

METAL CONVEYOR BELTS - PRODUCT BROCHURE 2026

Chain Link Conveyor Belts

Interwoven spiral coils form an open carrying surface for drying, cooling, washing and other processing duties. Select standard, rod reinforced or duplex mesh, then specify the edge construction and friction or chain-edge drive for the product, process and conveyor.

3

Mesh constructions

4

Enquiry configurations

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Drive methods

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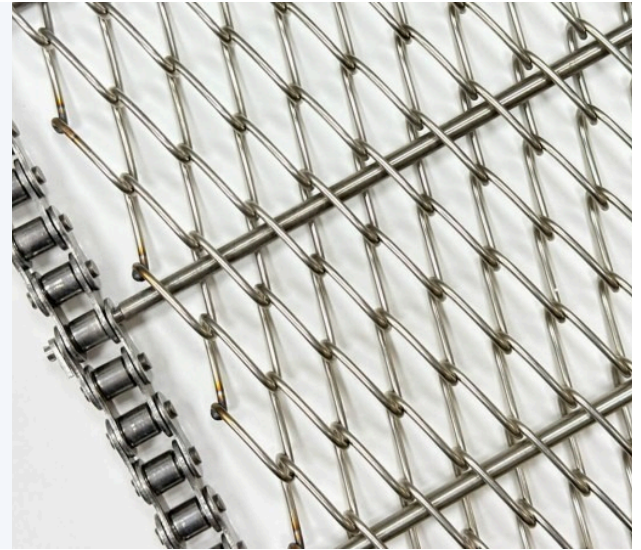
Mesh material grades

5.08-25.4 mm

Standard lateral pitch

Open mesh

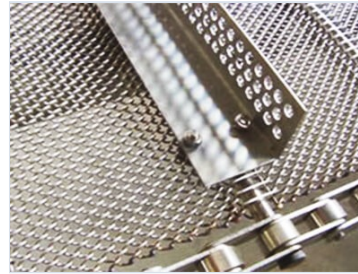
Airflow and drainage



OVERVIEW

Also called conventional weave or conventional mesh, chain link belts form an open carrying surface from interwoven spiral wires. Standard mesh suits selected low loads; rod reinforced and duplex constructions add support and lateral stability.

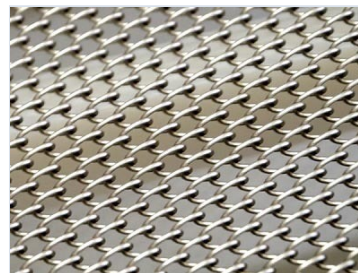
Oval or round coil forms, welded or knuckled edges, panel arrangement and joining details are selected together for the conveyor and product. Open mesh permits airflow and liquid passage; actual process performance depends on the complete installation.



COIL DIRECTION AND PANEL CONSTRUCTION

Successive coils within a standard panel have the same spiral hand. Some friction-driven belts join alternating left-hand and right-hand panels with a through wire to help counter lateral weave pull. Balanced spiral belts instead alternate the hand of individual coils.

Other chain link belts rely on the conveyor tracking system. Chain-edge assemblies have different guidance requirements. Reinforcing cross rods strengthen the mesh and are distinct from panel connector wires. Match the existing construction when replacing a belt.



FEATURES AND BENEFITS

01 Open carrying surface

Air and process liquids can pass through for suitable drying, cooling, washing and drainage duties.

02 Economical construction

Simple, lightweight mesh can be cost-effective when the product load and support requirements permit.

03 Lightweight handling

Suitable products can be conveyed or transferred on an incline after checking retention and angle.

04 Edge selection

Welded and knuckled mesh edges use different closures. Reinforced and chain-edge assemblies require matching end details.

05 Baffles and dividers

Side and centre baffles can contain or separate products; dimensions must suit clearances and return geometry.

06 Drive options

Plain mesh can use friction drive. Side chains and matching sprockets provide positive drive through the chains.

METHODS OF DRIVE



Friction Driven

A drum drives the mesh by friction. Check panel handing, drum diameter, alignment, wrap angle, traction, belt support and tension; all affect tracking.

