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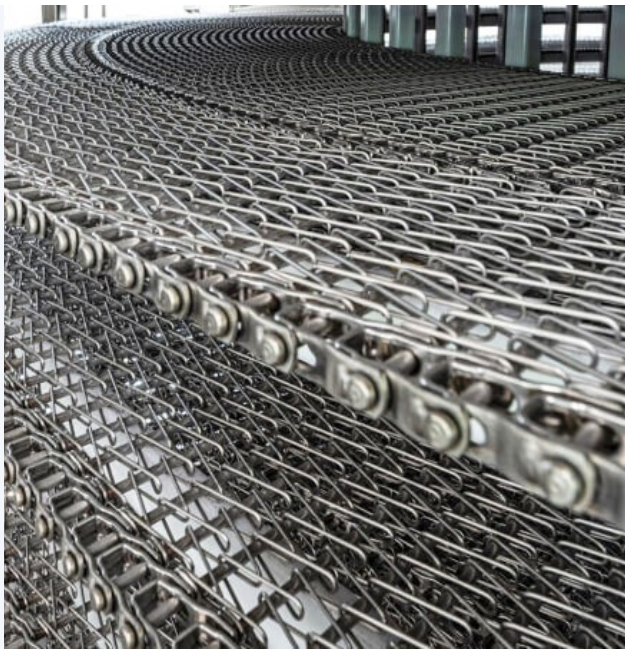
METAL CONVEYOR BELTS · PRODUCT DATA SHEET

Spiral Freezer Belts for IQF & Cooling Systems

Spiral freezer belts carry products through freezing and cooling systems while allowing airflow through the belt. PFM SCREEN supplies Flexible Rod, Self-Stacking and Edge Drive configurations, with construction and specifications selected to match your equipment and process.

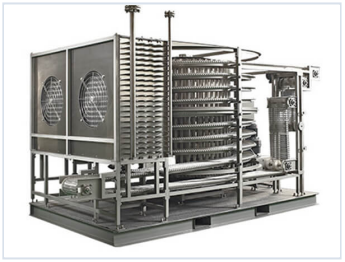
3 Product families	**Mesh / Open Rod** Flexible Rod surfaces	**Stacking** Successive tier support
Edge Drive Matching sprockets	**Custom** Equipment matching	**Open Structure** Air passage through belt



OVERVIEW

PFM SCREEN supplies Flexible Rod, Self-Stacking and Edge Drive belt configurations for compatible spiral freezing, cooling and proofing systems. Start with the existing belt construction and equipment layout.

Mesh openings and rod spacing are selected for product size, stability and airflow. Freezing rate, moisture loss and product release depend on air conditions, loading and residence time.



FEATURES AND SELECTION

01 Open Construction
Air can pass through the belt to reach products in a multi-tier process.

02 Three Product Families
Review structure, stacking support and drive interfaces for your system.

03 Carrying Surface Options
Choose mesh support or open rods where product size and stability permit.

04 Equipment Matching
Match dimensions, turning geometry, support, drive and return path.

05 Replacement Review
Start with the equipment model, belt photos and dimensions you know.

06 Application Review
Confirm product load, speed, temperatures and cleaning conditions.

These product names describe structure, tier support and drive. They are not a universal set of mutually exclusive drive categories, and their specifications are not interchangeable.

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01 FLEXIBLE ROD CONVEYOR BELTS

1.1 Construction and configurations

Transverse rods and collapsible edge links allow the belt to follow compatible curves and spiral paths. Standard and center-link configurations are available. Select the internal link position, turning geometry, rod-end connection and drive arrangement for the equipment.

Spiral Mesh Overlay
Additional product support.

Center-Link
Additional internal link.

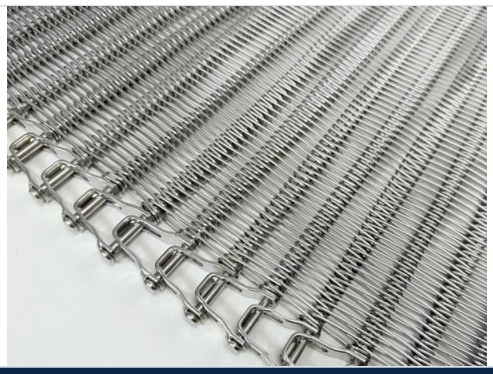
Open-Rod Surface
For suitable product size and stability.

