

Self-Tracking Belts



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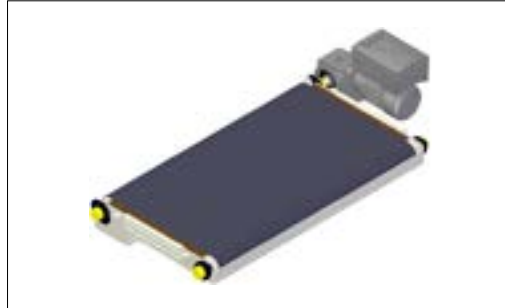


Ammeraal Beltech
member ropean
Hygienic Engineering
& Design Group



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

For general applications in the Logistics Industry, particularly sortation



In cooperation with leading OEM's Ammeraal Beltech has developed a range of Self-Tracking Belts (or STBs) with a proven record of superior performance. With this innovation, Ammeraal Beltech makes your belting-life easier. STBs are specially designed for use in situations that are known to give problems with belt tracking, like there are:

- Square and over-square conveyors
- Bi-directional conveyors
- Conveyors with a belt-push configuration
- Conveyors with a fixed end to end length
- Applications with asymmetrical on- or offloading of products
- Applications with strong variations in belt temperature

The elastic fabric in STBs makes them suitable to run on pulleys with a strong crowning. Self-Tracking Belts will automatically correct for any effects of pushing, pulling, side loading or other actions that might otherwise result in mistracking issues. These improvements result in less belt damage to belt mistracking and an immediate reduction of maintenance costs.

Self-Tracking Belts with our Flexam PVC cover have proven to be great problem solvers in for example the Logistic Industry. The same goes for STB's with a Nonex oil and fat resistant PVC cover these belts are designed to be used in the Food Industry. The STB's range includes belts with profiled top covers for better product release and profiles to improve grip.

The belts are clearly identifiable, thanks to the Self-Tracking Belt logo they bear.



Self-Tracking Belts must be installed on crowned pulleys.

General Rules for Conveyor Design for Self-Tracking Belts

Belt support upper part	Flat slider bed, flat belt on rollers (BOR)
Belt pretension	Generally between 3% and 5%
Drive drum	Bare steel, do not used drum lagging
Tracking device	No tracking device, no tracking idler
	No guide ropes on the belt
	Apply pulley crowning between 2% and 4%, at least 1 mm
	Recommended wrap around crowned pulley(s) 180° degrees

Ask for the Technical Manual Self-Tracking Belts for a more comprehensive treatment of this topic.

Minimum maintenance Lower operating costs



Less
disruption



Reduced
costs

AMMERAAL BELTECH SELF-TRACKING BELT RANGE

- Reduced maintenance costs, no need for re-tensioning checks on belts
- Compact design with no tracking rollers and only a simple tensioning device required; lighter shafts and bearings
- No need for tracking guides on the belt
- Grooves in drums and slider bed are not required.
- Belt can be installed or reinstalled more quickly; can be installed both ways without re-adjusting
- Increased belt lifespan; tension remains over lifetime of belt

- **Economical use**
- **Improved production throughput**

- Compact drive; improved power transmission efficiency
- No belt-tensioning device reduces weight
- No tracking guides on the belt reduces belt weight
- Low friction bottom side; smooth, economical operation
- Lower belt tension, less power consumption

- **Less energy consumption**
- **Reduced running costs**

- Shock-absorbing property absorbs vibrations and reduces shock load on bearings
- Self tracking properties
- Low noise level

- **Greater operational safety**

- Ammeraal Beltech belting has an established track record of excellence worldwide

- **Proven technological advantage**

Important! Self-Tracking Belts do not prevent mistracking, they correct it. Self-Tracking Belts should not be used to solve conveyor construction design flaws.



General Technical Data – Self-Tracking Belts

Article code	Belt description	Top profile	Hardness top cover Shore	Overall belt thickness [mm]	Minimum pulley flexing [mm]	Minimum pulley back-flexing [mm]
SBFL585011	Flexam EE /1 0+05 black M2 AS FR	M2 Matt finish	80A	1.6	40	50
SBFL585021	Flexam EE /1 0+A21 black AS FR	A21 Fine diamond	45A	1.95	40	50
SBFL585022	Flexam EE /1 0+A32 black AS FR	A32 Fine rib (small)	55A	2.1	40	50
SBFL585018	Flexam EE /1 0+A42 black AS FR	A42 Supergrip (wave)	35A	4.0	40	50
SBNO585061	Nonex EE/1 0+05 light blue M2 AS FG AM	M2 Matt finish	66A	1.6	40	50

FR = Flame retardant, AS = Anti-static, FG= Food Grade, AM = AntiMicrobial

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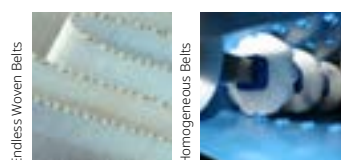
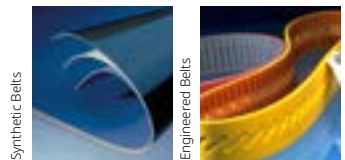
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**Expert advice, quality solutions
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