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METAL CONVEYOR BELTS · PRODUCT DATA SHEET

Flat Flex Conveyor Belts

Interlinked formed wire strands create a lightweight, open mesh for baking, frying, cooling, freezing and enrobing. PFM SCREEN supplies Standard, Reinforced, Chain Edge and Turn Curve belts with matched sprockets, selected edge finishes and application-specific mesh dimensions.

4 Belt constructions	**Up to 85%** Open area on selected specs	**0.80-3.00 mm** Wire range; type-dependent
Up to 3,000 mm Width; type-dependent	**17** Listed standard specifications	**Positive Drive** Matched sprockets

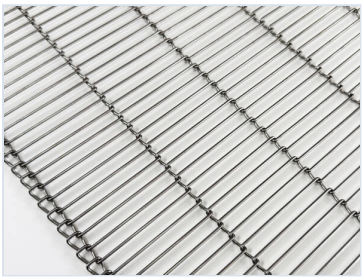


OVERVIEW

Flexible flat wire conveyor belts use interlinked formed strands to create a lightweight, open carrying surface. Matched sprockets provide positive drive. Openings allow airflow, drainage and product access from below for baking, frying, cooling, freezing and coating.

The range includes Standard, Reinforced, Chain Edge and Turn Curve constructions. Enrober belts are configurations for coating processes; Single Loop identifies an edge finish. Straight-running and purpose-designed curve belts must match the conveyor layout.

Wire diameters of 0.80-3.00 mm and widths of 10.00-3,000.00 mm are available depending on construction. These are overall range references, not an approved specification for every belt type.





FEATURES AND BENEFITS

01 High Open Area
Up to 85% open area on selected specifications supports airflow and drainage. Match openings to product support needs.

02 Cleaning Access
Smooth wire surfaces and accessible openings simplify cleaning and inspection when supported by suitable conveyor design and validated procedures.

03 Lightweight Construction
Low belt mass helps reduce conveyor-drive load. Materials and mesh dimensions are selected for the actual duty.

04 Compact Transfers
Suitable belt and roller combinations support small transfer gaps. Confirm the minimum roll diameter for the chosen belt.

05 Positive Drive
Matched sprockets provide positive engagement. Correct alignment and tension support stable movement and product positioning.

06 Custom Configurations
Choose mesh pattern, material, edge and width for the process. Purpose-designed curved belts and optional flights serve specific layouts.

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BELT CONSTRUCTION OVERVIEW



01 Standard

Straight-running mesh for linear conveying. First and centre space widths define the mesh arrangement; choose a compatible wire-loop finish.



02 Reinforced

A pattern of small and wider spaces across the belt. Match both the width and count of each space type.



03 Chain Edge

Wire mesh with chains along both sides. Specify mesh and chain dimensions together with the side-chain drive.

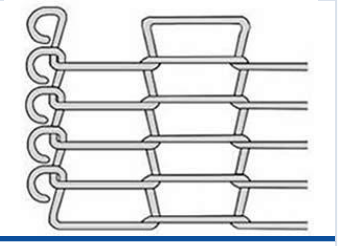


04 Turn Curve

Purpose-designed mesh for curved paths, typically 45°-180°. Match radii, width, direction and turn angle to the layout.

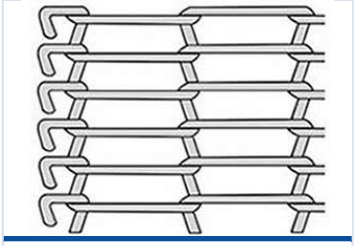
EDGE TYPES

Choose the edge with the selected belt specification; these arrangements are not freely interchangeable.



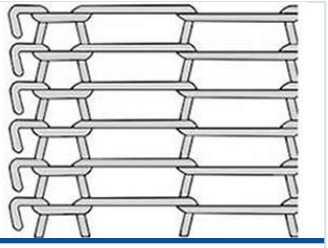
C-shaped Edge

The return helps reduce catching and tangling. Match the illustrated return geometry to the mesh specification and drive.



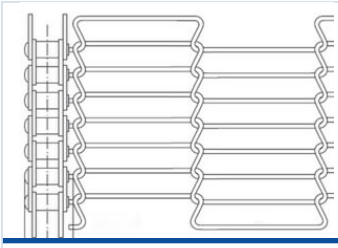
Single Loop Edge

A common general-purpose finish. Listed standard options start at 0.90 mm wire diameter; use the relevant edge-space reference.



