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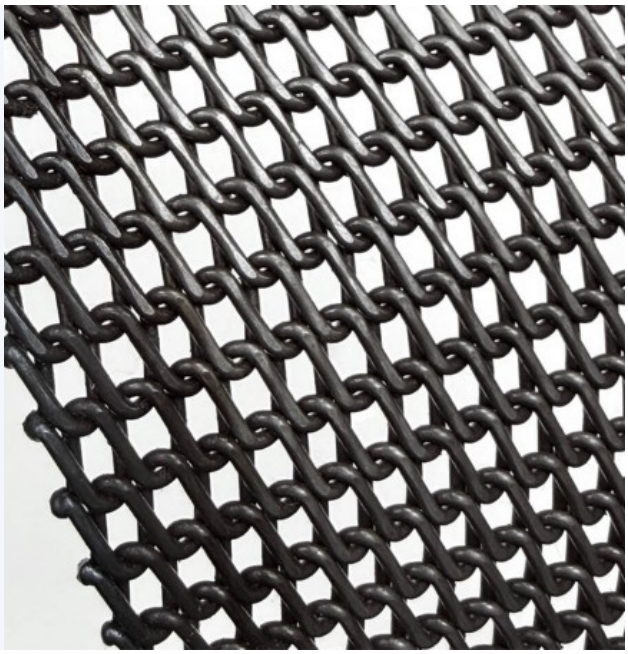
METAL CONVEYOR BELTS · PRODUCT DATA SHEET

Biscuit Baking Belts & Rolled Baking Band

Rolled spiral wire mesh provides a thin, flat, open surface for direct baking in straight-through tunnel ovens. PFM SCREEN supplies four standard carbon-steel specifications, with SS304 and looped edges available on request to match the product and oven.

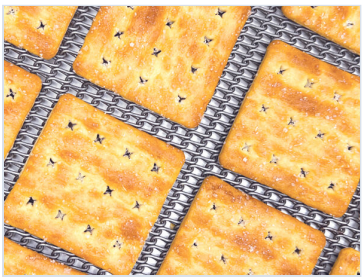
4 Standard models	**Carbon Steel** Standard material	**Welded** Standard edge
SS304 Available on request	**Friction Drive** Matched drum arrangement	**Open Mesh** Heat and vapour passage

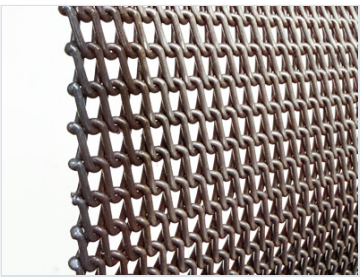


OVERVIEW

Interlinked spiral mesh is flattened by controlled rolling to reduce thickness and form the carrying surface. The band remains an open wire structure, not a continuous solid sheet.

The mesh supports suitable dough pieces and permits airflow and moisture release. Final colour, shape and moisture depend on the recipe and oven settings.





FEATURES AND BENEFITS

01 Flat Product Support
Rolled wire provides an even surface for suitable dough pieces.

02 Low Moving Mass
Thin mesh reduces the belt mass moved and heated by the line.

03 Airflow and Vapour
Openings permit process air and moisture passage.

04 Dimensional Selection
Wire size and mesh geometry are matched to load and support.

05 Mesh Base Pattern
Direct contact can leave a grid impression, depending on mesh and recipe.

06 Inspection Access
Open construction allows inspection and residue removal.

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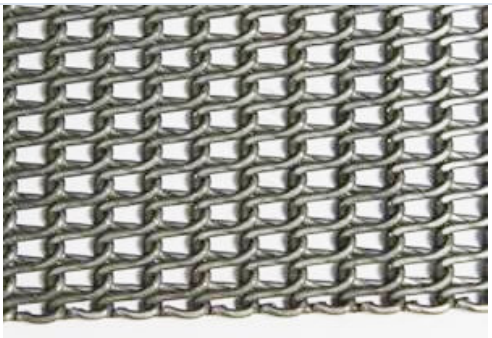
01 EDGES, MATERIALS AND OVEN DRIVE

1.1 Edge availability

Welded Edge - Standard

Edge wires are secured by welding. Include photographs of the existing edge and joint when specifying replacements.



Looped Edge - On Request

Wire ends are formed into loops. Specify this option and confirm compatibility with the oven.

1.2 Material selection

Material	Application considerations
Carbon Steel - Standard	Common for dry biscuit baking. Specify process temperatures and cleaning conditions.
SS304 - On Request	Review corrosion, condensation and cleaning exposure. Not automatically suitable for aggressive chloride-based sanitisers.

