

A Rugged and Durable Splice that is Easy to Install

The Alligator® Ready Set™ Staple Fastener System is ideal for a wide variety of light- and medium-duty fastener applications. The system features one-piece fastener strips with pre-inserted staples that speed installation and keep downtime to a minimum.



Quick, Easy Installation

Designed for belts from 1/16" (1.5 mm) to 1/4" (6.4 mm), Alligator Ready Set installation is easy with a portable, lightweight application tool that can be carried to the job for on-site installation. Simply fit the fastener strip onto the belt end and secure with the special installation tool, then drive and finish set the staples for a strong, long-lasting splice.



Market Applications

- Package and Parts Conveying
- Food and Sanitary Contact
- Agricultural Harvesting and Handling
- Recycling and Scrap Handling
- Wood Products

Fastener Overview

How the Alligator® Ready Set™ Fastening System Works



Designed for light and medium-duty synthetic carcass belting, the Alligator® Staple fastener utilizes high tensile, stainless steel staple attachment, in conjunction with an extended plate design. This design separates the point of fastener penetration from the line of belt flexing to eliminate splice fatigue at the point of belt attachment.

Staple fasteners are furnished in strips with a bridge between each fastener plate. This strip design minimizes the chance of individual parts dislodging into the conveyed product. The one-piece design provides a stronger splice, greater resistance to impact damage, and a smoother, unrippled joint that simplifies hinge pin insertion.

Staples are hammer driven through the fastener and belt, working between the carcass fibers without severing them. The staples are then clinched cross-wise to the belt, so that belt tension does not pull against the staples to unclinch them.

Ready Set™ Fasteners

Available in Steel, 316 Stainless Steel, and 430 Stainless Steel. Ready Set Staple Fasteners feature a one-piece fastener strip with pre-inserted staples, reducing installation time by eliminating the need to handle and load individual staples.

Fastener Materials

Steel: Standard fastener material is suitable for most applications. Plated for rust and corrosion resistance.

Stainless Steel: Type 316 provides extra resistance to abrasion, magnetic attraction, and corrosion from acids and chemicals. Also excellent for high-sanitary requirements.

Conventional Staple Fasteners

Available in abrasion resistant MegAlloy® providing several times the service life of steel. Staples are separate from the fastener plates. Green guide blocks (ST4-5) must be installed on the installation tool and users can insert staples using the C150 staple dispenser.

MegAlloy®: Superior resistance to wear and abrasion, providing several times the service life of steel. Not recommended where subject to impact or corrosion.

Magnetic Stainless Type 430: For use with magnetic separators and provides resistance to wear and abrasion. Plate, staple, and hinge pins are all constructed from magnetic stainless steel.

Fastener Material Characteristics

Metal	Magnetic Resistant	Abrasion Resistant	Chemical Resistant	Rust Resistant	Available Sizes	Sparking/ Non-Sparking
Galvanized Steel	No	Good	Poor	Fair	62,125,187	Sparking
316 Stainless Steel	Yes	Good	Good to Excellent	Excellent	62,125,187	Sparking
430 Stainless Steel	No	Good	Fair to Good	Good	62,125,187	Sparking
MegAlloy®	No	Excellent	Poor	Poor	125,187	Sparking

Fastener Selection Guidelines

Specify the Right Alligator® Staple Fastener

1. Determine belt tension.

Most conveyor belting has a mechanical fastener rating. Exercise care to ensure belting or fasteners are operated within the recommended range of their capabilities.

2. Measure belt thickness.

Choose a fastener size which corresponds to belt thickness in the skived area. Measure after any impression top cover has been removed.

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

Minimum pulley diameters for individual fasteners are noted in the specification charts for individual fasteners.

4. Choose appropriate fastener size.

Use specifications for individual fastener sizes to guide your selection.

