www.industrialconveyorbelt.com
wirebelt@pfmscreen.com
WhatsApp +86-153-6967-9157

METAL CONVEYOR BELTS · PRODUCT DATA SHEET

Ladder & Rod Conveyor Belts

Parallel cross rods connected at the edges form an open carrying surface with positive sprocket drive. PFM SCREEN supplies S-hook, U-link and chain-link constructions for selected straight or turning layouts, with dimensions, materials and accessories matched to the product and conveyor.

3 Edge-link constructions	**-100 to +450°C** Range; duty-dependent	**Positive Drive** Matched sprockets
S-Hook Straight or fixed radius	**U-Link** Straight / turning routes	**Chain-Link** Straight-running only



OVERVIEW

Cross rods provide product support while open spaces admit air, water, steam and oil. Rod diameter, gap, material and supports are selected for the product and load.

Identify a replacement by its edge connection and dimensions. S-hook fixed-radius belts, turning U-link belts and straight chain-link belts have different geometry requirements.





FEATURES AND BENEFITS

01 Open Rod Surface
Supports process airflow, heat exchange and drainage.

02 Sprocket Engagement
Matched geometry transmits drive through the selected construction.

03 Product Support
Choose rod spacing for the smallest item and its condition.

04 Rod Strength
Diameter and supports matched to width, load and temperature.

05 Cleaning Access
Open structure assists washing and inspection of rods and connections.

06 Accessories
Raised rod flights and matching sprockets available on request.

www.industrialconveyorbelt.com
wirebelt@pfmscreen.com
WhatsApp +86-153-6967-9157

01 CONSTRUCTION AND MATERIAL OPTIONS



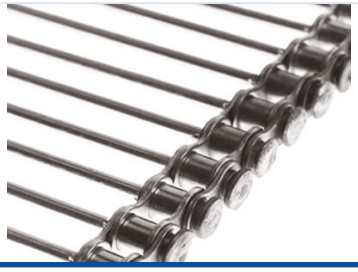
1.1 S-Shaped Hooks

Straight-running or fixed-radius radial belts, manufactured to a specified path.



1.2 U-Shaped Links

Straight, turning or combined layouts. Specify the minimum inside radius along the route.



1.3 Chain Links

Side chains connected by transverse rods. Supplied for straight-running conveyors only.

1.4 Material selection

Material	Selection considerations
Stainless Steel 304	Suitable bakery, food and industrial duties; match finish and cleaning.
Stainless Steel 316	Improved corrosion resistance in many environments; actual chemistry and temperature govern suitability.
Mid-Tensile Carbon Steel	Suitable non-food industrial applications subject to corrosion and load review.
Other Grades	High-carbon steel or special alloys may be reviewed on request.

Published range: -100°C to +450°C across suitable constructions. Confirm material, load and all conveyor components. Product-specific FDA-related test documentation is available on request.

1.5 Flights and drive components

Selected rods can be formed into raised flights to separate products or reduce sliding on suitable inclines. Specify height and repeat spacing.

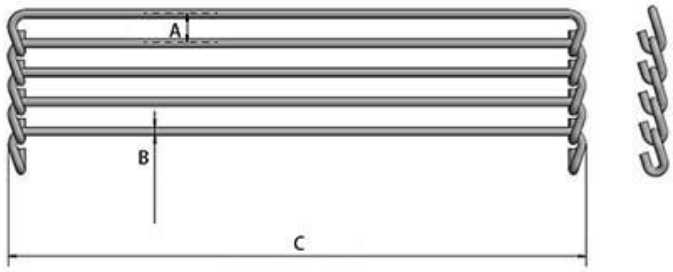
Matching sprockets can be supplied. Provide existing sprocket photographs and dimensions to confirm pitch and engagement.





