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METAL CONVEYOR BELTS · PRODUCT DATA SHEET

Chain Link Conveyor Belts

Interwoven spiral wires create an open carrying surface for drying, cooling, washing and other processing duties. PFM SCREEN supplies standard, rod reinforced and duplex mesh, with matching edge finishes and optional side-chain drive assemblies configured for the conveyor.

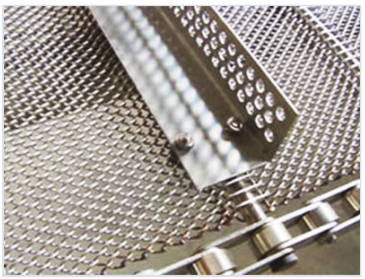
3 Mesh constructions	**2** Drive methods	**12** Listed wire materials
5.08-25.40 mm Standard lateral pitch range	**Welded / Knuckled** Mesh-edge options	**Chain Edge** Sprocket-driven assembly



OVERVIEW

Chain link conveyor belts, also called conventional weave or conventional mesh belts, use interwoven spiral wires to form a simple, open carrying surface. Standard mesh suits selected low-load conveying; reinforced and duplex constructions offer additional support and stability.

Coils can be formed to the required mesh profile, including oval or round forms. Specify the construction, panel arrangement, mesh edge and joining method together. A chain link mesh does not automatically have a side-chain drive.





FEATURES AND BENEFITS

01 Open Carrying Surface
Air and process liquids pass through the mesh for suitable drying, cooling, washing and drainage duties.

02 Economical Construction
The simple, lightweight mesh can be cost-effective when the load and product support requirements permit.

03 Lightweight Handling
Suitable lightweight products can be conveyed or transferred on an incline after checking the angle and product retention.

04 Edge Choices
Welded and knuckled mesh edges are available. Reinforced and chain-edge constructions need matching end details.

05 Baffles and Dividers
Side and centre baffles can contain or separate products. Match their dimensions to clearances and belt return geometry.

06 Drive Options
Plain mesh may use friction drive. Side chains and matching sprockets provide positive drive for chain-edge assemblies.

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COIL DIRECTION AND PANEL CONSTRUCTION

Within a standard panel, successive coils have the **same spiral hand**. Some friction-driven belts join alternating left-hand and right-hand panels with a through wire to help counteract lateral weave pull. This differs from a balanced spiral belt, which alternates the hand of each coil.

Not every chain link belt uses alternating panels. Some rely on conveyor tracking systems; chain-edge assemblies have different guidance requirements. Reinforcing cross wires are different from the connector wire between opposite-hand panels.

METHODS OF DRIVE



Friction Driven

A drum drives the mesh by friction. Review panel handing, drum alignment, wrap angle, support and tension. Confirm drum diameter and traction for the exact mesh.



Chain Edge Drive

Sprockets drive side chains connected to the mesh by carrier rods. Match chain pitch, mesh pitch, rod attachments, guides and sprockets as one assembly.

MESH MATERIAL AVAILABILITY

Wire-material reference temperatures; not universal continuous-duty limits for a loaded belt.

Material	Max. Wire Operating Temperature
Carbon Steel	550°C
Galvanised Mild Steel	400°C
Chrome Molybdenum (3% Chrome)	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

Review actual belt temperature, load, dwell time, atmosphere and thermal cycles. Chains, joints and other components may impose lower limits. Grade 314 needs particular review for sustained service around 800-900°C. For galvanised wire, confirm coating suitability for heated or food-contact duty; 400°C is not automatic approval.

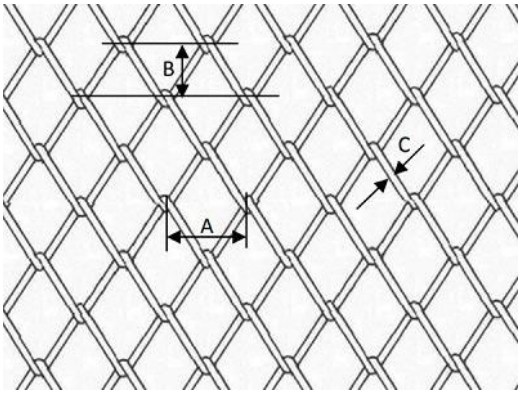
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01 STANDARD CHAIN LINK

Without chain-edge drive or reinforcing rods through every coil connection.

