

AM-EN

# Homogeneous Soliflex Belts Ultimate Hygienic Solutions





# A Win-Win for the Food Industry:

## Ultimate hygiene and lower total cost of ownership

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 and FDA)
- Belt features that support your ISO 22000 requirements (previously HACCP)
- 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







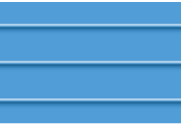
Ammeraal Beltech  
member ropean  
Hygienic Engineering  
& Design Group



Food Grade belts comply  
with EC 1935/2004  
and FDA standards  
supporting your  
ISO 22000 requirements  
(previously HACCP)

# 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	53D - 55D	53D	98A	53D	53D
Available thickness	2, 3 and 4 mm	1.5 and 2 mm	3 mm	3.3 mm	2.79 mm
Available belt width	Up to 70"	Up to 70"	12" up to 60"	Up to 60"	Up to 60"
Pitch of lugs/teeth	51.0 mm	25.5 mm	39.7 mm	50 mm	25.9 mm
Min. sprocket dia.	3.73" (TPU 2 mm)	1.85"	3.9"	3.73"	1.88"
Cleanability	++++	++++	++++	+	+
Transmissible torque	+++	+++	++	++	++
F/E values	+++	++	+++	++	++
Trough conveyors	+++	+++	++	+	+
Tracking	++++	++++	+++	+	+
Surface smoothness	+++	+++	++	++	++

## Soliflex PRO

Soliflex PRO is our most hygienic, ultimate tracking design available in a positively driven belt. Soliflex PRO provides all of the benefits of a Homogenous belt with the ability keep your belt on track using our PRO lug technology. This unique lug design engages with the teeth on the pulleys to drive the belt and keep it from moving from side to side while conveying.

## Soliflex PRO mini

Soliflex PRO mini provides all of the benefits of our Soliflex PRO, but is designed for small pulley diameters as small as 47mm, or just under 2". This is a great option for small transition conveyors, or in designs where a bigger pulley cannot be installed.

## Center Bar (CB)

Soliflex Center Bar, or CB, is a positively driven homogeneous belt with 1 or 2 rows depending on the width of the belt. The CB design is a smooth 78mm wide lug, or just about 3". Soliflex CB is a great choice for applications that require good hygienic properties and a belt that tracks very well. The center bar lug design makes it easy to visibly find and clean any noticeable residue once installed. It also has rounded edges to keep dirt from getting in tight corners. Soliflex CB is offered in full roll pre-cut widths to support industry standard sizes.

## Full Bar (FB)

Soliflex Full Bar, or FB, is a belt design with a drive lug that goes along the entire width of the belt to drive the belt with a 50mm pitch, or just under 2". FB provides good hygienic properties in a positive drive belt. It is a great option for replacing industry standard belts, and is a common choice for replacing plastic modular conveyors because of the limited amount of components that are required to change in those conveyor designs.

## Full Bar mini (FB mini)

Soliflex Full Bar mini, or FB mini, is the smaller version of our FB drive lug technology with a 25.91mm pitch, or just around 1". FB mini is ideal for pulley diameters as small as 47.8mm, or just under 2". This is another great option for replacing small transition conveyors, or in designs where a bigger pulley cannot be installed.

# Fabrication capabilities

Each application and process requires 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 6" (150mm) of a maximum height, and with a 2" (50mm) maximum lip.

Made from TPU and using HF welding technology.



## Sidewalls

Sidewalls are available for Soliflex TPU from approximately 1.2" (30mm) up to 4" (100mm).

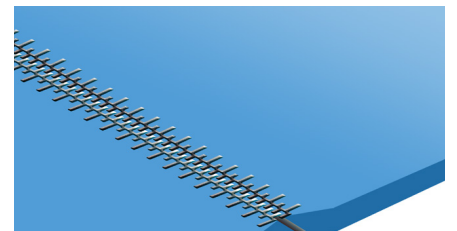
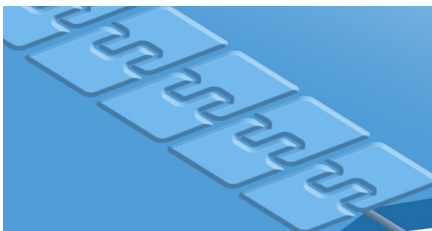
Can be combined with cleats to make pockets for product elevation on steep angle or vertical.



## 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.

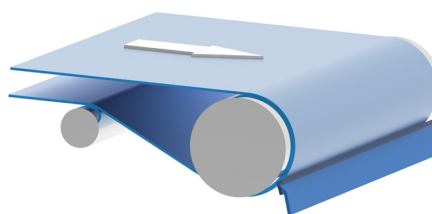
Alternately, the belt can be joined using less hygienic hinge lace, plastic, or stainless steel fasteners. These solutions allow an easy install and removal of the belt.



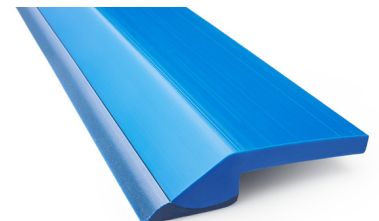
## UltraScraper

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



The UltraScraper's Soft Lip enables deep cleaning.



