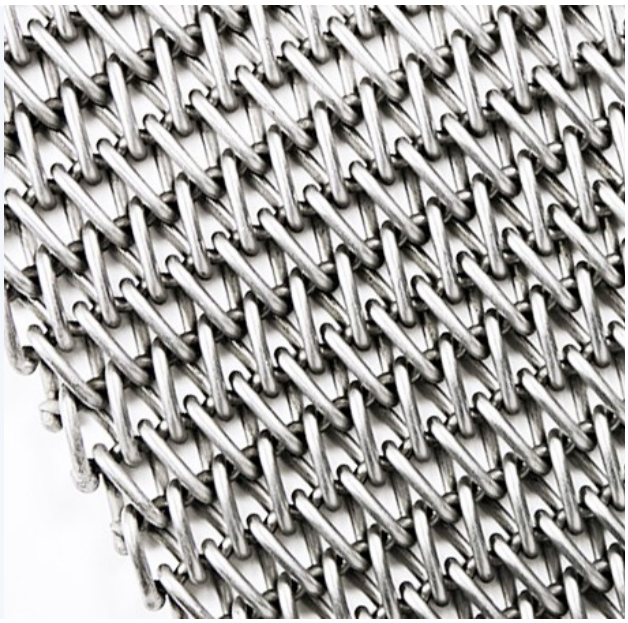
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METAL CONVEYOR BELTS · PRODUCT DATA SHEET

Wire Mesh Lehr Belts

Balanced woven and compound weave belts carry glassware through annealing and decorating lehrs. PFM SCREEN supplies round or flattened spiral wire, welded edges and selected materials, with mesh dimensions matched to the glassware, furnace layout and thermal process.

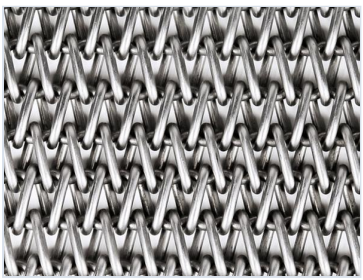
2 Weave structures	**2** Spiral wire profiles	**Welded** Edge finish
35.00-5,000.00 Reference width range, mm	**Glassware** Annealing and decorating	**Custom** Mesh and material grade

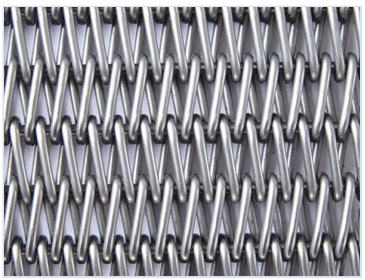


OVERVIEW

The belt supports and transports glass bottles, jars and tumblers through the lehr. The equipment controls the heating and cooling cycle used to reduce residual forming stresses.

Weave, wire profile, opening, flatness and transfer geometry affect support. Temperature suitability depends on alloy, loading, tension, atmosphere and duty cycle.





KEY FEATURES

01 Glassware Support
Flattened wire can provide broader contact; confirm base stability on the complete mesh.

02 Spiral Positioning
Crimped rods locate spirals in standard balanced construction.

03 Balanced Running
Alternating spirals help balance the weave; alignment and even loading remain necessary.

04 Denser Weave Option
Compound weave offers closer support with multiple rods per spiral.

05 Custom Dimensions
Select width, pitch and wire size for the furnace and product.

06 Thermal Review
Take-up must allow thermal expansion, settling and load-related elongation.

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01 WEAVE, WIRE AND EDGE SELECTION

1.1 Weave structures



Balanced Woven

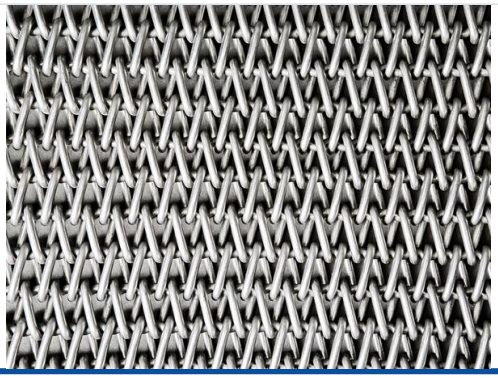
Alternating left- and right-hand spirals joined by cross rods. Crimped rods help locate the spirals.



