



Tegman (PTY) LTD

WIRE BELTS & COMPONENTS

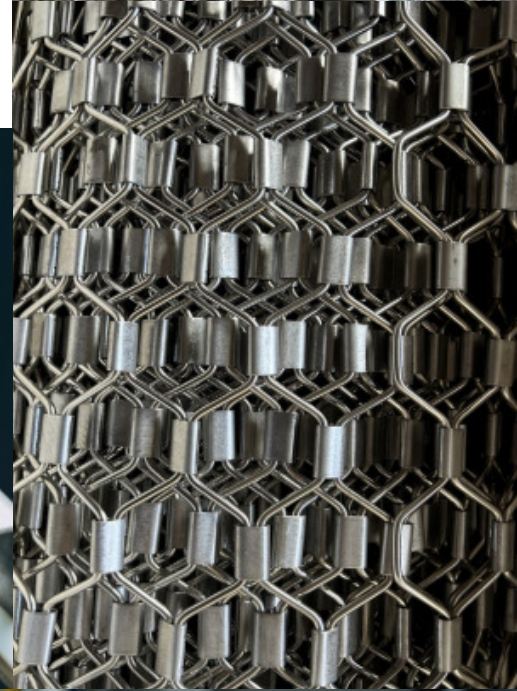


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WIRE BELTS:

(LISTED - BUT NOT LIMITED TO THE FOLLOWING)

- Balance Weave Mesh Belt
- Rod Ladder Belt
- Ladder Belt / Flat Flex / Enrober
- Honeycomb Belt
- Spiral Freezer Belt
- Spiral Freezer Link Belt
- Eyelink Belt
- Plate Belt
- Chain Link Belt
- Hex Mesh Belt
- Cord Weave Belt
- Pasteuriser Belt / Bottle Washing Belt
- Drive Components



Balance Weave Mesh Belt

The Balanced Weave Mesh Belt is a highly favoured design that is used in various manufacturing sectors due to its smooth operation, strength to weight ratio, and a wide range of mesh specifications to meet specific requirements. Balance Weave Belts come in Round or Flat Spiral Wire Types

Applications:

- ✓ Cooking
- ✓ Heating
- ✓ Cooling
- ✓ Coating
- ✓ Drainage
- ✓ Baking
- ✓ Curing
- ✓ Shrink Wrapping
- ✓ Elevating
- ✓ Cladding
- ✓ Bottle Washing
- ✓ Pasteurising

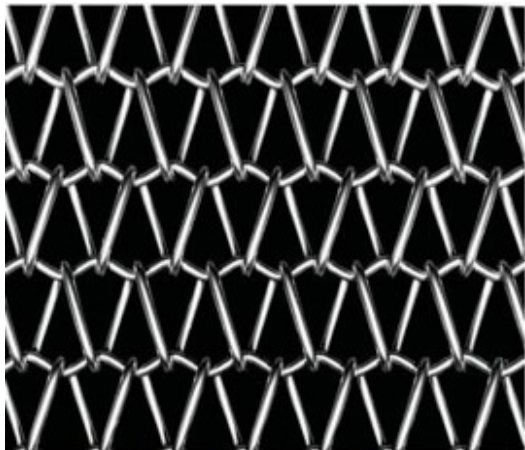
Types of Balance Weave:

- Flat Wire Crimped Cross Rod
- Round Wire Crimped Cross Rod
- Flat Wire Straight Cross Rod
- Round Wire Straight Cross Rod
- Balance Weave with Chain
- Double Balanced Weave Type



Advantages

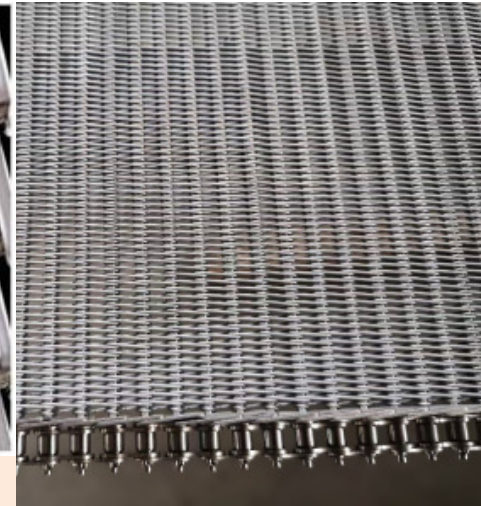
The Balance Weave Mesh Belt features a simple and effective design with alternating left and right spiral coils held in place by connecting crimp rods. It offers excellent tracking properties and minimal lateral movement. The belt can be provided with welded or knuckled selvage edges and is suitable for various drive options, such as friction-drive, Positive-Drive, and chain edges for high-load applications. Additional options include cross-flights, side plates, and double balanced spiral belting for high-load applications and narrower apertures.



