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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

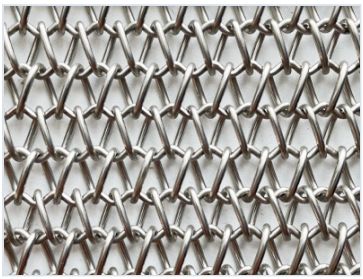


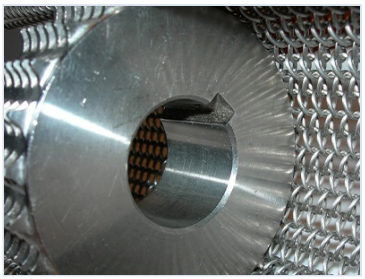
OVERVIEW

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
High-temperature service up to 1150°C, depending on material, for annealing ovens, lehrs and other heat treatment systems.

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.

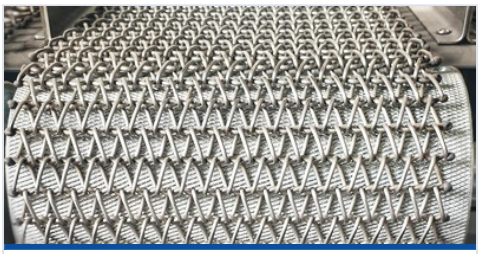
08 Proven Across Industries
Food processing, glass production, metal heat treatment and packaging lines worldwide.

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

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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

A plain steel roller drives the belt by friction. Adequate wrap, tension and alignment are essential. Suitable rubber or high-temperature lagging can improve grip and reduce required tension.

Troubleshooting guide ›



Positive Drive

Matched sprockets engage compatible standard mesh. Mesh pitch, wire dimensions and tooth profile must match. Correct sprocket positioning, shaft alignment and take-up adjustment support reliable tracking with reduced drive tension.

Troubleshooting guide ›



Chain Edge Drive

Side chains transmit the driving force; the mesh carries the product. Cross rods connect mesh and chains. Specify mesh, chain pitch, sprockets and attachment details together.

Troubleshooting guide ›

FOOD PROCESSING & ACCESSORIES

Food Processing Applications

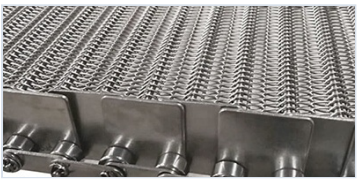
PFM states compliance with **FDA, GMP and EU 1935/2004/EC** requirements for food-contact applications including baking, frying, drying, cooling, freezing and pasteurizing. Request documentation for the specified belt and intended use.

Operating range: -50°C to +1150°C, depending on the selected material and application. Belt length and width can be customized.

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.

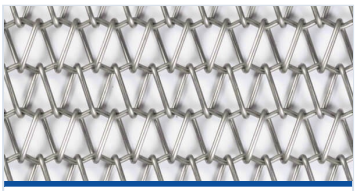






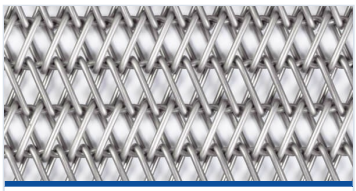
BELT TYPES

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



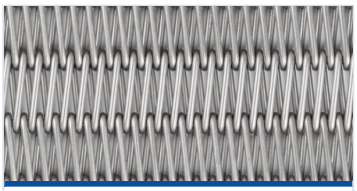
Standard Balanced

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



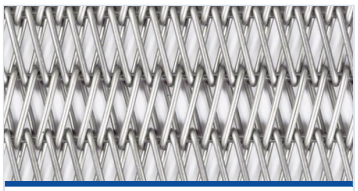
Double Balanced

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.



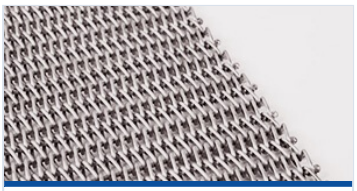
Double, Straight Cross Wire

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

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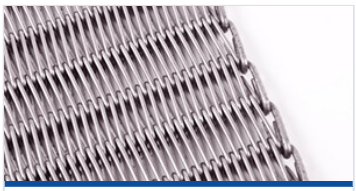
EDGE AVAILABILITY

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



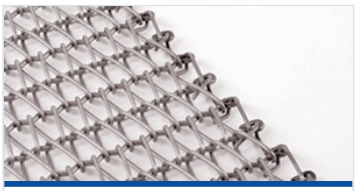
Welded Edge

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



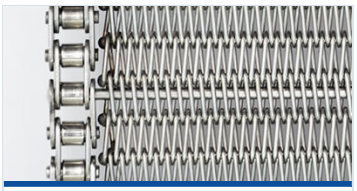
Laddered Edge

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



Hook Edge

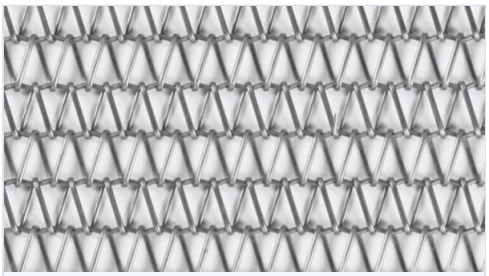
Weld-free, smooth edge with more flexibility where welding is not desirable or available.