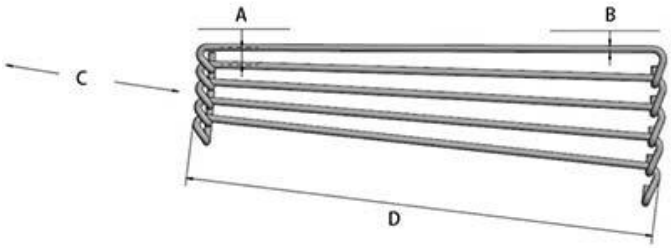
02 S-HOOK LADDER BELT SPECIFICATIONS

2.1 Straight-running



A Rod pitch (mm)
B Rod diameter (mm)
C Overall width (mm)

2.2 Fixed-radius radial



A Inner-side rod pitch (mm)
B Rod diameter (mm)
C Inside radius (mm)
D Overall width (mm)

2.3 Straight-running models

Item	Rod Pitch (mm)	Rod Diameter (mm)	Max. Listed Width (mm)
SRLB01	12.70	3.66	762.00
SRLB02	15.87	4.47	914.00
SRLB03	19.05	4.88	914.00
SRLB04	25.40	4.88	914.00

2.4 Radial models

Item	Inner Pitch (mm)	Rod Dia. (mm)	Inside Radius (mm)	Listed Widths (mm)
RLB01	12.70	3.66	598.50	229.00 / 305.00 / 381.00 / 457.00 / 762.00
RLB02	15.87	4.47	762.00	305.00 / 381.00 / 457.00 / 610.00 / 762.00

Each width option belongs to its listed model. Confirm suitability for the actual load, speed, temperature and support.

For radial S-hook belts, measure pitch at the INNER side. Inside radius runs from the turn centre to the innermost belt edge. Supply a top-view sketch and travel arrow.

Identify an S-hook configuration

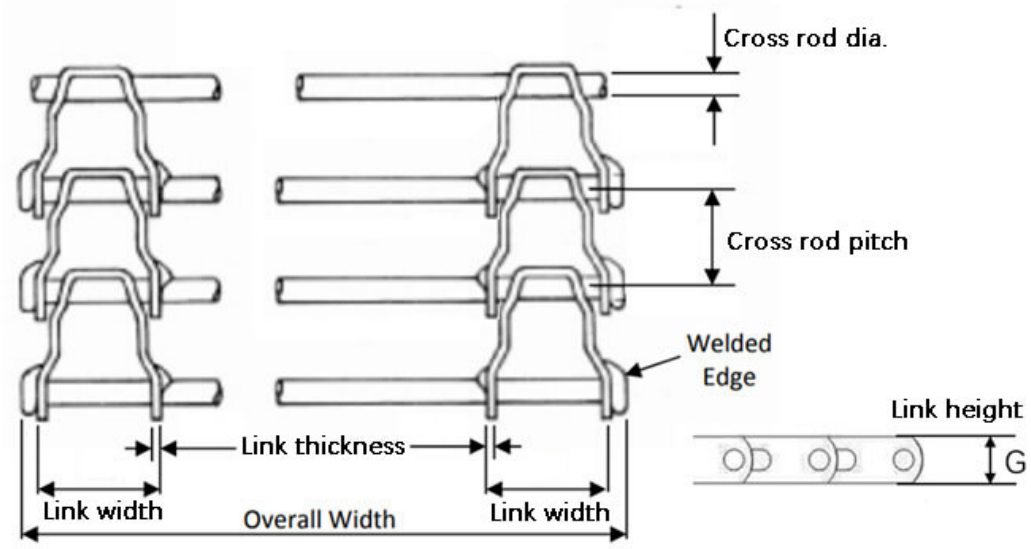
Specify straight or fixed-radius radial construction, dimensions, full-loop length, material and operating conditions.

