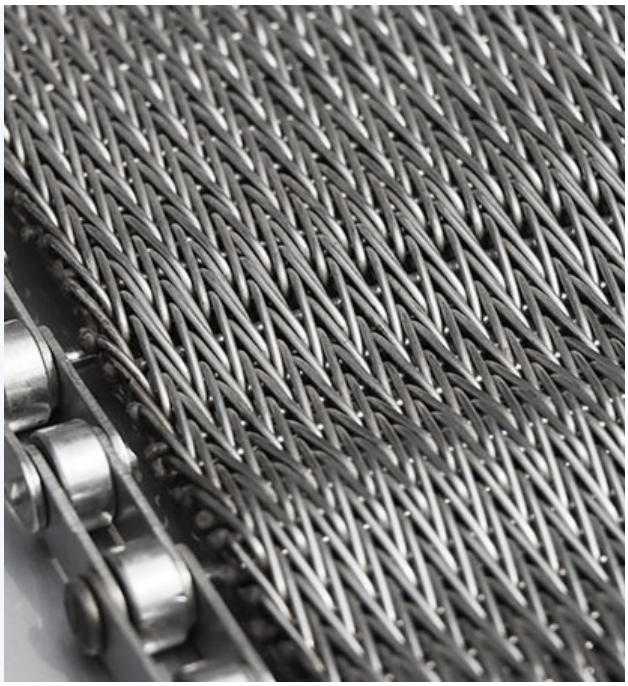
www.industrialconveyorbelt.com
wirebelt@pfmscreen.com
WhatsApp +86-153-6967-9157

METAL CONVEYOR BELTS · PRODUCT DATA SHEET

Compound Weave Conveyor Belts

A compound balanced weave belt combines alternating spiral coils with multiple cross wires to form a dense, flat carrying surface. Small openings support biscuits, snack products and small components during baking, handling and selected heat-treatment processes.

2 Drive methods	**6** Listed material grades	**7** Standard specifications
CB3 / CB4 / CB5 3, 4 or 5 cross wires per coil	**4** Edge / guard configurations	**Round / Flat** Spiral wire options



OVERVIEW

Compound weave conveyor belts use alternating left-hand and right-hand spiral coils interconnected by multiple straight cross wires. Closely intermeshing coils form small openings and a flat carrying surface, providing greater support for small products than a more open mesh.

In baking, the close mesh supports biscuits and other small food products with consistent product contact. It also handles small mechanical components and selected heat-treatment duties. Heating performance depends on material, loading and process conditions.

Round or flat spiral wire and friction-driven or chain-driven configurations are available. Dense weave provides less through-belt airflow and drainage than open mesh.





FEATURES AND BENEFITS

01 Small Open Area
Dense mesh supports small items and narrow-base products. Match the openings to the smallest product dimension.

02 Material Options
Select the alloy for chemicals, cleaning, abrasion and corrosion; resistance depends on grade and operating conditions.

03 Load-Bearing Construction
Intermeshing coils and cross wires support the product. Allowable tension depends on wire size, mesh, temperature and layout.

04 High-Temperature Options
Stainless steels and nickel alloys suit selected heated processes. Confirm the working limit under actual belt load.

05 Durability and Service Life
Appropriate materials, joints, support and maintenance help resist wear and premature wire failure.

06 Consistent Support & Heating
The dense, flat surface supports consistent product contact. Heating results also depend on the oven, loading and settings.

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

MATERIALS AND APPLICATIONS

Common materials include stainless steel and high carbon steel. Grade **304** is widely used in food-processing equipment, while **316 or 316L** may be considered where the product or cleaning environment requires greater corrosion resistance. High carbon steel is used for selected dry baking-band applications.

For furnace and powder-metallurgy applications, heat-resistant grades such as **310S, 314 and nickel alloys** can be considered. Select the wire grade for the actual belt temperature, load, atmosphere and thermal cycling - oxidation, scaling, creep and wire fatigue affect service life.



