

METAL CONVEYOR BELTS · PRODUCT DATA SHEET

Balanced Spiral Woven Conveyor Belts

Alternating right-hand and left-hand spirals joined by cross rods create a stable, straight-running wire mesh belt for industrial heat and food processes - proven in the food, heat treatment, chemical and glass industries.

4 Belt configurations	12 Listed material grades	17 Standard specifications
3 Drive methods	4 Edge configurations	Round / Flat Spiral wire options

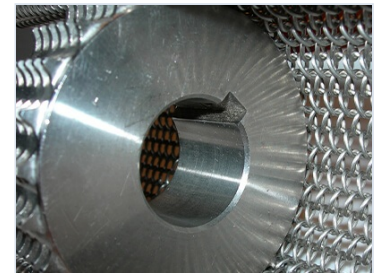
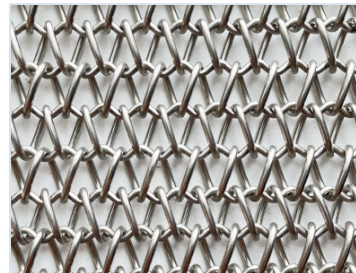


OVERVIEW

Balanced woven belts combine alternating left- and right-hand spirals connected by cross wires. Standard versions use crimped cross wires; straight-cross-wire and alternative edge configurations are also available.

Balanced weave belts suit a virtually infinite number of applications - from super strong belts conveying heavy loads over large widths or very hot products, to very dense weaves for small products, unsorted goods or products requiring stable support.

They are the most versatile and widely used metal conveyor belts, thanks to true travel, good flexibility, an excellent strength-to-weight ratio, a flat surface and minimal maintenance.



FEATURES AND BENEFITS

01 High Temperature Resistance

The feature section states up to 1150°C, depending on material. See the temperature clarification before selecting a belt.

02 Excellent Load Distribution

Interwoven spirals and cross rods spread load evenly across the width for long service life.

03 Open Mesh, Easy Cleaning

Efficient airflow and quick drainage for cooling, drying and baking; easy to clean in food-grade use.

04 Customizable Mesh Density

Standard, double and compound configurations, from wide-open to close mesh for small items.

05 Material & Edge Versatility

Stainless, carbon steel and NiCr alloys; welded, hooked, laddered or chain-driven edges.

06 Durable, Low Maintenance

High resistance to wear, thermal fatigue and corrosion reduces maintenance and downtime.

07 Compatible with Accessories

Side guards, flights and chain edges for inclined conveying, separation or containment.

08 Proven Across Industries

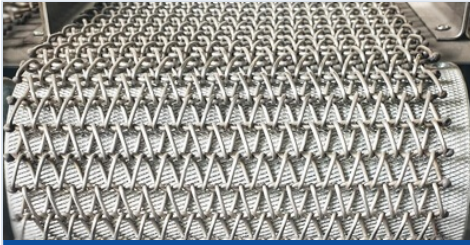
Food processing, glass production, metal heat treatment and packaging lines worldwide.

09 Balanced Spiral Construction

Alternating left- and right-hand spirals support straight tracking. Drive compatibility, alignment and tension remain important.

METHODS OF DRIVE

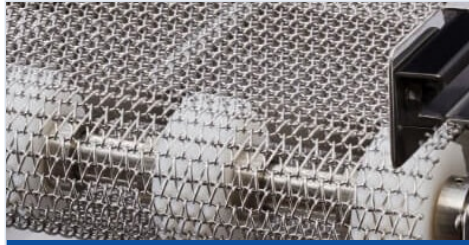
Driven by friction rollers, sprockets engaging the mesh directly, or sprockets driving side chains - selected by mesh specification, load, temperature and conveyor layout.



Friction Driven

The most common arrangement: a plain steel cylindrical roller transfers motion by friction. Rubber or high-temperature friction lagging adds grip, lowering required tension and limiting belt stress and wear.

[Troubleshooting guide ›](#)



Positive Drive

Matched sprockets engage directly with the belt mesh, reducing reliance on friction, lowering drive tension and helping control tracking and slippage. Mesh pitch, wire size and tooth profile must be compatible.

[Troubleshooting guide ›](#)



Chain Edge Drive

Side chains, connected by extra cross rods through the spirals, drive and guide the mesh while the spiral part carries the product. Chain pitch, sprocket size and attachments are specified together.

[Troubleshooting guide ›](#)

FOOD PROCESSING & ACCESSORIES

Food Processing Applications

PFM states compliance with **FDA, GMP and EU 1935/2004/EC** requirements for food-contact applications including baking, frying, drying, cooling, freezing and pasteurizing. Request documentation for the specified belt and intended use.

Website-stated range: -50°C to +1350°C, depending on alloy. This differs from the material table; see the temperature clarification.

