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METAL CONVEYOR BELTS · PRODUCT DATA SHEET

Plate Link & Hinged Steel Conveyor Belts

Hinged metal plates and side-chain drive provide a durable carrying surface for parts, chips and industrial products. PFM SCREEN supplies conventional or flat tops, solid or perforated surfaces, and selected side plates and flights matched to the conveyor.

2 Top profiles	**3** Surface options	**30** Listed size combinations
3 Standard material options	**Chain Drive** Matched sprockets	**Custom** Widths and accessories



OVERVIEW

Metal plates are joined by hinge rods and driven through side chains. Solid plates provide product support; perforations allow drainage and airflow. The assembled belt is not liquid-tight.

Plate thickness, rods, chains and support are selected together. Rod-end fastenings and matching sprockets must suit the complete belt assembly.





FEATURES AND BENEFITS

01 Robust Surface
Supports suitable parts, presswork, castings and machining waste.

02 Positive Drive
Side chains engage matching sprockets; alignment and take-up remain important.

03 Drainage Options
Hole pattern and open area balance process flow, product retention and plate strength.

04 Product Containment
Side plates help retain products; review overlap and return clearances.

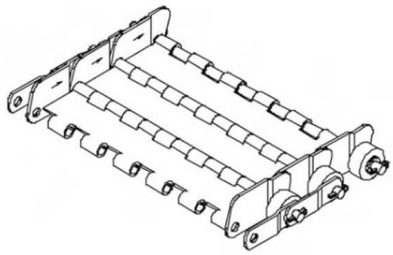
05 Flights and Baffles
Help separate or elevate material when matched to the product and incline.

06 Maintainable Assembly
Hinge rods and retainers may permit section replacement when accessible.

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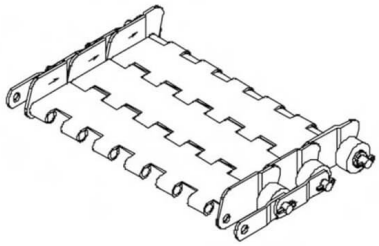
01 TOP PROFILE AND PLATE SURFACE

1.1 Belt top profile



Conventional Top

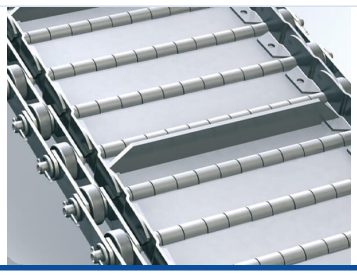
Hinge loops rise above the plates. Select for general conveying and review product interaction with the raised hinges.



Flat Top

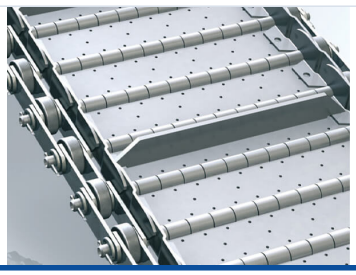
Hinge loops sit below the carrying face, reducing raised obstructions across joints for suitable small parts.

1.2 Plate surface options



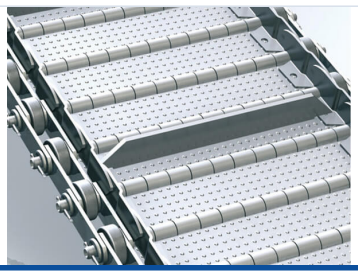
Smooth

Unembossed solid plate face for product support without through-plate drainage.



Perforated

Holes allow drainage and airflow for washing, cooling and drying.

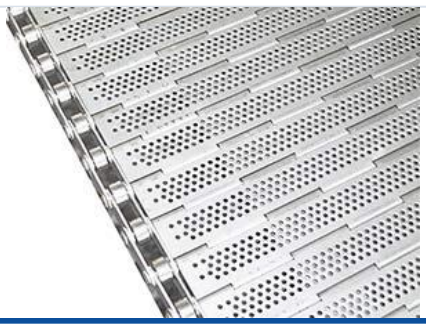


Dimpled

Embossed texture can help reduce adhesion of oily parts or scrap; perforations may be combined.

