ24SSC	375XSJ24NCS	375XEJ24NB
26	650	375XJ26NC					
30	750	375XJ30NC	375XJ30NCS		375XSJ30SSC	375XSJ30NCS	375XEJ30NB
36	900	375XJ36NC	375XJ36NCS	375XJ36SC	375XSJ36SSC	375XSJ36NCS	375XEJ36NB
42	1050	375XJ42NC	375XJ42NCS		375XSJ42SSC	375XSJ42NCS	375XEJ42NB
48	1200	375XJ48NC	375XJ48NCS	375XJ48SC	375XSJ48SSC	375XSJ48NCS	
60	1500	375XJ60NC			375XSJ60SSC		

550 Fasteners

Belt Width		Ordering Number						
		NC Steel Joint with Nylon Covered Steel Cable *	NCS Steel Joint with Nylon Covered Stainless Cable *	SC Steel Joint with Bare Steel Cable *	SSC Steel Joint with Bare Stainless Cable *	NAC Steel Joint with Nylon Covered Armored Cable *	NCS Stainless Joint with Nylon Covered Stainless Cable **	MA MegAlloy® Joint with Bare Stainless Cable ***
in.	mm							
18	450	550J18NC					550SJ18NCS	550MAJ18SSC
20	500	550J20NC						
24	600	550J24NC	550J24NCS	550J24SC	550J24SSC	550J24NAC	550SJ24NCS	550MAJ24SSC
26	650	550J26NC						
30	750	550J30NC	550J30NCS	550J30SC	550J30SSC	550J30NAC	550SJ30NCS	550MAJ30SSC
36	900	550J36NC	550J36NCS	550J36SC	550J36SSC	550J36NAC	550SJ36NCS	550MAJ36SSC
42	1050	550J42NC	550J42NCS	550J42SC	550J42SSC	550J42NAC	550SJ42NCS	550MAJ42SSC
48	1200	550J48NC	550J48NCS	550J48SC	550J48SSC	550J48NAC	550SJ48NCS	550MAJ48SSC
54	1350	550J54NC				550J54NAC		
60	1500	550J60NC					550SJ60NCS	

* “J” CARTON – Continuous Strip w/Steel Nuts & Bolts

** “J” CARTON – Continuous Strip w/Stainless Nuts & Bolts

*** “J” CARTON – Individual Plates w/Steel Nuts & Bolts

To maximize fastener service life, see page 3 to select the fastener metal for your application.

Flexco® Bolt Hinged

Selection Charts

Bulk fasteners



Bulk cartons include individual fastener plates, piloted bolts and nuts. Choose cartons containing 50 sets of single-bolt fasteners, 25 sets of two-bolt fasteners, or 18 sets of three-bolt fasteners.

Note: When ordering bulk fastener sets, hinge pins and plastic filler tubing must be ordered separately.

Bulk Fasteners With Bolts & Nuts

Description	Ordering Number	
	Per Set	Per Container
Steel		
Two-Plate Fastener	375X-2STS	375X-2
Three-Plate Fastener	375X-3STS	375X-3
Single-Plate Fastener	550-1STS	550-1
Three-Plate Fastener	550-3STS	550-3
Stainless 300 Series		
Two-Plate Fastener	375XS-2STS	375XS-2
Three-Plate Fastener	375XS-3STS	375XS-3
Single-Plate Fastener	550S-1STS	550S-1
MegAlloy®		
Single-Plate Fastener		550MA-1

Extra piloted bolts and nuts

Replacement piloted bolts and nuts are packaged separately, 100 per box.



Extra Piloted Bolts

For Fastener Number	Ordering Number		
	Steel	Stainless – 300 Series	Everdur
375	20398	20400	20397
550	20399	20400	20397

Extra Nuts

For Fastener Number	Ordering Number		
	Steel	Stainless – 300 Series	Everdur
375X	20380	20381*	20387*
550	20380	20381*	20387*

* Slotted Nuts

Plastic filler tubing reduces sifting

Flexco Plastic Filler Tubing is furnished in all “J” cartons, and keeps sifting of fine materials through the hinged joint to a minimum. It is included with every “J” carton and is sold by the 100-foot (30 m) reel.

Filler Tubing

Description	Qty.	Ordering Number
375X & 550	100' (30 m)/Pkg.	30894



Flexco® Bolt Hinged

Extra Hinge Pins

Extra Hinge Pins

For 375X and 550

Belt Width		Ordering Number									
		AC (1/4" dia.) Bare Armored Cable		ACS (17/64" dia.) Bare Armored Stainless Cable		NAC (1/4" dia.) Nylon Covered Armored Cable		NC (1/4" dia.) Nylon Covered Steel Cable		NCS (1/4" dia.) Nylon Covered Stainless Cable*	
in.	mm	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)
12	300							NC-12-1	NC-12		NCS-12
14	350							NC-14-1	NC-14		NCS-14
16	400							NC-16-1	NC-16		NCS-16
18	450	AC-18-1	AC-18			NAC-18-1	NAC-18	NC-18-1	NC-18		NCS-18
20	500							NC-20-1	NC-20		NCS-20
24	600	AC-24-1	AC-24			NAC-24-1	NAC-24	NC-24-1	NC-24	NCS-24-1	NCS-24
26	650	AC-26-1	AC-26			NAC-26-1	NAC-26		NC-26		
30	750	AC-30-1	AC-30	ACS-30-1	ACS-30	NAC-30-1	NAC-30	NC-30-1	NC-30	NCS-30-1	NCS-30
36	900	AC-36-1	AC-36	ACS-36-1	ACS-36	NAC-36-1	NAC-36	NC-36-1	NC-36	NCS-36-1	NCS-36
42	1050	AC-42-1	AC-42	ACS-42-1	ACS-42	NAC-42-1	NAC-42	NC-42-1	NC-42	NCS-42-1	NCS-42
48	1200	AC-48-1	AC-48	ACS-48-1	ACS-48	NAC-48-1	NAC-48	NC-48-1	NC-48	NCS-48-1	NCS-48
54	1350	AC-54-1		ACS-54-1	ACS-54	NAC-54-1	NAC-54	NC-54-1	NC-54	NCS-54-1	NCS-54
60	1500	AC-60-1		ACS-60-1	ACS-60	NAC-60-1	NAC-60	NC-60-1	NC-60	NCS-60-1	NCS-60
72	1800	AC-72-1				NAC-72-1	NAC-72	NC-72-1	NC-72	NCS-72-1	NCS-72

Hinge pin material selection

AC – Bare Armored Cable: Heavy-duty, long-wearing pin popular in underground mining applications. Armor wrapping protects interior wires.

