

# Homogeneous Soliflex Belts Ultimate Hygienic Solutions



# A Win-Win for the Food Industry: Ultimate hygiene and lower total cost of ownership



Ammeraal Beltech  
member European  
Hygienic Engineering  
& Design Group



Food Grade belts  
comply with EC  
1935/2004,  
EU 10/2011 and  
FDA standards

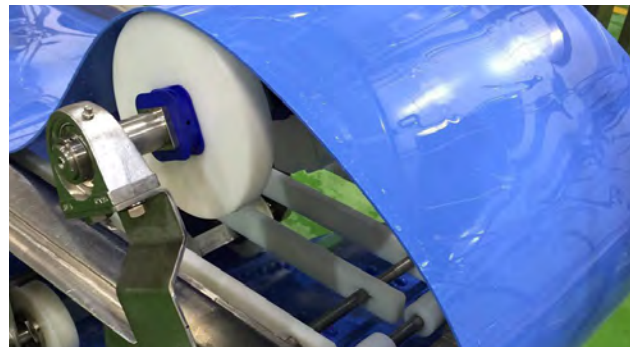
Ammeraal Beltech offers a wide range of homogeneous belts. With 75 years of experience in the Food Industry, Ammeraal Beltech knows OEM's and End Users are always looking for ways to increase food safety and productivity. That's why we developed the ultimate hygienic conveyor belt range: **Soliflex**.

Soliflex is made from a single piece of homogeneous plastic so it cannot fray and contaminate food. It is also very easy to clean (requiring less water & time).

## The Soliflex range consists of 5 Positive Drive belts.

Our Soliflex Positive Drive belts come in a variety of different teeth and sprocket styles to suit your application. This positive drive system reduces the energy required to run your conveyor. Our Soliflex PRO belt delivers **Ultimate Tracking** and our Soliflex Center Bar belt delivers good tracking; they are thus virtually maintenance free!

The Soliflex range of belts can be installed on existing conveyors and in combination with proper conveyor design allows for **Cleaning and sanitizing in place**.



Soliflex PRO complies with Ammeraal Beltech's **SAFE & CLEAN** concept:

## SAFE

- complying with international Food Grade standards (EC 1935/2004, EU 10/2011 and FDA)
- belt features that support ISO 22000
- ultimate hygienic belt for food safety

## CLEAN





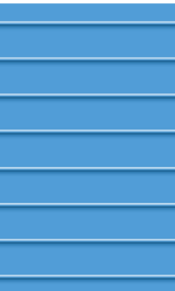
- easy and fast cleaning and sanitizing of belts
- using less water, detergent and time
- cleaning and sanitizing in motion possible
- cleaning and sanitizing in place possible

## Industries:

- » Meat & Poultry
- » Fish & Seafood
- » Vegetable processing
- » Bakery & Confectionary
- » Dairy

# Soliflex Belt Range

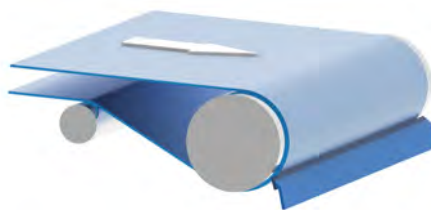
There are 5 Soliflex drive systems available. Soliflex PRO, Soliflex PRO mini, Soliflex Center Bar (CB), Soliflex Full Bar (FB), Soliflex Full Bar mini (FB mini). The selection matrix assists to choose the most suitable belt for your application.