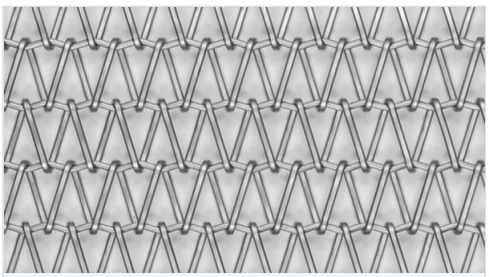
Chain Edge Driven Mesh

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

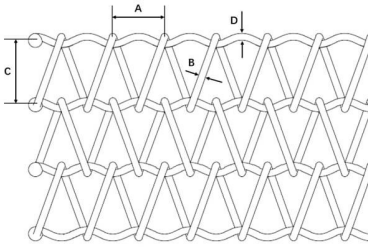
Material	Max. Operating Temp.
Carbon Steel	550°C
Galvanised Mild Steel	400°C
Chrome Molybdenum	700°C
304 Stainless Steel	750°C
321 Stainless Steel	750°C
316 Stainless Steel	800°C
316L Stainless Steel	800°C
314 Stainless Steel	1120°C
37/18 Nickel Chrome	1120°C
80/20 Nickel Chrome	1150°C
Inconel 600	1150°C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

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

SPECIFICATION DRAWINGS

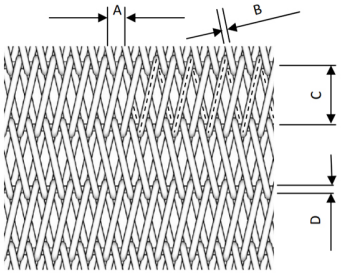
All dimensions in mm. Select the drawing that matches your mesh structure and drive arrangement.

Balanced Woven Belt



A	Spiral Wire Pitch	**B**	Spiral Wire Diameter
C	Cross Rod Pitch	**D**	Cross Wire Diameter

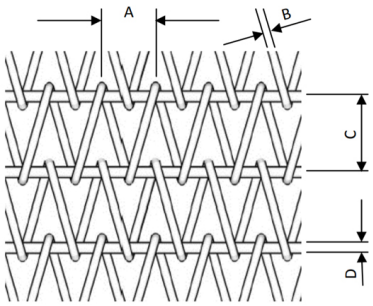
Double Balanced Spiral Woven Belt



A	Spiral Wire Pitch	**B**	Spiral Wire Diameter
C	Cross Rod Pitch	**D**	Cross Wire Diameter

Double balanced: paired-coil structure. Specify crimped (standard) or straight (improved) cross wires.

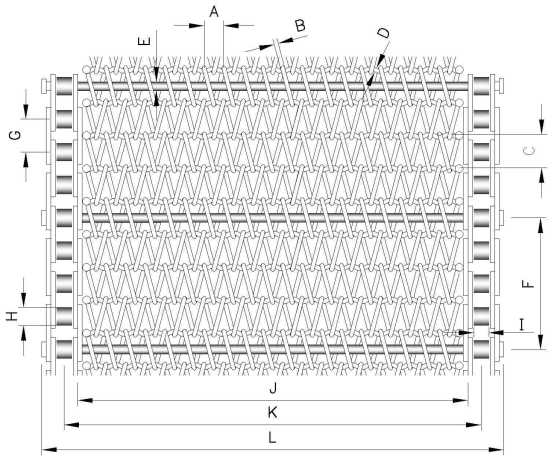
Balanced Woven Belt with Straight Cross Wire



A	Spiral Wire Pitch	**B**	Spiral Wire Diameter
C	Cross Rod Pitch	**D**	Cross Wire Diameter

Straight cross wire: the drawing shows the standard / single-coil arrangement. Confirm single or paired coils.

Balanced Woven Belt with Chain Edge



A	Coil Pitch	**B**	Coil Wire Diameter	**C**	Crimped Cross Wire Pitch
D	Crimped Cross Wire Diameter	**E**	Cross Rod Diameter	**F**	Cross Rod Pitch
G	Chain Pitch	**H**	Chain Roller Diameter	**I**	Inside Chain Width
J	Width Between Chains / Mesh Width	**K**	Chain Centres	**L**	Overall Width

For A and C, measure over 10 pitches where practical and divide by 10.

