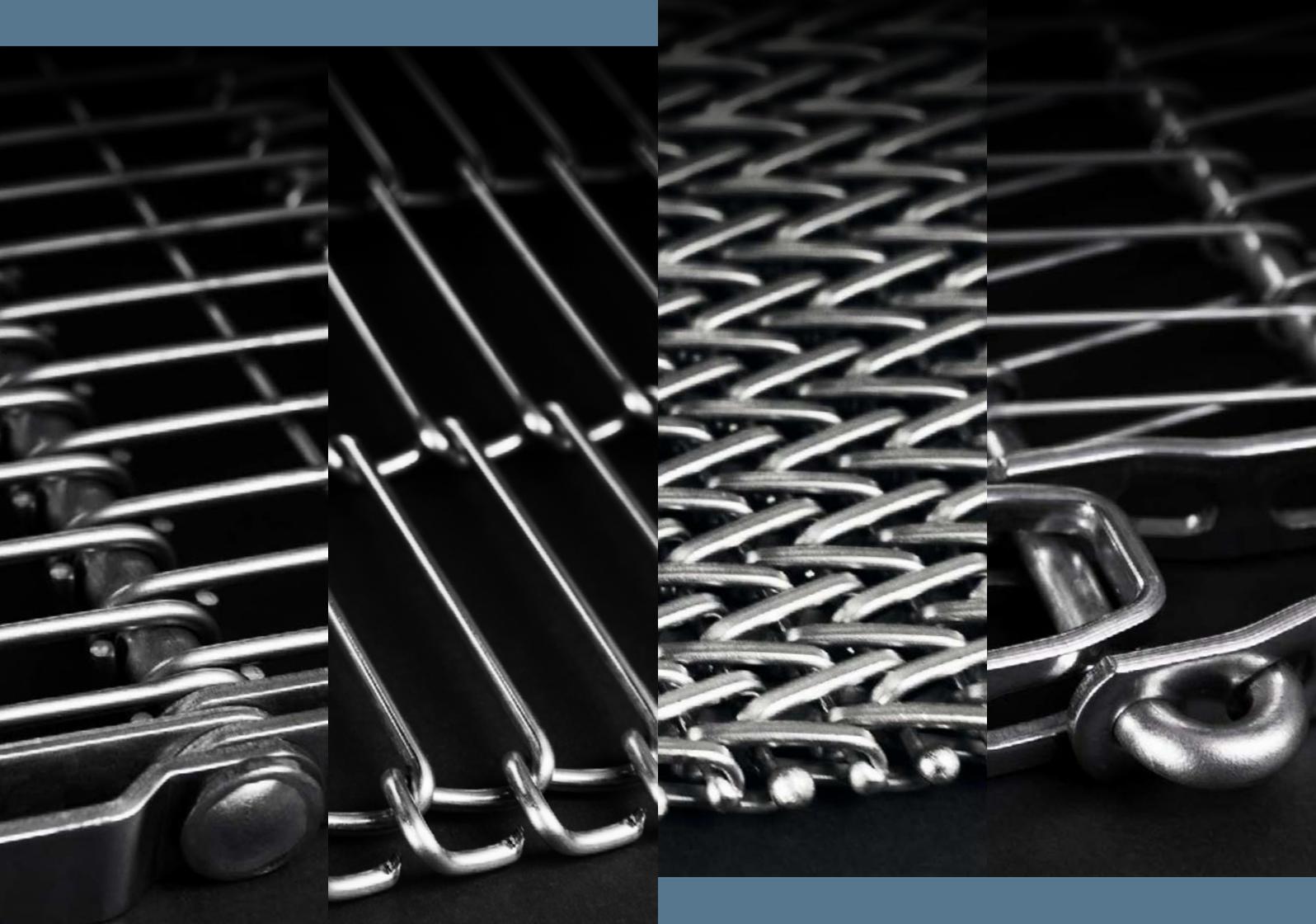
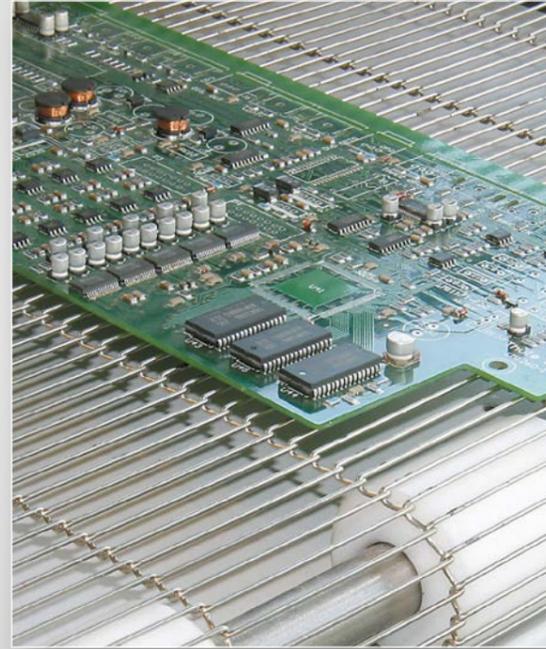


