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METAL CONVEYOR BELTS · PRODUCT DATA SHEET

Flexible Rod Conveyor Belts

Transverse rods and collapsible links form a flexible belt for compatible spiral, curved and straight conveyor paths. PFM SCREEN supplies mesh-covered or open-rod belts, standard or center-link arrangements, selected rod-end connections and optional side guards for the required process.

2 Carrying surfaces	**Standard / Center** Link arrangements	**1.60-2.50** Standard turn ratio
0.80-2.10 Center-link turn ratio	**3** Rod-end weld options	**Optional** Side guards

OVERVIEW

Standard belts have links at both sides. A selected center-link construction adds an internal link for layouts requiring a smaller inside turn radius. The permitted travel direction must match the design.

Select the mesh opening, wire size, rods and links for product support and conveyor geometry. Open-rod belts omit the spiral overlay and require adequate product stability across rod gaps.

FEATURES AND BENEFITS

01 Flexible Path
Suitable configurations follow spiral or radius routes and straight runs.

02 Mesh or Open Rod
Two carrying surfaces serve different product-support needs.

03 Link Options
Standard or reinforced side links; internal link available for selected layouts.

04 Airflow and Drainage
Open structure supports process access around suitable products.

05 Rod-End Choice
Connection profile is matched to links, clearances and maintenance.

06 Service Access
Inspect rods, links, joints, drives and supports as part of maintenance.

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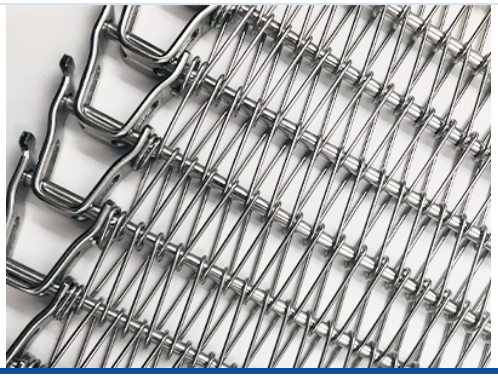
01 CONFIGURATION AND MATERIALS

1.1 Carrying surface and link arrangement

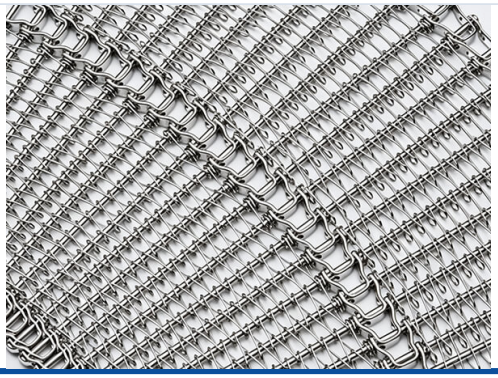


Spiral Mesh Overlay

Alternating spiral coils and smooth cross rods form the carrying surface. Select openings for the smallest product.

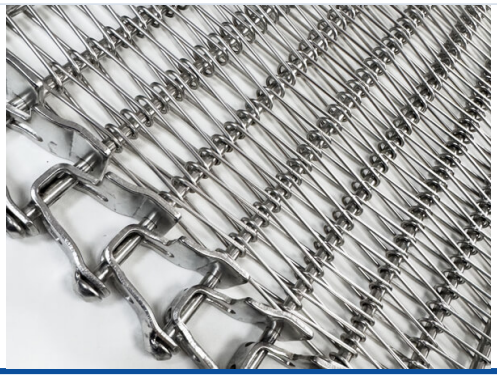
Open-Rod Configuration

No spiral overlay. Check rod spacing and gaps through curves against product dimensions and stability.



Standard / Center Link

Side links alone or an additional internal link. The center link is not necessarily positioned at half the belt width.



Edge Links / Side Guards

Standard U-links and reinforced edge-link options. Optional guards require suitable height, articulation and clearances.

1.2 Materials

Material	Configuration and considerations
SS304	Available stainless belt configurations; review process and cleaning.
SS316 / SS316L	Review actual chemicals, concentration, temperature and contact time.
SS201	Available option subject to suitability for the intended duty.
Carbon Steel	Infrequently used; only for open-rod belts without spiral mesh.