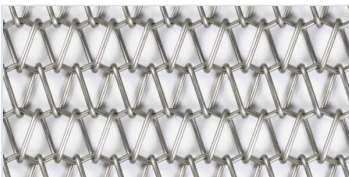
Edge Plates and Flights

Belts can additionally be equipped with edge plates and flights. In some belt types the pins can be bent upwards to create a standing edge.



BELT TYPES

Four configurations - from corrugated wire link belts alternately woven left and right for a straight run, to rod-reinforced structures for high temperatures.



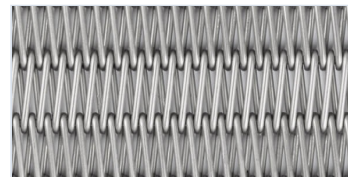
Standard Balanced

Alternating left and right hand coils, each interconnected with the next by a crimped cross wire.



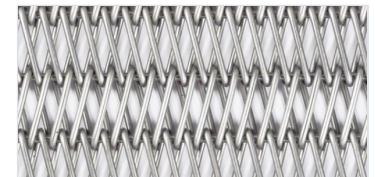
Double Balanced

Coil pairs of each handing intermesh and link by crimped cross wire - closer coil pitching for small products.



Standard, Straight Cross Wire

Single coils joined by a straight cross wire in a LH/RH repeat for closer pitching across the width.

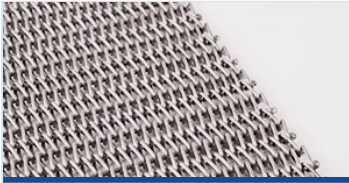


Double, Straight Cross Wire

Double intermeshing coils joined by a straight cross wire for close pitching and small product handling.

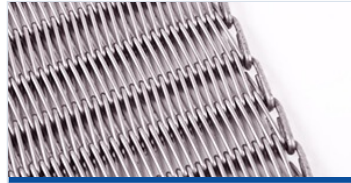
EDGE AVAILABILITY

Laddered and hook edges are generally available only for meshes with a relatively large crimp wire pitch down the length.



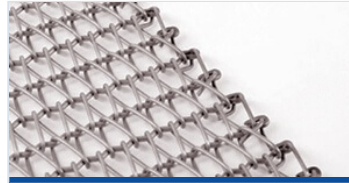
Welded Edge

Most common and economical finish. Coil and crimp wires are welded together - no cut wire ends.



Laddered Edge

Weld-free, smooth and flexible; not under operational strain, so less prone to fracture at high temperature.



Hook Edge

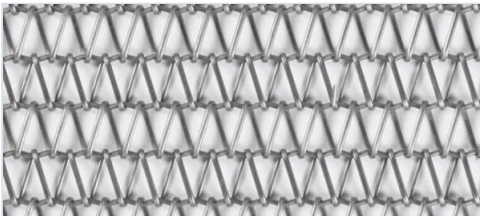
Weld-free, smooth edge with more flexibility where welding is not desirable or available.



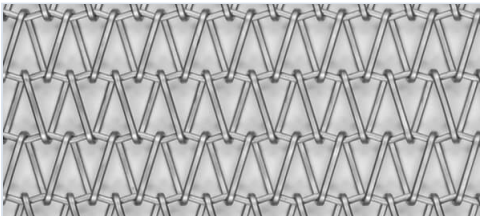
Chain Edge Driven

Driven by side chains using cross rods located through the mesh coils and the edge chains.

WIRE TYPE & MATERIAL AVAILABILITY



Round spiral wire



Flat spiral wire

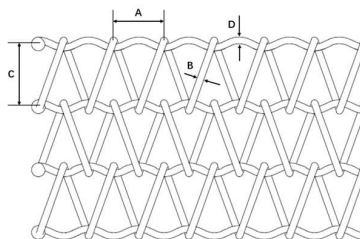
Material	Max. Operating Temp.
Carbon Steel	550°C
Galvanised Mild Steel	400°C
Chrome Molybdenum	700°C
304 Stainless Steel	750°C
321 Stainless Steel	750°C
316 Stainless Steel	800°C
316L Stainless Steel	800°C
314 Stainless Steel	1120°C
37/18 Nickel Chrome	1120°C
80/20 Nickel Chrome	1150°C
Inconel 600	1150°C
Inconel 601	1150°C

Other materials available on request. Confirm material and operating duty with PFM.

Temperature clarification: the website states -50°C to +1350°C, while this table reaches 1150°C. The FAQ cites about 870°C for 304/316L; the table lists 750°C/800°C. Confirm the appropriate operating limit with PFM.