ACS – Bare Armored Stainless Steel Cable: The same advantages as bare armored cable plus corrosion resistance.

NAC – Nylon Covered Armored Cable: Combines a durable armored steel wrap with a nylon covering for smooth operation and long service life. Nylon covering prevents pin migration. Not recommended in wet, abrasive applications.

NC – Nylon Covered Steel Cable: Nylon covering prevents pin migration. Not recommended in wet, abrasive applications.

NCS – Nylon Covered Stainless Steel Cable: For greater corrosion resistance. Not recommended in wet, abrasive applications.

SC – Bare Steel Cable: Recommended for abrasive or gritty material conveyance.

SSC – Bare 300 Series Stainless Steel Cable: For conditions where corrosion attacks steel pins.

NB – Nylon Covered Bronze Cable: Fully non-magnetic hinge pin.

Extra Hinge Pins

For 375X and 550

Belt Width		Ordering Number					
		SC (1/4" dia.) Bare Steel Cable		SSC (7/32" dia.) Bare Stainless Cable*		NB (1/4" dia.) Nylon Covered Bronze Cable	
in.	mm	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)
18	450					NB-18-1	
24	600	SC-24-1	SC-24	SSC-24-1	SSC-24	NB-24-1	
26	650		SC-26				
30	750	SC-30-1	SC-30	SSC-30-1	SSC-30	NB-30-1	
36	900	SC-36-1	SC-36	SSC-36-1	SSC-36	NB-36-1	
42	1050	SC-42-1	SC-42	SSC-42-1	SSC-42	NB-42-1	
48	1200	SC-48-1	SC-48	SSC-48-1	SSC-48		

* 300 Series



Flexco® Bolt Hinged

Installation Tools and Supplies

The only tools needed for Bolt Hinged fastener installation are the hand and power tools described here, and the Flexco Bolt Hinged Curved Templet.



Hand Installation Tools

Description	For Fastener Number	Ordering Number
Punch	375X & 550	P1P
Boring Bit	375X & 550	B1B
Wrench	375X & 550	100* S1S**

* For use with Steel No. 375X or Steel No. 550 nuts.

** For use with Stainless No. 375X or Stainless No. 550 nuts.



Power Installation Tools

Description	For Fastener Number	Ordering Number
Power Punch	375X & 550	HP1
Power Boring Bit	375X & 550	HB1
Power Wrench	375X & 550	H100* HW1**
Quick Change Chuck	375X & 550	5552

* For use with Steel No. 375X or Steel No. 550 nuts.

** For use with Stainless No. 375X or Stainless No. 550 nuts.

Bolt Breaker

Description	For Fastener Number	Ordering Number
Bolt Breaker	1, 140, 190 & RP1	110
(Two Per Package)	1-1/2, 2, 2-1/4 & RP2	112
	2-1/2 & 3	113



Flexco® Cracking Chisel

With a hammer and cracking chisel, worn top plates can be easily replaced without resorting to replacement of the entire splice.

Cracking Chisel

Nut Size	Ordering Number
1, 140 & 190	C1C
1-1/2, 2 & 2-1/4	C2C



Curved Templets

The curved templet is required to ensure accurate placement of punched or drilled holes. Exclusive concave cut made with Flexco® Bolt Hinged templets provides uniform tension across full belt end and reduces the potential for splice edge failure. Templets are available in all standard belt widths.

Curved Templets

Belt Width		Ordering Number	
in.	mm	375X	550
12	300	375X-12	512
14	350	375X-14	
16	400	375X-16	516
18	450	375X-18	518
20	500	375X-20	520
24	600	375X-24	524
26	650	375X-26	526
30	750	375X-30	530
36	900	375X-36	536
42	1050	375X-42	542
48	1200	375X-48	548
54	1350	375X-54	554
60	1500	375X-60	560
72	1800	375X-72	572

NOTE: All templets up to and including 72" are curved. For belt widths over 72," straight templet supplied.



Alligator® 400 Series Curved Belt Cutter

For even tension distribution across the entire width of the belt, belt cuts must be made in a concave shape. The Alligator® Curved Belt Cutter is used to cut belts for Flexco Hinged Fasteners and makes it easy to cut the precise curve necessary to equalize belt tension.

Curved Belt Cutters

Description	Belt Width		Ordering Number
	in.	mm	
Cutter Complete	30	750	400430
	36	900	400436
	42	1050	400442
	48	1200	400448
	60	1500	400460

NOTE: Belt widths over 72" (1800 mm) require straight cutters.



Flexco® BR™ Rivet Solid Plate Fastener System

Our heavy-duty Rivet Solid Plate Fastener System is recommended for the most demanding high-tension applications. The staggered, multiple-point attachment delivers long-lasting holding ability for mechanical ratings up to 800 P.I.W. (140 kN/m).

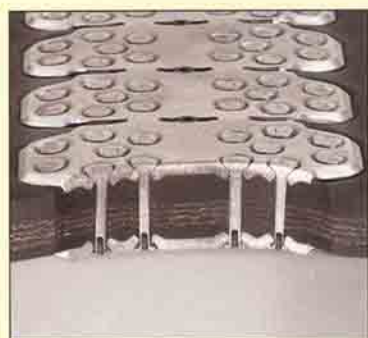
Rivet Solid Plate fasteners feature a smooth coined-edge profile eliminating fastener projections and potential hang-ups. The broad width and heavy gauge of the plates also results in long fastener wear life.



Easy installation

Thanks to the Flexco self-setting rivet method and portable MBRTA installation tools, Rivet Solid Plate fasteners install quickly and easily. Rivets are installed from the top side of the belt. And the specially shaped head of each pilot nail works with the installation tool's anvil plate to set rivets. Hammer blows drive and set rivets and also compress fastener plates uniformly for the strongest possible splice.

How Flexco® BR™ Rivet Solid Plate Fasteners Work



Staggered, multiple-point rivet attachments pass between carcass fibers without severing them. The specially shaped head of each pilot nail works in conjunction with the installation tool anvil plate to set the rivets. The same hammer blows that set the rivets also compress the fastener plate into the belt cover. This provides maximum holding ability and distributes splice tension evenly across the width of the belt.



BR-10



BR-14

Flexco® BR™ Rivet Solid Plate Fastener Selection Guide

Fastener Size	Belt Thickness Range		For Belts with Mechanical Fastener Ratings Up To:		Recommended Minimum Pulley Diameter (Operating Tension 75% - 100% of Belt Rating)	
	in.	mm	P.I.W.	kN/m	in.	mm
BR-10	7/32 - 11/16	6 - 17	650	114	18	450
BR-14	13/32 - 15/16	10 - 24	800	140	36	900

Flexco® BR™ Rivet Solid Plate

Selection Charts

Fasteners

Every box of Rivet Solid Plate fasteners contains 35 fastener plate sets – enough to splice a belt up to 60" (1500 mm) wide. Each fastener strip contains seven plates for use on the top or bottom of the belt.