Double Loop Edge

Common on enrober belts. Specify loop-space width and match the return to the machine and sprockets; it is not a retaining side guard.



Chain Edge

Side chains form the drive interface. Match chain model, sprockets and mesh attachment; this is not a wire-loop finish.

MATERIAL AVAILABILITY

304 stainless steel is the standard material; other grades are selected for the process.

Wire Material	Max. Wire Operating Temperature
Carbon Steel	550°C
304 Stainless Steel	750°C
316 Stainless Steel	800°C
316L Stainless Steel	800°C

These are wire-material reference figures, not guaranteed working-temperature ratings for a complete belt. Confirm the actual belt, load, atmosphere, sprockets and other components. Other carbon steels and high-temperature materials can be reviewed for the application.

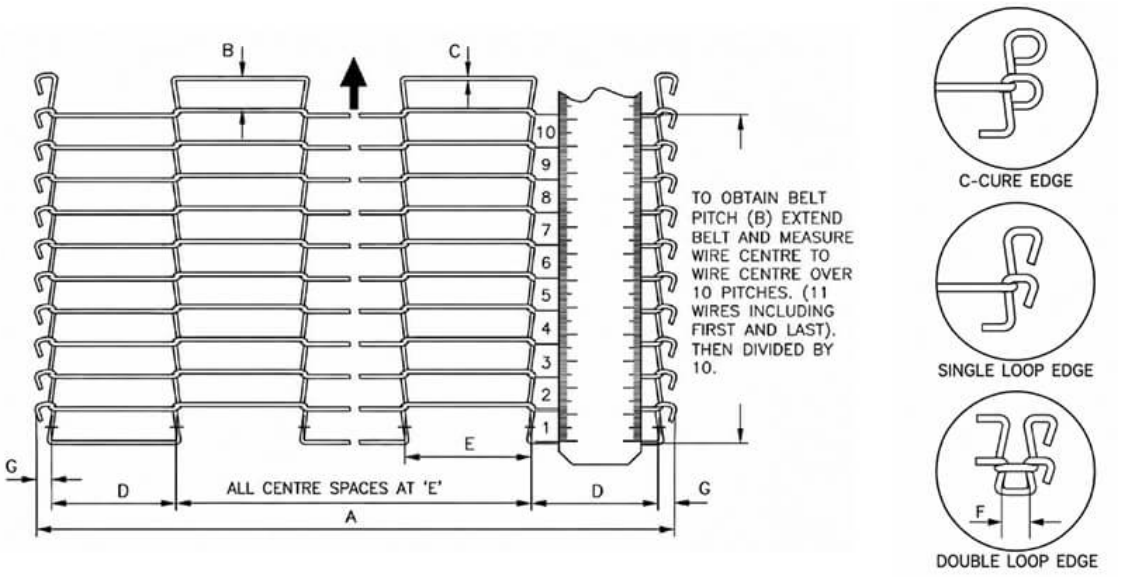
Dimension letters change between belt types. A means overall width on Standard and Reinforced belts, but wire diameter on Chain Edge and Turn Curve belts.

Balance product support with open area. Match pitch, wire diameter, space pattern, edge type, drive and transfer geometry together. The open design can support HACCP-based hygiene procedures; material selection, equipment design and validated cleaning remain part of the process.

01 STANDARD FLEXIBLE FLAT WIRE BELTS

Straight-running construction with C-shaped, Single Loop or Double Loop edge options.

1.1 Mesh Dimensions



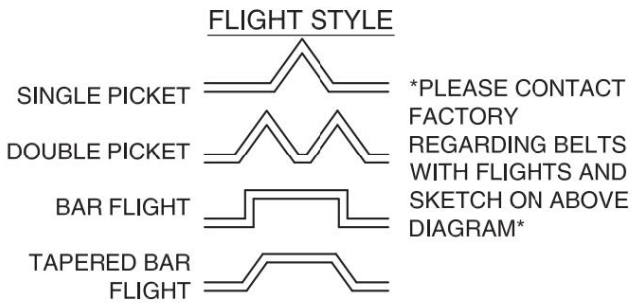
A	Overall belt width (mm)	**B**	Belt pitch (mm)	**C**	Wire diameter (mm)
D	First space width (mm)	**E**	Centre space width (mm)	**F**	Double-loop space width (mm)
G	Single-loop space width (mm)				

Measure B over 10 pitches (11 wires), with the belt extended, then divide by 10. Specify F or G where the selected edge requires it.