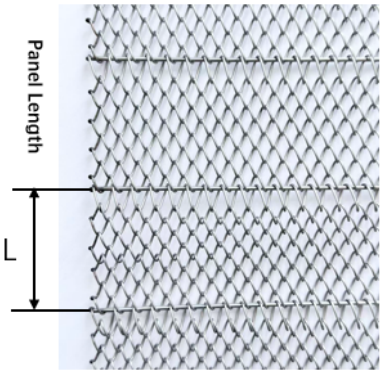
Interwoven coils create an open mesh for selected low-load drying and cooling duties. A connector wire between opposite-hand panels does not make the belt a rod-reinforced construction. Specify the mesh edge and panel arrangement separately.

1.1 Mesh Dimensions



A Lateral coil pitch (mm)
B Longitudinal coil pitch (mm)
C Wire diameter (mm)

1.2 Panel Arrangement



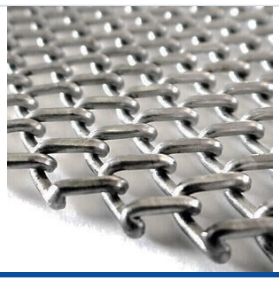
L Alternate-hand panel length (mm)

General lateral coil-pitch range: 5.08-25.40 mm. This is not a list of approved pitch/wire combinations; longitudinal pitch and wire diameter are selected for the application.

Measure A and B across 10 pitches where practical and divide by 10. Record overall width (mm), full-loop length (m) and material separately.

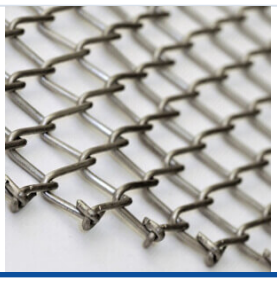
Panel options include alternating left/right hands, single-hand mesh or another specified arrangement. L is the length of one panel, **not full-loop length** or the L used on the chain-edge drawing. For unequal panels, show each length and joint position on a sketch.

1.3 Standard Mesh Edge Options



Welded Edge (W)

Coil ends are welded at the mesh margin. Confirm finished width, weld position and clearance to guides or side frames. This edge adds neither side chains nor reinforcing rods.



Knuckled Edge (K)

Coil ends form closed U-shaped returns with adjacent coils. Check the complete folded-edge envelope and guide clearance; identify the closure with an edge photograph.

For replacement: send a full-width photo, both edge details and a wider view showing several panel joints. Include material, A/B/C, W or K edge, panel arrangement and L where applicable.

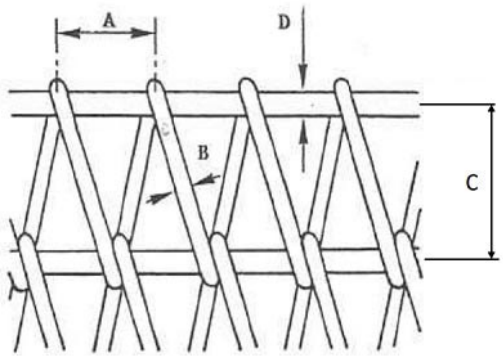
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02 ROD REINFORCED CHAIN LINK

Single-coil reinforced mesh without chain-edge drive.

Cross wires pass through intermeshing coils to improve strength and lateral stability compared with comparable unreinforced mesh. Specify coil-wire and cross-wire diameters separately. Allowable load depends on dimensions, material, temperature and support.

2.1 Mesh Dimensions



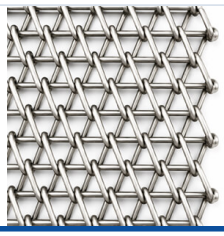
- **A** Lateral coil pitch (mm)
- **B** Coil wire diameter (mm)
- **C** Longitudinal cross-wire pitch (mm)
- **D** Cross-wire diameter (mm)

2.2 Listed Specification Examples

Lateral Pitch A (mm)	Coil Wire B (mm)	Cross-Wire Pitch C (mm)	Cross Wire D (mm)
16.93 / 15.24	2.03	16.93 / 19.05	2.64
16.93 / 15.24	2.64	16.93 / 19.05	2.95
16.93 / 15.24	2.95	16.93 / 19.05	3.25
16.93 / 15.24	3.25	16.93 / 19.05	4.06

Slash-separated pitches are alternatives, not a range or approval of every combination. Confirm the exact A/C choice and B/D pairing on the order drawing. Measure A and C over 10 pitches and divide by 10.