Round Wire Crimped Cross Rod Type



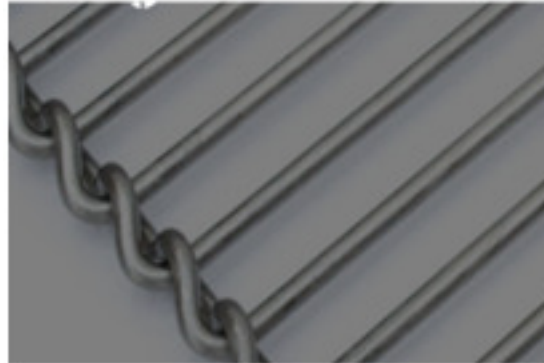
Flat Wire Crimped Cross Rod Type



R o d L a d d e r B e l t

Maximise efficiency, and minimise maintenance.

The Rod Ladder Belt is a simple but effective conveyor belt style commonly found in bakeries. Its open design allows for efficient operation with minimal maintenance and easy cleaning.



Applications:

- ✓ Transport
- ✓ Cooking
- ✓ Heating
- ✓ Drying
- ✓ Cooling
- ✓ Drainage
- ✓ Freezing
- ✓ Washing
- ✓ Inspection
- ✓ Packaging
- ✓ De-Elevating
- ✓ Turning
- ✓ Filling



Advantages

The Rod Ladder Belt is a sprocket-driven belt used in straight-running tasks. It's lightweight, cost-effective.

It provides a flat, even surface for gentle product handling and comes with high-tensile rods that ensure a positive drive to prevent tracking issues. The belt also features smooth edges for easy movement around radial bends and offers U-bar filler rods to enhance product support. Its simple open construction allows for easy belt assembly and disassembly.

Ladder Belt / Flat Flex / Enrober

The Ladder Belt provides extra strength and support for demanding, medium-duty applications. Its design enhances strength and allows for better distribution of product weight, reducing metal fatigue and extending the belt's life, and offers a high open area to assist with drainage and dispersion of liquids.

Applications:

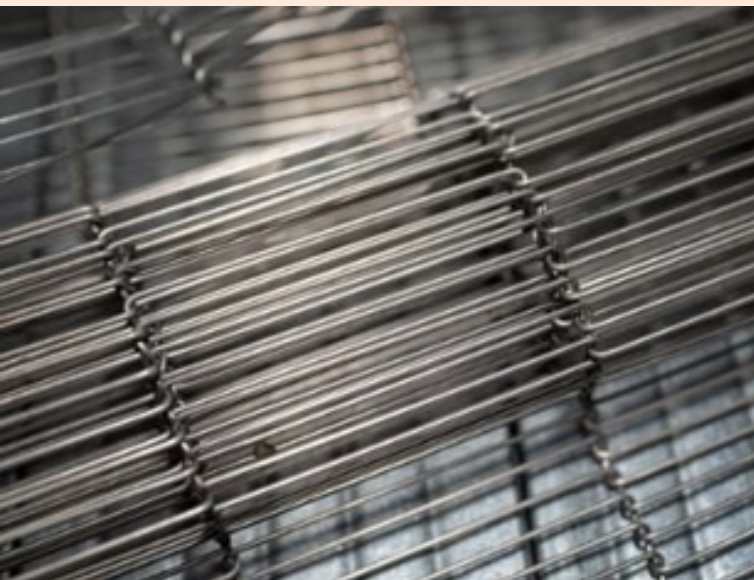
- ✓ Transport
- ✓ Cooking
- ✓ Heating
- ✓ Drying
- ✓ Cooling
- ✓ Drainage
- ✓ Freezing
- ✓ Enrobing
- ✓ Frying
- ✓ Baking
- ✓ Dough Rolling
- ✓ Battering
- ✓ Breeding
- ✓ Dewatering
- ✓ Shrink Wrapping
- ✓ Forming
- ✓ Elevating
- ✓ De-Elevating



Advantages

These belts last over 2X longer than standard belts.

