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METAL CONVEYOR BELTS · PRODUCT DATA SHEET

Woven Rod Bar Conveyor Belts

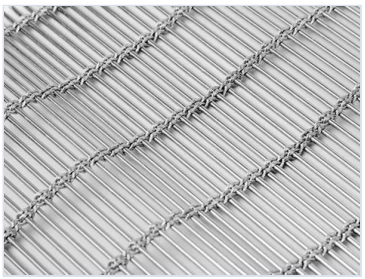
Solid transverse wires are woven with stranded longitudinal cables to create an open conveying mesh. PFM SCREEN supplies stainless steel woven rod bar belts for food and agricultural drying, with cable groups, openings, edge finishes and joints selected for the conveyor.

3,500.00 mm Maximum overall belt width	**1-4** Parallel cables per group	**0.70-1.20 mm** Complete cable diameter
1.50-2.50 mm Transverse wire diameter	**Up to 400°C** Continuous; confirm duty	**Pin Joint** Preferred joining option

DESIGN AND STRUCTURE

Solid weft wires run across the belt and support the product. Stranded warp cables run along the travel direction and carry longitudinal tension. Mesh openings provide airflow and drainage.

One, two, three or four refers to parallel cables in each group, not total cables across the belt or individual strands inside one cable.



FEATURES AND SELECTION

01 Airflow and Drainage
Balance product retention with open area and process flow.

02 Longitudinal Flexibility
Stranded cables bend around matched drums.

03 Cable Group Options
Select count, cable diameter and group spacing together.

04 Product Support
Choose transverse wire size and clear spacing for the load.

05 Custom Edges
Trimmed or grouped welded cross-wire ends.

06 Joining Choices
Pin joint, endless seam or suitable mechanical fasteners.

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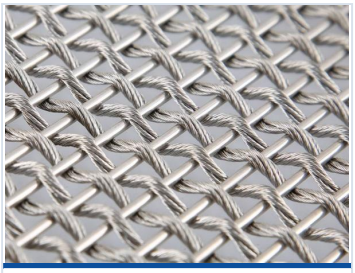
01 WARP, EDGE AND JOINING OPTIONS

1.1 Parallel cables per group



One Cable

One complete stranded cable in each group.

Two Cables

Two parallel cables in each group.

Three Cables

Three parallel cables in each group.

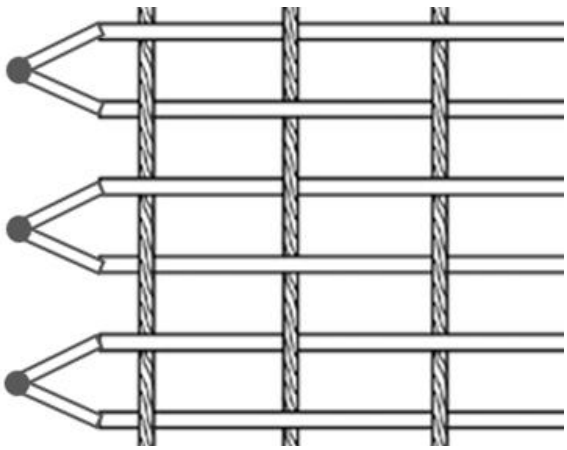
Four Cables

Four parallel cables in each group.

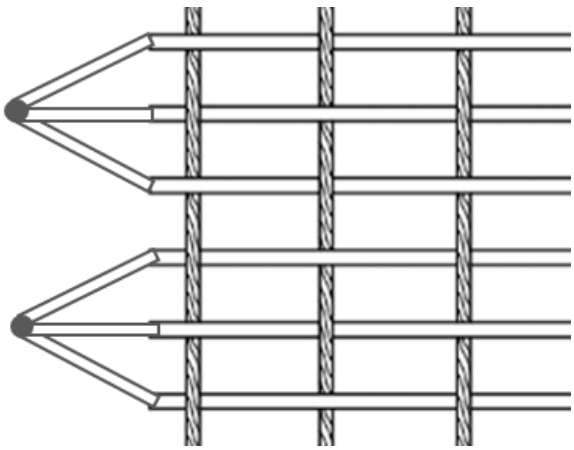
1.2 Edge finishes

Cut edges have trimmed cross-wire ends. Welded edges have cross-wire ends joined in groups of two or three; specify the grouping and match the conveyor clearance.