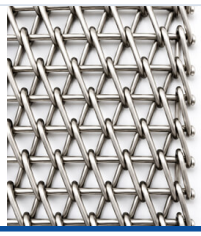
2.3 Reinforced Mesh Edge Options



Welded - In/Out

CLR-W-IN/OUT

Alternating long and short rods form staggered welds. Show several edge joints and check the outermost rod end.



Welded - In-line

CLR-W-IN LINE

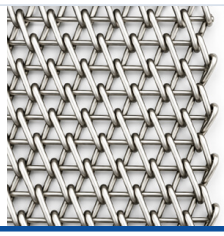
Equal-length rods form an aligned edge; alternate coil ends are compressed before welding. Confirm finished width and guide contact.



Welded - Bent Pin

CLR-W-BENT PIN

Rod ends turn 90° and weld to the preceding coil. Show the bend, weld, side clearance and travel direction.



Knuckled - Unwelded Tails

CLR-K/U

Paired U-shaped cross wires enter from alternate sides, retained by knuckled coils. Tail ends remain unwelded; show both edges.

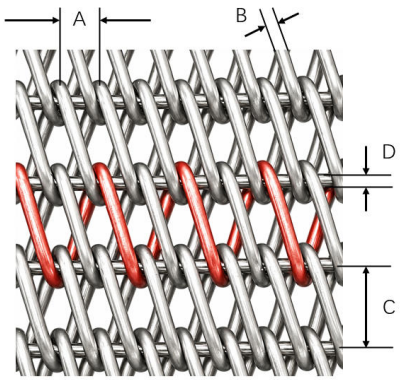
Welded knuckled tails: CLR-K/U/W adds welded coil-tail closures to the knuckled arrangement. Specify the weld location; the CLR-K/U image is not an exact approval drawing for this variant.

03 DUPLEX ROD REINFORCED CHAIN LINK

Twin-coil reinforced mesh without chain-edge drive.

Twin intermeshing coils at each position create a denser mesh than a comparable single-coil construction. Reinforcing cross wires support the assembly. Check product support, load, open area and flexibility together; matching dimensions alone does not establish an equivalent weave.

3.1 Mesh Dimensions



- **A** Lateral coil pitch (mm)
- **B** Coil wire diameter (mm)
- **C** Longitudinal cross-wire pitch (mm)
- **D** Cross-wire diameter (mm)

3.2 Listed Specification Examples

Lateral Pitch A (mm)	Coil Wire B (mm)	Cross-Wire Pitch C (mm)	Cross Wire D (mm)
8.47	2.03	16.93 / 19.05	2.64
8.47	2.64	16.93 / 19.05	2.95
8.47	2.95	16.93 / 19.05	3.25
8.47	3.25	16.93 / 19.05	4.06
5.08	2.03	10.16	2.64

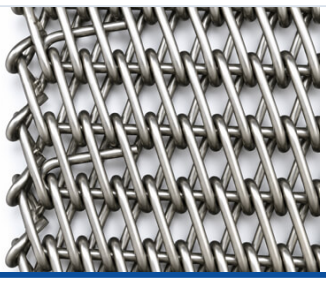
Preserve each row relationship. 16.93 / 19.05 means alternative cross-wire pitches, not a range. Measure A and C over 10 pitches where practical. The coloured coil illustrates the weave, not a different material or coating.

3.3 Duplex Mesh Edge Options



Welded - CLR-W-Duplex

Twin-coil tails are welded to equal-length cross wires. Confirm width at the outermost finished connection, the twin-coil arrangement and the end-joint profile.