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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)

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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**



Industrial Baking



Flatbread Baking



French Fry Processing



Glass Annealing Lehr



Bolts & Fasteners

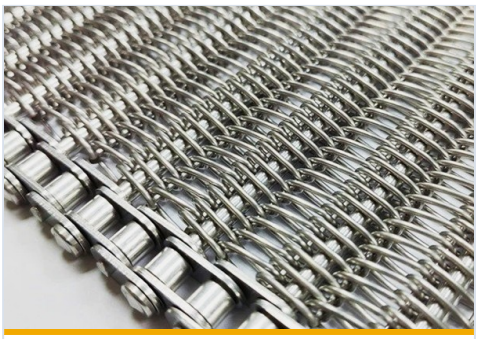


Pastry Processing

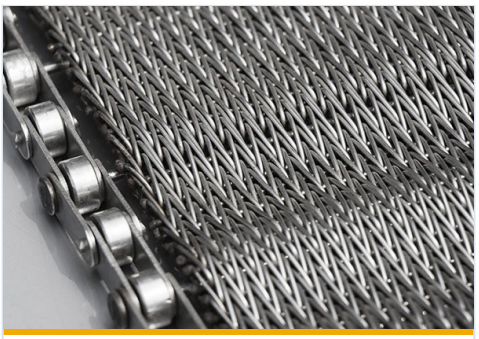
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OUR COMPLETE PRODUCT RANGE

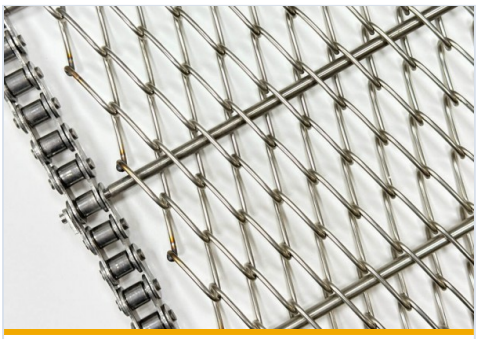
Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



03 Chain Link Conveyor Belts



04 Flat Flex & Enrober Belts



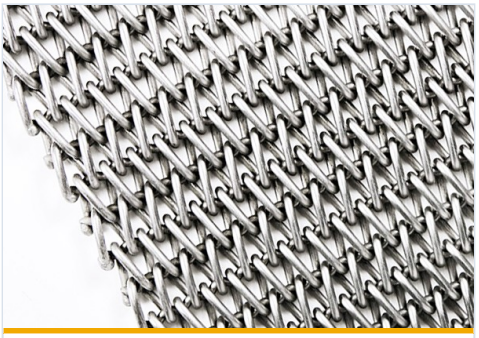
05 Eye Link & Eye Flex Belts



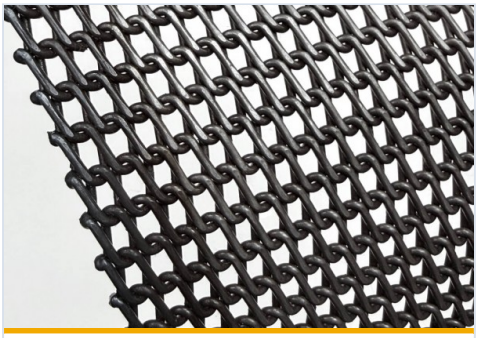
06 Honeycomb & Flat Wire Belts



07 Plate Link & Hinged Steel Belts



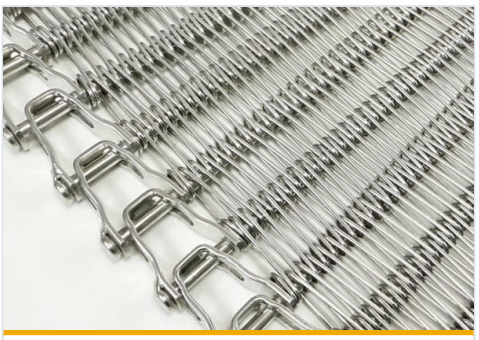
08 Wire Mesh Lehr Belts



09 Biscuit Baking Belts



10 Spiral Freezer Belts



11 Flexible Rod Conveyor Belts



12 Self-Stacking Spiral Belts



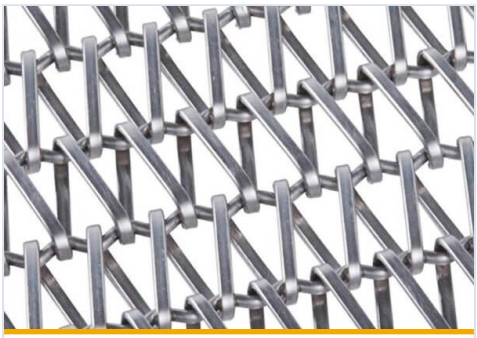
13 Edge Drive Spiral Freezer Belts



14 Ladder Conveyor Belts



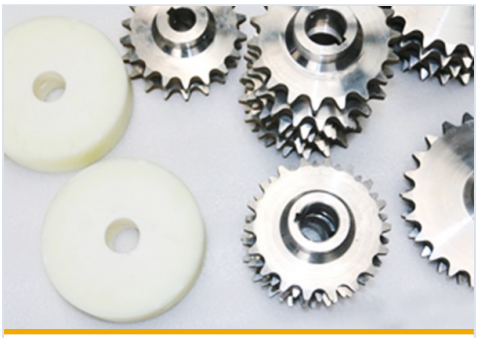
15 Woven Rod Bar Conveyor Belts



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 Business Day
Typical response from our sales engineering team

CONTACT US

INTERNATIONAL SALES & ENQUIRIES

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PRODUCTION & TECHNICAL SUPPORT

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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