Fasteners

Box 35 Fastener Sets

Fastener Metal	Ordering Number
Steel	BR-10
MegAlloy®	BR-10MA
Stainless	BR-10S
Everdur	BR-10E
Steel	BR-14
MegAlloy®	BR-14MA

Flexco® BR™ Rivet Solid Plate Fasteners and Rivets Required for a Complete Joint

Belt Width		Sets of Fasteners Required	Rivets Needed for Complete Joint	
in.	mm	BR-10 or BR-14	BR-10	BR-14
18	450	10	100	140
24	600	14	140	196
26	650	15	150	210
28	700	16	160	224
30	750	17	170	238
36	900	21	210	294
40	1000	23	230	322
42	1050	24	240	336
48	1200	27	270	378
48	1200	28	280	392
54	1350	31	310	434
60	1500	35	350	490
72	1800	41	410	574
72	1800	42	420	588
84	2100	48	480	672

Rivets

Self-Setting Pre-Assembled With Pilot Nails

Ordering Number	
Steel	Stainless Type 430
Box (100 Rivets)	
SRA-100	
SRB-100	
SRC-100	
Box (250 Rivets)	
SRA	SRA-S
SRB	SRB-S
SRC	SRC-S
SRC/D	SRC/D-S
SRD	SRD-S
SRE	SRE-S
SRF	SRF-S
SRG	SRG-S
SRH	SRH-S
SRI	
SRJ	
SRK	
Bucket (2000 Rivets)	
SRA-2M	SRA-S-2M
SRB-2M	SRB-S-2M
SRC-2M	SRC-S-2M
SRC/D-2M	SRC/D-S-2M
SRD-2M	SRD-S-2M
SRE-2M	SRE-S-2M
SRF-2M	SRF-S-2M
SRG-2M	SRG-S-2M
	SRH-S-2M

Rivets

- Boxes of 250 rivets are available in all rivet sizes, SRA through SRK. Rivet sizes correspond to belt thickness.
- Boxes of 100 rivets are available in sizes SRA, SRB, and SRC.
- Bulk containers of 2,000 rivets are available in sizes SRA through SRH in convenient and economical two-thousand count buckets.



Rivet Selection Chart

Fastener Size	Belt Thickness Range		Rivet Size
	in.	mm	
BR-10	7/32-5/16	6-8	SRA
	9/32-3/8	7-10	SRB
	11/32-7/16	9-11	SRC
	13/32-1/2	10-13	SRC/D
	15/32-9/16	12-14	SRD
	17/32-5/8	13-16	SRE
	19/32-11/16	15-17	SRF
BR-14	13/32-1/2	10-13	SRD
	15/32-9/16	12-14	SRE
	17/32-5/8	13-16	SRF
	19/32-11/16	15-17	SRG
	21/32-3/4	16-19	SRH
	23/32-13/16	18-21	SRI
	25/32-7/8	20-22	SRJ
	27/32-15/16	21-24	SRK

To maximize fastener service life, see page 3 to select the fastener metal for your application.

Flexco® BR™ Rivet Solid Plate

Installation Tools and Supplies

MBRTA Multiple Rivet Driving Tool

An all-in-one tool for BR™ multiple rivet installation. It holds the belt, fastener strip, and the BR500D guide blocks (included) securely in place. Then, using the SR759 drive rod, five rivets can be driven into the belt simultaneously. Each guide block can be preloaded to install four fastener plates. Includes two SR759 Multiple Drive Rods, BR500D Multiple Guide Blocks, one SR-50 Driver Tool, one BR151 Bridge Removal Tool, one Nut Driver, two 4 lb. Hammers, Lubricant and a Metal Tool Box.

MBRTA Applicator Tool

Tool Width		Ordering Number	Multiple Guide Blocks Included
in.	mm		
30	750	MBRTA-30	4
36	900	MBRTA-36	5
42	1050	MBRTA-42	6
48	1200	MBRTA-48	7
60	1500	MBRTA-60	9
72	1800	MBRTA-72	10
84	2130	MBRTA-84	12
96	2430	MBRTA-96	14



Flexco® Power Driver Rivet Fastener Installation Tool

The Flexco® Power Driver is the fast, easy way to install Flexco® BR™ rivet fasteners. It is portable, lightweight and compact. The tool requires an air source of 60-85 psig (4.1-5.8 bars) with a recommended setting of 75 psig (5.1 bars) that delivers a minimum of 8 SCFM. It must be connected to the air source by no more than 20 feet (6 m) of air hose and fittings.

Flexco® Power Driver

Ordering Number

FPD1



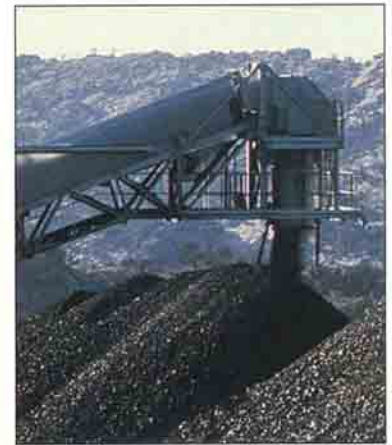
Flexco® SR™ Scalloped Edge™ Fastener System

Lower fastener profile extends splice life and improves performance

The Flexco® SR™ Scalloped Edge™ fastener features a low profile that significantly reduces the fastener's exposure to cleaner blades, skirt rubber, and return idlers. Reduced wear and tear on the fastener extends the life of the splice to maximize belt availability and to help keep productivity on a roll.

Designed for rubber plied and PVC solid woven belting, and for worn belts unfit for vulcanized splices, the Flexco SR fastener features a patented Scalloped Edge design. The scalloped design contributes to improved fastener profile resulting in increased compatibility with belt cleaners and improved cleaner-tip wear. The staggered rivet pattern also provides maximum holding ability by allowing the rivets to pass between the carcass fibers without damaging them.

A built-in viewport (see photo at right) simplifies fastener positioning. And self-setting rivets are installed from the top side of the belt for faster installation.