| Product              | Soliflex PRO  | Soliflex PRO mini   | Soliflex CB   | Soliflex FB   | Soliflex FB mini  |
|----------------------|---|---|---|---|---|
|                      |  |  |  |  |  |
| Description          | Hygienic tracking design  | Hygienic tracking design  | Hygienic design   | Traditional design  | Traditional design  |
| Available materials  | TPU + TPE   | TPU   | TPU   | TPU   | TPU   |
| Shore Hardness       | 55 shore D  | 55 shore D  | 98 shore A  | 98 shore A  | 98 shore A  |
| Available thickness  | 2, 3 and 4 mm   | 1.5 and 2 mm  | 3 mm  | 3.3 mm  | 2.79 mm   |
| Available belt width | 1800  | 1800  | 1220  | 1500  | 1500  |
| Pitch of lugs/teeth  | 51.0 mm   | 25.5 mm   | 39.7 mm   | 50 mm   | 25.5 mm   |
| Min. sprocket dia.   | 94.7 mm (TPU 2 mm)  | 47 mm   | 124 mm  | 95.5 mm   | 50.8 mm   |
| Cleanability         | ++++  | ++++  | ++++  | +   | +   |
| Transmissible torque | +++   | +++   | ++  | ++  | ++  |
| F/E values           | +++   | ++  | +++   | ++  | ++  |
| Trough conveyors     | +++   | +++   | ++  | +   | +   |
| Tracking             | ++++  | ++++  | +++   | +   | +   |
| Surface smoothness   | +++   | +++   | ++  | ++  | ++  |

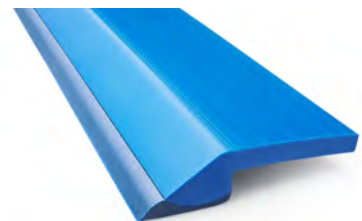
## UltraScraper

Metal detectable and antimicrobial scrapers for extended hygiene and efficient food processing.

Food items can stick even to belts with non-stick properties. Thus, scraping and cleaning efficiency and effectiveness are key Food Industry issues.



Scraper placement is possible on motordrum and sprocket driven systems.



The UltraScraper's Soft Lip enables deep cleaning.

# Self-tracking & customisation

The Soliflex PRO & PRO mini self-tracking system works in two ways:



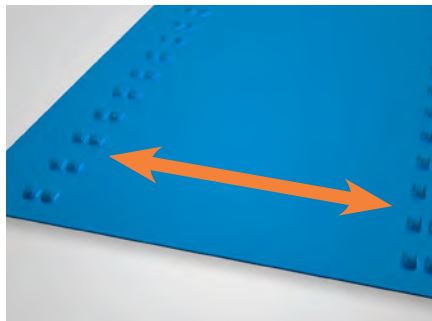
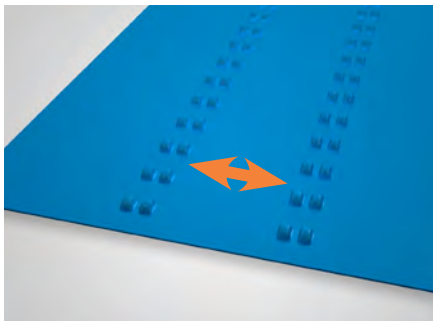
## 1) By unique sprocket design

The sprocket's centre piece column also supports tracking and positioning. The belt is fixed in position on the drive and return pulley.

## 2) By using the slider bed

Slider bed strips are positioned in such a way that they act as guides for the drive lugs. In this way the belt is self-tracking over the entire slider bed.

## Variable custom lug positioning on Soliflex PRO (mini) belts



The standard configuration consists of 2 pairs of lugs (Duplex) or 4 pairs of lugs (Quattro) with a pitch of 150 mm.

A variable pitch is also available on request

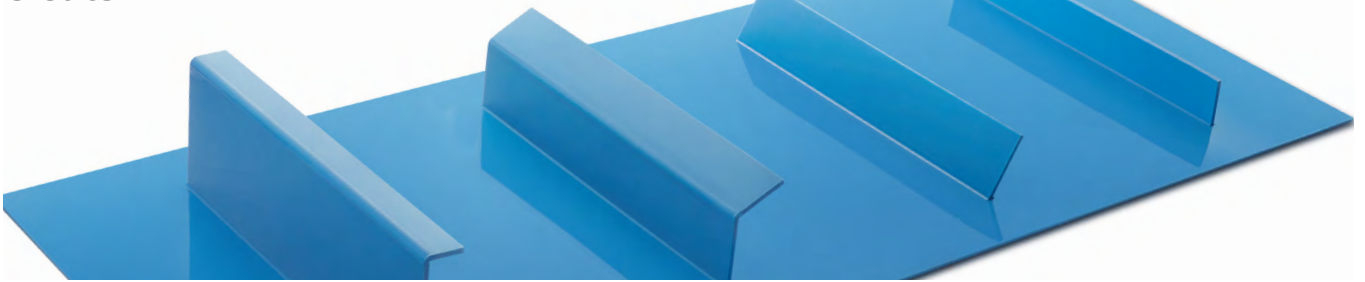
For special applications such as swan necks, the lugs can be positioned on the edges of the belt allowing full control in the critical bend of the conveyor.