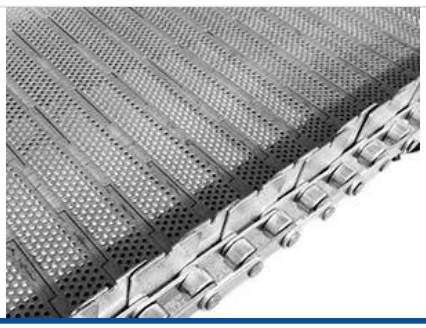
Top profile describes hinge position. Surface finish describes the plate face. Confirm the required combination for the selected construction.

1.3 Chain-edge arrangements



Standard Chain Edge

Side chains engage matching sprockets to drive the belt.



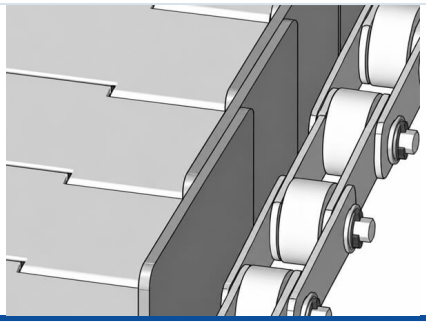
Chain Edge with Side Plates

Retaining plates along the sides help contain material on the carrying surface.

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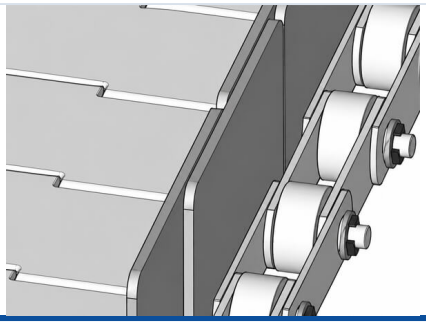
02 SIDE PLATES, MOUNTING AND FLIGHTS

2.1 Side-plate overlap types



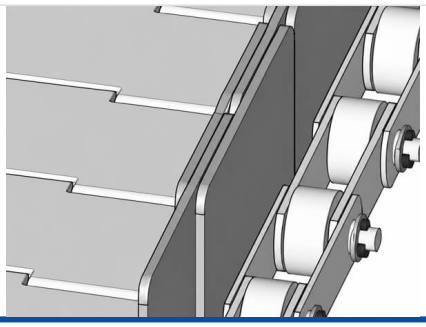
Single Overlap

Adjacent side plates overlap in one row, typically on the cross rods.



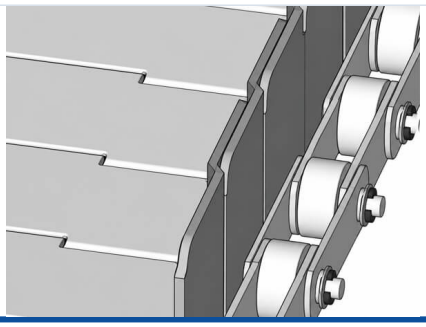
Single Overlap - In/Out

Side plates alternate inside and outside to form the overlapping edge.



Double Overlap

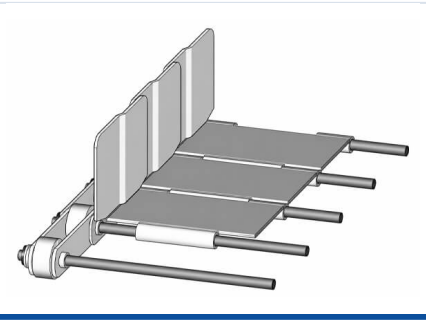
Inner and outer plate layers have staggered joints, forming a double-layer retaining edge.



Cranked / Joggled

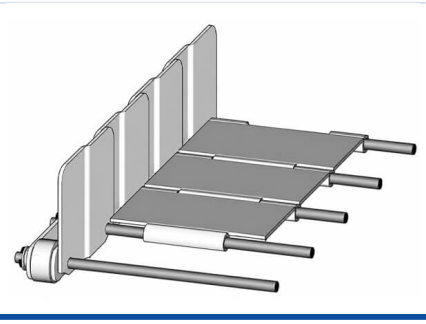
An offset bend allows adjacent plates to overlap. Match the illustrated geometry.