Scalloped Edge



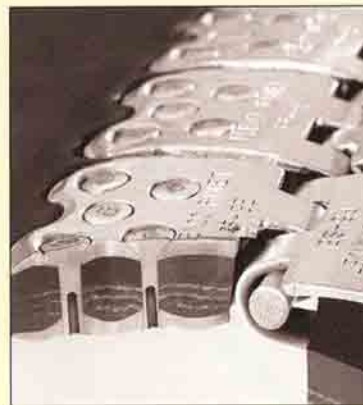
Viewport

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

How Flexco® SR™ Scalloped Edge™ Fasteners Work



R2



R5

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 anvil 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.

Flexco® SR™ Scalloped Edge™ Fastener System

Flexco® SR™ Scalloped Edge™ Fastener Selection Guide

Fastener Size	Belt Thickness Range		For Belts with Mechanical Fastener Ratings Up To:		Recommended Minimum Pulley Diameter (Operating Tension 75% - 100% of Belt Rating)	
	in.	mm	P.I.W.	kN/m	in.	mm
R2	1/8 - 3/8	3 - 10	330	60	5	125
R5	7/32 - 7/16	6 - 11	450	79	9	230
R5-1/2	5/16 - 19/32	8 - 15	650	114	12	300
R6	13/32 - 11/16	10.5 - 17	800	140	18	450
RAR6LP	5/16 - 23/32	8 - 18	800	140	18	450
RAR8	13/32-11/16	10.5-17	1500	263	18	450



R2

R5

R5-1/2

R6

RAR8

Unique two teeth/two rivet combination offers highest efficiencies in strength and durability for medium-duty applications.

Ideal for applications such as wood processing or construction equipment with smaller pulleys as well as for underground mining.

Midsized R5-1/2 is ideal as an upgrade for R5 or in applications where pulley size prohibits the use of R6.

Can be used in certain applications up to 1200 P.I.W. (210 kN/m) with R6 RustAlloy® and stainless steel rivets. Contact Flexco Marketing/Engineering Department for details.

Eight-rivet pattern designed for use on mainline and panel belts with mechanical fastener ratings up to 1500 P.I.W. (263 kN/m). For questions regarding RAR8 and your application, contact the Flexco Marketing or Engineering department.

RAR6LP

Features lower fastener profile for improved compatibility with cleaner blades, skirt rubber and return idlers.

Flexco® SR™ Scalloped Edge™

Selection Charts



Use the charts below to match the Flexco® SR™ Scalloped Edge™ fasteners to your needs. Find the fastener metal type required for your application. Then choose the ordering number that corresponds to your belt's width.

Flexco® R2 (Two fastener strips per package)

Belt Width		Ordering Number		Rivets Required For One Joint
in.	mm	Steel	Stainless 300 Series	
12	300	R2-12/300	R2S-12/300	24
18	450	R2-18/450	R2S-18/450	40
24	600	R2-24/600	R2S-24/600	52
30	750	R2-30/750	R2S-30/750	64
36	900	R2-36/900	R2S-36/900	80
42	1050	R2-42/1050	R2S-42/1050	92
48	1200	R2-48/1200	R2S-48/1200	108
54	1350	R2-54/1350	R2S-54/1350	120
60	1500	R2-60/1500	R2S-60/1500	136

Flexco® Scalloped Edge™ R5 (Two fastener strips per package)

Belt Width		Ordering Number			Rivets Required For One Joint
in.	mm	Steel	Stainless 300 Series	RustAlloy® 400 Series SS	
18	450	R5-SE-18/450	R5S-SE-18/450		100
24	600	R5-SE-24/600	R5S-SE-24/600	RAR5-SE-24/600	130
26	650	R5-SE-26/650		RAR5-SE-26/650	140
30	750	R5-SE-30/750	R5S-SE-30/750	RAR5-SE-30/750	160
36	900	R5-SE-36/900	R5S-SE-36/900	RAR5-SE-36/900	200
42	1050	R5-SE-42/1050	R5S-SE-42/1050	RAR5-SE-42/1050	230
48	1200	R5-SE-48/1200	R5S-SE-48/1200	RAR5-SE-48/1200	270
54	1350	R5-SE-54/1350		RAR5-SE-54/1350	300
60	1500	R5-SE-60/1500	R5S-SE-60/1500	RAR5-SE-60/1500	340
72	1800	R5-SE-72/1800			410

Flexco® Scalloped Edge™

R5-1/2 (Two fastener strips per package)

Belt Width		Ordering Number		Rivets Required For One Joint
in.	mm	Steel	RustAlloy® 400 Series SS	
18	450	R5-1/2-SE-18/450		100
24	600	R5-1/2-SE-24/600	RAR5-1/2-SE-24/600	130
30	750	R5-1/2-SE-30/750	RAR5-1/2-SE-30/750	160
36	900	R5-1/2-SE-36/900	RAR5-1/2-SE-36/900	200
42	1050	R5-1/2-SE-42/1050	RAR5-1/2-SE-42/1050	230
46	1150		RAR5-1/2-SE-46/1150	260
48	1200	R5-1/2-SE-48/1200	RAR5-1/2-SE-48/1200	270
54	1350	R5-1/2-SE-54/1350	RAR5-1/2-SE-54/1350	300
60	1500	R5-1/2-SE-60/1500	RAR5-1/2-SE-60/1500	340
72	1800	R5-1/2-SE-72/1800	RAR5-1/2-SE-72/1800	410

Flexco® Scalloped Edge™ R6 and

RAR6LP Low Profile (Two fastener strips per package)

Belt Width		Ordering Number			Rivets Required For One Joint
in.	mm	Steel	RustAlloy® 400 Series SS	RustAlloy® Low Profile 400 Series SS	
24	600	R6-SE-24/600			130
30	750	R6-SE-30/750			160
36	900	R6-SE-36/900			200
42	1050	R6-SE-42/1050	RAR6-SE-42/1050	RAR6LP-SE-42/1050	230
46	1150	R6-SE-46/1150	RAR6-SE-46/1150	RAR6LP-SE-46/1150	260
48	1200	R6-SE-48/1200	RAR6-SE-48/1200	RAR6LP-SE-48/1200	270
54	1350	R6-SE-54/1350	RAR6-SE-54/1350	RAR6LP-SE-54/1350	300
60	1500	R6-SE-60/1500	RAR6-SE-60/1500	RAR6LP-SE-60/1500	340
72	1800	R6-SE-72/1800	RAR6-SE-72/1800	RAR6LP-SE-72/1800	410
84	2130	R6-SE-84/2130	RAR6-SE-84/2130	RAR6LP-SE-84/2130	480

Flexco® Scalloped Edge™

RAR8 (Two fastener strips per package)

Belt Width		Ordering Number
in.	mm	RustAlloy® 400 Series SS
48	1200	RAR8-SE-48/1200
54	1350	RAR8-SE-54/1350
60	1500	RAR8-SE-60/1500
72	1800	RAR8-SE-72/1800
84	2130	RAR8-SE-84/2130

Flexco® R5 MegAlloy®

R5 MegAlloy fasteners are supplied as 4 plate strips and are packaged 10 strips per box. Enough fasteners to splice a 36" (900 mm) belt.