Side Guards
Configuration matched to the equipment.

1.2 Reference specifications

Standard and reinforced edge-link arrangements are available. Center-link pitch dimensions are position-specific; identify them from the appropriate drawing.

Each range covers different configurations. Confirm the minimum radius and internal-link position for the selected belt.



Parameter	Reference options
Configurations	Standard / reinforced edge links; center-link; mesh-covered or open-rod
Cross rod pitch - standard (mm)	19.05 / 25.40 / 27.40 / 30.00 / 30.50 / 38.10
Center-link pitch	Position-specific dimensions; use the center-link drawing
Width - curve / spiral (mm)	Standard: 304.80-1,371.60; center-link: 305.00-1,219.00
Turn ratio K	Standard: 1.60-2.50; center-link: 0.80-2.10
Material options	SS201 / SS304 / SS316 / SS316L. Carbon steel is an infrequently used option for open-rod belts only; suitability requires review.

Reference options are not interchangeable combinations. Final dimensions, tolerances and operating limits require equipment and drawing confirmation.

K = inside running radius / overall belt width, using matching units. Drum radius is not automatically the belt inside running radius.

Match your Flexible Rod belt

Send the equipment model, surface and edge photos, width, rod pitch and turning dimensions. For center-link belts, include the internal-link position.

Request a Quote

Email Photos or Requirements

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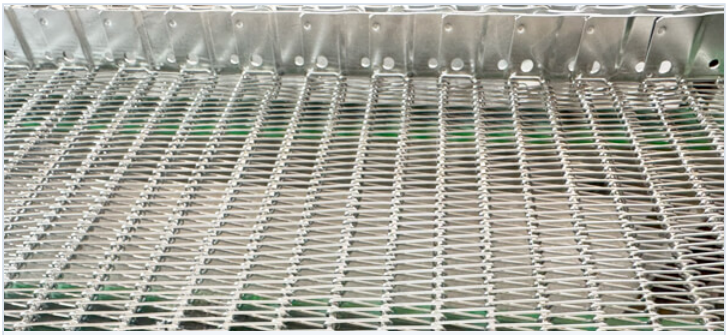
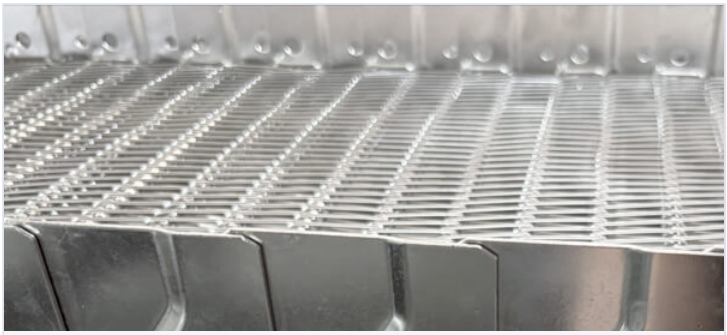
02 SELF-STACKING SPIRAL FREEZER BELTS

2.1 Stacking construction

Purpose-designed stacking elements support successive belt tiers to form a compact helical stack. Belt width, tier height, stacking geometry and spiral direction must match the system.



Self-Stacking Belt Construction



Stacking Elements and Mesh

2.2 Reference specifications

Parameter	Reference options
Cross rod pitch / diameter (mm)	Pitch: 30.00; diameter: 5.00 / 6.00 / 7.00
Coil pitch / wire diameter (mm)	Pitch: 6.00-20.00; wire diameter: 1.50 / 1.60 / 1.70 / 1.80
Reference belt widths (mm)	420.00 / 580.00 / 640.00 / 760.00 / 920.00 / 1,060.00; custom widths on request
Tier height (mm)	60.00 / 80.00 / 100.00 / 120.00
Material / edge	SS304 / SS316L; welded edge
Direction	Clockwise or counter-clockwise construction. Reverse operation requires confirmation of the belt and system.