METHODS OF DRIVE

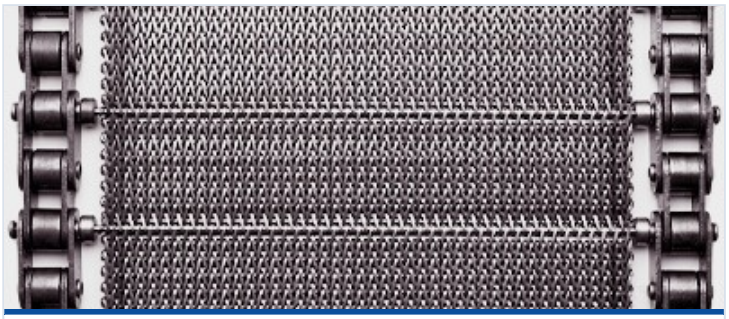
Choose friction drive or chain-edge drive to match the conveyor, load and operating conditions.



Friction Driven

A flat-faced drum drives the mesh by friction. Drum alignment, wrap angle, belt support and tension help maintain traction and tracking. Confirm the minimum drum diameter for the exact mesh.

Troubleshooting guide ›



Chain Edge Drive

Matching sprockets drive side chains attached to the mesh by cross rods. Confirm chain pitch, attachment geometry and thermal expansion together; availability depends on the mesh construction.

Troubleshooting guide ›

BELT TYPES



Round Spiral Wire Compound Weave Belt

The standard format uses round-section coil wires and cross wires. Alternating coils are closely interconnected by several cross wires to create the carrying surface.



Flat Spiral Wire Compound Weave Belt

Flattened coil wire increases the contact area for products with a small base. Specify both coil-wire cross-section dimensions; the cross wire is specified separately (e.g. CWCB-07 uses a 1.63 mm cross wire).

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

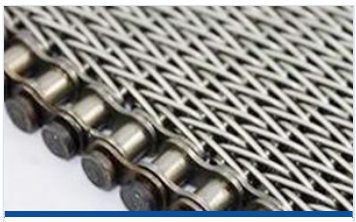
EDGE AVAILABILITY

Two basic arrangements - welded mesh edges and chain-driven edges - with side guards or folded side guards as additional containment options.



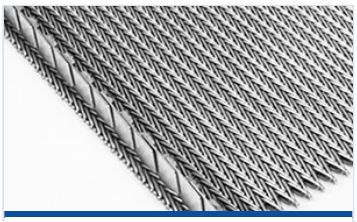
Welded Edge

Wire ends are secured by welding. Suitable for conventional friction-driven mesh configurations.



Chain Edge

Side chains and attachment rods provide positive drive. Confirm chain pitch, sprockets and attachment geometry.



Side Guard Edge

Side guards contain products at the belt edges. Match guard height and clearance to product and conveyor.



Folded Side Guard Edge

An alternative containment arrangement. Confirm bend geometry, clearances and the belt return path.

MATERIAL AVAILABILITY

Wire-material reference temperatures - not guaranteed operating limits for a loaded belt assembly.

Material	Max. Wire Operating Temp.
Carbon Steel	550°C
304 Stainless Steel	750°C
316 Stainless Steel	800°C
316L Stainless Steel	800°C
314 Stainless Steel	1120°C
Inconel 600	1150°C

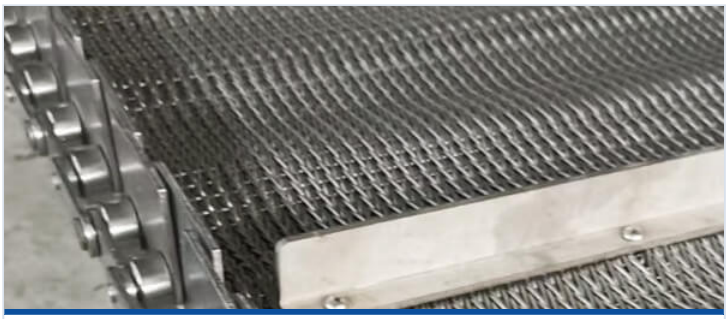
These are wire-material reference values, not guaranteed limits for a loaded belt or chain assembly. Review load, atmosphere, dwell time, thermal cycles, joints and chains. Grade 314 requires particular review for sustained exposure at 800-900°C. Other grades are available after application review.