5. Select material.

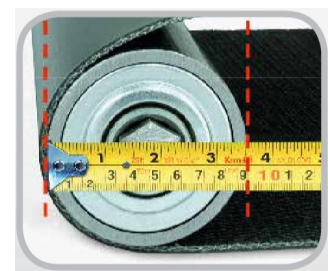
Refer to the material selection chart on page 2 for the metal characteristics which best suit your application. Not all sizes and styles are available in all metals.



Skive impression cover



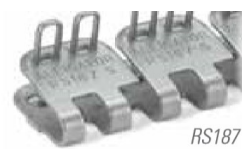
Measure belt thickness



Measure smallest pulley diameter

Alligator® Ready Set™ Staple Fastener Selection Guide

Fastener Size	For Belts With Mechanical Fastener Ratings Up To:		Belt Thickness Range		Recommended Minimum Pulley Diameter	
	P.I.W.	kN/m	in.	mm	in.	mm
62	100	17	1/16-1/8	1.5-3.2	2	50
125	160	28	1/8-3/16	3.2-4.8	3	75
187	200	35	3/16-1/4	4.8-6.4	4	102



Belt Width		Steel With Nylon Covered Steel Cable Pins (NC)	Steel With Spring Wire Pins (SP)	Stainless (300 Series) With Stainless Spring Wire Pins (SS)	Stainless (300 Series) With Nylon Covered Stainless Cable Pins (NCS)
in.	mm				
RS62					
12	300	RS62J12/300NC	RS62J12/300SP	RS62SJ12/300SS	RS62SJ12/300NCS
18	450	RS62J18/450NC	RS62J18/450SP	RS62SJ18/450SS	RS62SJ18/450NCS
24	600	RS62J24/600NC	RS62J24/600SP	RS62SJ24/600SS	RS62SJ24/600NCS
30	750	RS62J30/750NC	RS62J30/750SP	RS62SJ30/750SS	RS62SJ30/750NCS
36	900	RS62J36/900NC	RS62J36/900SP	RS62SJ36/900SS	RS62SJ36/900NCS
42	1050	RS62J42NC	RS62J42SP	RS62SJ42SS	
48	1200	RS62J48NC	RS62J48SP	RS62SJ48SS	RS62SJ48NCS
60	1500	RS62J60NC	RS62J60SP	RS62SJ60SS	RS62SJ60NCS
RS125					
12	300	RS125J12/300NC		RS125SJ12/300SS	RS125SJ12/300NCS
18	450	RS125J18/450NC	RS125J18/450SP	RS125SJ18/450SS	RS125SJ18/450NCS
24	600	RS125J24/600NC	RS125J24/600SP	RS125SJ24/600SS	RS125SJ24/600NCS
30	750	RS125J30/750NC	RS125J30/750SP	RS125SJ30/750SS	RS125SJ30/750NCS
36	900	RS125J36/900NC	RS125J36/900SP	RS125SJ36/900SS	RS125SJ36/900NCS
42	1050	RS125J42NC	RS125J42SP	RS125SJ42SS	RS125SJ42NCS
48	1200	RS125J48NC	RS125J48SP	RS125SJ48SS	RS125SJ48NCS
60	1500	RS125J60NC	RS125J60SP	RS125SJ60SS	RS125SJ60NCS
RS187					
12	300	RS187J12/300NC		RS187SJ12/300SS	RS187SJ12/300NCS
18	450	RS187J18/450NC	RS187J18/450SP	RS187SJ18/450SS	RS187SJ18/450NCS
24	600	RS187J24/600NC	RS187J24/600SP	RS187SJ24/600SS	RS187SJ24/600NCS
30	750	RS187J30/750NC	RS187J30/750SP	RS187SJ30/750SS	RS187SJ30/750NCS
36	900	RS187J36/900NC	RS187J36/900SP	RS187SJ36/900SS	RS187SJ36/900NCS
42	1050	RS187J42NC	RS187J42SP	RS187SJ42SS	RS187SJ42NCS
48	1200	RS187J48NC	RS187J48SP	RS187SJ48SS	RS187SJ48NCS
60	1500	RS187J60NC	RS187J60SP	RS187SJ60SS	RS187SJ60NCS

One carton contains 4 fastener sets, 4 hinge pins, and required amount of retaining washers.