2.2 Mounting arrangements



Side Plate on Slat

Plate attached to the conveyor slat. Specify mounting with the chosen overlap type.



Side Plate on Rod

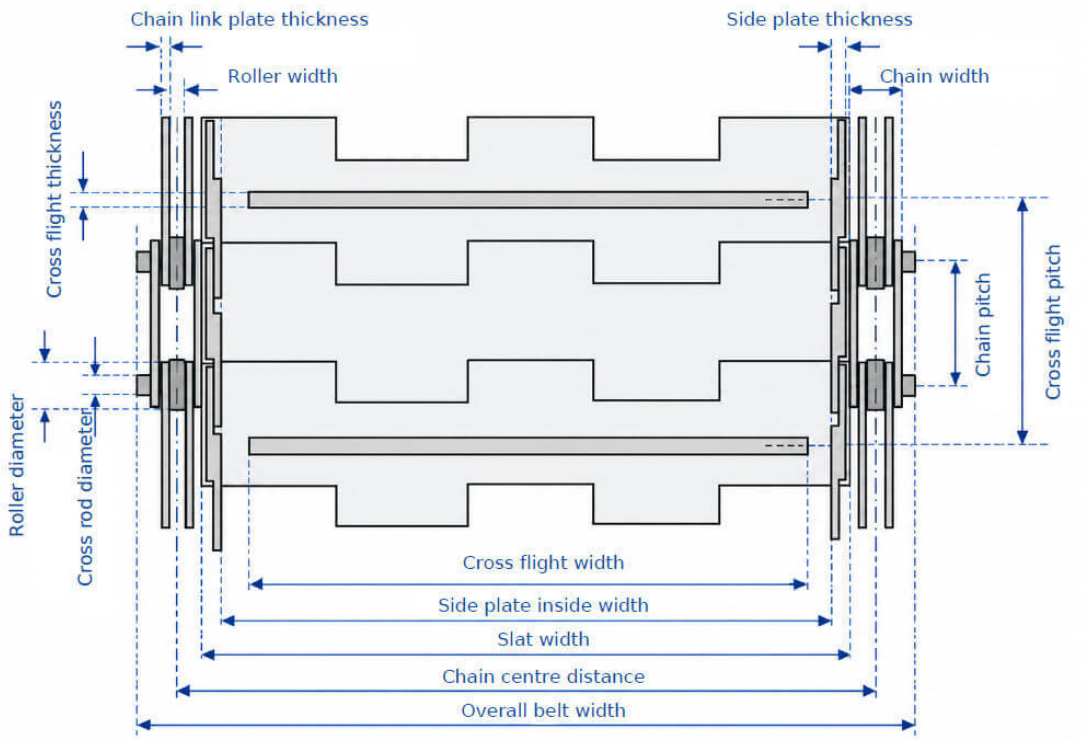
Plate mounted on the cross rod. Confirm articulation and conveyor clearances.

2.3 Flights and baffles

Cross flights help separate products or retain material on an incline. Specify flight height, thickness, working width and repeat pitch; check loading, discharge and return bends.

03 DIMENSIONS AND MEASUREMENT

3.1 Named belt dimensions



3.2 Belt widths and length

Dimension	Measurement definition
Overall belt width	Outermost width of the complete assembly, including projecting rod ends or retainers.
Slat width	Transverse width of the slat itself; record separately from overall width.
Side plate inside width	Clear distance between the inner faces of the two side plates, if fitted.
Chain centre distance	Centre line of one side chain to the centre line of the other.
Full-loop length (m)	Complete belt circuit, including carry and return. It is not conveyor shaft centre distance.

Use actual measurements or the approved drawing; do not scale the illustration.

Standard plate-link / hinged-steel belts generally require intermediate support. A separate slat construction may span without it; confirm support for the specific width, load and design.