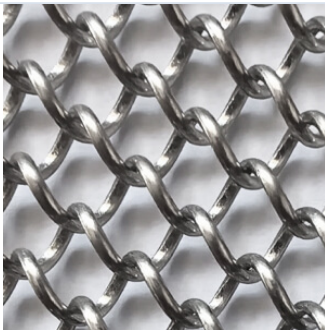


Chain Edge Drive

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

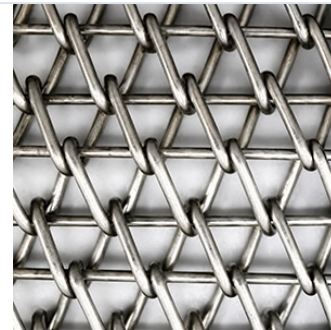
BELT TYPES

Select the construction first, then use its own dimensions and enquiry form.



1. Standard – without Chain Edge Drive

Interwoven coils without reinforcing rods at every connection, for selected low-load duties. Connector wires may still join opposite-hand panels.



2. Rod Reinforced – without Chain Edge Drive

Cross rods pass through interconnecting coils for strength and lateral stability. Capacity depends on wire sizes, pitches, material, temperature and belt support.



3. Duplex Rod Reinforced – without Chain Edge Drive

Twin intermeshing coils produce a denser mesh reinforced by cross rods. Balance added product support against reduced open area and flexibility.



4. Chain Link with Chain Edge

Carrier rods connect mesh to side chains for sprocket drive. Specify mesh construction, mesh edge, chain dimensions and rod-end fixing separately.

Use each drawing with its own legend. B and C do not mean the same thing on every belt. Dimensions are in mm; full-loop belt length is in m. Chain edge is a drive assembly, separate from the three mesh constructions.

MESH MATERIAL AVAILABILITY

Published wire-temperature reference values, not universal continuous-duty ratings for a loaded belt assembly.

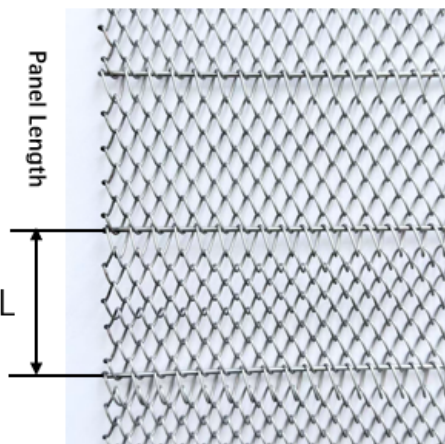
Mesh wire material	Wire reference temperature
Carbon Steel	550°C
Galvanised Mild Steel	400°C
Chrome Molybdenum (3% Chrome)	700°C
304 Stainless Steel	750°C
321 Stainless Steel	750°C
316 Stainless Steel	800°C
316L Stainless Steel	800°C
314 Stainless Steel	1120°C
37/18 Nickel Chrome	1120°C
80/20 Nickel Chrome	1150°C
Inconel 600	1150°C
Inconel 601	1150°C

Choose the grade for the conveyed product, cleaning chemicals, process atmosphere and actual belt temperature. 304 or 316 stainless steel may suit food processing and general industrial duties; high-temperature alloys require review against the specific furnace atmosphere and load.

Temperature selection: wire strength decreases at elevated temperatures. Confirm belt load, dwell time, thermal cycles and the limits of chains, joints and drive components. Grade 314 needs particular review for sustained service around 800-900°C. Confirm galvanised coating suitability for heated or food-contact duty; 400°C is not an automatic approval.

STANDARD MESH - PANEL ARRANGEMENT AND LENGTH

Panel length L



Select alternating left-hand/right-hand panels, single-hand mesh, another arrangement or "not sure". Confirm the existing construction before assigning a panel pattern.

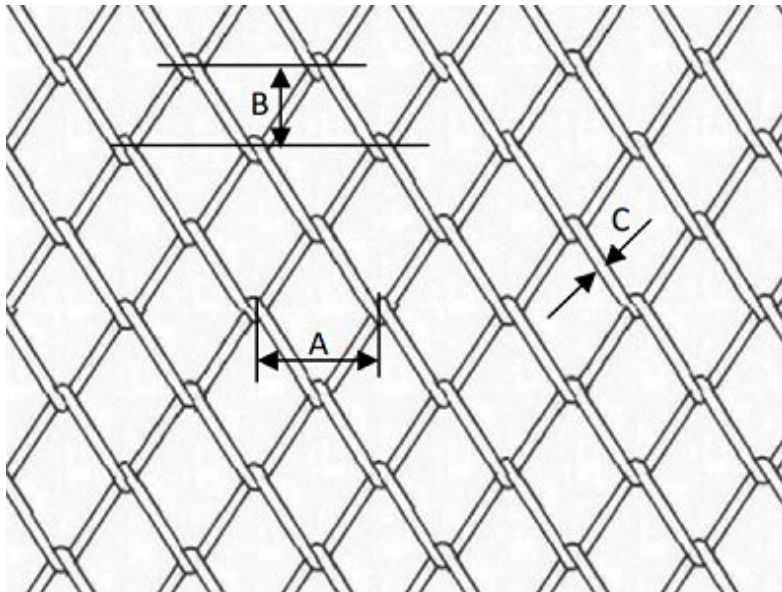
L - length of alternate-hand mesh panels (mm): record one panel length. If panels differ in length, provide a sketch showing each length and joining location.