They have more joints, up to 90% belt strength increase, clean-in-place wash down design, up to 78% open area for maximum air/liquid flow, and a smooth carrying surface to minimize product damage.



Honeycomb Belt

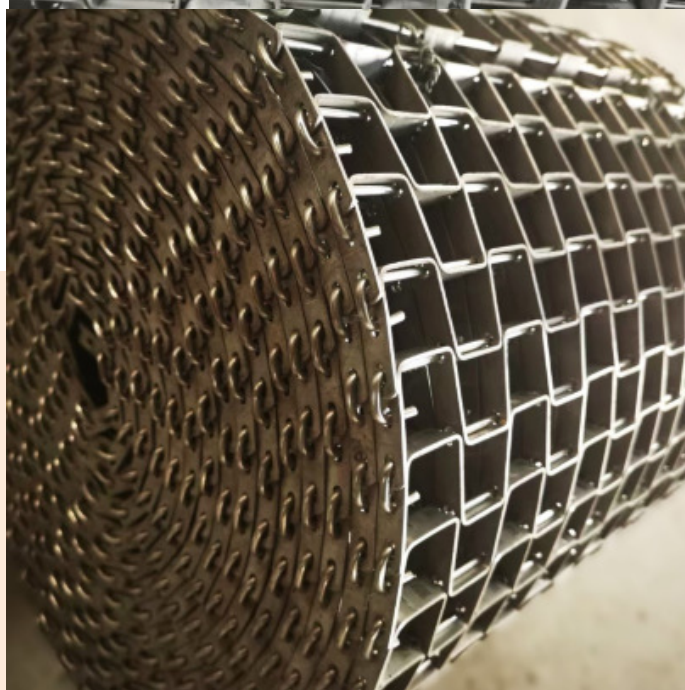
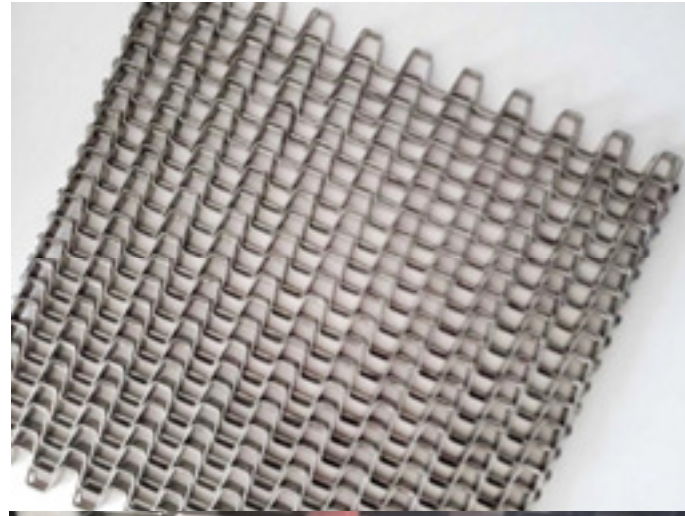
Flat Wire belting, also referred to as Honeycomb, is a perfect option for applications needing both a durable and open belt design, while still having a flat carrying surface. Its excellent strength-to-weight ratio also makes it a favoured option for customers looking to enhance their energy efficiency.

Applications:

- ✓ Transport
- ✓ Cooking
- ✓ Heating
- ✓ Drying
- ✓ Cooling
- ✓ Drainage
- ✓ Freezing
- ✓ Baking
- ✓ Washing
- ✓ Weed Clearing
- ✓ Turf Cutting
- ✓ Reading
- ✓ Packaging
- ✓ Sorting
- ✓ Recycling
- ✓ Elevating
- ✓ De-Elevating
- ✓ Loading
- ✓ Harvesting
- ✓ Canning
- ✓ Pasteurizing
- ✓ Painting
- ✓ Assembly
- ✓ Proofing

Advantages




Honeycomb belting is a strong, lightweight belt with high strength-to-weight ratio. It's suitable for processes like washing, drying, cooling, and cooking due to its large open area, quick drainage, and free air circulation. The belt is made from flat wire strips connected by cross rods and features a positive sprocket drive.