SPECIFICATION DRAWINGS

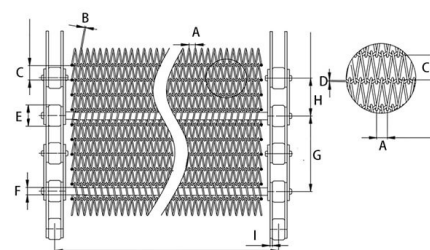
Balanced Woven Belt



A Spiral Wire Pitch
C Cross Rod Pitch

B Spiral Wire Diameter
D Cross Wire Diameter

Balanced Woven Belt with Chain Edge



A Spiral Wire Pitch
D Cross Wire Dia.
G Support Rod Pitch

B Spiral Wire Dia.
E Roller Dia.
H Chain Pitch

C Cross Rod Pitch
F Support Rod Dia.
I Plate Thickness

All dimensions in mm.



STANDARD SPECIFICATIONS

Item No.	Spiral Wire Pitch (A)	Cross Rod Pitch (C)	Spiral Wire Dia. (B)	Cross Wire Dia. (D)
BWCB-001	4.00	4.00	0.90 - 1.20	1.20 - 1.60
BWCB-002	5.00	6.40	0.90 - 1.20	1.20 - 1.60
BWCB-003	5.00	5.00	0.90 - 1.60	1.20 - 1.60
BWCB-004	6.00	6.00	0.90 - 1.60	1.20 - 1.60
BWCB-005	6.00	8.00	0.90 - 1.20	1.20 - 1.60
BWCB-006	6.00	10.00	0.90 - 1.60	1.20 - 1.60
BWCB-007	8.00	12.00	1.20 - 2.00	1.20 - 2.50
BWCB-008	8.00	13.00	1.20 - 2.00	1.20 - 2.50
BWCB-009	8.00	15.00	1.20 - 2.00	1.20 - 2.50
BWCB-010	11.00	15.00	1.20 - 2.00	1.20 - 2.50
BWCB-011	11.00	20.00	1.60 - 3.00	1.60 - 3.00
BWCB-012	11.00	25.00	1.60 - 3.00	1.60 - 3.00
BWCB-013	11.00	27.00	1.60 - 3.00	1.60 - 3.00
BWCB-014	15.00	20.00	1.60 - 3.00	1.60 - 3.00
BWCB-015	15.00	25.00	1.60 - 3.00	1.60 - 3.00
BWCB-016	22.00	23.00	1.60 - 3.00	1.60 - 3.00
BWCB-017	22.00	33.00	1.60 - 3.00	2.00 - 4.00

Unit: mm. 1. For flat wire, please provide the cross-section dimensions. 2. Custom specifications are available if you cannot find a suitable size.

Need help matching your belt specifications?

Send belt width and length, spiral and cross-wire dimensions, material grade, edge type and drawings. For chain-edge belts, include chain pitch and support-rod details.

[Request Custom Quote](#)

[Enquiry Form \(PDF\)](#)

DOWNLOADS & TECHNICAL RESOURCES

[PDF](#) [Balanced Spiral Woven Conveyor Belts](#)

[PDF](#) [Double Balanced Belt Enquiry Form](#)

[PDF](#) [Chain Edge Belt Enquiry Form](#)

[WEB](#) [Guide to Measuring a Balanced Woven Belt](#)

[WEB](#) [Installation Procedure](#)

[WEB](#) [Wire Gauge Conversion Tables](#)

[PDF](#) [Standard Balanced Belt Enquiry Form](#)

[PDF](#) [Straight Cross Wire Belt Enquiry Form](#)

[PDF](#) [PFM SCREEN Conveyor Belt Product Catalog](#)

[WEB](#) [Drive Mechanisms & Applications Guide](#)

[WEB](#) [Standard Balanced Belt Quotation Guide](#)

[WEB](#) [Metal Conveyor Belt Material Chart](#)

APPLICATIONS

Industrial product processing, transfer and packaging belts; food processing spiral wire link belts for product transfer and baking.

Annealing Oven Conveyor Belts

Cooker Conveyor Belts

Fryer Conveyor Belts

Drying Conveyor Belts

Cooling Conveyor Belts

Washing Conveyor Belts

Take-over Conveyor Belts

Baking Ovens

Biscuit Ovens

Glass Ovens

Hardening Ovens

Lehr Conveyor Belts

Veneer Dryer Belts

Decoration Ovens



Ovens



Baking



Fryer



Annealing Furnace



Metal Parts



Cooking

FREQUENTLY ASKED QUESTIONS

Q1 What is a balanced spiral woven belt?

Alternating left- and right-hand wire coils are connected by crimped or straight cross wires. The balanced construction supports a stable carrying surface and straight running across a broad range of applications.

Q2 What temperature range is stated?

The website states -50°C to +1350°C, but the material table tops out at 1150°C. Its FAQ also cites approximately 870°C for 304/316L, compared with 750°C/800°C in the table. Confirm the actual operating limit before ordering.