L here is not the full-loop length and has a different meaning from L on the chain-edge drawing. A wider photo showing several panel joints helps identify the arrangement.

1. STANDARD CHAIN LINK WITHOUT CHAIN EDGE DRIVE

Interwoven coils form the mesh without reinforcing cross wires through each connection. Specify the mesh edge and panel arrangement separately; a connector wire joining opposite-hand panels does not make the belt rod reinforced.

Standard mesh dimensions



A Lateral coil pitch (mm)

B Longitudinal coil pitch (mm)

C Wire diameter (mm)

General lateral coil-pitch range: 5.08-25.4 mm. Select wire diameter and longitudinal pitch for the application; this is not a list of approved combinations.

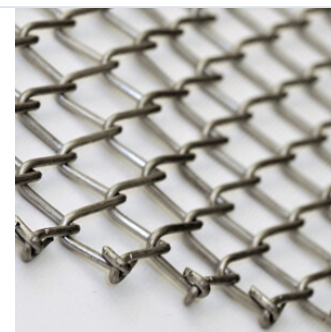
Measure A and B across 10 pitches where practical and divide by 10. Record mesh material, overall width and full-loop length separately. Include an edge photograph for replacement belts.

Mesh edge options



Welded Edge (W)

Coil ends are welded at the belt margin. This closure forms the mesh boundary; it does not add a side chain or reinforcing rod.



Knuckled Edge (K)

Coil ends fold into closed U-shaped connections with neighbouring coils. The linked returns create an articulated mesh margin without a welded edge joint.

Selection checks: For W, compare the welded joint profile, guide contact and side-frame clearance with the existing belt. For K, measure the outside envelope of the folded returns, not just the central mesh. Supply the finished overall width and show how the returns are closed.

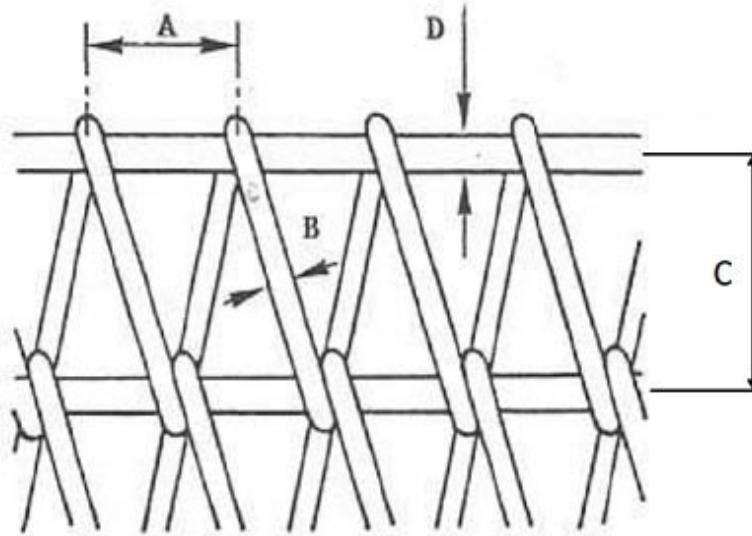
- Enquiry: mesh material/grade; overall width (mm); full-loop length (m).
- A, B, C; W or K edge; panel arrangement and panel length L where applicable.
- Conveyed product, operating temperature, belt speed, load, quantity and required delivery.

PDF Standard Chain Link without Chain Edge Drive - Enquiry Form

2. ROD REINFORCED CHAIN LINK WITHOUT CHAIN EDGE DRIVE

Cross wires run through the intermeshing coils. Coil wire and reinforcing cross wire are separate components: specify both diameters and the complete edge assembly.