GENERAL BROCHURE

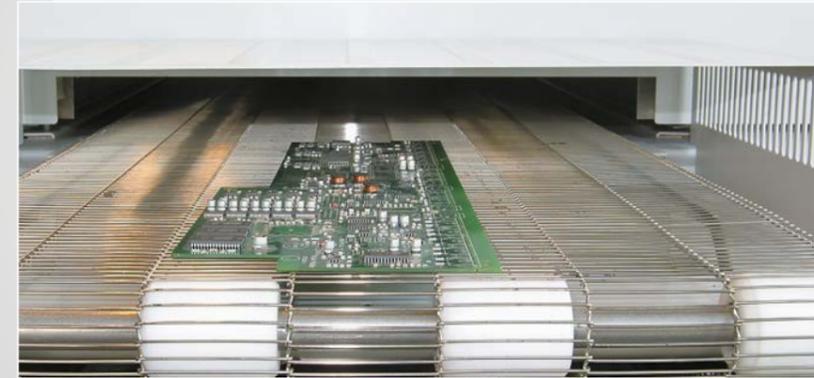
CONVEYOR BELTS





▶ TWENTEBELT. MARKET LEADER IN METAL CONVEYOR BELTS

Twentebelt of the Netherlands has been specialised in metal conveyor belts for over 100 years. Twentebelt develops, produces, supplies and maintains a wide



Wire mesh belt used in soldering furnace.

range of metal belts such as eyelink belts, wire mesh belts and balanced weave belts in various materials.

Twentebelt supplies, among others, the food, chemical, pharmaceutical and packaging industries. Each belt is designed and built for your specific application and working conditions. Twentebelt is the worldwide market leader in eyelink belts.

Process continuity with Twentebelt metal conveyor belts

The success of Twentebelt and therefore that of its clients is determined by the many advantages of metal conveyor belts, such as longer life, 100% reliability, ease of maintenance, lower cost and extra flexibility. Metal conveyor belts offer



Eyelink belt used in freezing tunnel at Bakkersland, Hoogeveen, Holland.

a solution for every production process, from cooking, baking, frying or freezing food to pasteurising preserves and drinks to degreasing metal objects, even in extreme conditions, such as temperatures below or far above freezing or when aggressive chemicals are used.





Twentebelt develops, advises and creates to your specifications

Twentebelt responds to specific client requests with unique custom solutions.

Twentebelt is aware that the quality of its advice determines the quality of the ultimate application. Put our product specialists to the test!

Prompt, quick service

Twentebelt also has its own service department that is always ready, everywhere, with diagnostics, advice and repairs. Regular inspections and

preventive maintenance allow us to optimise your business continuity.



Balanced weave belt in furnace at Bolletje, Almelo, Holland.

Used worldwide, appreciated worldwide

More and more companies around the world are trusting in the reliability of

Twentebelt and its metal conveyor belts.

On these pages a selection ...



Eyelink belt used at Freudenberg Household Products, Arnhem, Holland.