FLIGHTS AND SIDE BAFFLES



Side Baffles and Dividers

Side guards and centre dividers support containment and separation. Specify product size, guard height, clearances and the conveyor return path.



Cross Flights

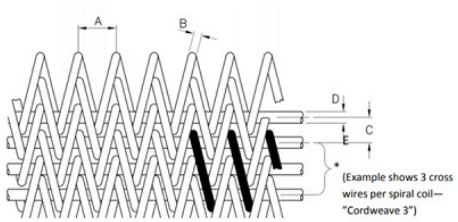
Flights can be supplied for product elevation or separation. Confirm the incline, product size, clearances and return arrangement.

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

SPECIFICATION DRAWINGS

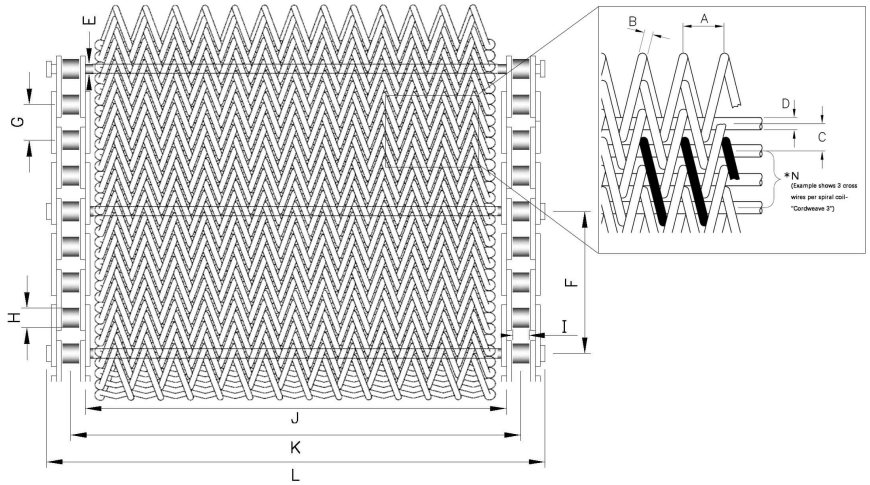
Use the labels for the matching drive arrangement. Linear dimensions are in mm; cross-wire count has no unit.

Compound Weave Belt without Chain Drive



- **A** Coil Pitch (mm)
- **B** Coil Wire Diameter (mm)
- **C** Cross Wire Pitch (mm)
- **D** Cross Wire Diameter (mm)
- **E** Cross Wires per Coil (count)

Compound Weave Belt with Chain Drive



- **A** Coil Pitch (mm)
- **B** Coil Wire Diameter (mm)
- **C** Cross Wire Pitch (mm)
- **D** Cross Wire Diameter (mm)
- **E** Cross Rod Diameter (mm)
- **F** Cross 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)
- **N** Cross Wires per Coil (count)

E means cross-wire count in the drawing without chains. In the chain-drive drawing, E means cross rod diameter and N means cross-wire count.

For A and C, measure over 10 pitches where practical and divide by 10. For flat coil wire, provide width × thickness instead of a round-wire diameter. Confirm final dimensions against an agreed drawing.

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

STANDARD SPECIFICATIONS

Item	Coil Pitch (A)	Coil Wire Dia. (B)	Cross Wire Pitch (C)	Cross Wire Dia. (D)	Cross Wires / Coil (count)
CWCB-01	5.08	1.22	3.05	1.22	3
CWCB-02	11.29	2.03	4.35	2.03	4
CWCB-03	10.16	2.03	5.08	2.64	4
CWCB-04	4.24	0.91	2.24	1.22	4
CWCB-05	8.47	1.63	3.63	1.63	4
CWCB-06	6.35	1.22	2.82	1.22	4
CWCB-07	8.71	1.60 × 1.30	3.90	1.63	5

Dimensions in mm; cross-wire count has no unit. CWCB-07 specifies flat coil wire (width × thickness); its cross wire is round, Ø1.63 mm. Custom specifications are available.

Need a replacement mesh or a custom specification?

Send mesh dimensions, cross-wire count, overall belt width and full loop length, material, edge arrangement and drum diameter. For chain-driven belts, add chain, sprocket and cross-rod details.