Knuckled / Hooked - CLR-K/H-Duplex

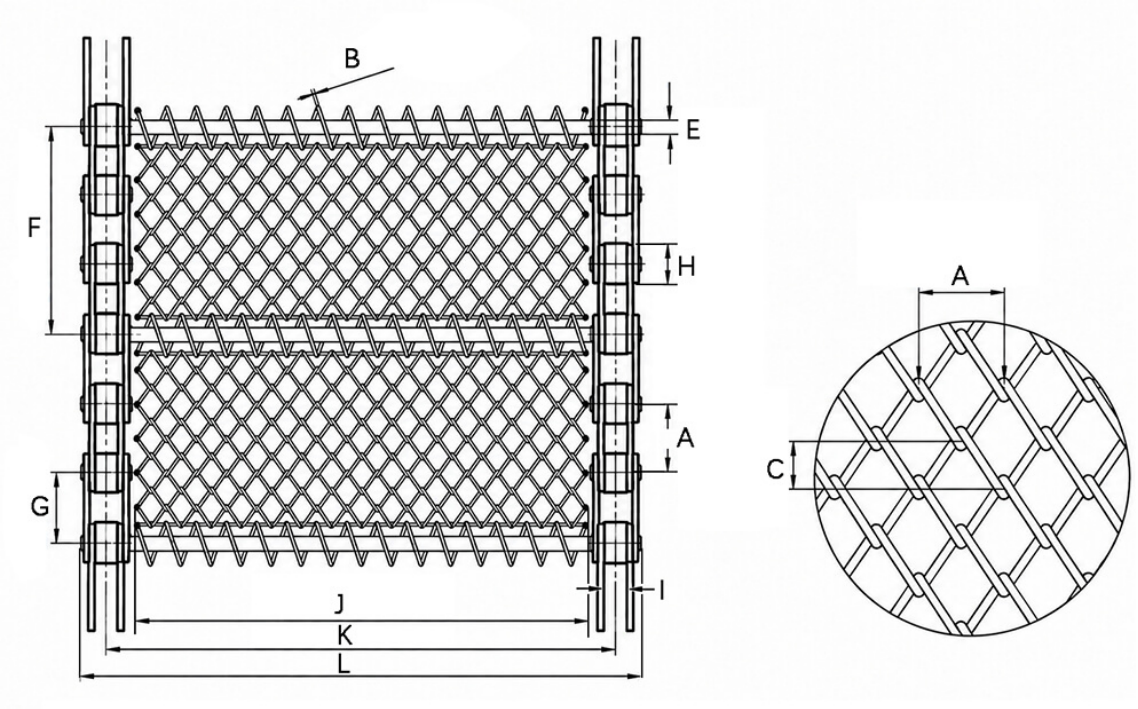
Knuckled coil pairs retain hooked cross wires inserted from alternating sides. Show both hook shapes and closed coil returns; check clearance against the complete hook envelope.

04 CHAIN LINK WITH CHAIN EDGE

Carrier rods connect the mesh to side chains for sprocket-driven operation.

Specify the mesh construction, mesh edge, carrier-rod fixing and side-chain assembly separately. A welded mesh edge and a welded washer describe different details. If the mesh is reinforced or duplex, include its mesh drawing as well as the chain information.

4.1 Mesh and Chain Assembly Dimensions



A	Lateral coil pitch (mm)	**B**	Coil wire diameter (mm)	**C**	Longitudinal coil pitch (mm)
E	Carrier rod diameter (mm)	**F**	Carrier rod pitch (mm)	**G**	Chain pitch (mm)
H	Chain roller diameter (mm)	**I**	Inside chain width (mm)	**J**	Width between chains / mesh width (mm)
K	Chain centres (mm)	**L**	Overall width (mm)		

Read A in the enlarged mesh detail; use G for chain pitch. The source drawing repeats A beside the chain. No D dimension is specified on this drawing.

Here C is longitudinal **coil pitch**, not the reinforcing cross-wire pitch on the reinforced and duplex drawings. Measure mesh A and C across 10 pitches where practical and divide by 10.

Confirm J, K and L separately. If usable mesh width differs from the distance between chains, record both on a sketch. Total belt length is the full loop length in metres, not the conveyor shaft-centre distance.

Need help identifying the correct construction?

Send full-width and edge photographs, the applicable dimensions, material and operating details. Include panel lengths for panelled mesh and chain/rod-end details for a chain-driven assembly.

Request Custom Quote

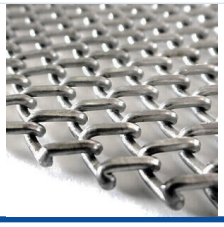
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04 CHAIN LINK WITH CHAIN EDGE - CONTINUED

Assembly options: identify the mesh margin, rod-end fixing and side chains separately.