Request Custom Quote

Email Specifications

03 U-LINK LADDER BELT SPECIFICATIONS

3.1 U-shaped link dimensions



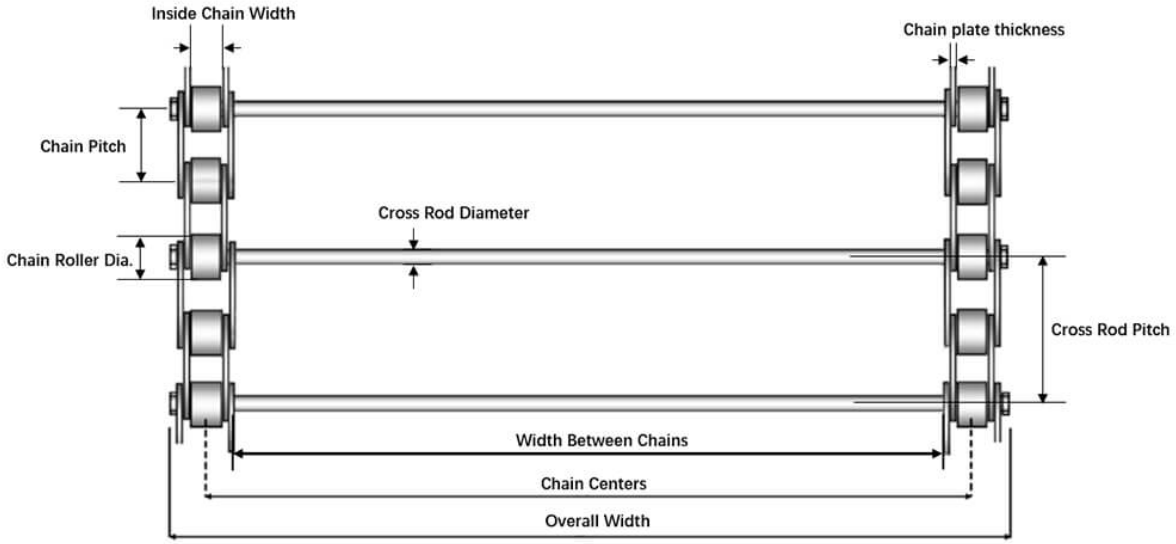
Parameter	Measurement / selection
Cross-rod diameter	Diameter of the transverse rod.
Cross-rod pitch	Rod-centre spacing along travel; inner-side pitch for turning sections.
Link width	Transverse width between the drawing reference lines; separate from overall belt width.
Link thickness	Thickness of the strip forming the U-link.
Link height	Vertical link height in the side view, marked G.
Overall width	Outermost width including both edge links.
Edge connection	Drawing shows welded edge; supply a photo for replacements.
Minimum inside radius	Smallest turn-centre to innermost-edge radius along the route.

Dimensions in mm. U-link geometry is selected separately from the S-hook tables.

For turning layouts, provide the minimum inside radius, inner-side pitch, material and full-loop length. A route sketch helps identify combined straight and curved sections; a fixed turn angle is not required for the initial enquiry.