# Fabrication capabilities

Each application and process require their own solution. For the Soliflex range of belts extensive fabrication possibilities are available to suit your needs.

## Cleats

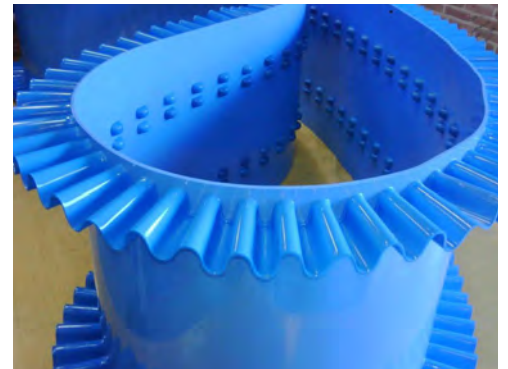


Flat, Angled, Bent all available up to 150 mm high.  
Smooth finish or profiled using the R18 (positive pyramid) or A18 (inverted pyramid).  
Made from TPU and using HF welding technology.

## Sidewalls

Sidewalls are available for Soliflex TPU from 20-100 mm.

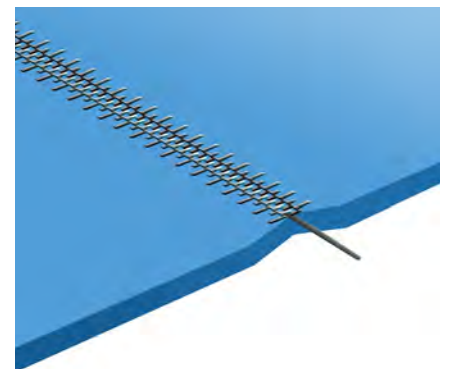
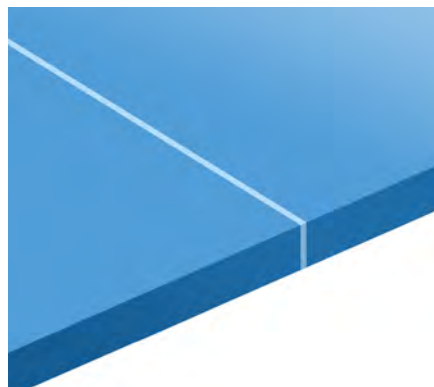
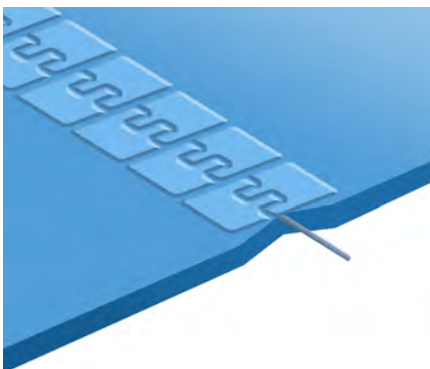
Can be combined with cleats to make pockets for product elevation on steep angle or vertical.



## Endlessing and Joining

For ultimate hygiene an endless spliced belt is recommended. The belt can be joined in our factory or on-site using a butt splice.

Alternately, the belt can be joined using less hygienic plastic or mechanical fasteners. These solutions allow an easy removal of the belt.



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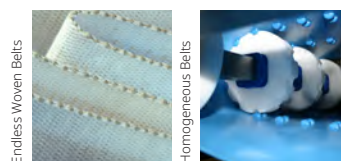
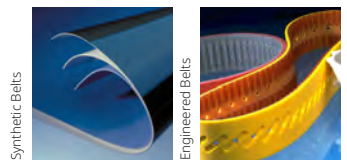
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