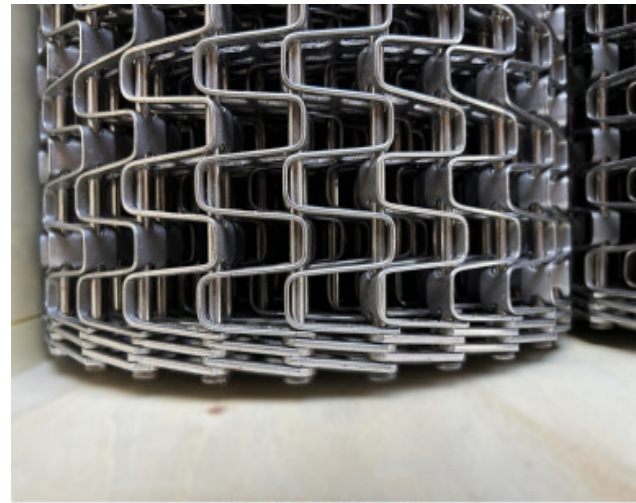


Spiral Freezer LINK Belt (HONEYCOMB WEAVE)

The Tegman's Spiral Freezer Link Belt is a top-tier belt that is an evolution of the straight-running Honeycomb Belt. It is constructed from heavy-duty flat wire, which results in a strong, flat surface area that is incredibly durable. The belt features a new slotted design, replacing the previous holes, which enables it to flex and collapse on either side, allowing for both left and right-hand turns. This design improvement enhances the versatility and effectiveness of the belt, making it an excellent choice for a wide range of applications.

Belting Options:

	PURPOSE	AVAILABLE
 BAR LINKS	✓ Assembled onto belt edges to carry belt tension	<ul style="list-style-type: none"> • Heavy Duty • Double Row • One or Both edge of belt Height above conveying surface: <ul style="list-style-type: none"> ✓ 0.50 inch (12.7 mm) ✓ 0.75 inch (19.1 mm) ✓ 1.00 inch (25.4 mm) ✓ 1.50 inch (38.1 mm) ✓ 2.00 inch (50.8 mm) Max. number of lane divider = Belt Width/9 inches (228.6 mm)
 GUARD EDGES	✓ Plates assembled onto belt edges to prevent product from falling off. Replace one bare link, if present	
 LANE DIVIDERS	✓ Detachable plates assembled onto belt's width to locate product	



DIRECTION



SPIRAL



MULTI



TURN-CURVE



STRAIGHT RUN

APPLICATIONS



FREEZER



SMOKER



COOLER



COOKER



DRYER



FRYER



PROOFER



BLANCHER



PACKAGING

Advantages:

The Tegman Spiral Freezer Link-Belt is equipped with two rows of side links as a standard feature, which adds strength, making it well-suited for turn belts. This belt is designed to be versatile, capable of multi-turn or straight running, which helps to minimize the need for multiple belts and conveyors. It provides maximum open area, facilitating even spray and reducing deflection.

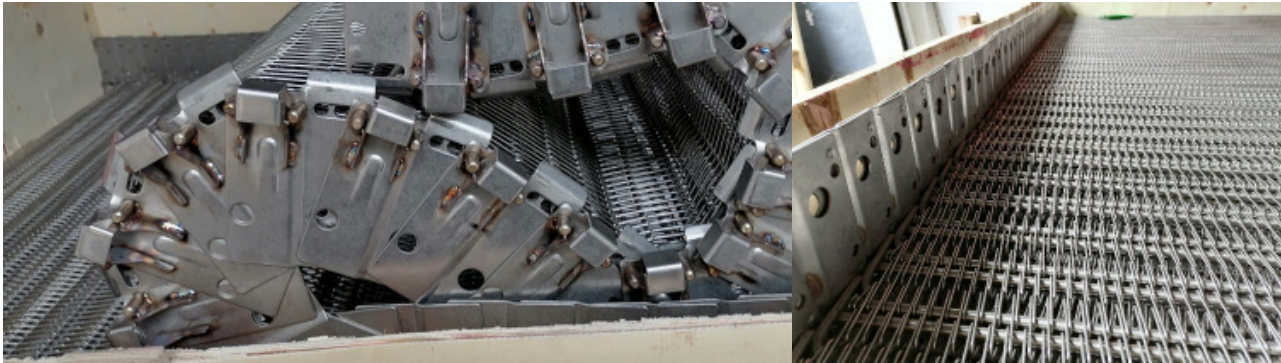


Spiral Freezer Belt

Spiral Freezer Belt Belts are primarily intended for use in multi-tier spiral conveyors, which are often employed in the food industry. These belts can also be used in conveyors that need to manoeuvre around obstacles due to their side flex capability.