04 CHAIN-LINK LADDER BELT SPECIFICATIONS

4.1 Chain-driven rod belt dimensions



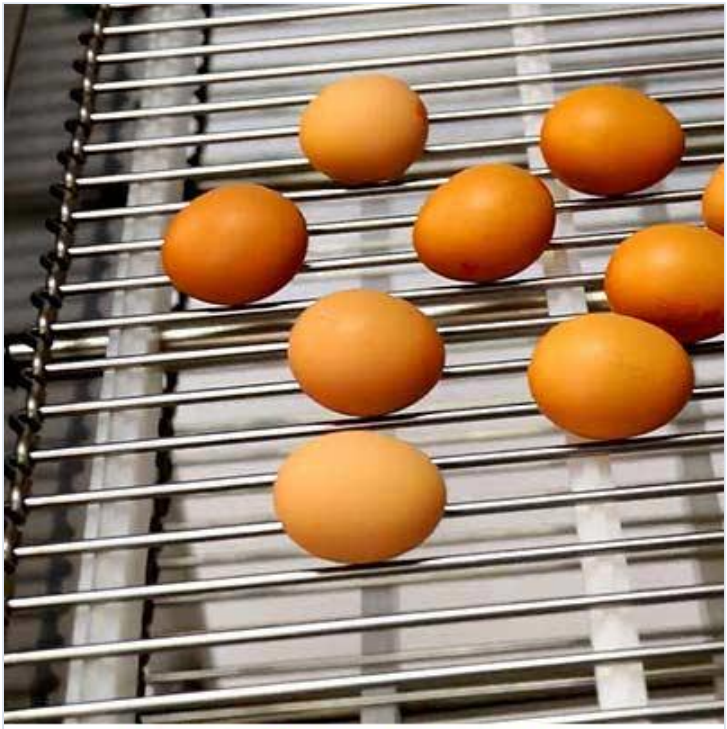
Parameter	Measurement / selection
Chain pitch / rod pitch	Record each centre-to-centre pitch separately; they are not assumed equal.
Cross-rod diameter	Diameter of the transverse rod.
Inside chain width	Clear spacing inside ONE chain, between its inner plates.
Chain plate / roller	Individual plate thickness and roller outside diameter.
Width between chains	Clear transverse width between inward-facing surfaces of the two chains.
Chain centres	Centre-to-centre distance across the two side chains.
Overall width	Outermost assembly width, including projecting ends where shown.
Edge finish	Welded washer, cotter pin and washer, or welded nut.
Optional edge plates	Specify height, material, quantity and drawing.

All dimensions in mm. Include chain designation, sprockets, material and full-loop length.

Chain-link ladder belts are for straight-running conveyors. The four width definitions above describe different measurements.

www.industrialconveyorbelt.com
wirebelt@pfmscreen.com
WhatsApp +86-153-6967-9157

05 APPLICATIONS



Ladder conveyor belt for Grading

Grading and Sorting



Ladder conveyor belt for Baking

Baking

01 Bakery Cooling

Open rods allow air to reach supported bread, buns and pastries.

02 Frying

Cooking oil circulates and drains; flights may separate products.

03 Baking and Grilling

Select construction and drive for the process temperature.

04 Batter Coating

Excess coating drains through; support soft products adequately.

05 Washing / Blanching

Openings admit process water or steam and allow drainage.

06 Drying / Separation

Airflow and rod gaps serve suitable drying or coarse separation duties.

Select your ladder belt construction

Send product dimensions, process, load, line speed, temperatures and belt or conveyor photographs. Include a layout for turning systems.

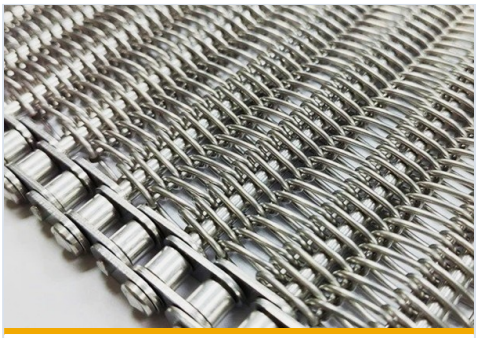
Request Custom Quote

Email Specifications

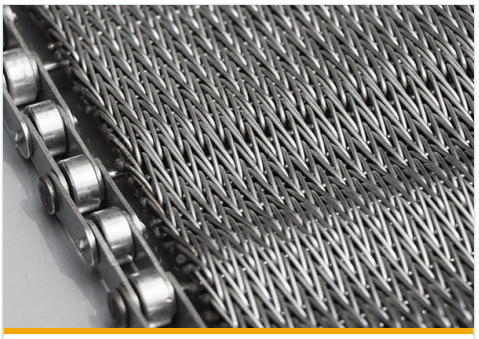
www.industrialconveyorbelt.com
wirebelt@pfmscreen.com
WhatsApp +86-153-6967-9157