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03 DIMENSIONS AND MEASUREMENT - CONTINUED

3.3 Chains, plates and accessories

Parameter	Measurement definition
Chain pitch	Centre-to-centre distance between adjacent chain pins. Include chain series or markings.
Roller diameter / width	Outside diameter and axial width of the chain roller.
Chain plate thickness / height	Thickness of one link plate and its height in side view.
Chain width	Outside faces of the outer link plates of ONE chain. Excludes projecting pins, rods, washers and retainers.
Plate thickness	Flat slat material only, excluding formed hinges, dimples and welds.
Cross-rod diameter	Rod passing through the assembly; not the roller diameter.
Side plate thickness / height	Plate material thickness; height above carrying surface. Identify overlap and mounting.
Flight width / pitch	Length across the belt; centre-to-centre spacing along travel.
Flight thickness / height	Material thickness; height above carrying surface.
Perforation details	Hole or slot dimensions, pitch, pattern and open area if known.

All dimensions in mm unless stated otherwise. Heights require a side view or direct measurement.

3.4 Materials and operating conditions

Material	Typical selection focus
Carbon Steel	Suitable dry industrial conveying; review moisture, coolant and corrosion.
AISI 304	Suitable washing or food processes with appropriate finish and cleaning.
AISI 316	Greater corrosion resistance in selected environments; review chemical concentration and temperature.

The published -30°C to +600°C range and approximately 120 m/min speed reference apply across suitable configurations, not every belt. Confirm the complete assembly, lubrication, support and drive.

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04 LISTED SIZE COMBINATIONS

Item	Chain Pitch (mm)	Rod Diameter (mm)	Plate Thickness (mm)
PLCB-01	25.40	5.00	1.00
PLCB-02	25.40	6.00	1.00
PLCB-03	25.40	6.00	1.50
PLCB-04	31.75	6.00	1.00
PLCB-05	31.75	6.00	1.50
PLCB-06	31.75	8.00	2.00
PLCB-07	38.10	6.00	1.00
PLCB-08	38.10	6.00	1.50
PLCB-09	38.10	8.00	1.00
PLCB-10	38.10	8.00	1.50
PLCB-11	38.10	8.00	2.00
PLCB-12	50.80	6.00	1.20
PLCB-13	50.80	8.00	1.00
PLCB-14	50.80	8.00	1.50
PLCB-15	50.80	10.00	2.00
PLCB-16	50.80	10.00	3.00
PLCB-17	63.50	10.00	2.00
PLCB-18	63.50	10.00	1.50
PLCB-19	63.50	10.00	3.00
PLCB-20	80.00	8.00	1.50
PLCB-21	80.00	8.00	2.00
PLCB-22	80.00	10.00	2.00
PLCB-23	80.00	10.00	2.50
PLCB-24	100.00	10.00	1.50
PLCB-25	100.00	10.00	2.00
PLCB-26	100.00	14.00	2.00
PLCB-27	100.00	14.00	3.00
PLCB-28	101.60	10.00	4.00
PLCB-29	106.60	14.00	4.00
PLCB-30	125.00	20.00	3.00

Each row is one listed combination. Width, load capacity and sprocket compatibility require separate confirmation.

Match the entire chain-driven assembly

Send chain series, roller and attachment geometry, chain centres, widths, end retainers and sprocket photographs. Matching pitch alone is insufficient.

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Email Specifications

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05 INDUSTRIAL APPLICATIONS


Waste Treatment


Inclined Conveying


Product Transport


Sorting


Cooling


Washing

5.1 CNC machining and chip removal

Hinged steel belts carry suitable chips, turnings and machining waste from the work zone to collection. Match pitch, width, hinge geometry and discharge arrangement to the machine.

Fine swarf, long stringy chips, hot products and heavy impacts need a specific application review. Perforated plates support washing, drainage, cooling and drying when openings suit the product.



Select the carrying surface and accessories

Send product size, throughput, load, temperature, liquids or airflow requirements and conveyor incline. Photos help confirm plates, chains and support.