Confirm width and tier-height measurement points, stacking geometry and drive interface.

2.3 Equipment and replacement matching

The equipment still requires its specified drive, infeed, outfeed and guidance arrangements. For complete replacement belts or splice-in sections, review the existing construction, wear condition and joining details.

Confirm the belt and stacking geometry

Share width, tier height, pitch and wire/rod sizes, spiral direction and photographs of the stacking elements and drive interface.

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03 EDGE DRIVE SPIRAL FREEZER BELTS

3.1 Edge-drive construction

Drive components at the belt edge engage with matching sprockets. Review belt-edge geometry, sprocket engagement and conveyor guidance together for stable operation. Balanced weave, ladder mesh and hybrid designs are available.

Belt-Edge Drive Components

Edge Drive Belt and Mesh

3.2 Reference specifications

Parameter	Reference options
Overall belt width (mm)	Typically 310.00-1,200.00, including side drive components
Rod pitch / diameter (mm)	Pitch: 31.75 / 34.00; diameter: 5.00 / 6.00
Coil wire diameter (mm)	1.50 / 1.60 / 1.70 / 2.00; applicable to the selected mesh construction
Mesh / material	Balanced Weave / Ladder Mesh / Hybrid; SS304 / SS316
Drive / connections	Sprocket engagement with belt-edge drive components; welded connections
Options	Side guards and matching sprockets; dimensions confirmed for the equipment

These options belong to the selected Edge Drive configuration; confirm final dimensions and interfaces.

Overall belt width includes the side drive components. Confirm both overall width and effective product-carrying width.

3.3 Drive and support matching

Confirm edge-component geometry, sprocket tooth profile and positions, conveyor support and return path. Optional side guards and matching sprockets can be reviewed with the belt.

Match the belt and edge-drive interface

Send the equipment model, overall width, rod dimensions and clear photos or drawings of both edges, drive components and sprockets.

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04 APPLICATIONS AND SELECTION

4.1 Compatible spiral processes

Spiral Freezing / Suitable IQF

Poultry, seafood, meat portions, dumplings and prepared foods. IQF results depend on product separation, airflow, temperature and residence time.

Spiral Cooling

Bakery products, prepared foods and other suitable products before further processing or packaging. Review product stability, loading and the required cooling process.

Spiral Proofing

Compatible dough proofing systems. Review belt configuration, temperature, humidity, product support and cleaning conditions for the equipment.

Other Thermal Applications

Cooking or pasteurization requires separate assessment of temperature, process medium, load and cleaning. The belt itself does not establish cooking or microbial reduction performance.

IQF is not limited to spiral equipment. A belt selected for a spiral freezer does not automatically fit a tunnel or another conveyor layout.

4.2 Information for selection

Start with the equipment model, belt photos, overall width and total belt length if known. Then confirm product size and load, belt speed, minimum and maximum temperatures and cleaning conditions.

Material grade alone does not establish suitability for every food-contact or cleaning condition. Available supporting documents are confirmed for the selected belt. Photos can start the review; final manufacturing dimensions and interfaces require confirmation.

Discuss your freezing, cooling or proofing application

Tell us what you convey and share the equipment model or belt photos. Add product dimensions, operating temperatures and required throughput if available.

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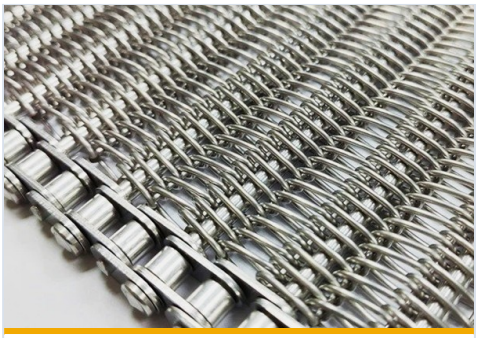
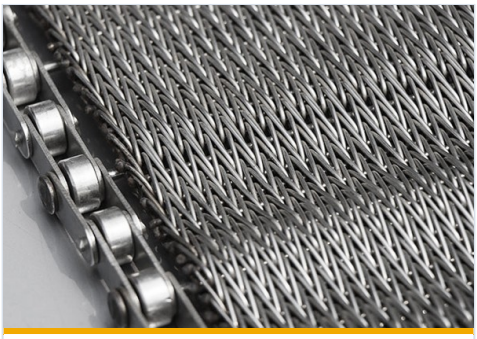
OUR COMPLETE PRODUCT RANGE