OUR COMPLETE PRODUCT RANGE

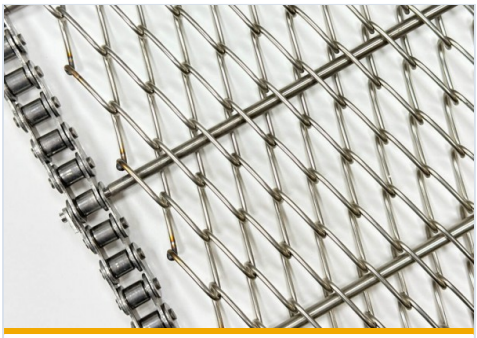
Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



03 Chain Link Conveyor Belts



04 Flat Flex & Enrober Belts



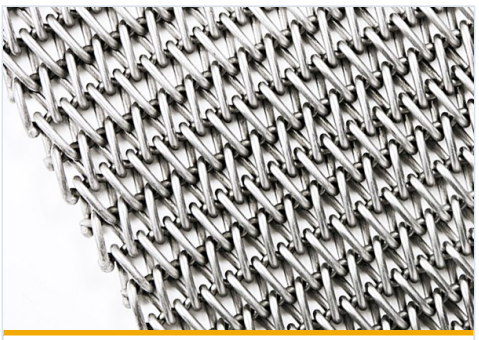
05 Eye Link & Eye Flex Belts



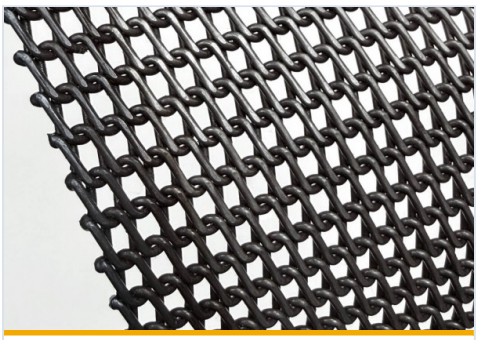
06 Honeycomb & Flat Wire Belts



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



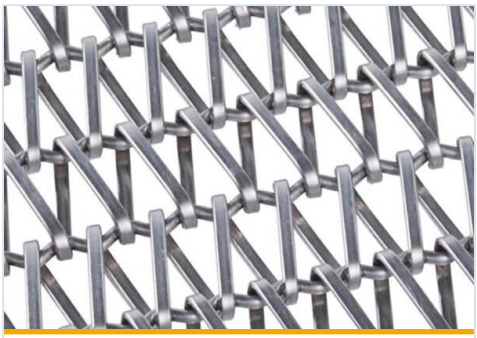
13 Edge Drive Spiral Freezer Belts



14 Ladder Conveyor Belts



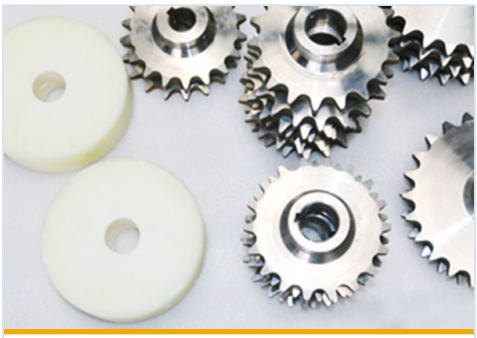
15 Woven Rod Bar Conveyor Belts



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

Address No.1107, Floor 11, Dazhong Plaza, Yinhe Road, Guangyang District, Langfang, Hebei, China 065000
Mobile +86-153-6967-9157
Email wirebelt@pfmscreen.com
WhatsApp +86-153-6967-9157

PRODUCTION & TECHNICAL SUPPORT

Address Industrial Park Zone of South, Anping County, Hebei Province, China 053600
Mobile +86-189-3167-2095
Email filter@pfmscreen.com
WhatsApp +86-189-3167-2095

Scan to visit
industrialconveyorbelt.com

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.

Request Quote Now
Email Completed Form