Confirm the allowable temperature of the belt, joint, load and oven arrangement. Supply normal/peak settings, actual belt temperature and start-up/shutdown conditions.

1.3 Friction drive and joining

A drum normally drives the band by friction, commonly at the oven outfeed. Traction depends on contact, wrap and appropriate tension. Correct alignment, support, tracking and take-up remain necessary.

Supply overall width, full belt circuit length, drive/infeed drum diameters and edge/joint photographs. Shaft centre distance alone does not define full-loop length.

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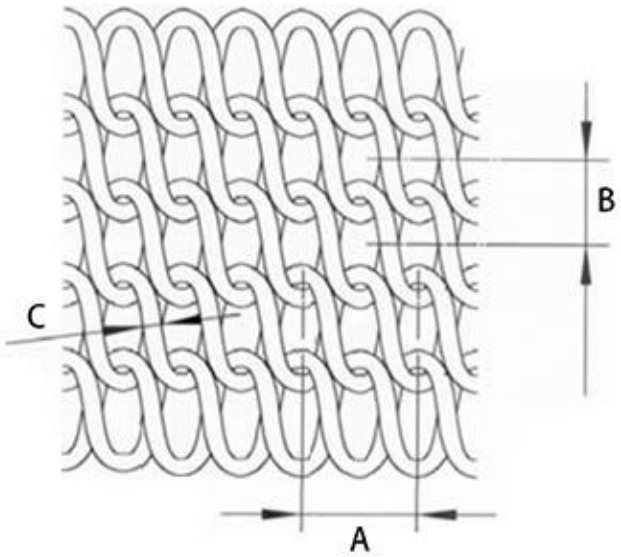
02 DIMENSIONS AND STANDARD MODELS

2.1 Mesh measurement guide



A Spiral pitch (mm)

B Belt pitch (mm)

C Wire diameter (mm)

2.2 Nominal carbon-steel specifications

Model	Spiral Pitch (mm)	Wire Dia. (mm)	Belt Pitch (mm)	Thickness (mm)	Weight (kg/m²)
Z47 (F 4012)	8.20	1.20	5.40	2.20	7.00
Z47R (F 4015)	8.50	1.50	5.20	2.80	11.20
Z28 (F 2510)	6.30	1.00	6.80	1.80	6.50
Z48 (F 6014)	8.50	1.30	6.70	2.40	7.40

Confirm finished dimensions, material, edge and joining details. Custom sizes are available for review.

Identify Z47, Z47R, Z28 or Z48

Send A, B and C, thickness, width, full length, drum diameters, joint photographs and oven conditions.

Request Custom Quote

Email Specifications

2.3 Model selection

01 Z47 / F4012

7.00 kg/m²; 1.20 mm wire and 2.20 mm thickness for suitable biscuit and cracker lines.

02 Z47R / F4015

11.20 kg/m²; 1.50 mm wire and 2.80 mm thickness for heavier-duty review.

03 Z28 / F2510

6.50 kg/m²; 1.00 mm wire and 1.80 mm thickness give a lower-mass option.

04 Z48 / F6014

7.40 kg/m²; 1.30 mm wire and 6.70 mm belt pitch. Match openings to product support.

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03 BAKING APPLICATIONS

Biscuit Baking Belt for biscuit baking

Biscuit Tunnel Ovens

Biscuit Baking Belt for biscuit cooking

Cookie and Cracker Production

01 Crackers
Saltines, cream crackers and suitable snack formats.

02 Hard Biscuits
Digestives, Marie, tea and other hard sweet biscuits.

03 Cookies and Shortbread
Review product size, formulation and release.

04 Sandwich Bases
Confirm base support and downstream handling requirements.

05 Rusk and Crispbread
Select for the required continuous baking profile.

06 Soft Biscuits
Use only where the dough is supported and releases after baking.

3.1 Dough and process suitability

Soft, sticky, high-fat or fluid doughs may enter openings or leave deposits. High fat content alone does not determine suitability; review the recipe or carry out a baking trial.

Where continuous support is needed, assess an oven-compatible solid band or trays. Perforated or plate-link belts need a separate review and are not automatic substitutes. Open mesh alone does not guarantee uniform baking or blister-free bases.

Select a band for your recipe

Send product size, dough characteristics, oven length, baking time, line speed and temperature profile. Include any current support, release or wear concerns.