4.2 Mesh Edge



Welded Mesh Edge (W)

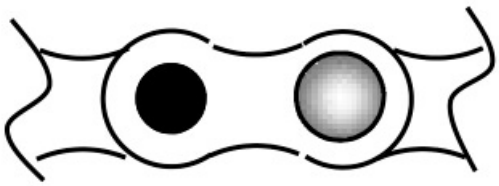
W identifies the mesh termination. Specify the carrier-rod retention separately and show clearance between the mesh, chain plates and any side guards.



Knuckled Mesh Edge (K)

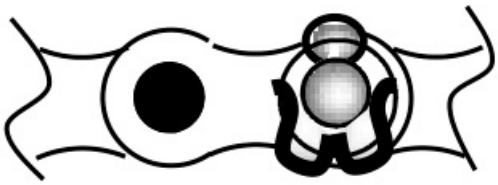
K identifies the folded coil returns. Show their position relative to carrier rods and state whether a larger coil is present at each carrier rod.

4.3 Carrier-Rod End Fixing



Welded Washer

A washer is welded outside the chain. State rod-end projection and side clearance; discuss the disassembly method if future chain removal is expected.



Cotter Pin and Washer

A washer and cotter pin retain the rod through an end hole. Allow clearance for the fastener and access for removal or replacement.

Welded nut / other fixing: a welded nut is an additional option. Provide a drawing for the nut/rod arrangement or another retention method; do not infer its geometry from the washer illustrations.

4.4 Side Chains, Drive and Accessories

Item	Information to Specify
Materials	Mesh/carrier-rod grade and side-chain material, with operating temperature and cleaning conditions.
Side-chain style	Hollow pin, solid pin or another style. Identify the actual rod attachment; pin style alone does not establish sprocket compatibility.
Chain and sprockets	G chain pitch, H roller diameter, I inside width and K chain centres; provide markings/stamps and photos or drawings.
Carrier rods	E diameter, F spacing, chosen end fixing and any larger coil at the carrier rod.
Edge plates / flights	Edge-plate height, material and quantity; flight shape and dimensions. Include location and attachment sketches.
Duty and supply	Full-loop length, product, process, minimum/maximum temperature, speed, load, quantity and delivery requirements.

Match chains, sprockets, carrier rods and conveyor support as one assembly. Dimension letters must stay with the definitions on their own drawing.

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APPLICATIONS

Match openings, reinforcement, alloy and edge arrangement to product support, load and process conditions.

01 Drying and Cooling

Open mesh supports through-belt airflow for suitable food, ceramic and industrial-part processes. Select the opening for the smallest product.

02 Washing and Frying

Openings admit and drain wash liquid or process oil. Match wire grade and cleaning method to the process chemistry.

03 Furnaces and Ovens

Review actual belt temperature, atmosphere, load, thermal cycles and component limits before selecting a heat-resistant alloy.

04 Cold-Service Conveying

Review product support, material and freezing conditions for chilled or frozen handling, including suitable straight tunnel systems.



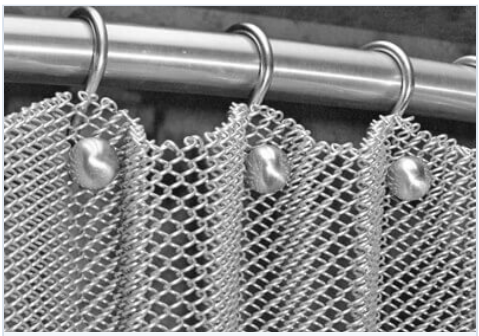
Frying Facilities



Product Conveying



Washing Applications



Mesh Curtain



Cigarette Factory



Heat Treatment

Lightweight conveying can use standard mesh; reinforced and duplex constructions provide additional support options. Industrial curtain duties require suitable attachments and clearances; an open mesh alone does not establish suitability as a safety barrier.

Select a belt for your process

Send product dimensions and weight, process temperature, cleaning method, belt speed and required throughput. For ovens or furnaces, include atmosphere and thermal cycles; for cold service, describe the freezing conditions.