State the total number of first and centre spaces across the belt, material/grade, full-loop belt length in metres and edge type. Overall width alone is not enough to match the mesh and sprocket arrangement.

1.2 Optional Flight Styles

Flight Profiles



Available options: **No flights (flat belt), Single Picket, Double Picket, Bar Flight or Tapered Bar Flight.** Flights can guide, separate or support products. For another profile, provide a sketch for confirmation.

Specify flight height/depth, repeat pitch along the belt, row spacing across the belt, number of flight rows, arrangement and flight width/other dimensions. Attach a sketch showing profiles and positions. For a plain belt, select No flights.

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01 STANDARD FLEXIBLE FLAT WIRE BELTS - CONTINUED

1.3 Standard Specifications

Item	Wire Dia. (mm)	Pitch (mm)	Open Area (%)	Edge Type
FFCB-01	0.90	4.24	77.00	Single / Double
FFCB-02	0.90	5.64	82.00	Single / Double
FFCB-03	1.00	5.50	79.00	Single / Double
FFCB-04	1.00	5.60	79.50	Single / Double
FFCB-05	1.27	4.30	67.00	Single
FFCB-06	1.27	5.50	73.00	Single / Double
FFCB-07	1.27	6.00	76.00	Single / Double
FFCB-08	1.27	6.35	77.00	Single / Double
FFCB-09	1.27	7.26	80.00	Single / Double / C-shaped
FFCB-10	1.40	6.40	76.00	Single / C-shaped
FFCB-11	1.60	7.26	75.00	Single / Double / C-shaped
FFCB-12	1.83	12.00	81.00	Single
FFCB-13	1.83	12.70	82.00	Single / C-shaped
FFCB-14	2.08	9.60	75.00	Single / C-shaped
FFCB-15	2.35	12.70	78.00	Single / C-shaped
FFCB-16	2.35	20.32	85.00	Single
FFCB-17	2.80	12.70	72.00	Single / C-shaped

Listed straight-belt configurations only. Each row represents one listed configuration. The broader product range does not mean every diameter, pitch, width or edge combination is available. Custom specifications can be reviewed.

Match a Standard belt to your conveyor

Send width, full-loop length, pitch, wire diameter, first/centre space widths, space count and edge type. Include flight details only where needed, plus machine and sprocket photographs.

Request Custom Quote

Email Specifications

1.4 Joining and Replacement Details

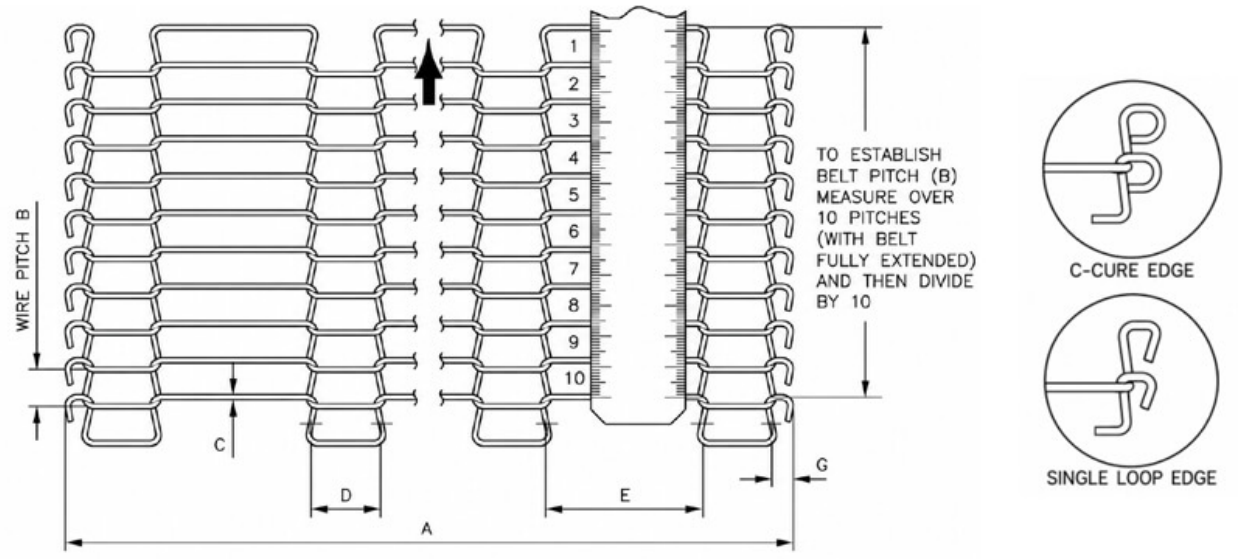
Choose a joining procedure that matches the construction and edge. Joining options include steel-tube connections, Single Loop joining clips and full-strand joints for Single or Double Loop edges. Confirm the correct arrangement for the actual belt.