Complete-belt operating limits depend on construction, joints, load, speed, atmosphere, drives and supports. Confirm service and cleaning requirements.

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02 ROD ENDS AND STANDARD DIMENSIONS

2.1 Rod-end welding options

360° Buttonless Weld

Circumferential rod-to-link fusion without a projecting button head. Confirm continuous finish and clearance.

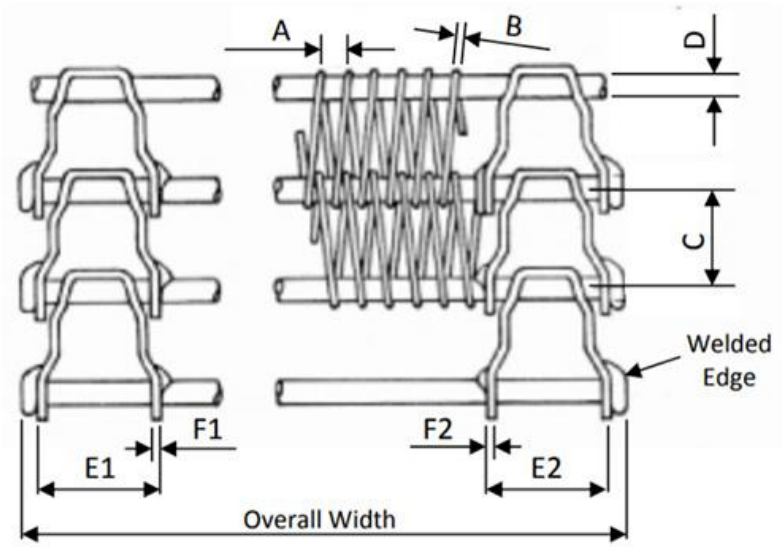
Bridge-Tension Weld

Localized weld bridges the rod-end button and adjacent link. Review recesses during cleaning and inspection.

Button Cap Weld

A separate cap fits over the rod end and is welded in place. It differs from a button formed directly on the rod.

2.2 Standard configuration - side links



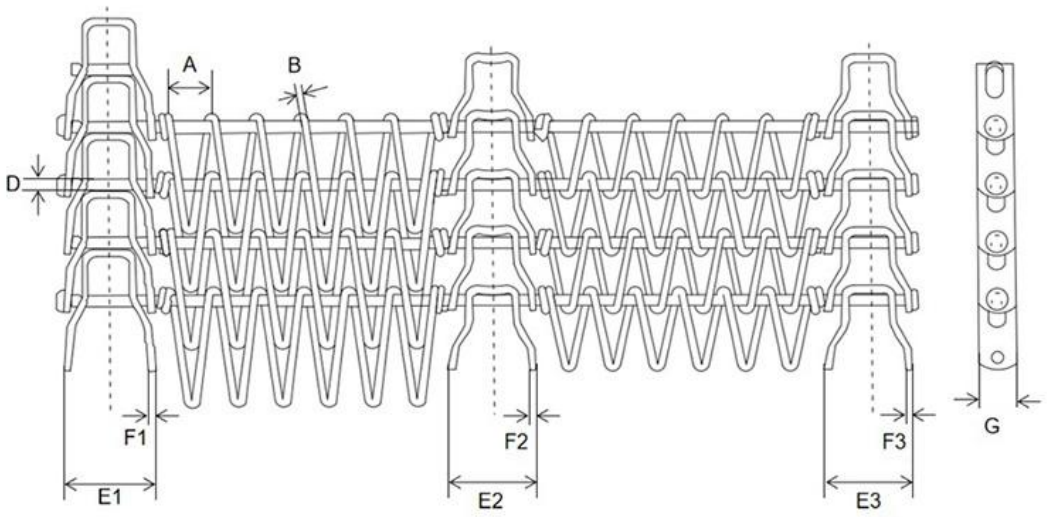
A Coil pitch (mm)	**B** Coil wire diameter (mm)	**C** Cross-rod pitch (mm)
D Cross-rod diameter (mm)	**E** Link width (mm)	**F** Link thickness (mm)
G Link height (mm)		

A and B apply only to mesh-covered belts. Record every subscripted dimension separately as shown. Where practical, measure across 10 cross-rod pitches on a straight sample and divide by 10; wear measurements are for initial identification.