Ordering Number
R5MA-SE

To maximize fastener service life, see page 3 to select the fastener metal for your application.



Flexco® SR™ Scalloped Edge™

Rivet Selection Charts

Rivets

Rivets are available in either steel or stainless steel. Rivets are packaged 250 rivets per box. SRAA, SRA, SRB, and SRC rivets are also available in 100-count packages. Bulk packs of 2,000 rivets are also available in reusable plastic buckets.



Rivet Selection Chart

Fastener Size	Belt Thickness Range		Rivet Size
	in.	mm	
R2	1/8-7/32	3-6	SRAA
	3/16-5/16	4-8	SRA
	9/32-3/8	7-10	SRB
R5	7/32-5/16	6-8	SRA
	9/32-3/8	7-10	SRB
	11/32-7/16	9-11	SRC
	13/32-7/16	10.5-11	SRC/D
R5-1/2 & RAR6LP	5/16-11/32	8-9	SRB
	5/16-13/32	8-10.5	SRC
	3/8-15/32	10-12	SRC/D
	7/16-17/32	11-13.5	SRD
	1/2-19/32	13-15	SRE
	9/16-21/32	14-16.5	SRF*
	5/8-23/32	16-18	SRG*
R6	11/32-7/16	9-11	SRC/D
	13/32-1/2	10.5-13	SRD
	15/32-9/16	12-14	SRE
	17/32-5/8	13.5-16	SRF
	19/32-11/16	15-17	SRG
RAR8	13/32-7/16	10.5-11	SRC/D
	13/32-1/2	10.5-13	SRD
	15/32-9/16	12-14	SRE
	17/32-5/8	13.5-16	SRF
	19/32-11/16	15-17	SRG

* Applies to RAR6LP only.

Rivets

Self-Setting Pre-Assembled
With Pilot Nails

Ordering Number	
Steel	Stainless Type 430
Box (100 Rivets)	
SRAA-100	
SRA-100	
SRB-100	
SRC-100	
Box (250 Rivets)	
SRAA	SRAA-S
SRA	SRA-S
SRB	SRB-S
SRC	SRC-S
SRC/D	SRC/D-S
SRD	SRD-S
SRE	SRE-S
SRF	SRF-S
SRG	SRG-S
Bucket (2000 Rivets)	
SRA-2M	SRA-S-2M
SRB-2M	SRB-S-2M
SRC-2M	SRC-S-2M
SRC/D-2M	SRC/D-S-2M
SRD-2M	SRD-S-2M
SRE-2M	SRE-S-2M
SRF-2M	SRF-S-2M
SRG-2M	SRG-S-2M

Flexco® SR™ Scalloped Edge™

Hinge Pin Selection Charts

A wide selection makes it easy to match pins to the needs of the application. Selection ranges from bare steel cable to nylon-covered armored cable. Use the brief descriptions and the chart below to identify which hinge pins are available for each fastener type.

Hinge pin material selection

AC – Bare Armored Cable: Heavy-duty, long-wearing pin popular in underground mining applications. Armor wrapping protects interior wires.

ACS – Bare Armored Stainless Steel Cable: The same advantages as bare armored cable plus corrosion resistance.

NAC – Nylon Covered Armored Cable: Combines a durable armored steel wrap with a nylon covering for smooth operation and long service life. Nylon covering prevents pin migration. Not recommended in wet, abrasive applications.

NC – Nylon Covered Steel Cable: Nylon covering prevents pin migration. Not recommended in wet, abrasive applications. For R2 and R5 only.

NCS – Nylon Covered Stainless Steel Cable: For greater corrosion resistance. Not recommended in wet, abrasive applications. For R2 and R5 only.

SC – Bare Steel Cable: Recommended for abrasive or gritty material conveyance.

SSC – Bare 300 Series Stainless Steel Cable: For conditions where corrosion attacks steel pins. For R2 and R5 only.



Hinge Pins

For R2 and R5

Belt Width		Ordering Number									
		AC (1/4" dia.) Bare Armored Cable		ACS (17/64" dia.) Bare Armored Stainless Cable		NAC (1/4" dia.) Nylon Covered Armored Cable		NC (1/4" dia.) Nylon Covered Steel Cable		NCS (1/4" dia.) Nylon Covered Stainless Cable*	
in.	mm	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)
12	300							NC-12-1			
14	350							NC-14-1			
16	400							NC-16-1			
18	450	AC-18-1	AC-18			NAC-18-1	NAC-18	NC-18-1	NC-18		
20	500							NC-20-1			
24	600	AC-24-1	AC-24			NAC-24-1	NAC-24	NC-24-1	NC-24	NCS-24-1	NCS-24
26	650	AC-26-1	AC-26			NAC-26-1	NAC-26		NC-26		
30	750	AC-30-1	AC-30	ACS-30-1	ACS-30	NAC-30-1	NAC-30	NC-30-1	NC-30	NCS-30-1	NCS-30
36	900	AC-36-1	AC-36	ACS-36-1	ACS-36	NAC-36-1	NAC-36	NC-36-1	NC-36	NCS-36-1	NCS-36
42	1050	AC-42-1	AC-42	ACS-42-1	ACS-42	NAC-42-1	NAC-42	NC-42-1	NC-42	NCS-42-1	NCS-42
48	1200	AC-48-1	AC-48	ACS-48-1	ACS-48	NAC-48-1	NAC-48	NC-48-1	NC-48	NCS-48-1	NCS-48
54	1350	AC-54-1		ACS-54-1	ACS-54	NAC-54-1		NC-54-1	NC-54	NCS-54-1	NCS-54
60	1500	AC-60-1		ACS-60-1	ACS-60	NAC-60-1		NC-60-1	NC-60	NCS-60-1	NCS-60
72	1800	AC-72-1		ACS-72-1	ACS-72	NAC-72-1		NC-72-1	NC-72	NCS-72-1	