Include the product, operating temperature, belt speed, transfer geometry and machine model when requesting replacement components.

02 REINFORCED FLEXIBLE FLAT WIRE BELTS

Small and wider spaces form a defined pattern across the belt. Available edges: C-shaped or Single Loop.

2.1 Mesh Dimensions



A	Overall belt width (mm)	**B**	Wire pitch (mm)	**C**	Wire diameter (mm)
D	Small space width (mm)	**E**	Wide space width (mm)	**G**	Edge loop width (mm)

2.2 Space Pattern and Measurement

Parameter	Information to Specify
B - wire pitch	7.26, 9.60, 12.70 mm or another measured value; confirm against the actual belt.
D - small spaces	Small space width in mm AND the number of small spaces across the belt.
E - wide spaces	Wide space width in mm AND the number of wide spaces across the belt.
Belt size and material	Overall width A, required full-loop length in metres, wire diameter C and material/grade.
Edge	C-shaped or Single Loop; provide edge-loop width G and a clear edge photograph.

Counts have no mm unit. The width and count of D spaces and E spaces must be recorded separately.

Measure B across 10 pitches with the belt fully extended, then divide by 10. If the space pattern differs from the drawing, provide a sketch or clear photographs.

Specify the reinforced space pattern

Send a full-width image, close-ups of the mesh and both edges, dimensions A, B, C, D, E and G, separate D/E space counts, material, full-loop length and operating requirements.

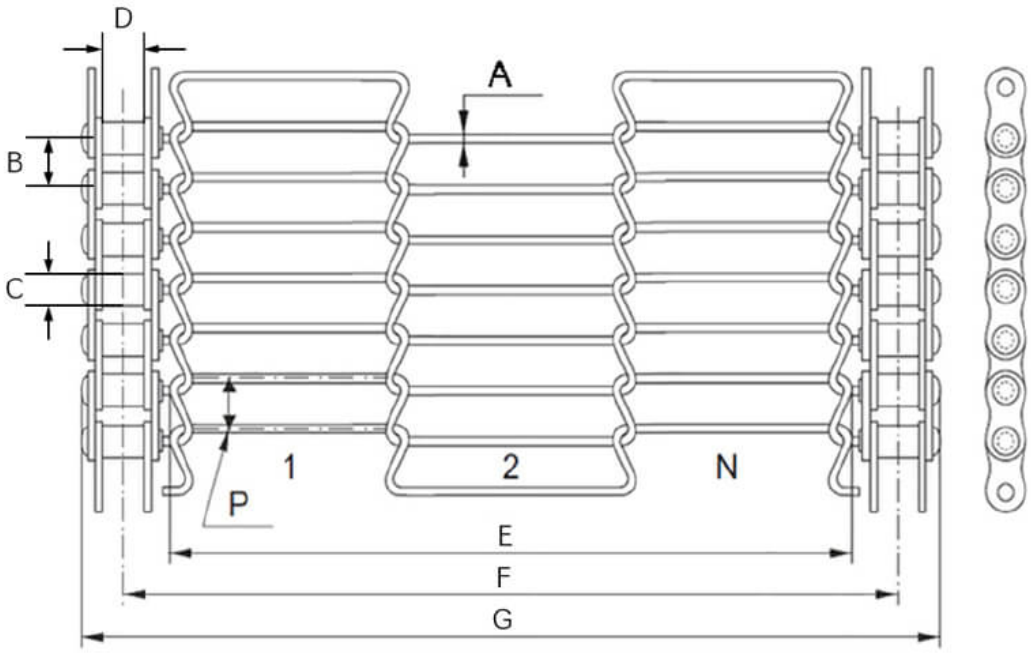
Request Custom Quote

Email Specifications

03 FLEXIBLE FLAT WIRE BELTS WITH CHAIN EDGE

Mesh and side-chain dimensions must be matched as one assembly.