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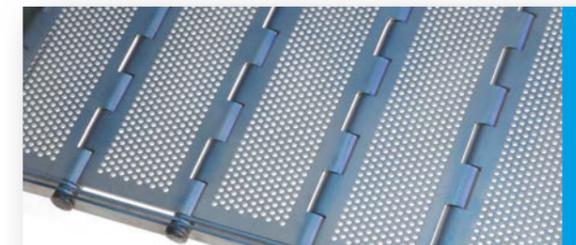
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▶ EYELINK BELTS



Stable flat foundation, perfect for pasteurisers, etc..



Suitable for very low or very high temperatures, such as fryers.

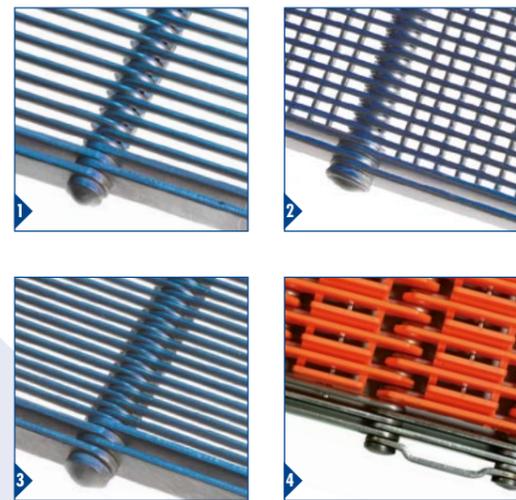
Applications and features

Eyelink belts combine a flat, stable surface with the dimensional stability and robustness of metal and are well suited to heavy loads and unstable or fragile products requiring good support. A perfectly straight run is always assured by positive drive with toothed sprockets. A single opening means that eyelink belts are easy to clean.

Twentebelt eyelink belts are durable and designed to be flexible.

Versions

There are many types of eyelink belt. The right belt for your application is made based on the type of eyelink, the belt pitch and the various options for finishing the side and installing flights.



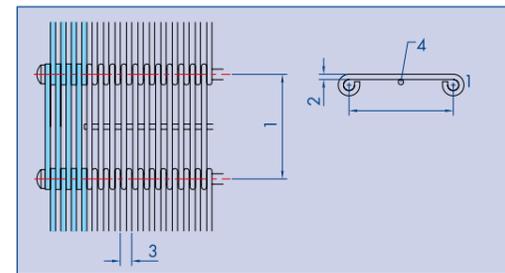
Belt structure:

- ▶ Eyelink to eyelink (type DO)
- ▶ Modular structure with one or more welded underwires (type DP(L) and DL)
- ▶ With flattened eyes for small opening (type DP)
- ▶ 'Combinox' hybrid construction from eyelink and synthetic modules



Side finishing

- ▶ With a welded side (LK)
- ▶ Fitted with chain (KH) to be driven by gear wheels at the sides.
- ▶ With guide plates (GP) for side protection.
- ▶ Or with plastic blocks (KB) for virtually seamless connection to the machine frame.



Sizes

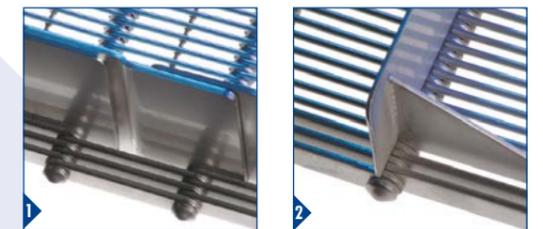
- ▶ Pitch (15.9 to 76.2 mm)
- ▶ Wire diameters (1.6 to 3.2 mm)
- ▶ Cross pitch (measured centre-to-centre of eyelinks 2.8 to 50 mm)
- ▶ Number of underwires (0 to 8)

Eyelink belts are available in various materials, including AISI 304 stainless steel and bright steel.