Single-coil reinforced mesh dimensions



A Lateral coil pitch (mm)

B Coil wire diameter (mm)

C Longitudinal cross wire pitch (mm)

D Cross wire diameter (mm)

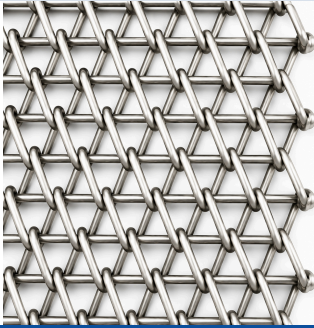
Average A and C over 10 pitches where practical. B is the coil wire diameter; D is the reinforcing cross wire diameter.

Listed specification examples (mm)

A - Lateral coil pitch	B - Coil wire diameter	C - Cross wire pitch	D - Cross wire diameter
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

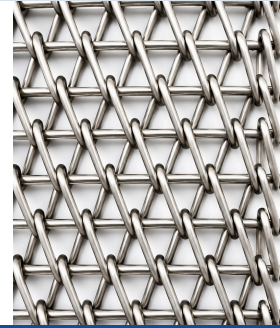
Slash-separated pitches are alternatives, not continuous ranges or approval of every combination. Confirm the exact A/C combination and B/D wire pairing on the order drawing. Custom specifications can be reviewed.

ROD REINFORCED - MESH EDGE OPTIONS



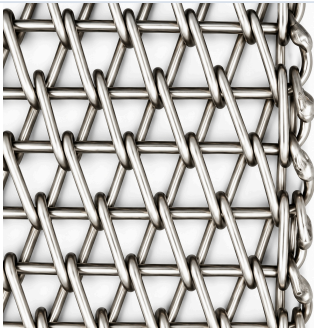
Welded - In/Out | CLR-W-IN/OUT

Alternating long and short cross rods follow the coil edge to form staggered welded connections. Show several consecutive joints and check the outermost rod-end position when specifying width and side clearance.



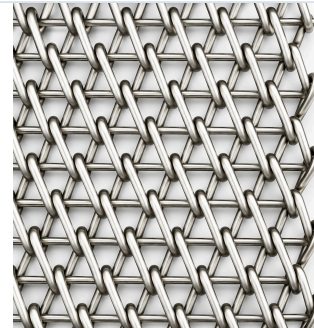
Welded - In-line | CLR-W-IN LINE

Equal-length cross rods form an aligned edge; alternate coil ends are compressed before welding. Confirm finished width and guide contact. Matching mesh dimensions alone does not identify this rod-end arrangement.



Welded - Bent pin | CLR-W-BENT PIN

Rod ends turn through 90 degrees and weld to the preceding coil. Alternate coil ends are compressed for alignment. Show the bend, weld, travel direction and available clearance around the returned end.



Knuckled - Unwelded tails | CLR-K/U

Paired U-shaped cross wires enter from alternate sides and are retained by knuckled coil ends. Tails remain unwelded. Photograph both belt edges to show U returns, insertion pattern and coil closure.

Welded knuckled tails - CLR-K/U/W: the knuckled construction with coil tails additionally welded. Specify this complete code and show the weld location. The CLR-K/U photograph above illustrates the unwelded variant, not approval of a welded tail detail.

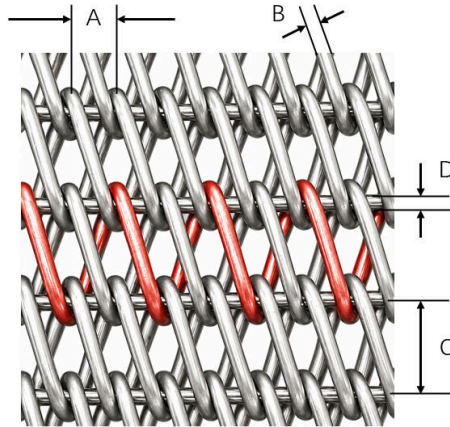
- For another edge, provide a photo or drawing. Select "not sure" if the end construction cannot be identified.
- Enquiry: coil and cross wire grades; overall width; full-loop length; A-D; full edge code; rod-end and coil-closure photos.
- Include product, temperature, belt speed, load, quantity and required delivery.