3.1 Mesh and Chain Dimensions



A	Wire diameter (mm)	B = P	Chain / mesh pitch (mm)	C	Chain roller diameter (mm)
D	Inside chain width (mm)	E	Mesh width (mm)	F	Chain centres (mm)
G	Overall width (mm)	N	Total spaces across belt (count)		

For this construction, B = P. E is mesh width, F is chain-centre distance and G is overall width; they are not interchangeable.

3.2 Materials, Chains and Drive

Item	Information to Specify
Mesh and chain materials	State mesh material/grade and chain material/grade separately.
Chain identification	Give the chain designation/model if known; otherwise provide chain dimensions and clear photos.
Belt size	Provide full-loop length in metres, mesh width E, chain centres F, overall width G and total space count N.
Drive matching	Match chain designation, pitch, chain sprockets and mesh-to-chain attachment from a drawing or sample.

Review mesh and side-chain joining together. Include a drawing or sample, operating temperature, load, belt speed and conveyor details.

Match the mesh and side chains together

Send the assembly drawing, chain and sprocket markings, mesh/chain dimensions and photos showing the attachment. Include separate material requirements for the mesh and chains.

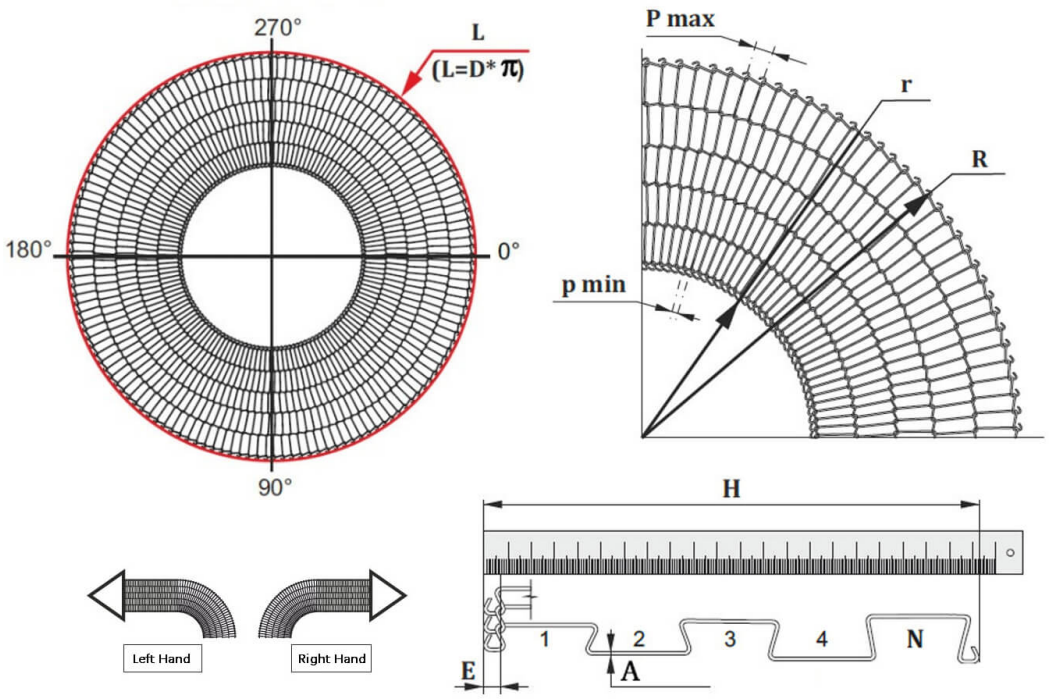
Request Custom Quote

Email Specifications

04 FLAT FLEX TURN CURVE BELTS

Purpose-designed for curved paths, typically 45°-180°. Single Loop is shown; confirm other edge requirements with the layout.

4.1 Layout and Mesh Dimensions



H	Overall belt width (mm)	**L**	Belt length / stated path (m)	**P max**	Outer-edge maximum pitch (mm)
p min	Inner-edge minimum pitch (mm)	**R**	Outside radius (mm)	**r**	Inside radius (mm)
A	Wire diameter (mm)	**E**	Single-loop space width (mm)	**N**	Total spaces across belt (count)

Identify Left Hand or Right Hand travel and provide the turn angle. State the belt-length measurement path, especially if it differs from the illustrated path. Include material/grade, product, temperature, speed and load with the layout sketch.