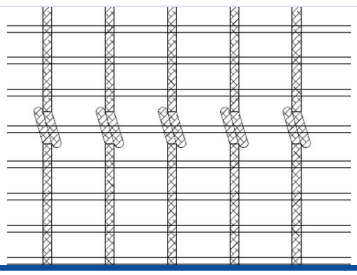
Two-wire welded group



Three-wire welded group

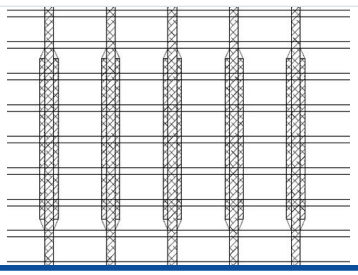


1.3 Joining methods



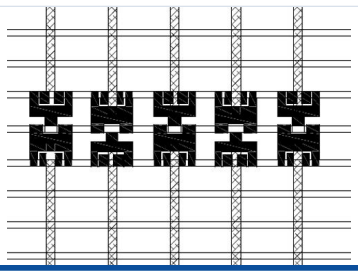
Pin Joint - Preferred

Joining pin passes through aligned prepared end loops. Confirm pin retention and installation details.



Endless Seam

Factory-joined closed loop. The conveyor must permit endless-belt installation.



Mechanical Fastener

Confirm fastener material, joint profile, drum compatibility, product contact and cleaning.

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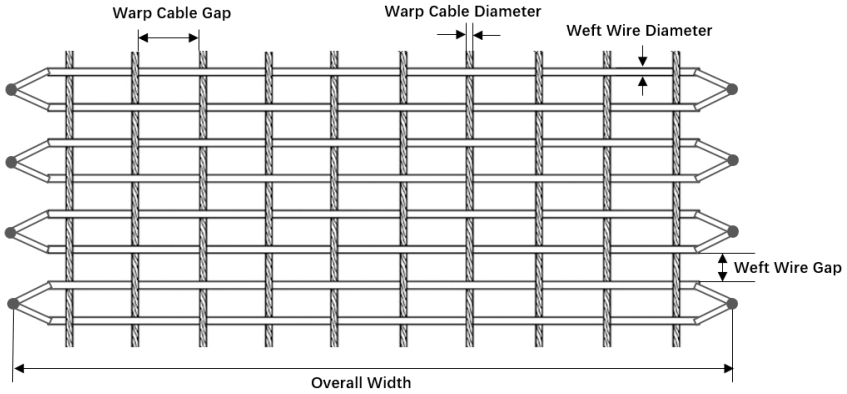
02 SPECIFICATIONS AND MEASUREMENT

2.1 Mesh dimensions



Parameter	Specification / definition
Overall width	Up to 3,500.00 mm; finished edge-to-edge.
Warp cables per group	1, 2, 3 or 4 parallel complete cables.
Warp cable diameter	0.70-1.20 mm; outside diameter of one complete stranded cable.
Weft wire diameter	1.50-2.50 mm; solid transverse wire.
Clear gap between weft wires	1.00-3.00 mm; between wire surfaces.
Clear gap between cable groups	8.00-24.00 mm; nearest surfaces of neighbouring groups.
Edges	Cut / welded; two or three cross wires per welded group.
Materials	SS304 / SS316; higher-temperature material reviewed separately.
Continuous temperature	Up to 400°C; higher duties require a customized material specification.
Joining	Pin joint / endless seam / mechanical fastener.

Ranges do not guarantee every combination. Confirm tolerances and references on the drawing.

Clear gap is not centre-to-centre pitch. Group width is not the diameter of a single cable. Cable count alone does not define allowable load or tension.

03 MATERIALS AND APPLICATIONS

3.1 Materials and operating conditions

Material	Considerations
SS304	Suitable food/agricultural drying and general conveying; review moisture and cleaning.
SS316	Improved corrosion resistance in selected conditions; not immune to chlorides.

Provide continuous and peak temperatures, duration, atmosphere, loading and drum diameter. Review stranded cables, crossings and joints during cleaning. Food-contact documentation available on request.

Drainage / Dewatering

Drain free water while retaining suitably sized products; not fine filtration or pressure dewatering.

Pasta and Noodle Drying

Select spacing for product support, airflow and release on compatible drying lines.

Freezing - Application Review

Confirm freezer geometry, minimum temperature, support, cleaning and joint design.

Baking - Application Review

Confirm oven temperature, support, release and acceptable mesh marks.

Primary drying duties also include suitable fruit, vegetables, mushrooms, hops, tobacco and green fodder. Match openings and load to the dryer. The mesh itself does not guarantee non-stick release.

Confirm your woven rod bar mesh

Send belt width/length, cable and cross-wire sizes, group count, both clear gaps, edge grouping, joint and process conditions.