Drive

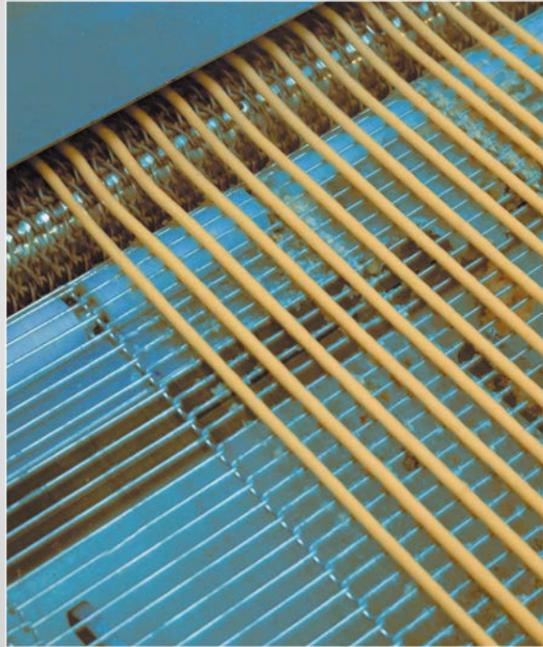
Belts depend on the right driving and turning wheels to operate well and without interruption, which is why Twentebelt develops and produces the required sprockets and rollers. Sprockets are equipped with special teeth configured for the belt structure, and tube, disc or strip rollers are available to drive the entire width of the belt.



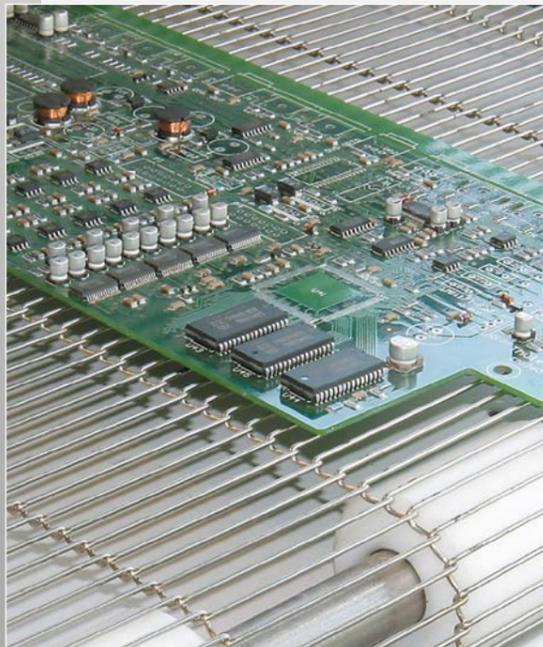
Options

For specific applications, an eyelink belt can be fitted with options, such as edge plates (1) for thicker layers of unsorted products, or flights (2) for ascending and descending belts.

▶ WIRE MESH BELTS



Even support with large opening for light products.



Wire mesh belts offer diverse solutions not only for the food sector but also in industry.

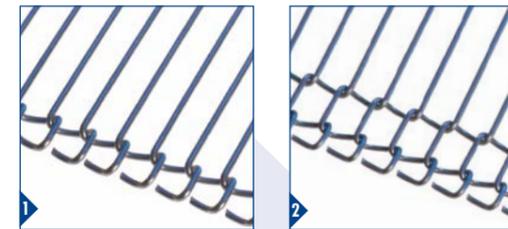
Applications/features

Wire mesh belts have extra large openings and are very well suited to coating processes such as chocolate covering, egg glazing, breading and other applications in which the product should have as little contact with the conveyor belt as possible. This means it is especially suitable for light products. The small radius on the reverse means a good product transfer.

Wire mesh belts are flexible in terms of use and specifications. Twentebelt also supplies 90° conveyor curves in various sizes as well as separate belts.

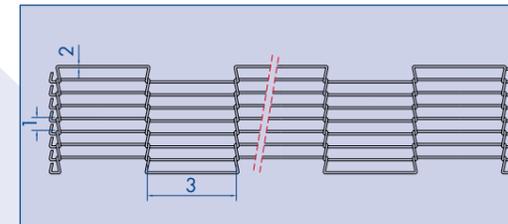
Versions

Diverse combinations of pitch, wire diameter, mesh length and side finishing create a wide range of fit-for-purpose wire mesh belts.