* 300 Series

Flexco® SR™ Scalloped Edge™

Hinge Pin Selection Charts Continued

Hinge Pins

For R2 and R5

Belt Width		Ordering Number			
		SC (1/4" dia.) Bare Steel Cable		SSC (7/32" dia.) Bare Stainless Cable*	
in.	mm	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)
18	450		SC-18		SSC-18
24	600	SC-24-1	SC-24	SSC-24-1	SSC-24
30	750	SC-30-1	SC-30	SSC-30-1	SSC-30
36	900	SC-36-1	SC-36	SSC-36-1	SSC-36
38	950				
40	1000				
42	1050	SC-42-1	SC-42	SSC-42-1	SSC-42
44	1100				
46	1150				
48	1200	SC-48-1	SC-48	SSC-48-1	SSC-48
54	1350	SC-54-1	SC-54	SSC-54-1	SSC-54
60	1500	SC-60-1	SC-60	SSC-60-1	SSC-60
72	1800	SC-72-1		SSC-72-1	

* 300 Series

Hinge Pins

For R5

Belt Width		Ordering Number			
		SC932 (9/32" dia.) Bare Steel Cable		SSC932 (9/32" dia.) Bare Stainless Cable*	
in.	mm	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)
18	450	SC932-18-1		SSC932-18-1	
24	600	SC932-24-1		SSC932-24-1	
30	750	SC932-30-1	SC932-30	SSC932-30-1	SSC932-30
36	900	SC932-36-1	SC932-36	SSC932-36-1	SSC932-36
38	950	SC932-38-1	SC932-38	SSC932-38-1	SSC932-38
40	1000	SC932-40-1	SC932-40	SSC932-40-1	SSC932-40
42	1050	SC932-42-1	SC932-42	SSC932-42-1	SSC932-42
44	1100	SC932-44-1	SC932-44	SSC932-44-1	SSC932-44
46	1150	SC932-46-1	SC932-46	SSC932-46-1	SSC932-46
48	1200	SC932-48-1	SC932-48	SSC932-48-1	SSC932-48
54	1350	SC932-54-1	SC932-54	SSC932-54-1	SSC932-54
60	1500	SC932-60-1	SC932-60	SSC932-60-1	SSC932-60
72	1800	SC932-72-1		SSC932-72-1	

Hinge Pins

For R5-1/2, R6, RAR6LP

Belt Width		Ordering Number			
		AC6 (3/8" dia.) Bare Armored Steel Cable		SC6 (23/64" dia.) Bare Steel Cable	
in.	mm	Each (One Pin)	Package (Ten Pins)	Each (One Pin)	Package (Ten Pins)
24	600	AC6-24-1	AC6-24		
30	750	AC6-30-1	AC6-30		
36	900	AC6-36-1	AC6-36		SC6-36
38	950	AC6-38-1	AC6-38	SC6-38-1	SC6-38
40	1000	AC6-40-1	AC6-40	SC6-40-1	SC6-40
42	1050	AC6-42-1	AC6-42	SC6-42-1	SC6-42
44	1100	AC6-44-1	AC6-44	SC6-44-1	SC6-44
46	1150			SC6-46-1	SC6-46
48	1200	AC6-48-1	AC6-48	SC6-48-1	SC6-48
52	1300				
54	1350	AC6-54-1	AC6-54	SC6-54-1	SC6-54
60	1500	AC6-60-1	AC6-60	SC6-60-1	SC6-60
72	1800	AC6-72-1	AC6-72	SC6-72-1	SC6-72
84	2130		AC6-84	SC6-84-1	SC6-84

Hinge Pins

For R5-1/2, R6, RAR6LP, RAR8

Ordering Number	
ACS6 (3/8" dia.) Bare Armored Stainless Cable*	
Each (One Pin)	Package (Ten Pins)
ACS6-36/900-1	ACS6-36/900
ACS6-40-1	ACS6-40
ACS6-42-1	ACS6-42
ACS6-46-1	ACS6-46
ACS6-48-1	ACS6-48
ACS6-52-1	ACS6-52
ACS6-54-1	ACS6-54
ACS6-60-1	ACS6-60
ACS6-72-1	ACS6-72
ACS6-84-1	ACS6-84

* 300 Series

Hinge Pins

For R6, RAR6LP

Ordering Number	
NAC6 (13/32" dia.) Nylon Covered Armored Cable	
Each (One Pin)	Package (Ten Pins)
NAC6-24-1	NAC6-24
NAC6-30-1	NAC6-30
NAC6-36-1	NAC6-36
NAC6-38-1	NAC6-38
NAC6-40-1	NAC6-40
NAC6-42-1	NAC6-42
NAC6-44-1	NAC6-44
NAC6-46-1	NAC6-46
NAC6-48-1	NAC6-48
NAC6-52-1	NAC6-52
NAC6-54-1	NAC6-54
NAC6-60-1	NAC6-60
NAC6-72-1	NAC6-72
NAC6-84-1	NAC6-84

Flexco® SR™ Scalloped Edge™ Installation Tools

MSRT & MSRT8 Multiple Rivet Driving Tools

Easy-to-use, portable tools that make multiple rivet driving simple and fast. The MSRT and MSRT8 tools hold the belt, fastener strip, and the SR700 guide blocks (included) securely in place. Five rivets can be driven simultaneously. Plus, each guide block holds enough rivets to install four fastener plates before reloading. Includes two SR700 guide blocks, two SR759 drive rods, canvas bag, lubricant and two 4 lb. hammers.

MSRT8 Applicator Complete

(Installs R6, RAR6 & RAR8 fasteners only)

Belt Width in.	mm	Ordering Number
48	1200	MSRT8-48
60	1500	MSRT8-60
72	1800	MSRT8-72
84	2130	MSRT8-84

MSRT Applicator Complete

(Installs R5, R5-1/2, R6, & RAR6 fasteners only)

Belt Width		Ordering Number
in.	mm	
30	750	MSRT-30
36	900	MSRT-36
42	1050	MSRT-42
48	1200	MSRT-48
60	1500	MSRT-60
72	1800	MSRT-72
84	2130	MSRT-84



MSRT in use

SRTA Single Rivet Driving Tool

Used for single rivet driving, the SRTA tool includes an anvil plate surface and the SR-50 rivet driver. The SR-50 holds and positions the rivet and helps ensure safe rivet driving. It's also portable, economical, and requires little maintenance. Order the SRTA according to belt width.

SRTA Applicator Complete

(Includes one SR-50 Driver Tool)

Belt Width		Ordering Number
in.	mm	
30	750	SRTA-30
36	900	SRTA-36
42	1050	SRTA-42
48	1200	SRTA-48
60	1500	SRTA-60
72	1800	SRTA-72
84	2130	SRTA-84



The R2T Tool

The economically priced R2T Fastener application tool is lightweight and portable, so it is ideal for quick repairs. The six-pound R2T tool installs up to 12" (300 mm) of R2 fasteners in one pass. For wider belts, simply move the tool over. For use with standard SR™ self-setting rivets and a two-pound hammer.