PDF Rod Reinforced Chain Link without Chain Edge Drive - Enquiry Form

3. DUPLEX ROD REINFORCED CHAIN LINK WITHOUT CHAIN EDGE DRIVE

Twin intermeshing coils at each position are reinforced by cross wires. Confirm the duplex weave as well as its dimensions: a single-coil belt is not equivalent merely because pitches and wire diameters match.

Duplex reinforced mesh dimensions | [Enquiry form \(PDF\)](#)



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

Average A and C over 10 pitches where practical. The coloured coil highlights the weave; it does not specify a different material or coloured coating.

Listed specification examples (mm)

A - Lateral coil pitch	B - Coil wire diameter	C - Cross wire pitch	D - Cross wire diameter
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

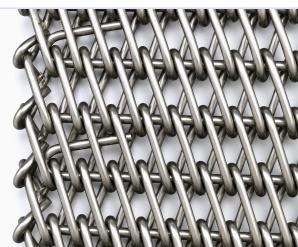
Keep each row as a listed specification relationship. 16.93 / 19.05 indicates alternative pitches, not a range. Confirm pitch, wire sizes and edge construction together; custom requirements can be reviewed.

DUPLEX - MESH EDGE OPTIONS



Welded | CLR-W-Duplex

Twin-coil tails are welded to equal-length cross wires. Confirm width at the outermost completed connection. Compare the twin-coil weave and end-joint profile as well as A-D; "welded edge" alone is incomplete.



Knuckled / Hooked | CLR-K/H-Duplex

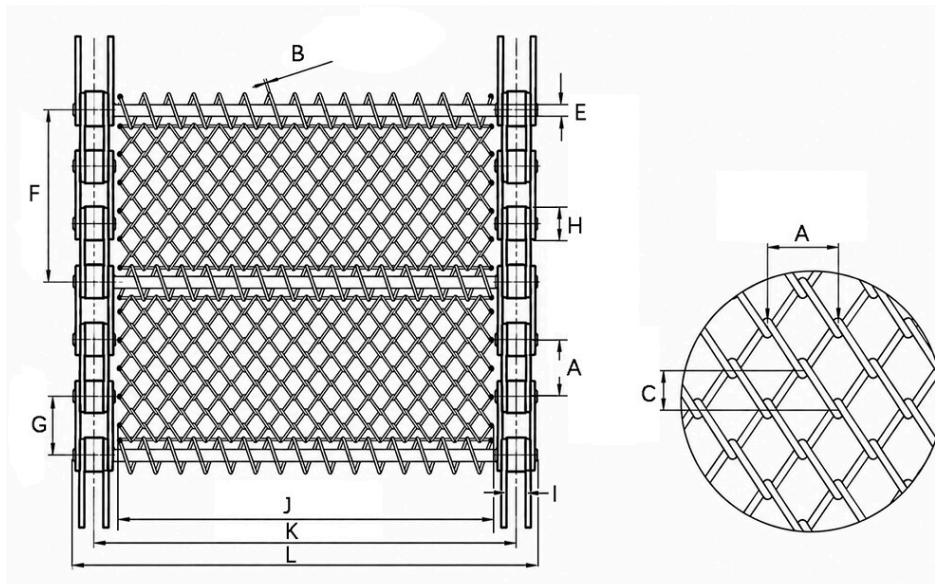
Knuckled coil pairs retain hooked cross wires inserted from alternating sides. Show hooks and coil returns on both edges. Check the complete hook envelope; this differs from a single-coil U-cross-wire edge.

- Enquiry: coil and cross wire grades; overall width; full-loop length; A-D; confirmation of the twin-coil weave and full edge code.
- Include product, temperature, belt speed, load, quantity and delivery. Supply an edge photo or drawing for another finish.

4. CHAIN LINK CONVEYOR BELT WITH CHAIN EDGE

Carrier rods connect the wire mesh to side chains, which engage matching drive sprockets. Specify mesh edge, carrier-rod end fixing and side-chain construction separately. A welded mesh edge and a welded washer describe different details.

Chain-edge assembly dimensions



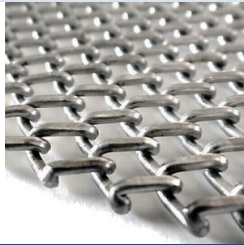
A and C refer to the enlarged mesh detail. Use G for chain pitch. The source drawing repeats A beside the chain: use the mesh-detail A. No D dimension is specified on this drawing.