# Self-tracking & customization

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



## 1) By unique sprocket design

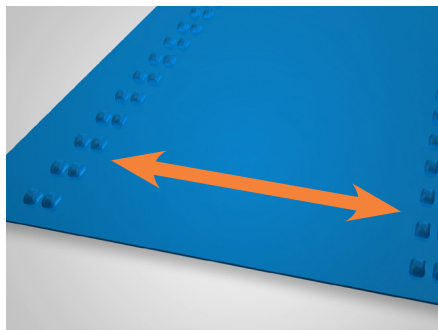
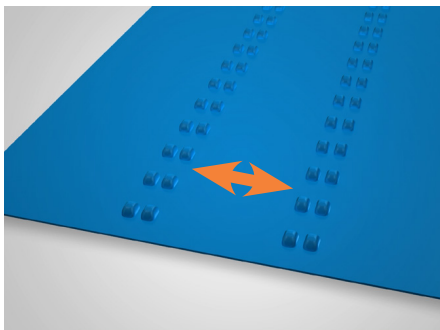
The sprocket's centre piece column also supports tracking and positioning. The belt is fixed in position on the drive and return pulley.



## 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

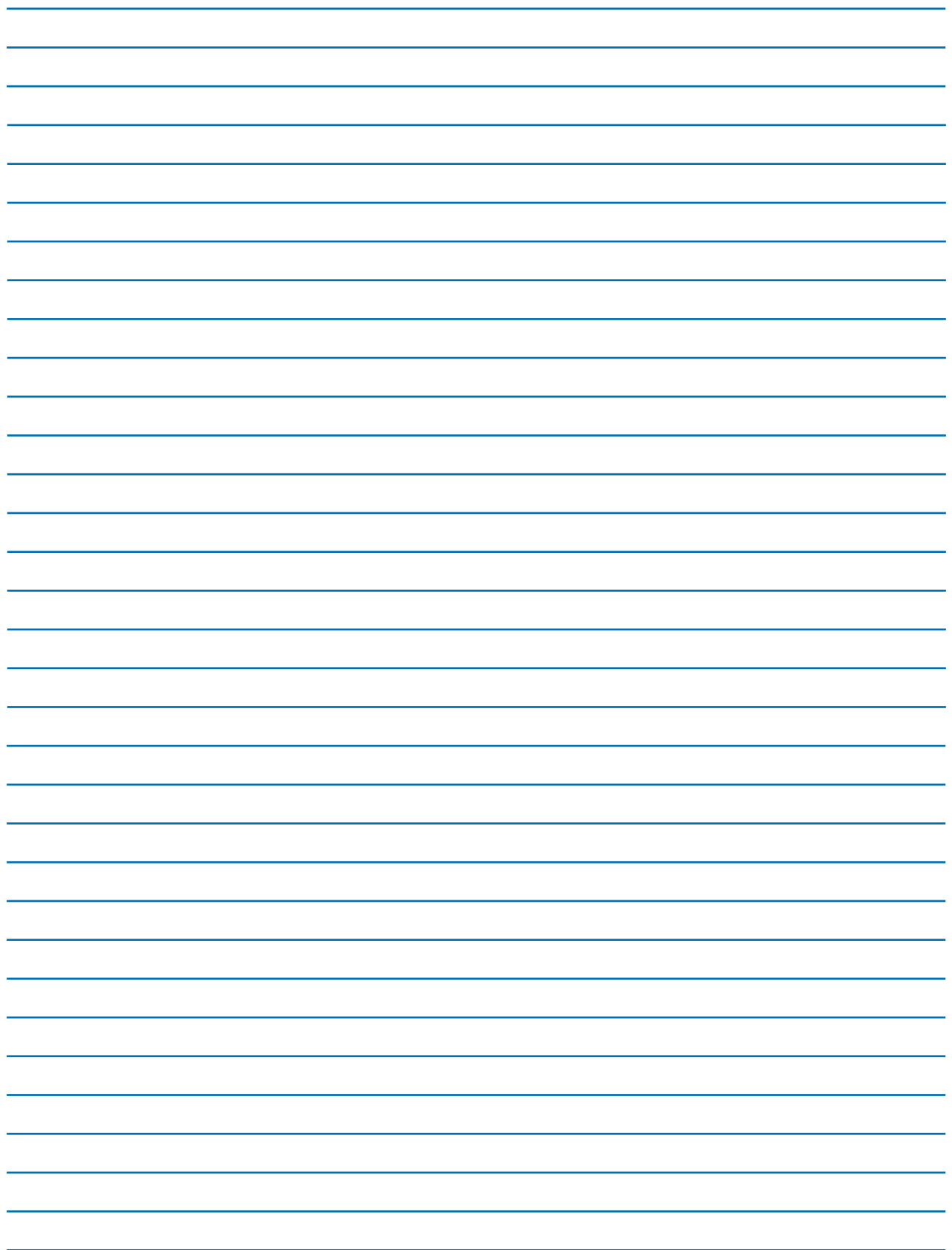
For special applications such as swan necks, the lugs can be positioned on the edges of the belt allowing full control in the critical bend of the conveyor.



## Notes

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