R2T Applicator Tool

Tool Size		Ordering Number
in.	mm	
12	300	R2T

Standard MSRT or SRTA tools can also be used to install R2 fasteners by using the R5 setting.



For the Flexco® Power Driver Rivet Fastener Installation Tool – see page 18



Belt Maintenance Products

Save time and money, and simplify routine belt maintenance procedures, with a wide selection of field-proven service and maintenance tools.

Far-Pul® HD® Belt Clamps

Here is the easy-to-use, lightweight and sturdy belt clamp, specially engineered for heavy-duty applications.

With a load capacity up to three tons (2.7 metric tons) when used with two 1-1/2 ton come-alongs, it securely grips belts up to 1" (25 mm) thick. And it adjusts easily to fit a variety of belt widths, eliminating the need to inventory different clamp bars for different widths.

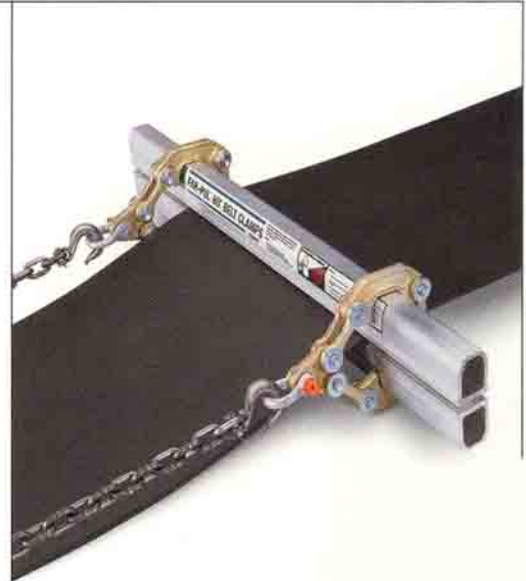
Unique design, rugged construction

- Provides even tensioning across the entire belt width.
- Clamp bars held in place from the outside. Scissors slide easily into place against both belt edges for easy adjustability.
- Extruded aluminum construction resists corrosion and seizing in wet environments.

Far-Pul® HD® Belt Clamps

Belt Width		Ordering Number
in.	mm	
Up to 30"	Up to 750	LSHD30
Up to 36"	Up to 900	LSHD36
Up to 42"	Up to 1050	LSHD42
Up to 48"	Up to 1200	LSHD48
Up to 54"	Up to 1350	LSHD54
Up to 60"	Up to 1500	LSHD60
Up to 72"	Up to 1800	LSHD72

A complete set of Far-Pul® HD® Belt Clamps includes four clamp bars, and four clamp scissors with carry bag. Come-alongs not included.



840 Series Belt Cutter

Make straighter cuts – time after time – with the lightweight, easy-to-use 840 Series aluminum belt cutter.

Designed to enhance operator safety on belts up to 84" (2100 mm) wide, the 840 Cutter grips belts securely. The chain-driven, double-edged safety blade is shielded from operator contact, and cuts rubber or PVC belts up to 1" (25 mm) thick. The blade can be driven from either end of the cutter and cuts in both directions.

840 Series Belt Cutter

Belt widths up to:		Description	Ordering Number
in.	mm		
36	900	36" Belt Cutter	840836
48	1200	48" Belt Cutter	840848
60	1500	60" Belt Cutter	840860
72	1800	72" Belt Cutter	840872
84	2100	84" Belt Cutter	840884



Alligator® 300 Series Belt Cutter

For belts of any width up to 1-1/8" (28 mm) thick, the Alligator® 300 Series belt cutter delivers clean, straight cuts quickly and safely. The double-edged blade cuts in either direction. An extra-long blade can also be special ordered for belts up to 1-9/16" (39 mm) thick.

Alligator® 300 Series Straight Cutter

Cutter Complete

Belt Width		Ordering Number
in.	mm	
12	300	300312
18	450	300318
24	600	300324
30	750	300330
36	900	300336
42	1050	300342
48	1200	300348
60	1500	300360



Flexco® Belt Grips

Pulling conveyor belting by hand is a lot easier with a Flexco® Belt Grip. When the belt grip is slipped over the belt edge at a right angle, belts can be pulled without damaging the belt surfaces. Belt grips can be used on belts up to 5/8" (16 mm) thick and come in pairs.

Flexco® Belt Grips

Sold by the pair

Ordering Number

22



Belt Maintenance Products

FSK™ Belt Skiver

Portable, lightweight skiver adjusts easily and precisely to various cutting depths. It's easy to carry and operate around the job site – even in cramped operating environments. Use on rubber-covered belts with top covers of 3/16" (4.5 mm) or more. Provides skives from 1/16" (1.5 mm) to 3/8" (10 mm) deep in a single pass. Deeper skives can be achieved with multiple passes. Cutting depth is gauged from the bottom of the belt surface, so the FSK can be used on most worn belt surfaces.

Flexco® FSK™ Belt Skiver

Description	Ordering Number
Skiver Complete	FSK-1



Flexco® Belt Groover

The belt groover makes it easy to cut a groove into the belt surface, permitting the leading edge of belt splices to “nest” at or below the belt surface, thereby reducing splice profile. Can also be used to cut a series of grooves to countersink entire splices.

Flexco® Belt Groover

Ordering Number
FBG1



Card Cutter

Heavy-duty utility knife with easy-grip handle.

Ordering Number
GC-1



Flexco® Silicone Lubricant

Reduce friction on metal tools, and rubber or fabric belt surfaces with our silicone lubricant. Spray top makes it easy to pinpoint the spray. The lubricant even makes cutting or punching holes in belting material easier. Non-flammable. Does not contain fluorocarbons.

Flexco® Silicone Lubricant

Ordering Number
SL5-1



Persuader™ Conveyor Belt Positioner™

The Persuader™ Conveyor Belt Positioner™ is a dependable, field-proven solution for the lost production time and repair costs associated with off-center loading and belt mistracking.

The simple, easy-to-install solution for belt mistracking

The Persuader features an innovative design: rollers make smooth contact with the return belt's bottom cover, centering it into the correct path and holding it there. This centering action at the critical loading point solves many top-side tracking problems. In fact, most top-side tracking problems can be solved with a single Persuader at the tail pulley.



Persuader™

Heavy-Duty XL Persuader™ for wider, higher-tension belts

For thicker, higher-tension steel-cable belts, and belts between 72" (1800 mm) and 96" (2400 mm) wide, choose the Heavy-Duty XL Persuader™. It combines the design and performance advantages of the Persuader, with CEMA E rollers and bearings.