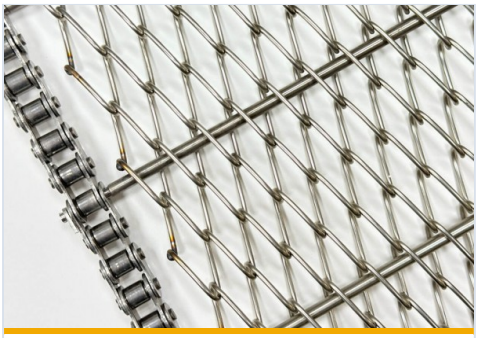
Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



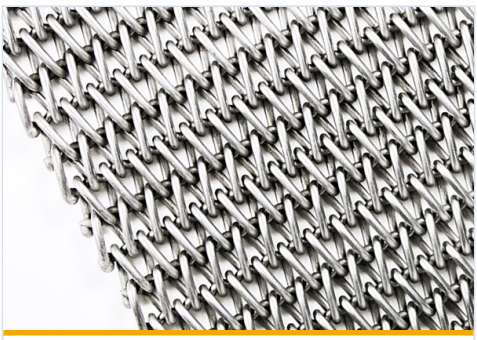
03 Chain Link Conveyor Belts

04 Flat Flex & Enrober Belts

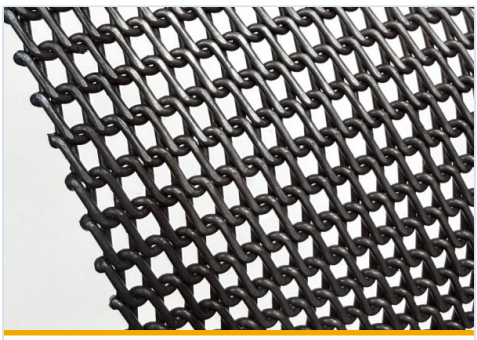
05 Eye Link & Eye Flex Belts

06 Honeycomb & Flat Wire Belts

07 Plate Link & Hinged Steel Belts



08 Wire Mesh Lehr Belts



09 Biscuit Baking Belts

10 Spiral Freezer Belts

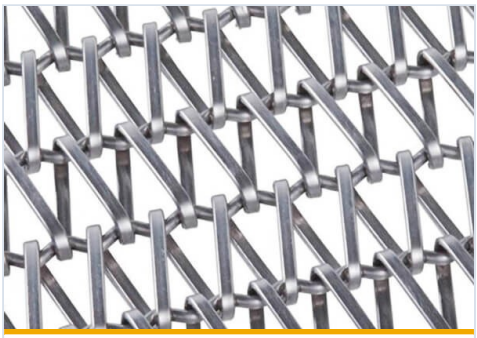
11 Flexible Rod Conveyor Belts

12 Self-Stacking Spiral Belts

13 Edge Drive Spiral Freezer Belts

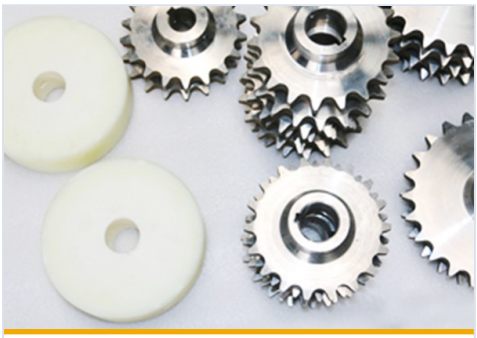
14 Ladder Conveyor Belts

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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Ready to turn your belt details into a quotation?
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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