Mark	Parameter	Unit
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

Average mesh pitches A and C over 10 pitches where practical. Here C is longitudinal coil pitch, not reinforcing cross-wire pitch. Confirm J, K and L separately; if usable mesh width differs from the distance between chains, record both on a sketch.

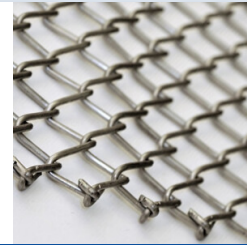
CHAIN-DRIVEN ASSEMBLY - MESH EDGE AND CHAIN EDGE

Mesh edge - the wire-mesh margin



Welded Edge (W)

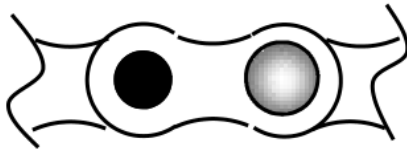
W identifies the welded coil-edge termination. Specify rod retention outside the chain separately. Photograph mesh edge and chain together; check clearance to chain plates and guards, and state mesh width separately from assembly width.



Knuckled Edge (K)

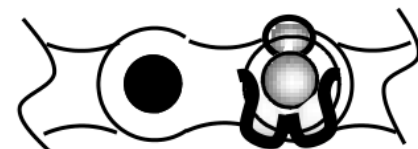
K identifies the closed folded coil returns. Show their position relative to carrier rods. State whether a larger coil is present at each carrier rod rather than assuming a uniform mesh opening throughout.

Chain edge - carrier-rod end fixing



Welded washer

A washer welded to the carrier rod outside the chain retains the assembly. Specify rod projection and side clearance. If chains must be removed later, review the disassembly method before selecting a welded closure.



Cotter pin and washer

A washer and cotter pin through a hole near the rod end provide removable retention. Allow room for the washer, pin and service access, including clearance for chain or mesh section replacement.

Welded nut / other fixing: a welded nut is an additional retention option. Specify the nut and rod-end geometry on a drawing. For another fixing, provide an end-view photo and dimensions; do not infer interchangeability from the washer illustrations. Select "not sure" when identification is uncertain.

CHAIN-DRIVEN ASSEMBLY - ENQUIRY DETAILS

Item	Details to provide
Materials	Mesh and carrier-rod grade; chain material separately. Include operating temperature and process or cleaning conditions.
Side-chain style	Hollow pin, solid pin, other or not sure. 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; K: chain centres. Include chain/sprocket markings, photos or a drawing.
Carrier rods	E: rod diameter; F: spacing; end fixing; presence of a large coil at the rod. Show the rod, mesh and chain interface.
Edge plates	Required height, material and quantity, plus a drawing showing location and attachment.
Flights	Sketch the shape, dimensions and intended arrangement.
Duty and supply	Full-loop length (m); product/process; minimum and maximum temperature (°C); speed; load; quantity; delivery and special requirements.

Match the chains, sprockets, carrier rods and conveyor supports as one assembly. For reinforced or duplex mesh with chain edges, provide both the appropriate mesh drawing and the chain details. Do not transfer letters between drawings without their definitions.

[PDF](#) Chain Link Conveyor Belt with Chain Edge - Enquiry Form



DOWNLOADS AND TECHNICAL RESOURCES

Click the form title to open the PDF. Complete only the form matching your enquiry; unknown measurements may be left blank.

PDF Quick Belt Enquiry Form

When to use it: Replacing a belt or unsure how to identify it? Share photographs, any dimensions you know and your basic requirements so we can help identify the next steps.

PDF Woven Mesh Belt New Conveyor Application Enquiry Form

When to use it: Selecting a belt for new equipment? Describe the conveyed product, process, conveyor layout and operating conditions so we can review a suitable mesh and drive arrangement.

PDF Standard Chain Link without Chain Edge Drive - Enquiry Form

When to use it: For standard chain link mesh without reinforcing cross rods or side-chain drive. Record dimensions A-C, material, belt size, welded or knuckled edges, and panel arrangement or panel length where applicable.

PDF Rod Reinforced Chain Link without Chain Edge Drive - Enquiry Form

When to use it: For single-coil chain link mesh reinforced with cross wires, without side-chain drive. Provide dimensions A-D, material, belt size and the required welded or knuckled edge construction.

PDF Duplex Rod Reinforced Chain Link without Chain Edge Drive - Enquiry Form

When to use it: For twin-coil, rod-reinforced chain link mesh without side-chain drive. Specify dimensions A-D, material, belt size, and welded or knuckled/hooked edges. Include a close-up of the weave if available.

