

MECHANICAL FASTENERS FOR CONVEYOR BELTS

With regard to the installation, replacement and repair of conveyor belts, the main target has always been the reduction of intervention times and costs. This is why **Sati Group**, which has been keeping a watchful eye on market developments for over 50 years, decided to expand its range of **mechanical fasteners for rubber conveyor belts**.

These fasteners provide many **advantages** from both a practical and financial point of view:

- **Maximum speed of application**
- **More money saved thanks to substantial cost reduction**
- **No need for electricity or expensive equipment**
- **Can be used in all weather conditions**
- **Pre-configuration not required (drilling, stripping)**
- **Minimum effort and limited knowhow needed for application**

In general, using these fasteners represents a **valid alternative to hot splices** and, therefore, Sati Group undertakes to offer both solutions to its clients. The mechanical fastener range was developed to meet market and client needs. Sati Group is always available to improve or develop new solutions thanks to its partners, with whom it has been cooperating continually for over half a century in the search for innovation.



VAT



USES

Standard fastener ideal for standard belts (2 plies, 3 plies). Easy to use, recommended when there is the need for prompt intervention on the conveyor belt.

Available with both a stainless steel and galvanised finish.

TECHNICAL SPECIFICATIONS

| FASTENER TYPE | BELT LOAD | MIN. DRUM DIAMETER | STOCK | DIMENSIONS | ASSEMBLY KIT |
|---------------|-----------|--------------------|-------|------------|--------------|
| SP. 3-6 | 200 | 25 | yes | 1000 | no |
| SP. 3-7 | 350 | 60 | yes | 1000 | no |

ALLIGATOR RS



USES

Ideal for belts installed on systems with small drums (75 mm), usually used for sliding and generally light belts.

This product is inexpensive and, at the same time, easy to use thanks to the specific assembly kit.

Available with both a stainless steel and galvanised finish.

TECHNICAL SPECIFICATIONS

| FASTENER TYPE | BELT THICKNESS | BELT LOAD | MIN. DRUM DIAMETER | STOCK | DIMENSIONS | ASSEMBLY KIT |
|---------------|----------------|----------------|--------------------|-------|-----------------------|---------------|
| RS125 | da 3,5 a 5 mm | up to EP 315 | 75 | yes | 600-1000 | yes (machine) |
| RS 187 | da 5 a 6,5 mm | up to EP 400/3 | 100 | yes | 600-1000 1200-1500 | yes (machine) |

RIVET R2



USES

Fastener recommended for rubber and pvc textile belts, ideal for worn belts that cannot be spliced. Easy and quick to install, usually employed in the mining sector to transport coal, asphalt, paper and inert materials in general.

Available with both a stainless steel and galvanised finish

TECHNICAL SPECIFICATIONS

| BELT THICKNESS | BELT LOAD | DRUM DIAMETER | STOCK | DIMENSIONS | ASSEMBLY KIT |
|----------------|-----------|----------------|-------|------------|--------------|
| 5 to 10 mm | up to 400 | 125 mm minimum | yes | 1000 | available |

BOLT



USES

Fastener designed for heavy-duty applications and to meet the most demanding handling of all types of material (gravel, cement and crushing sector). The advantage of this product is the combination between the pressure of the two plates and bolt breaking strength.

Available with both a stainless steel and galvanised finished and, upon request, made of other types of metal.

TECHNICAL SPECIFICATIONS

| FASTENER TYPE | BELT THICKNESS | BELT LOAD | MIN. DRUM DIAMETER | STOCK | DIMENSIONS | ASSEMBLY KIT |
|---------------|----------------|-----------|--------------------|-------|---------------------|--------------|
| 375 | 6 to 10 mm | up to 400 | 125 | yes | 500-650 800-1000 | screwdriver |
| 550 | 6 to 16 mm | up to 500 | 200 | yes | 500-800 1000 | screwdriver |

U24BS



USES

Fastener specific for the agricultural sector and, in particular, for closing baler belts. It is a product suitable for small drums and is long-lasting thanks to its excellent wear resistance.

Available in a stainless steel finish.

TECHNICAL SPECIFICATIONS

| BELT THICKNESS | BELT LOAD | MIN. DRUM DIAMETER | STOCK | DIMENSIONS | ASSEMBLY KIT |
|----------------|-----------|--------------------|-------|------------|--------------|
| 5 to 6 mm | up to 450 | 75 | yes | 198 | in stock |

SUPERSCREW®



USES

SUPERSCREW® is a flexible rubber mechanical fastener with unique characteristics - it is flexible, with a high bolt breaking strength, compatible with small drums and can even be used with scrapers. Also, this product is easy to customise as it is supplied in rolls or cut to measure. It can even be used to repair belts and is available in various types of rubber (heat-resistant, cut and rip resistant, abrasion resistant, etc.)

The bolt and magnetic insert version is available upon request.

TECHNICAL SPECIFICATIONS

| FASTENER TYPE | BELT THICKNESS | BELT LOAD | DRUM DIAMETER | STOCK | DIMENSIONS | ASSEMBLY KIT |
|---------------|----------------|-----------|---------------|-------|------------|--------------|
| SS63 | 6 to 2 mm | 630 max | 220-230 | yes | 600 mm | yes |

ASSEMBLY INSTRUCTIONS

VAT



1) Square the belt end and place the fastener adapting it to the thickness of the belt; apply the pins to the head on a metal plate



2) Flatten the fastener so it adheres to the rubber



3) Use an angle grinder to eliminate all excess pins



4) Flatten the pins

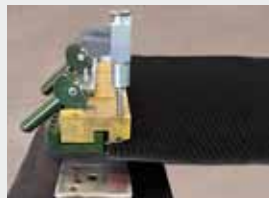


5) Repeat on the second belt end, place it over the first and insert the fixing wire

ALLIGATOR RS



1) Square the belt end and place the fastener adapting it to the thickness of the belt



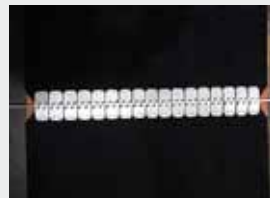
2) Position the assembly tool



3) Flatten the pins in the fastener



4) Finish the flattened pins



5) Repeat on the second belt end, place it over the first and insert the fixing wire

RIVET R2



1) Square the belt end, put the fastener in the tool and adjust the belt end in the fastener



2) Position the rivet applicator and insert the rivets



3) Flatten the rivets



4) Extract the applicator and remove excess rivets



5) Repeat on the second belt end, place it over the first and insert the fixing wire

BOLT



1) Square the belt end and place the fastener adapting it to the thickness of the belt, then use the punch to pierce where necessary



2) Insert the bolts and tighten them with the nut tightener



3) Use an angle grinder to remove excess bolts



4) Flatten the bolts



5) Repeat on the second belt end, place it over the first and insert the fixing wire

U24BS



1) Place the fastener in the machine



2) Place the belt end in the fastener and clamp with the machine



3) Flatten the pins in correspondence of the hole



4) Open the clamp, take out the head and check that the operation has been successful



5) Repeat on the second belt end, place it over the first and insert the fixing wire

SUPERSCREW®



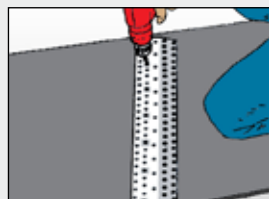
1) Place the fastener adapting it to the thickness of the belt



2) Insert and screw in the bolts starting from the centre, then continue alternating sides to prevent the fastener from bending



3) Unscrew the central bolts to join the two ends



4) Repeat step 2 on the second belt end



5) Square the ends