Rod-end welding style and edge-link reinforcement are separate choices. Appearance alone does not establish strength, fatigue life or food-contact suitability.

03 CENTER-LINK DIMENSIONS AND OPTIONS

3.1 Center-link configuration - additional internal link



- **A** Coil pitch (mm)
- **B** Coil wire diameter (mm)
- **C** Cross-rod pitch (mm)
- **D** Cross-rod diameter (mm)
- **E** Link width (mm)
- **F** Link thickness (mm)
- **G** Link height (mm)

3.2 Reference dimensional options

Parameter	Standard / Reinforced	Center-Link
Coil wire dia. (mm)	1.20, 1.40, 1.50, 1.60, 1.70, 2.00	1.20, 1.40, 1.50, 1.60, 2.00
Cross-rod dia. (mm)	4.90, 5.00, 5.90, 6.00	4.90, 5.00, 5.90, 6.00
Link height (mm)	11.10, 12.70, 15.00	11.10, 12.70, 15.00
Cross-rod pitch (mm)	19.05, 25.40, 27.40, 30.00, 30.50, 38.10	Inner × middle × outer: 19.10 × 19.10 × 27.40; 27.40 × 27.40 × 38.10
Curve / spiral width (mm)	304.80-1,371.60	305.00-1,219.00
Straight-run width (mm)	304.80-1,524.00	305.00-1,219.00; confirm layout
Turn ratio K	1.60-2.50	0.80-2.10

Center-link pitch references and internal-link position must be confirmed on the approved drawing. Listed options are not interchangeable.

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

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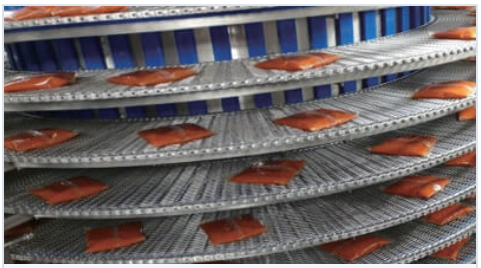
04 DRIVE MATCHING AND APPLICATIONS

At a sprocket station, matched sprockets engage the links. A spiral system may also use a rotating drum or cage. Confirm the actual arrangement, tooth profile, shaft positions, inside radius, support and return path.

For a center-link belt, state its position from a clearly identified belt edge. Include the full loop length, usable carrying width, load, speed and minimum/maximum temperatures.

Curved Transfer

Spiral Proofing



Spiral Cooling

Spiral Freezing

Spiral Heating

4.1 Process suitability

Cooling, freezing and proofing require review of humidity, loading, support and cleaning. Cooking, drying, heating, blanching and pasteurising require confirmation of complete-belt limits and the process medium. No one construction is suitable for every cleaning or thermal cycle.

Confirm a standard or center-link belt

Send rod/link dimensions, rod-end connection, overall width, full-loop length, turning geometry, equipment model and photographs.

Request Custom Quote

Email Specifications

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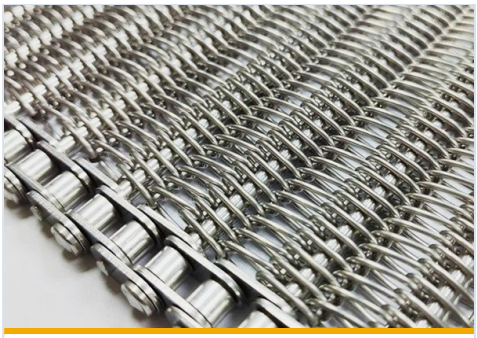
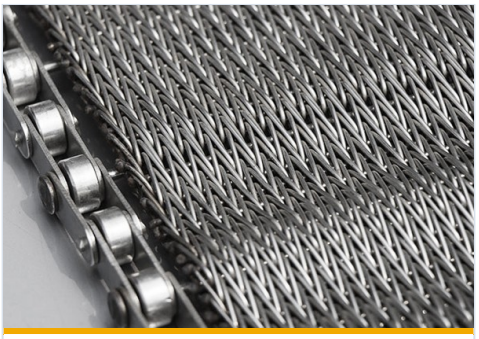
OUR COMPLETE PRODUCT RANGE