PDF Chain Link Conveyor Belt with Chain Edge - Enquiry Form

When to use it: For a chain link mesh belt driven by side chains. Provide mesh and chain dimensions, carrier-rod details and belt widths. Identify the mesh edge and carrier-rod end fixing separately; complete both pages where possible.

WEB Latest product specifications and downloads

PDF PFM SCREEN Conveyor Belt Product Catalogue

Ready to request a belt quotation?

Send the completed form with full-width belt photos, both edges, panel joints, dimensions, operating conditions, quantity and required delivery. Unknown dimensions can be left blank.

[Request Quote](#)

[Email Form or Photos](#)

APPLICATIONS

Match product support, load, alloy, edge construction and drive to the complete process.

01 Drying ovens

Food, ceramic components and industrial parts. Check smallest product dimension, airflow, belt temperature, load and speed.

02 Cooling, freezers and refrigeration

Select mesh support and material for low-temperature conveying and the freezing method. Suitable straight tunnels require review; mesh alone does not establish spiral-freezer compatibility.

03 Frying facilities

Openings allow process oil to pass through and drain. Select wire grade, product support and cleaning method for the food process.

04 Cleaning and washing

Liquids can reach conveyed food products or industrial components. Match alloy to wash/rinse chemistry, temperature and loading.

05 Ovens, annealing and heat treatment

Consider heat-resistant alloy and reinforcement after reviewing belt temperature, atmosphere, load, dwell time and heating/cooling cycles.

06 General product conveying

Lightweight transfer can use open mesh; reinforcement and duplex weave add support options. Check product retention, incline, belt guides and throughput.

APPLICATION GALLERY



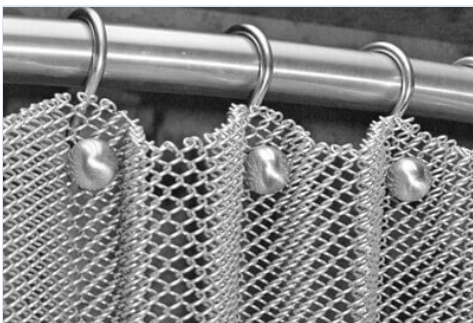
Frying facilities



Product conveying



Washing applications



Mesh curtain



Cigarette factory



Heat treatment

Mesh curtains require a duty-specific attachment and clearance design. Open mesh alone does not establish suitability as a safety barrier. For any application, specify product dimensions and weight, process temperature, belt speed, load, required throughput and cleaning method.

FREQUENTLY ASKED QUESTIONS

Q1 How do I choose the construction?

Start with product size, weight, load and support. Standard mesh serves selected low loads; reinforcing rods add stability and duplex coils provide denser support. Chain edge describes a drive assembly. Confirm capacity for the chosen dimensions, material, temperature and conveyor.

Q3 Are welded and knuckled edges interchangeable?

Do not assume so. Closure geometry, rod-end pattern, overall width and guide clearance vary by construction. Supply the full edge code and photos of both edges. Chain-edge rod retention is a separate selection.

Q5 What if dimensions or edge codes are unknown?

Use the Quick Belt Enquiry Form with full-width photos, close-ups of mesh and both edges, and basic duty information. Leave unknown measurements blank. For new equipment, use the application form and provide a layout sketch.

Q2 Does chain link mean chain drive?

No. Plain mesh may be driven by friction from a drum. A chain-edge assembly has side chains engaged by sprockets and connected to the mesh by carrier rods. Specify the drive arrangement independently of the mesh name.

Q4 Can I use a listed wire temperature as a belt rating?

No. The figures are wire-material references. Load, dwell time, atmosphere, thermal cycles, belt tension and chain/joint/drive limits can require a lower service temperature. Confirm the full operating profile and material documentation.

Q6 Is belt length the shaft centre distance?

No. Give the full-loop belt length, including the return path, in metres. Panel length L is separate, and chain-edge L means overall width. Provide a conveyor layout when full-loop length is unknown.