Heavy-Duty XL Persuader™

Persuader™ Conveyor Belt Positioner™*

Description	Belt Width (Min–Max)		Persuader Width (Min–Max)		Ordering Number
	in.	mm	in.	mm	
Small	18-24	450-600	24-34	600-850	CBP-S
Medium	30-48	750-1200	34-56	850-1400	CBP-M
Large	54-72	1350-1800	56-83	1400-2075	CBP-L
Extra Large	72-96	1800-2400	72-120	1800-3000	CBP-X

*Persuader comes standard with Exalon rollers.

Use next larger size for belt widths between ranges.

NOTE: Idler Rollers on Sizes S, M and L are 5" (125 mm) diameter and rated CEMA D. Idler Rollers on the XL Size are 6" (150 mm) diameter and rated CEMA E.

Persuader™ Conveyor Belt Positioner™ With Steel Rollers

Description	Belt Width (Min–Max)		Persuader Width (Min–Max)		Ordering Number
	in.	mm	in.	mm	
Small	18-24	450-600	24-34	600-850	PSR-S
Medium	30-48	750-1200	34-56	850-1400	PSR-M
Large	54-72	1350-1800	56-83	1400-2075	PSR-L
Extra Large	72-96	1800-2400	72-120	1800-3000	PSR-X

Use next larger size for belt widths between ranges.

NOTE: Idler Rollers on Sizes S, M and L are 5" (125 mm) diameter and rated CEMA D. Idler Rollers on the XL Size are 6" (150 mm) diameter and rated CEMA E.

Deflector™ Belt Plows



Specially designed belt cleaners for the tail pulley, Deflector™ Belt Plows feature an exclusive, innovative blade design. The blade's 20° leading edge "spirals" debris off the inside of the belt. Compare this to ordinary flat-blade plows and homemade devices that often just let debris roll under the blade.

Deflector™ V-Plow

- Self-adjusting unit eliminates the need to readjust to accommodate blade wear.
- Turnbuckle permits precise adjustment so the plow can be fine-tuned to the belt at installation and eliminate unit vibration.
- Can also be positioned directly behind the head pulley to dump debris right at the transfer point.

Deflector™ V-Plow*

Description	Belt Width (Min-Max)		Ordering Number
	in.	mm	
Extra Small	18-24	450-600	CBV-XS
Small	30-36	750-900	CBV-S
Medium	42-48	1050-1200	CBV-M
Large	54-60	1350-1500	CBV-L
72"	72	1800	CBV-72
84"	84	2100	CBV-84
96"	96	2400	CBV-96

*Use next larger size for belt widths between ranges.



Deflector™ Diagonal Plow

- Installed on a 45° angle across the belt to discharge debris to one side of the belt.
- Blade is installed in a fixed position, eliminating bouncing problems associated with some floating-style plows.

Deflector™ Diagonal Plow*

Description	Belt Width (Min-Max)		Ordering Number
	in.	mm	
Small	18-30	450-750	CBD-S
Medium	36-42	900-1050	CBD-M
Large	48-60	1200-1500	CBD-L
X-Large	72-84	1800-2100	CBD-XL

*Use next larger size for belt widths between ranges.



Deflector™ Heavy-Duty Reversing Diagonal Plow

- Twin-bladed plow designed to clean belt in both directions of travel.
- Discharges material to either side of the belt.
- Installs securely to conveyor structure and will work on conveyors with severe belt vibration.

Deflector™ Heavy-Duty Reversing Diagonal Plow*

Description	Belt Width (Min-Max)		Ordering Number
	in.	mm	
Small	18-30	450-750	CBR-S
Medium	36-42	900-1050	CBR-M
Large	48-60	1200-1500	CBR-L
72"	72	1800	CBR-72
84"	84	2100	CBR-84
96"	96	2400	CBR-96

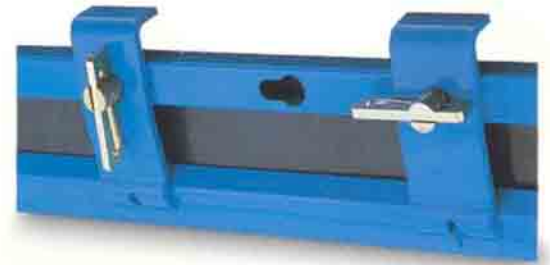
*Use next larger size for belt widths between ranges.



Flex-Lok™ Conveyor Skirt Clamps

Our versatile skirt clamp design makes it easy to eliminate loading-point spillage on any conveyor loading site – even in severe heavy-loading applications.

Flex-Lok™ is ideal on perpendicular or vertical skirt boards. The unique design ensures that, once properly installed, the skirt rubber will not rub on the belt causing premature wear or gouge marks on the belts.



Easy installation and quick adjustment

Flex-Lok utilizes a unique clamp pin and wedge lock assembly, so the assembly can be locked in any position 360° around the pin. The remaining parts interlock, too, allowing one person to reposition or replace skirt rubber. The clamp plates and pins can be placed in various positions along the clamp runners – even in the most restrictive environments.

Flex-Lok comes in standard 6' (1.8 m) lengths, and can be easily modified for shorter length requirements.

Flex-Lok™ Skirt Clamp

(One 6 foot skirt clamp includes one 6' (1.8 m) clamp runner, 4 clamp plates, 4 clamp pins and one 6' (1.8 m) restraining bar.)

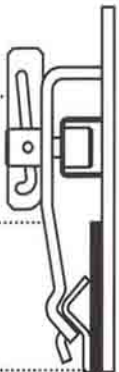
Description	Ordering Number
Skirt Clamp Complete	FLSC-I

The captive wedge in the clamp pin insures that no parts get lost.

Clamp plate secures skirt rubber in proper position to insure no damage is caused to the belt.

Restraining bar is held in place by clamp plates so hands are free to adjust skirt rubber.

New expanded belt thickness range: standard, 5/16" (8 mm) to 1" (25 mm); mini, 5/16" (8 mm) to 5/8" (16 mm).



Mini Flex-Lok™ for confined space applications

With an overall height of just 5-1/2" (135 mm), the Mini Flex-Lok is the ideal remedy for loading-point spillage in restricted space applications.

Mini Flex-Lok™ Skirt Clamp

(One 6 foot mini skirt clamp includes one 6' (1.8 m) clamp runner, 3 mini clamp plates, 3 clamp pins and one 6' (1.8 m) restraining bar.)

Description	Ordering Number
Mini Skirt Clamp Complete	FLSCM-I





From coal mines to grocery stores, companies that rely on conveyors also rely on Flexco for belt conveyor maintenance solutions that help maximize uptime, productivity, and safety.

We offer the most comprehensive selection of quality products in the industry. And we back customers with product and application support second to no one.