4.2 Turn-Curve Specifications

Wire Dia. (mm)	Pitch Variation (mm)	Belt Width (mm)	Inside Radius (mm)
1.60	6.30-11.00	400.00-1,000.00	800.00
1.83	7.50-20.00	254.00-1,270.00	406.00
2.08	9.30-19.00	381.00-864.00	812.00

Each row gives a matched wire, pitch, width and radius configuration. Confirm the final belt layout; custom requirements can be reviewed.

P max and p min are different pitches at the outer and inner edges. Do not substitute a straight-running belt specification for a purpose-designed curve belt.

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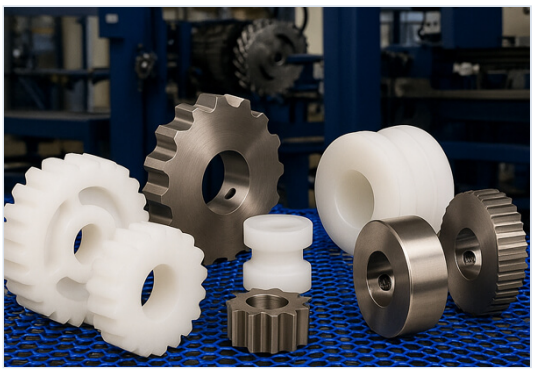
DRIVE COMPONENTS

PFM SCREEN supplies matching sprockets, blanks and transfer rollers, including custom components for new machinery and replacements. Match belt pitch, wire diameter, driven spaces, sprocket dimensions and shaft connection.

Standard, Reinforced and Turn Curve belts require components matched to their mesh and geometry. Chain Edge assemblies also require matching side-chain designation, pitch and chain sprockets.



Drive-Component Materials

Material	Selection Considerations
304 Stainless Steel	For corrosion resistance, hygienic cleaning and higher temperatures than typical plastics; confirm the component and service conditions.
POM (Acetal)	Stated selection range: -20°C to +80°C. Confirm grade and load; specify a documented food-contact grade where required.
Nylon	Stated selection range: -40°C to +100°C. Review grade, moisture, chemicals and load for low-friction, wear-resistant service.

Plastic component ranges are not temperature ratings for the mesh or complete belt assembly.

TYPICAL APPLICATIONS

Select the belt construction, mesh support and drive for the actual product and process.



Frying

Supports product through frying and oil drainage. Review temperature, product load, mesh support, speed and cleaning.



Baking

Allows heat and airflow below bread, biscuits, pastries or pizza. Match dwell time, wire grade, transfers and oven drive.



Freezing / Cooling

Open mesh admits airflow for suitable chilled or frozen products. Review product stability, support and freezing conditions.



Battering and Breading

Openings allow excess coating to pass through. Match coating consistency, mesh support, transfers and cleaning access.



Enrobing and Topping

Supports chocolate, icing or other coating processes. Match product size, temperature, vibration, transfers and edge compatibility.



Transfers Between Processes

Match product stability to transfer gaps, end-roll geometry, belt speed and travel direction. Product release depends on surface and process.

Other reported duties include small-parts washing/drying, light metal and PCB handling, pharmaceutical/chemical handling and specialty architectural mesh integration. Confirm material, temperature, chemical exposure and equipment requirements for each use.

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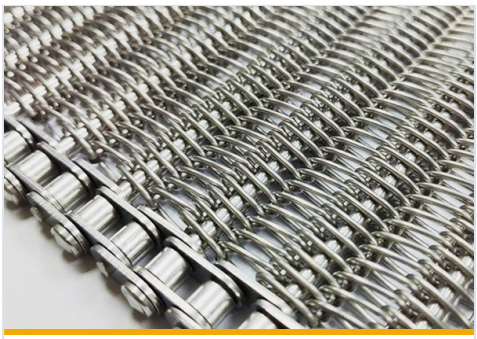
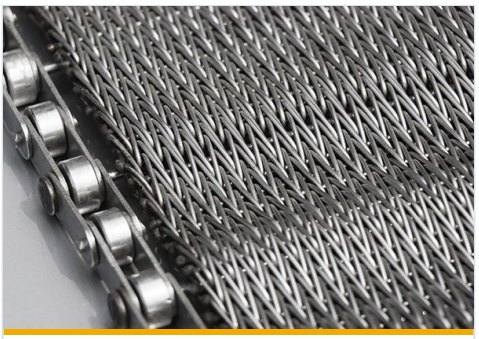
OUR COMPLETE PRODUCT RANGE