MegAlloy® Fasteners

Includes sixteen 6" (150 mm) fastener strips with loose staples. Hinge pins not included.

MegAlloy® Fasteners	
125MA	
187MA	

Note: When ordering MegAlloy® fasteners or bulk ordering lacing with special staple lengths, you must use a green guide block (ST4-5, #50240) with your installation tool. When using loose staples, you can order a staple dispenser to speed installation of this product.

Hinge Pins

Match our selection of hinge pins to the special needs of your application.

NC - Nylon Covered Steel Cable

For use with steel fasteners, NC hinge pins are recommended for troughing or flat belt conveyors.

NCS - Nylon Covered Stainless Steel Cable

For extra abrasion and chemical resistance.

SS - Stainless Steel Spring Wire

For use with stainless steel fasteners, flat belts only.

SP - Steel Spring Wire

For use with steel fasteners in abrasive or gritty material applications, flat belt only.

Magnetic Stainless (Type 430)

Includes four fastener sets, four hinge pins, and required retaining washers. Plates, staples, and hinge pins are all magnetic stainless steel.

Magnetic Stainless (Type 430)	
RS62MJ24/600MS	
RS125MJ24/600MS	

Hinge Pin Retaining Washers

Avoid hinge-pin migration with easy-to-install retaining washers.

Retaining Washers	
For Fastener Number	Ordering Number
62	62-RET-50
125	125-RET-50
187	187-RET-50

Box of 50 washers.



Alligator® Hinge Pin Cutter

Cuts bulk hinge pin cable quickly and easily. Provides a clean cut with no frayed ends.

Alligator® Hinge Pin Cutter	
APC-1	



Installation Tools

RSC187 Installation Tool

Securely holds the fasteners on the belt, in proper alignment, while staples are driven. Installs two staples simultaneously for fast, simple splicing and the tool can be moved rapidly along the belt as staples are installed. Also provides a solid anvil surface for initial clinching of the staples.

The RSC187 tools come complete with guide blocks and drivers and are available in a variety of widths. Wider tools are available for production lacing and fabrication shop requirements.

RSC187 Installation Tool		
Tool Size		Ordering Number
in.	mm	
2	50	RSC187
4	100	RSC187-4
6	150	RSC187-6
12	300	RSC187-12
24	600	RSC187-24



Alligator® Quad Staple Driver

The Alligator® Quad Staple Driver allows for the installation of four staples at one time. Using a 2 lb. hammer, this durable, heat-treated steel quad driver allows installers to cut their installation time by 50%.

Alligator® Quad Staple Driver
Ordering Number
ST6-9

Alligator® Staple Tool Kit

Everything you need to install, maintain, and repair Alligator Ready Set Staple splices. Kit includes the RSC187 tool described above, as well as the staple final set plate, hand skiver, belt marker, belt nippers, and 1 lb. (.45 kg) hammer. Packaged in a durable box with plenty of room for other items.

Staple Kits	
Description	Ordering Number
6" Installation Kit	RSTK4-6
12" Installation Kit	RSTK4-12



Rough Top Belt Skiver

Simplifies removal of belt impression covers prior to fastener size selection and installation.

Rough Top Belt Skiver
Ordering Number
RTBS

Belt Grinder

Carbide cuts belt impression cover instead of burning it for quick and clean skiving. Attaches to a 3/8" (10 mm) electric or pneumatic drill (2,500 rpm).

Belt Grinder
Ordering Number
RB-1



Belt Nippers

Simple, hand-held tool used to notch/chamfer belt edges and to remove individual fastener plates from belt.

Belt Nippers
Ordering Number
BN-1