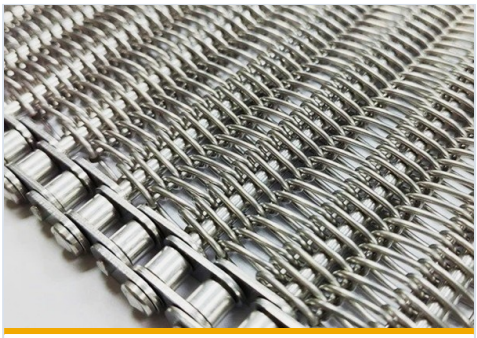
Request Custom Quote

Email Specifications

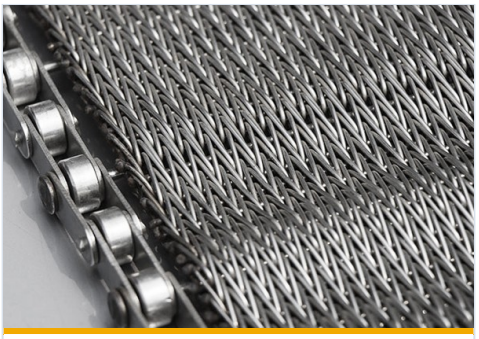
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OUR COMPLETE PRODUCT RANGE

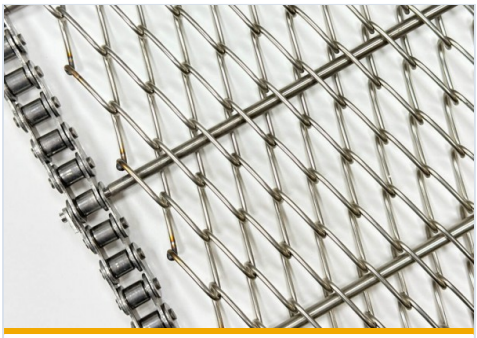
Factory-direct metal conveyor belts and matched drive components — click any product to view full specifications online.



01 Balanced Spiral Woven Belts



02 Compound Weave Belts



03 Chain Link Conveyor Belts



04 Flat Flex & Enrober Belts



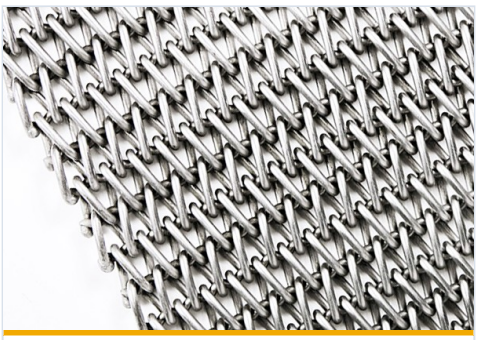
05 Eye Link & Eye Flex Belts



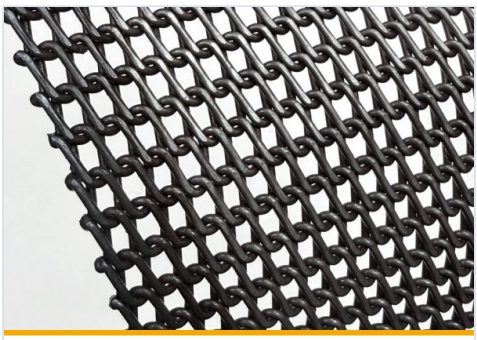
06 Honeycomb & Flat Wire Belts



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



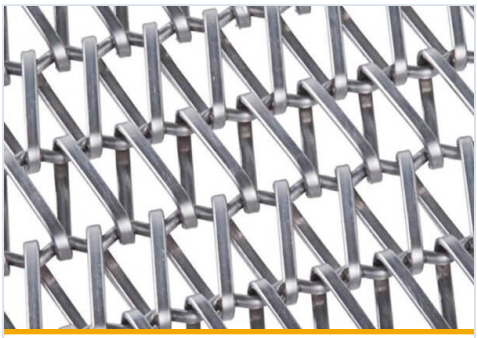
13 Edge Drive Spiral Freezer Belts



14 Ladder Conveyor Belts



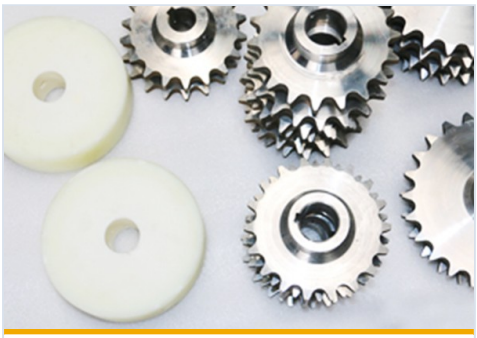
15 Woven Rod Bar Conveyor Belts



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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INTERNATIONAL SALES & ENQUIRIES

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