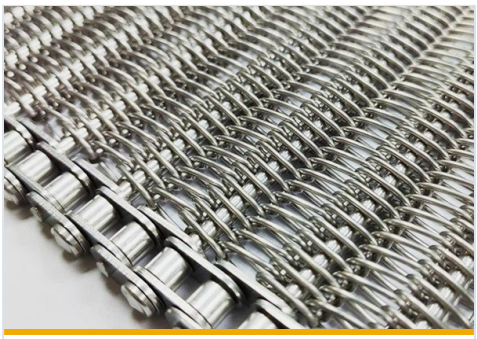
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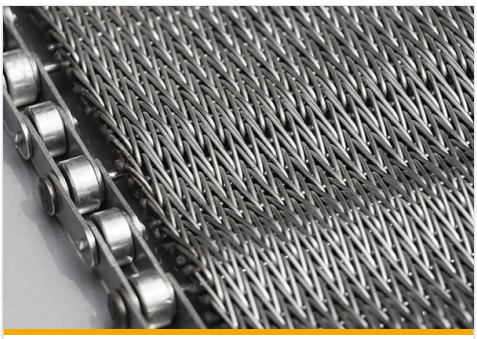
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OUR COMPLETE PRODUCT RANGE

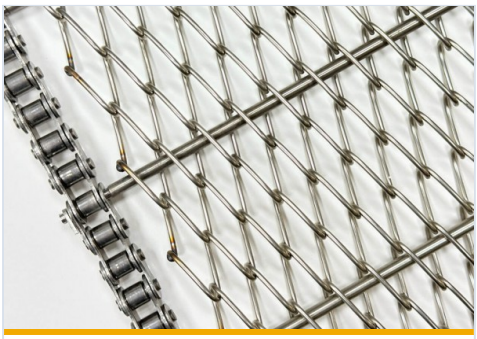
Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



03 Chain Link Conveyor Belts



04 Flat Flex & Enrober Belts



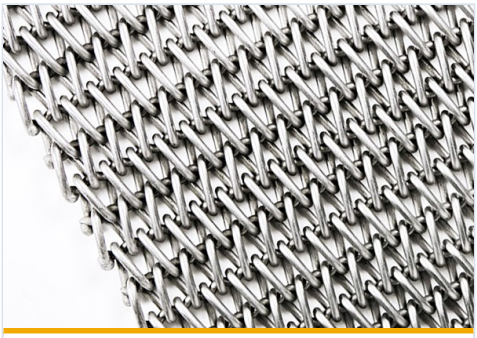
05 Eye Link & Eye Flex Belts



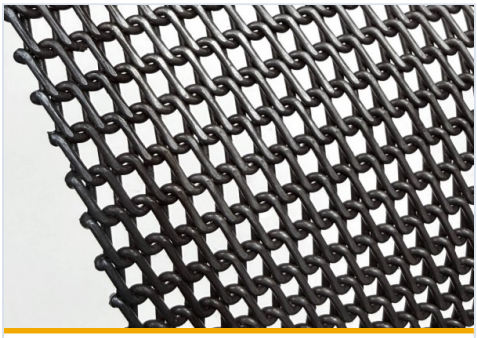
06 Honeycomb & Flat Wire Belts



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



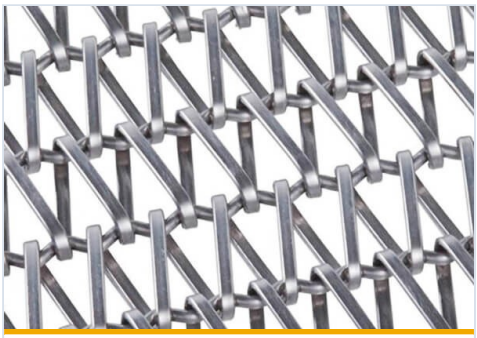
13 Edge Drive Spiral Freezer Belts



14 Ladder Conveyor Belts



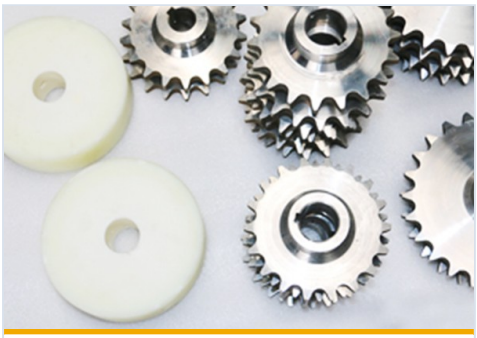
15 Woven Rod Bar Conveyor Belts



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

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