Request Custom Quote

Email Specifications

REPLACEMENT & QUOTATION CHECKLIST

Information to Provide	Details for PFM Review
Mesh dimensions	Coil pitch, coil-wire size, cross-wire pitch and cross-wire diameter (A-D)
Compound construction	CB3, CB4 or CB5 / measured cross wires per coil (E without chains; N with chains)
Overall dimensions	Belt width and total length; include how the length was measured
Material and surface	Material grade; round coil wire or flat coil-wire width × thickness
Edges and drive	Welded or chain edge; drum diameter, chain pitch and sprocket details
Process conditions	Product dimensions, temperature profile, atmosphere, load and speed
Supporting information	Close-up photos, an agreed drawing or an undamaged sample section

Conveyor centre distance is not total belt length. For chain-edge belts, include attachment details and a conveyor layout.

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

APPLICATIONS

Flat carrying surface with little open area - for small snack products, small components and selected bottle-annealing applications.

Food Processing and Baking

- Rice handling
- Seed drying
- Biscuits, tortillas, cookies and crackers baking
- Pasteurizing belts

Heat Treatment and Furnaces

- Heat treating of small fasteners
- Furnace curtains
- Sintering of powdered metal components
- Hardening, tempering, quenching

Industrial Handling

- Swarf conveyors
- Electro-plating
- Accumulation tables
- Glass works and electrotechnical industry

Small openings provide product support but less through-belt airflow and drainage than open mesh. Review alloy and cleaning suitability for wet processes and plating baths. Furnace curtains need suitable hanging/support arrangements. Powder-metallurgy applications refer to formed components, not retention of loose powder.



Industrial Tunnel Oven Baking Band



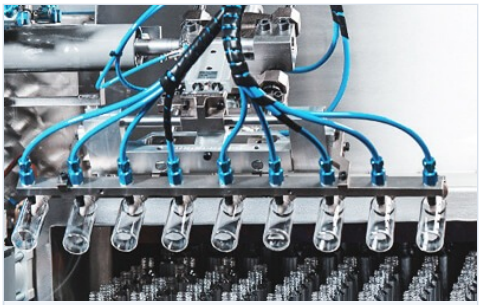
Seed and Food Drying



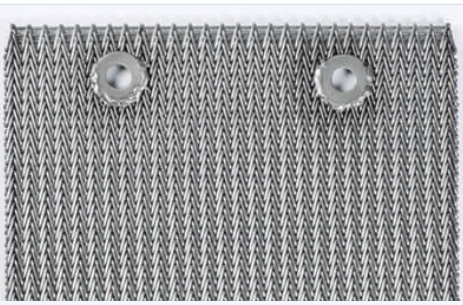
Small-Component Heat Treatment



Cookie and Cracker Baking



Annealing Furnace

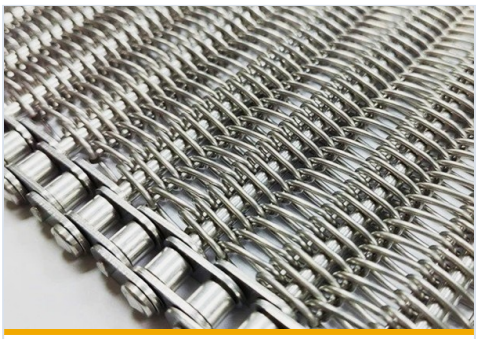


Furnace Curtain

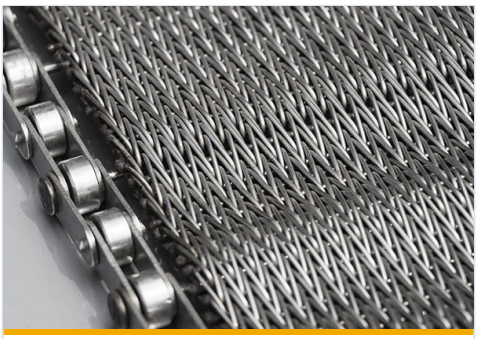
www.industrialconveyorbelt.com
wirebelt@pfmscreen.com
WhatsApp +86-153-6967-9157