Request Custom Quote

Email Specifications

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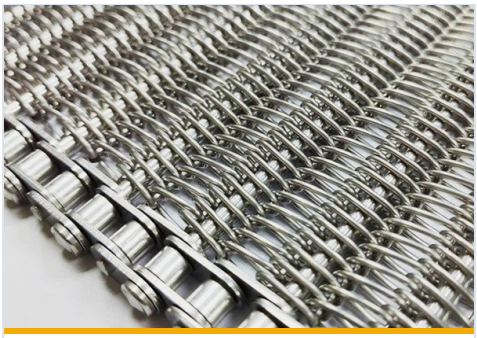
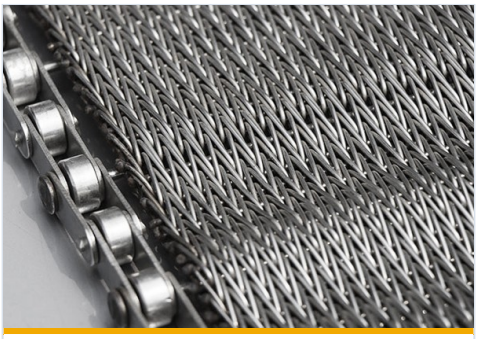
OUR COMPLETE PRODUCT RANGE

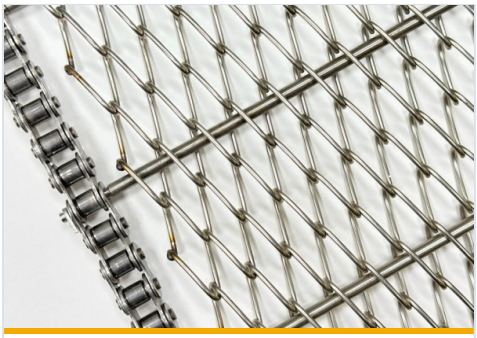
Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



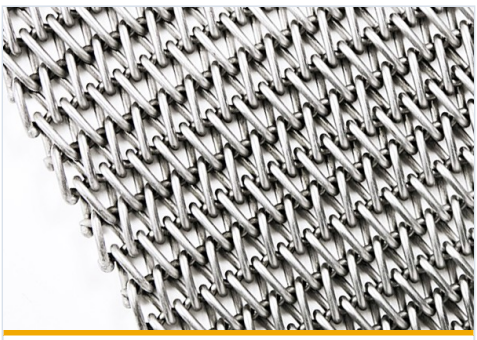
03 Chain Link Conveyor Belts

04 Flat Flex & Enrober Belts

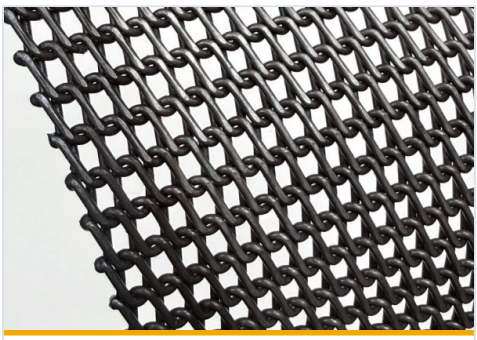
05 Eye Link & Eye Flex Belts

06 Honeycomb & Flat Wire Belts

07 Plate Link & Hinged Steel Belts



08 Wire Mesh Lehr Belts



09 Biscuit Baking Belts

10 Spiral Freezer Belts

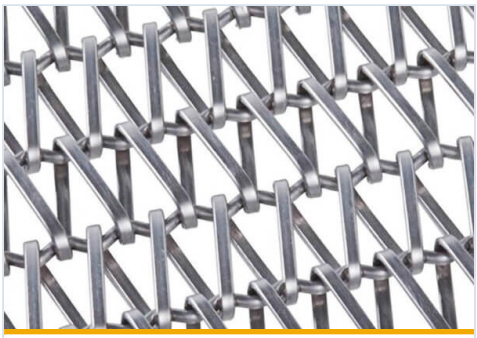
11 Flexible Rod Conveyor Belts

12 Self-Stacking Spiral Belts

13 Edge Drive Spiral Freezer Belts

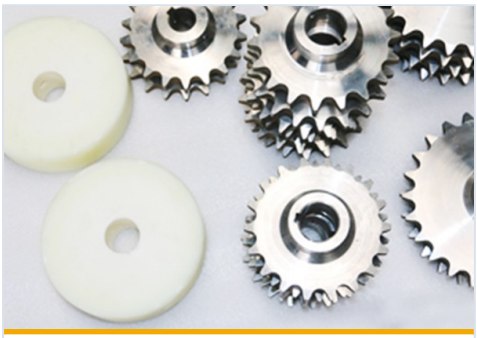
14 Ladder Conveyor Belts

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.

Request Quote Now
Email Completed Form