Side finishing

- ▶ With standard S side (type GR-SK)
- ▶ With a double bent Z side (type GR-ZK)



Sizes

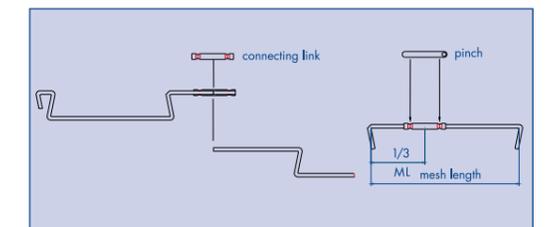
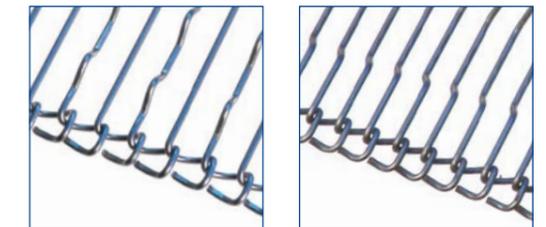
- ▶ Pitch (3.8 to 28 mm)
- ▶ Wire diameter (0.9 to 2.8 mm)
- ▶ Mesh length (25 to 150 mm)

Wire mesh belts are available in AISI 302 or 316 stainless steel and bright spring steel.



Drive

Wire mesh belts are driven by sprockets of plastic or stainless steel. These drives and turning wheels are developed and produced by Twentebelt for wire mesh belts and are intended to guarantee an optimal uninterrupted run.



Options

Wire mesh belts can be equipped with integrated flights or tips, or levels for fixed product spacing. The belt can be made endless simply by pinching shut a connector or by weaving in a pre-bent wire.

▶ BALANCED WEAVE BELTS



Balanced weave belts are suitable for very heavy as well as very light products.



Depending on the version, suitable for very high temperatures.

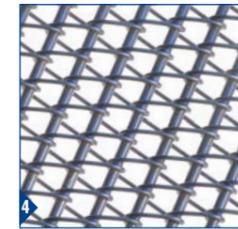
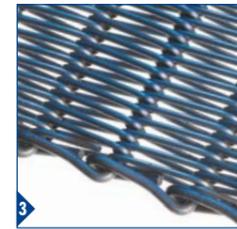
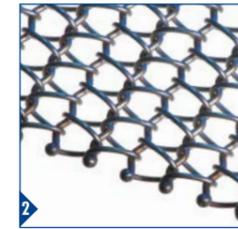
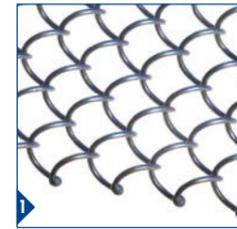
Applications/features

The balanced weave belt is the 'mother of all metal belts' and has a virtually infinite number of versions and applications, from super-strong (for heavy loads over large widths or very hot products) to very dense weaves for small products, unsorted goods or products requiring stable support. The belts have a perfectly round end, even with a small radius, for a good product transfer to the following stage of the process. From transport in glass furnaces and kilns to decorative dividers in architecture, balanced weave belts provide a solution for the most complex applications.

Versions

Balanced weave belts can be divided into three main groups:

- ▶ Without pins
- ▶ With corrugated pins
- ▶ With straight pins



Basic forms

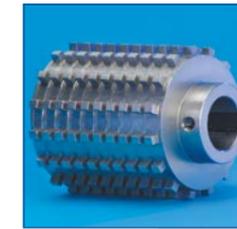
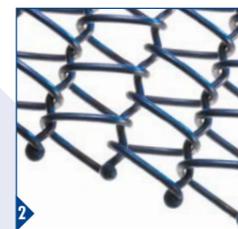
- 1 Balanced weave belt woven on one side (type SP)
- 2 Corrugated wirelink belt, alternately woven left and right for a straight run (type GS)
- 3 Straight wirelink (type RS)
- 4 'Rod reinforced' structure specifically for applications at temperatures up to 1200 °C (type RR)
- 5 'Compound belt' with additional pins and spirals for a very densely woven belt (type CB)

Side finishing

- 1 With looped edges (can easily be made endless)
- 2 Or welded (small links that cannot be bent)
- 3 Fitted with chains

Balanced weave belts are available in a wide range of materials: not only ferrous metals but also non-ferrous and combinations in a single belt.

Also available in various heat-resistant metal types.