Compound Weave

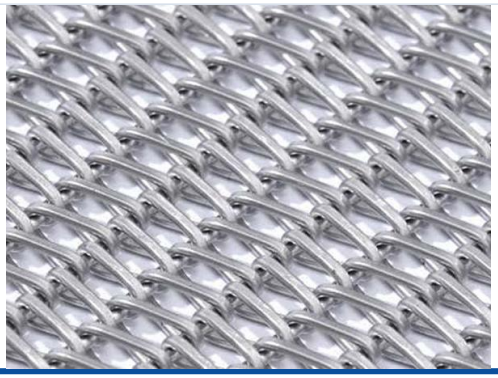
Closely intermeshed spirals with multiple cross rods per spiral create denser support.

1.2 Spiral wire profiles



Round Spiral Wire

Specify circular wire diameter in mm, separately from weave structure.



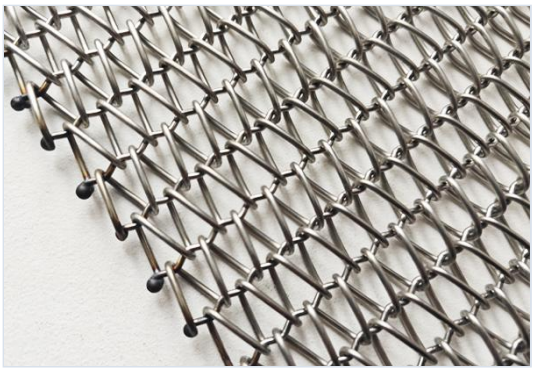
Flattened Spiral Wire

Specify finished width × thickness. Confirm cross-section and contact requirements.

1.3 Welded edge

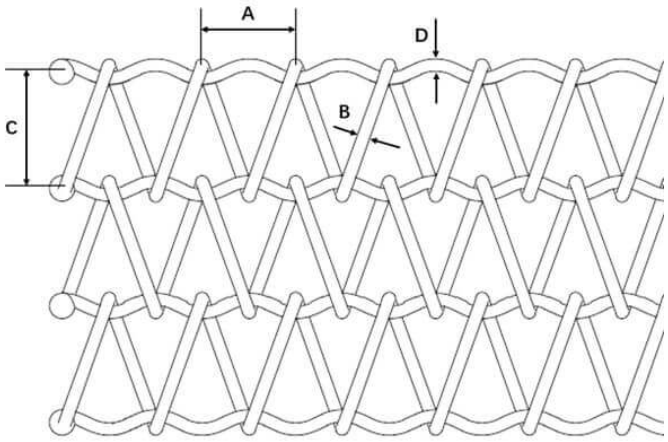
Spiral and rod ends are welded together at the sides to secure the assembly. Confirm the edge detail, clearance and weld arrangement.

Round and flattened are wire profiles; balanced and compound are weave families. These choices are specified separately. Welded edges do not eliminate thermal fatigue.



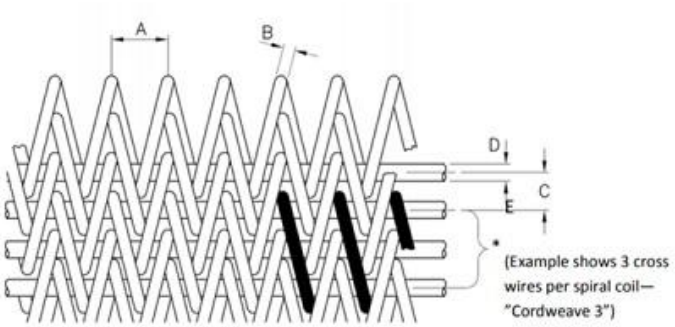
02 DIMENSIONAL IDENTIFICATION

2.1 Balanced woven construction



A Spiral pitch (mm)	**B** Round spiral wire dia. (mm)
C Cross-rod pitch (mm)	**D** Cross-rod diameter (mm)