Q3 Which industries use these belts?

Food processing, heat treatment, glass manufacturing, automotive and metal-parts processing, chemical and pharmaceutical processes, packaging and electronics. Select the mesh, material and drive arrangement for the product and operating conditions.

Q4 Standard or double balanced weave?

Standard construction uses single alternating coils. Double balanced construction uses intermeshing coil pairs, allowing closer pitching and smaller apertures for products needing more surface support. Both have crimped- and straight-cross-wire variants.

Q5 Can dimensions and edges be customized?

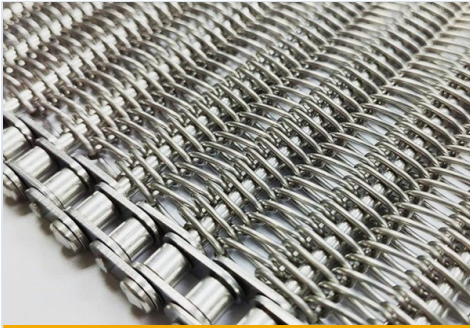
Yes. Specify belt width and length, pitches, wire sizes and material. Edge choices include welded, laddered, hook and chain-driven arrangements. Side guards, flights, edge plates and selected bent-pin edges are available.

Q6 What food-contact documentation is available?

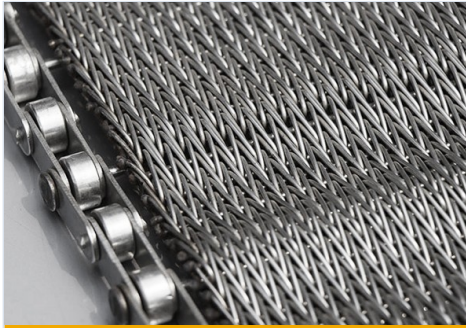
PFM states compliance with FDA, GMP and EU Regulation 1935/2004/EC, with material certificates available on request. Specify the intended food-contact process when requesting documentation.

OUR COMPLETE PRODUCT RANGE

Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



03 Chain Link Conveyor Belts



04 Flat Flex & Enrober Belts



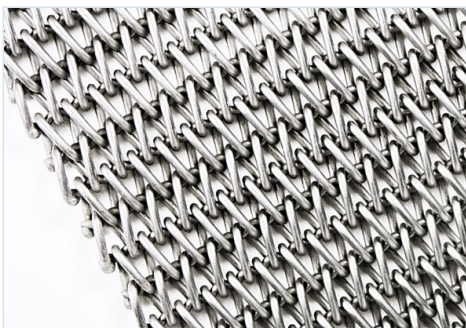
05 Eye Link & Eye Flex Belts



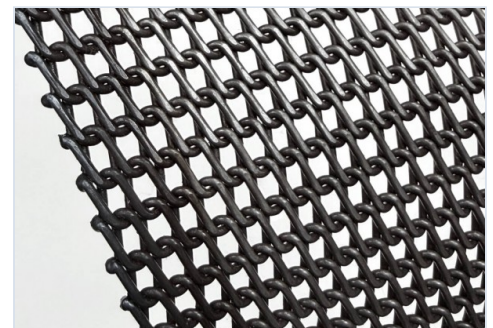
06 Honeycomb & Flat Wire Belts



07 Plate Link & Hinged Steel Belts



08 Wire Mesh Lehr Belts



09 Biscuit Baking Belts



10 Spiral Freezer Belts



11 Flexible Rod Conveyor Belts



12 Self-Stacking Spiral Belts



13 Edge Drive Spiral Freezer Belts



14 Ladder Conveyor Belts



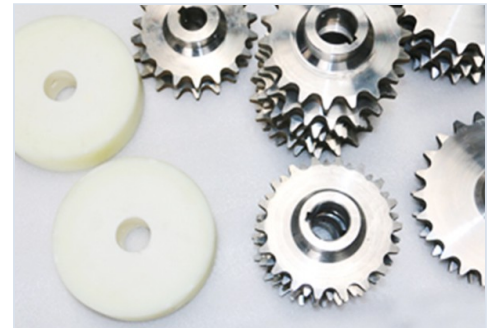
15 Woven Rod Bar Conveyor Belts



16 Veneer Dryer Wire Mesh Belts



17 Chain Links



18 Sprockets

WHY PFM SCREEN BELTING

Since 1987

Factory-direct manufacturing in Anping, Hebei — China's wire mesh base

16+

Metal belt types, plus matched chains and sprockets

60+

Countries supplied with export-grade crating

1 Day

Typical reply with belt recommendation and quotation

CONTACT US

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Complete the enquiry form for your belt type and email it with drawings or photos, operating conditions and required quantity. Unsure which form to use? Send a photo of your existing belt.

[Request Quote Now](#)

[Email Completed Form](#)