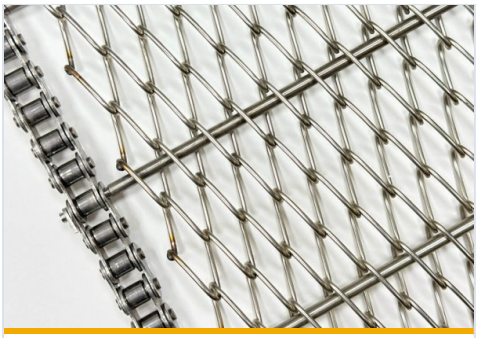
Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



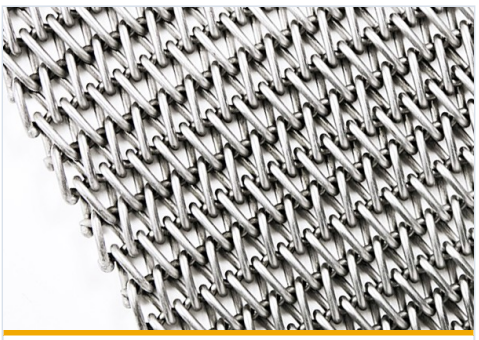
03 Chain Link Conveyor Belts

04 Flat Flex & Enrober Belts

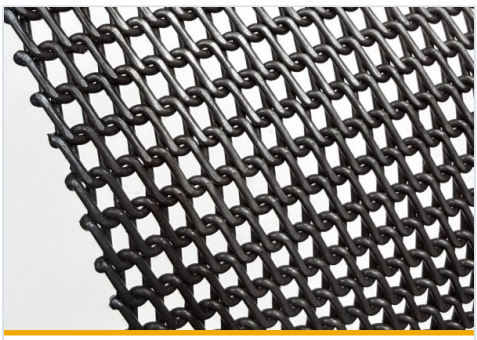
05 Eye Link & Eye Flex Belts

06 Honeycomb & Flat Wire Belts

07 Plate Link & Hinged Steel Belts



08 Wire Mesh Lehr Belts



09 Biscuit Baking Belts

10 Spiral Freezer Belts

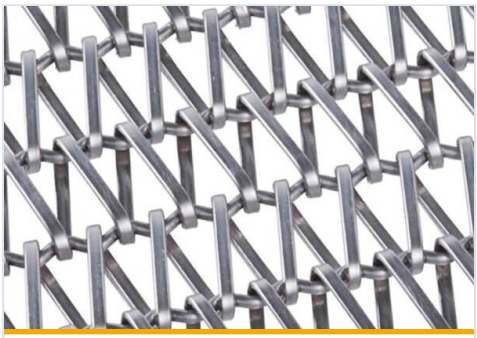
11 Flexible Rod Conveyor Belts

12 Self-Stacking Spiral Belts

13 Edge Drive Spiral Freezer Belts

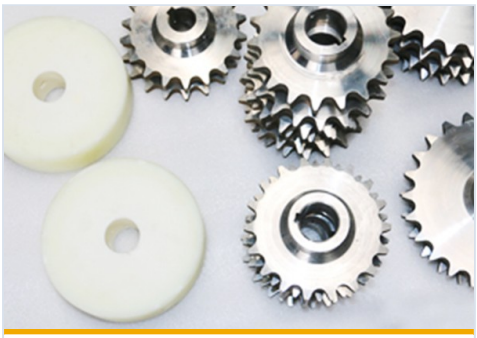
14 Ladder Conveyor Belts

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

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