CHAIN LINK AND BALANCED SPIRAL - SELECTION COMPARISON

Feature	Chain link	Balanced spiral
Coil direction	Same-hand coils within a panel; opposite-hand panels may alternate.	Alternating left-hand and right-hand coils.
Product support / load	Standard mesh suits selected low loads; rods and duplex coils add support.	Selected constructions suit higher loads; verify the actual rating.
Tracking	Depends on panel handing, alignment, guides and drive.	Balanced coil forces help; alignment and tension still matter.
Pitch selection	Standard lateral pitch: 5.08-25.4 mm; reinforced specifications differ.	Multiple pitch/wire combinations; select for product support.
Cost and duty	Simple open mesh can be economical for drying, cooling, frying and washing.	Compare actual material, mesh, dimensions and service requirements.

Compare complete belt specifications rather than names alone. Compound weave offers a denser surface for small-product support and selected baking or thermal processes; it is not automatically the correct choice for every heavy load or high speed.

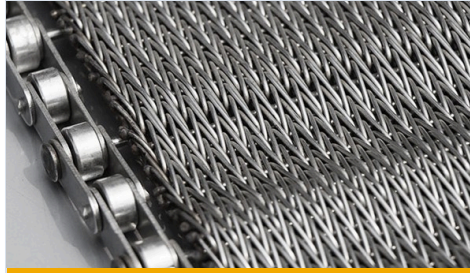
Technical review: product information checked on 13 October 2026. Listed dimensions and temperatures are selection references; confirm the final construction, tolerances, edge details and operating conditions on the agreed order drawing.

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



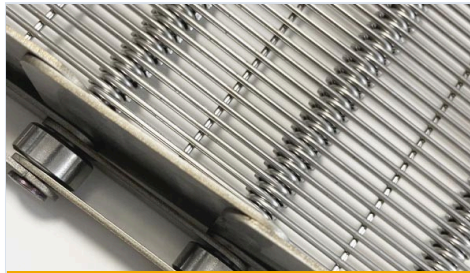
02 Compound Weave Belts



03 Chain Link Conveyor Belts



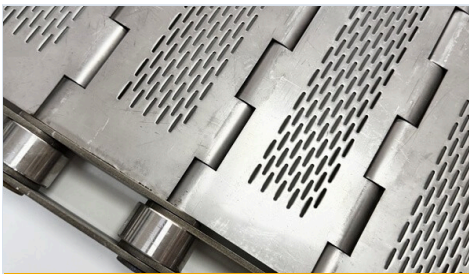
04 Flat Flex & Enrober Belts



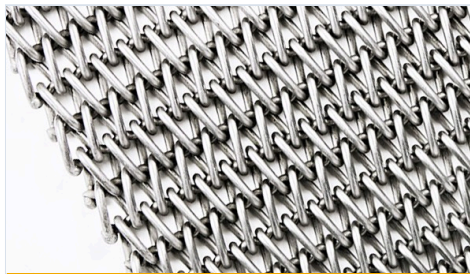
05 Eye Link & Eye Flex Belts



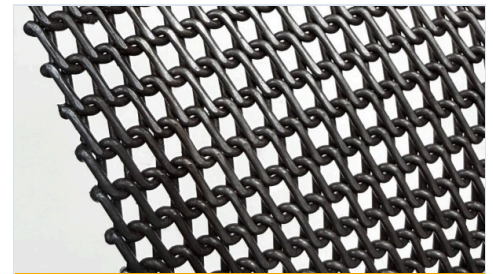
06 Honeycomb & Flat Wire Belts



07 Plate Link & Hinged Steel Belts



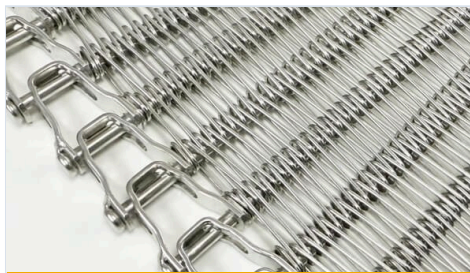
08 Wire Mesh Lehr Belts



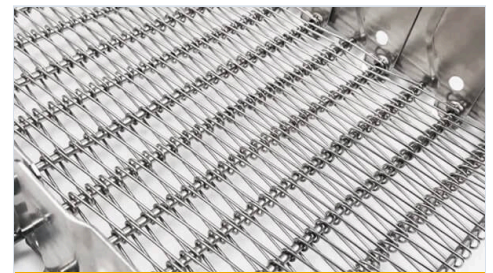
09 Biscuit Baking Belts



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 initial response to product and quotation enquiries

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

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Address Industrial Park Zone of South, Anping County, Hebei Province, China 053600

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WhatsApp +86-189-3167-2095



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