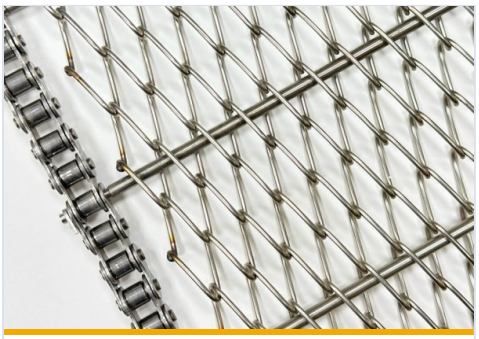
Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



03 Chain Link Conveyor Belts



04 Flat Flex & Enrober Belts



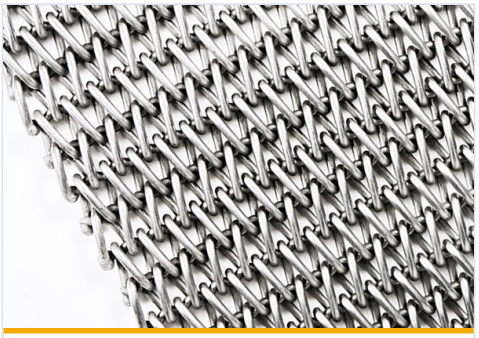
05 Eye Link & Eye Flex Belts



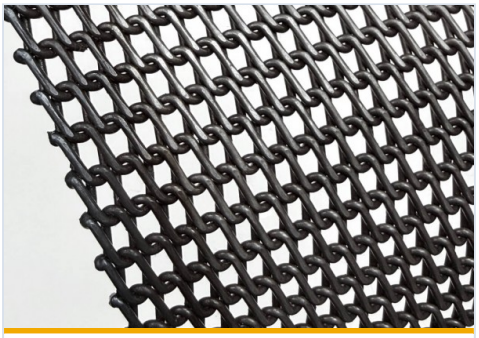
06 Honeycomb & Flat Wire Belts



07 Plate Link & Hinged Steel Belts



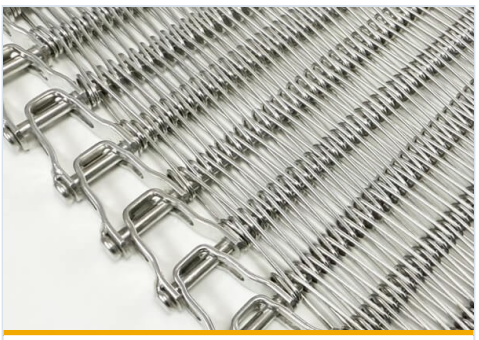
08 Wire Mesh Lehr Belts



09 Biscuit Baking Belts



10 Spiral Freezer Belts



11 Flexible Rod Conveyor Belts



12 Self-Stacking Spiral Belts



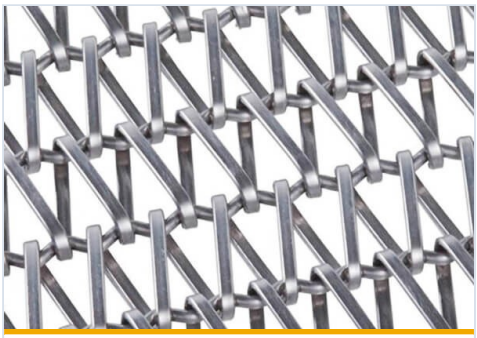
13 Edge Drive Spiral Freezer Belts



14 Ladder Conveyor Belts



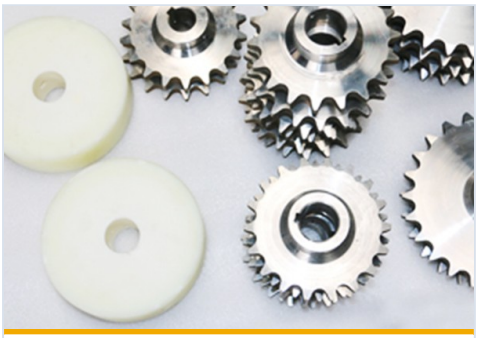
15 Woven Rod Bar Conveyor Belts



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