2.2 Compound weave construction



A Spiral pitch (mm)	**B** Round spiral wire dia. (mm)	**C** Cross-rod pitch (mm)
D Cross-rod diameter (mm)	**E** Cross rods per spiral (count)	

For flattened wire, supply finished width × thickness separately. For compound weave, state the number and arrangement of rods, and distinguish adjacent-rod spacing from repeating group pitch. Mark the measurement direction and centre-to-centre references; clear opening is not pitch.

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03 REFERENCE SPECIFICATION AND MATERIALS

Parameter	Reference / information required
Belt width	35.00-5,000.00 mm; confirm the selected configuration.
Round spiral wire diameter	1.00-4.00 mm
Flattened spiral wire	1.20 × 0.80 mm to 4.00 × 2.00 mm; finished width × thickness.
Spiral pitch A	3.00-33.00 mm
Cross-rod diameter D	1.50-5.00 mm
Cross-rod pitch C	6.50-40.00 mm
Rods per spiral E	Compound weave: specify count and arrangement.
Belt length / edge	Confirm full-loop length, joining and welded edge detail.

Reference ranges are not a stock list or a guarantee that every combination is available.

3.1 Material options

Material	Selection considerations
430 Stainless Steel	Established lehr option; review atmosphere, temperature cycle and loading.
304 Stainless Steel	Select for the process and corrosion conditions.
314 Stainless Steel	Heat-resistant stainless option; not interchangeable with a named nickel-chromium alloy.
Carbon Steel	Exact grade required; distinct from chromium-molybdenum steel.
Chromium-Molybdenum Steel	Confirm existing grade or material certificate and availability.
Nickel-Chromium Alloys	Specify exact designation and review the application separately.

No universal continuous temperature rating. Confirm normal/peak belt temperatures, duration, atmosphere, load, tension, speed and support.

Confirm your furnace belt

Send weave, wire profile, A-D dimensions and E where applicable, width at ambient temperature, full-loop length, glassware base dimensions, load and temperature profile.

Request Custom Quote

Email Specifications

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04 GLASS AND THERMAL-PROCESS APPLICATIONS


Lehr

Glass Annealing

Carries suitable glassware through controlled temperature equalisation and cooling. The glass and process determine the thermal profile.


Sintering

Related Sintering

Requires a separately selected furnace belt and alloy for temperature, atmosphere, loading and contamination limits.


Brazing

Related Brazing

A glass lehr specification is not automatically suitable. Request a separate process and material review.


Baking

Related Baking

Requires a dedicated specification for product support, temperature, drive, cleaning and food contact.

4.1 Decorating processes

01 Ceramic Enamel Firing

Use the enamel supplier's firing, residence-time and cooling requirements for the glassware.

02 Organic Ink Curing

Use the coating-specific substrate temperature and time. Ceramic firing conditions must not be applied to organic inks.

Match the belt to the thermal cycle

Identify annealing, ceramic-enamel firing or organic-ink curing. Provide product weight/base size, loading, residence time, atmosphere and furnace layout.