Drives

The belt is driven by friction rollers over the entire width of the belt or positively with sprockets in the case of GS belts. The drive is perfectly suited to the application and belt used.



Options

Balanced weave belts can be equipped with edge plates and/or flights. The pins can be bent upwards in some types, resulting in a standing edge.

► TWENTEFLEX™
the innovation in spiral belt technology



Spiral tower



The unique advantages

- ▶ Elimination of welded joints
- ▶ Excellent hygienic characteristics
- ▶ Continuous quality control
- ▶ Extensive knowledge en practical experience
- ▶ Competitive pricing

Innovative design

The revolutionary bending of the cross rod and its lock into the connection link:

- ▶ has eliminated major reasons for belt problems like:
 - Weld breakage
 - Cross rod breakage next to the weld
 - Sharp welds damaging the cage bars
 - Tented inside links due to broken welds
- ▶ forms the ideal drive surface
- ▶ reduces the chance of damaging the drum

Hygienic in use and easy to maintain

By eliminating welded joints the TwenteFlex:

- ▶ has no dead-end cavities that are a breeding place for bacteria's
- ▶ is easier to clean
- ▶ material maintains its original quality and durability
- ▶ has no need for pickling and passivating

Durable construction

By bending instead of welding:

- ▶ reproducibility and durability are assured
- ▶ quality levels are not only high but also constant

Simple retrofit

Although its unique design TwenteFlex can retrofit existing spirals

R&D

Based on our customers needs and experiences we will keep developing our belts and delivery program

► OTHER BELTS

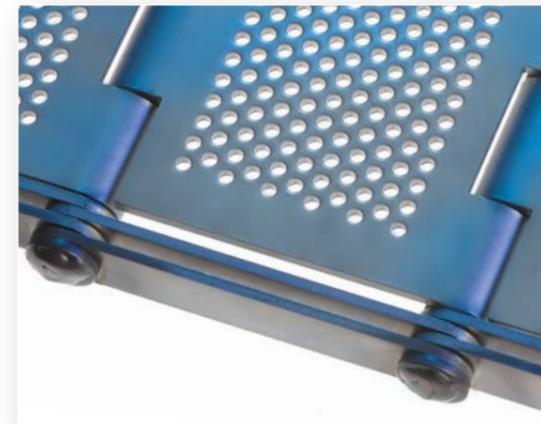
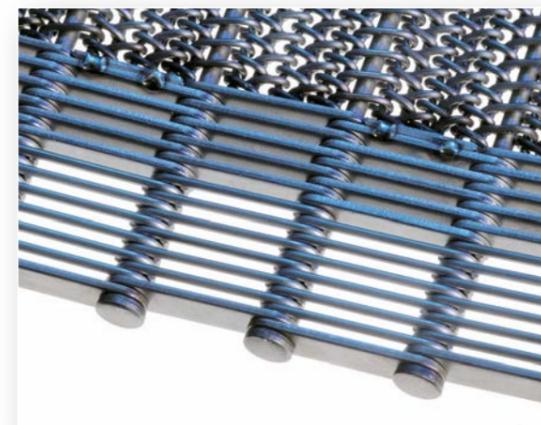


Plate belts.



Filter belts.



Conveyor curves.

In addition to eyelink belts, wire mesh belts and balanced weave belts, Twentebelt produces specific belt structures and complete solutions such as conveyor curves

Plate belts

Plate belts are well suited to drying processes. The self-supporting structure of these belts means they can be used over large widths without support. Perforations allow the opening in the belt to vary from 0 to very large. Chain-driven plate belts can be fitted with edge plates.

Filter plates

The specific structure of metal conveyor belts makes these suitable for use as filter plates, with an opening that is precisely aligned with the product to be filtered. Depending on the filtration process, balanced weave or eyelink belts can be used, or even combinations of both belts.

Conveyor curves

Sometimes the process has to turn a corner. Twentebelt's wire mesh belt conveyor curves offer a space-saving solution that is produced by Twentebelt and can be implemented immediately as a complete system that is hygienic and saves space, with an open or closed table top. The drive with a directly drive axle and integrated frequency control can be installed inside or outside the radius. Conveyor curves are available in different sizes, all adjustable for height.

STRONGLY  CONNECTED

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