OUR COMPLETE PRODUCT RANGE

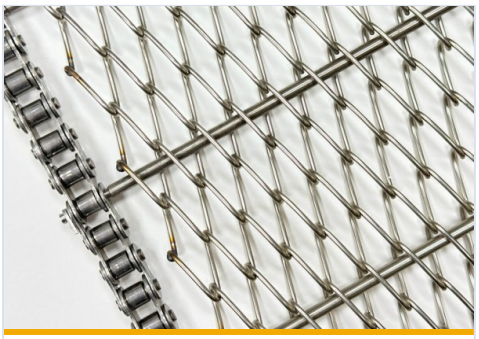
Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



03 Chain Link Conveyor Belts



04 Flat Flex & Enrober Belts



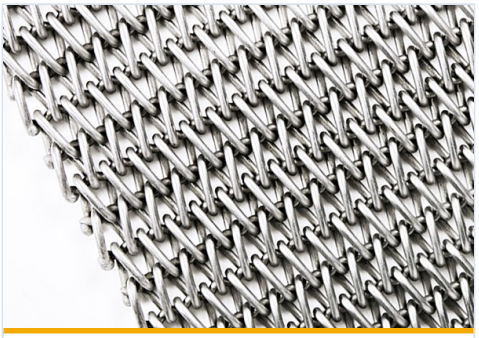
05 Eye Link & Eye Flex Belts



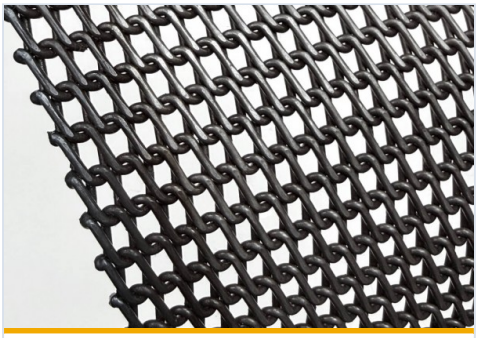
06 Honeycomb & Flat Wire Belts



07 Plate Link & Hinged Steel Belts



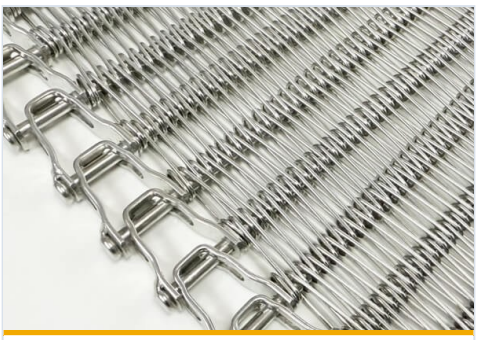
08 Wire Mesh Lehr Belts



09 Biscuit Baking Belts



10 Spiral Freezer Belts



11 Flexible Rod Conveyor Belts



12 Self-Stacking Spiral Belts



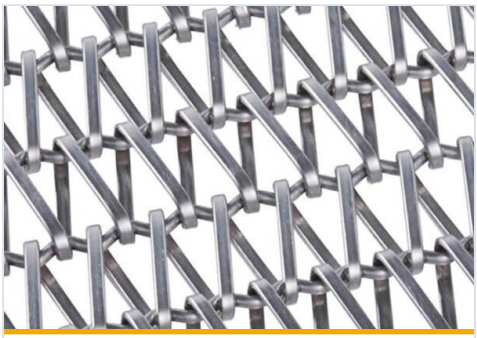
13 Edge Drive Spiral Freezer Belts



14 Ladder Conveyor Belts



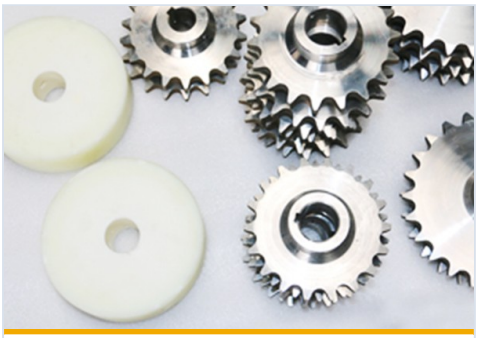
15 Woven Rod Bar Conveyor Belts



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