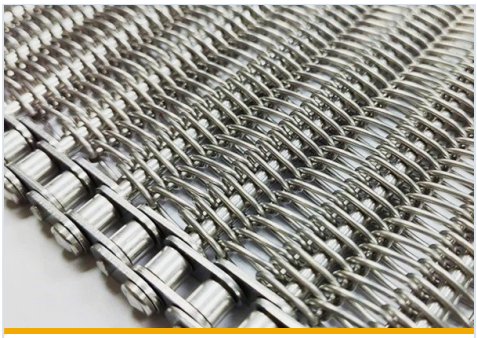
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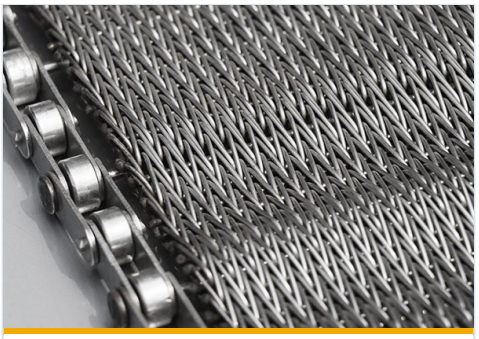
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OUR COMPLETE PRODUCT RANGE

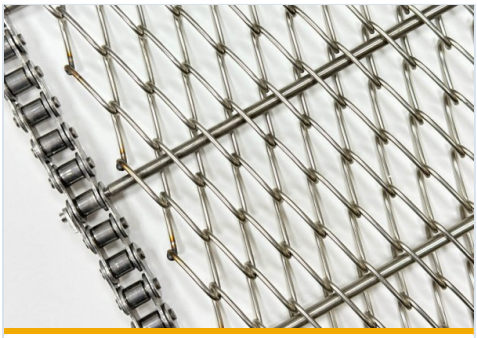
Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



03 Chain Link Conveyor Belts



04 Flat Flex & Enrober Belts



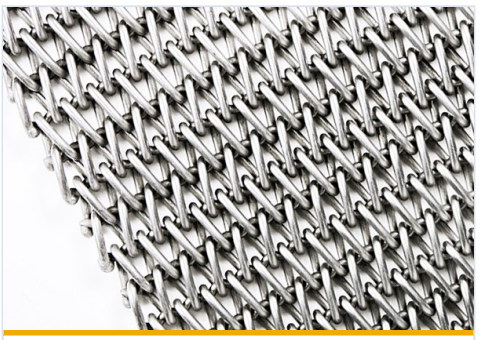
05 Eye Link & Eye Flex Belts



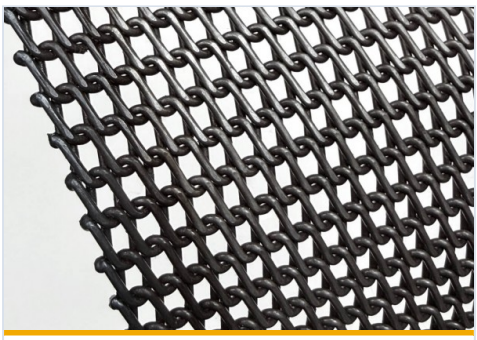
06 Honeycomb & Flat Wire Belts



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



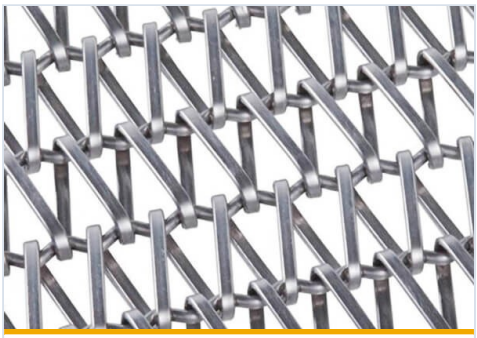
13 Edge Drive Spiral Freezer Belts



14 Ladder Conveyor Belts



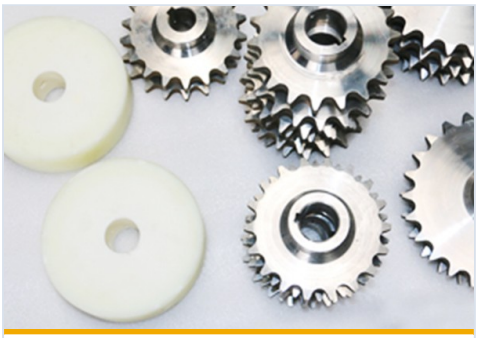
15 Woven Rod Bar Conveyor Belts



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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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
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