Request Custom Quote

Email Specifications

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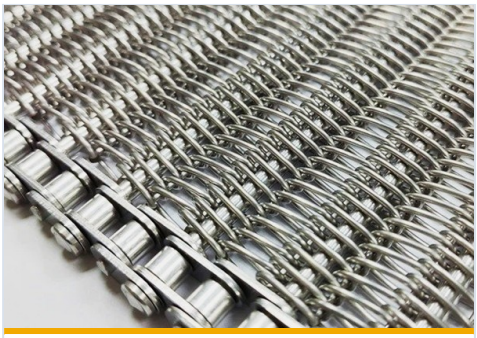
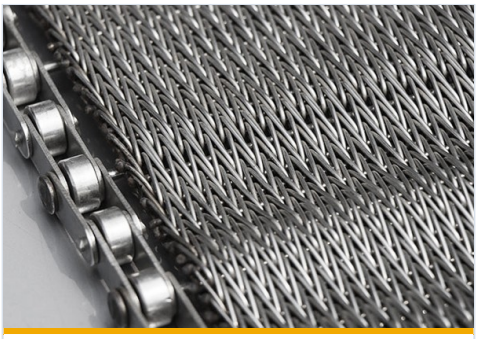
OUR COMPLETE PRODUCT RANGE

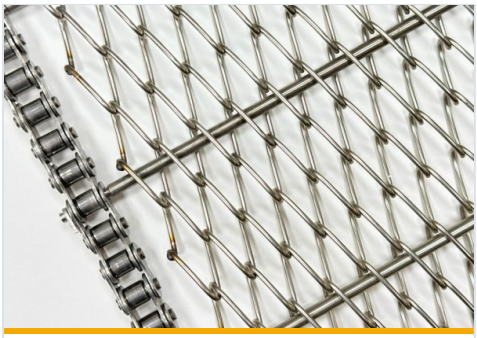
Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



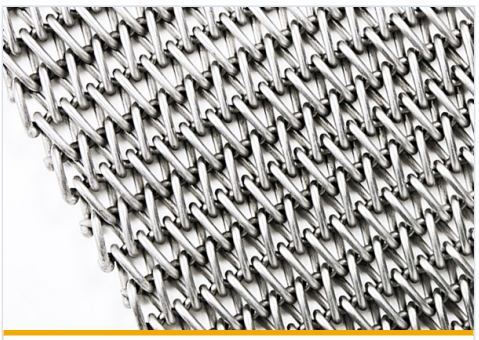
03 Chain Link Conveyor Belts

04 Flat Flex & Enrober Belts

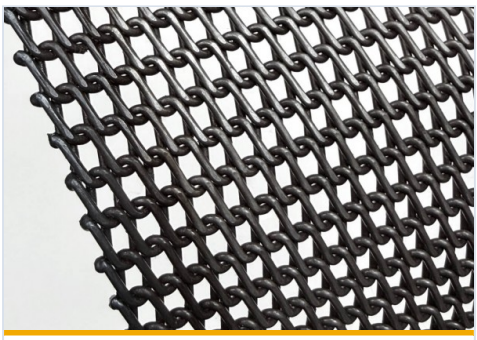
05 Eye Link & Eye Flex Belts

06 Honeycomb & Flat Wire Belts

07 Plate Link & Hinged Steel Belts



08 Wire Mesh Lehr Belts



09 Biscuit Baking Belts

10 Spiral Freezer Belts

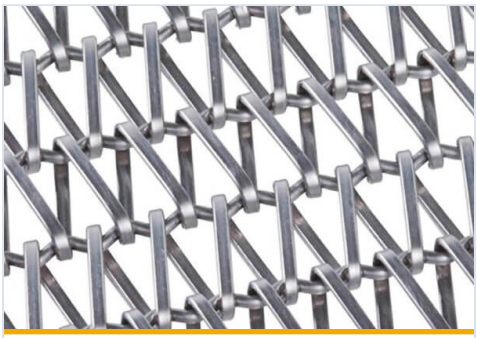
11 Flexible Rod Conveyor Belts

12 Self-Stacking Spiral Belts

13 Edge Drive Spiral Freezer Belts

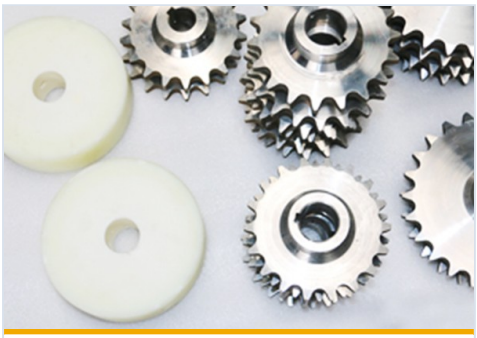
14 Ladder Conveyor Belts

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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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.

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