Applications:

- ✓ Transport
- ✓ Cooking
- ✓ Heating
- ✓ Drying
- ✓ Cooling
- ✓ Drainage
- ✓ Freezing
- ✓ Elevating
- ✓ De-Elevating



Advantages

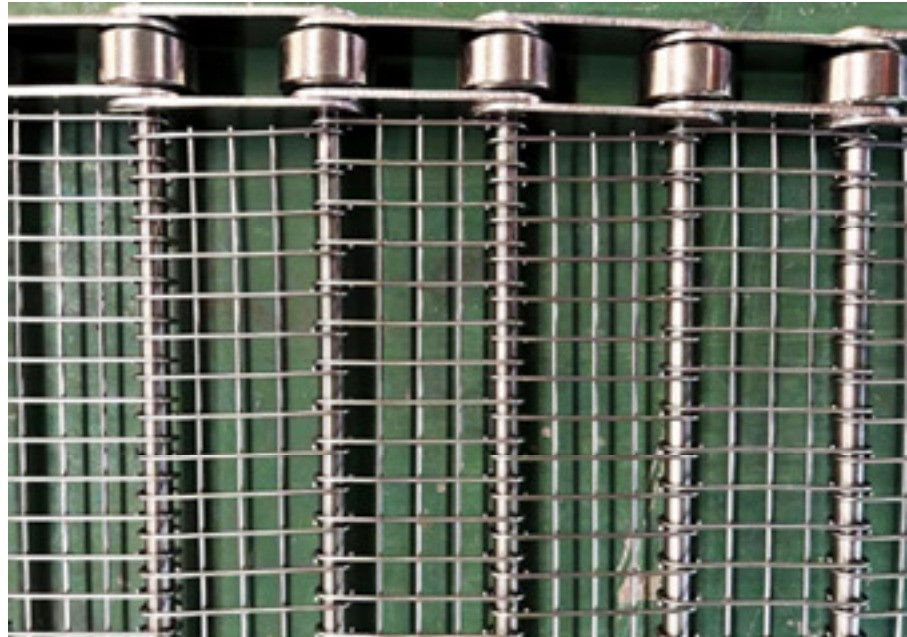
The Spiral Freezer Belt is suitable for spiral or straight conveyors and is well-suited for cooking, cooling, freezing various products like bread, pastries, vegetables, potatoes, fish, and meat. It can also be used for blanching vegetables, proofing dough, drying, baking, and pasteurizing. This belt is made of cross rods with collapsing links on each side. It can be covered with a spiral mesh for better product support. Middle links can reduce the turning radius, and side guards prevent product spillage.

Eyelink Belt

The Eyelink Belt is a heavy-duty modular conveyor belt with greater strength, carrying capacity, and an open flat surface profile, making it suitable for rugged, long-lasting conveying needs. The belt offers almost limitless options and custom configurations to meet specific requirements.

Applications:

- ✓ Transport
- ✓ Cooking
- ✓ Heating
- ✓ Drying
- ✓ Cooling
- ✓ Drainage
- ✓ Freezing
- ✓ Baking
- ✓ Washing
- ✓ Weed Clearing
- ✓ Curing
- ✓ Sorting
- ✓ Dredging
- ✓ Elevating
- ✓ De-Elevating
- ✓ Loading
- ✓ Degreasing
- ✓ Grading



Advantages

Eyelink Belt offers a wide range of customizable options for product handling, including flights and side guards. It features various drive options for reliable tracking and offers advantages such as a flat carrying surface, easy cleaning, high load capacity, and a virtually limitless range of applications. Eyelink Belt is the solution for heavy-duty conveyor belt requirements.

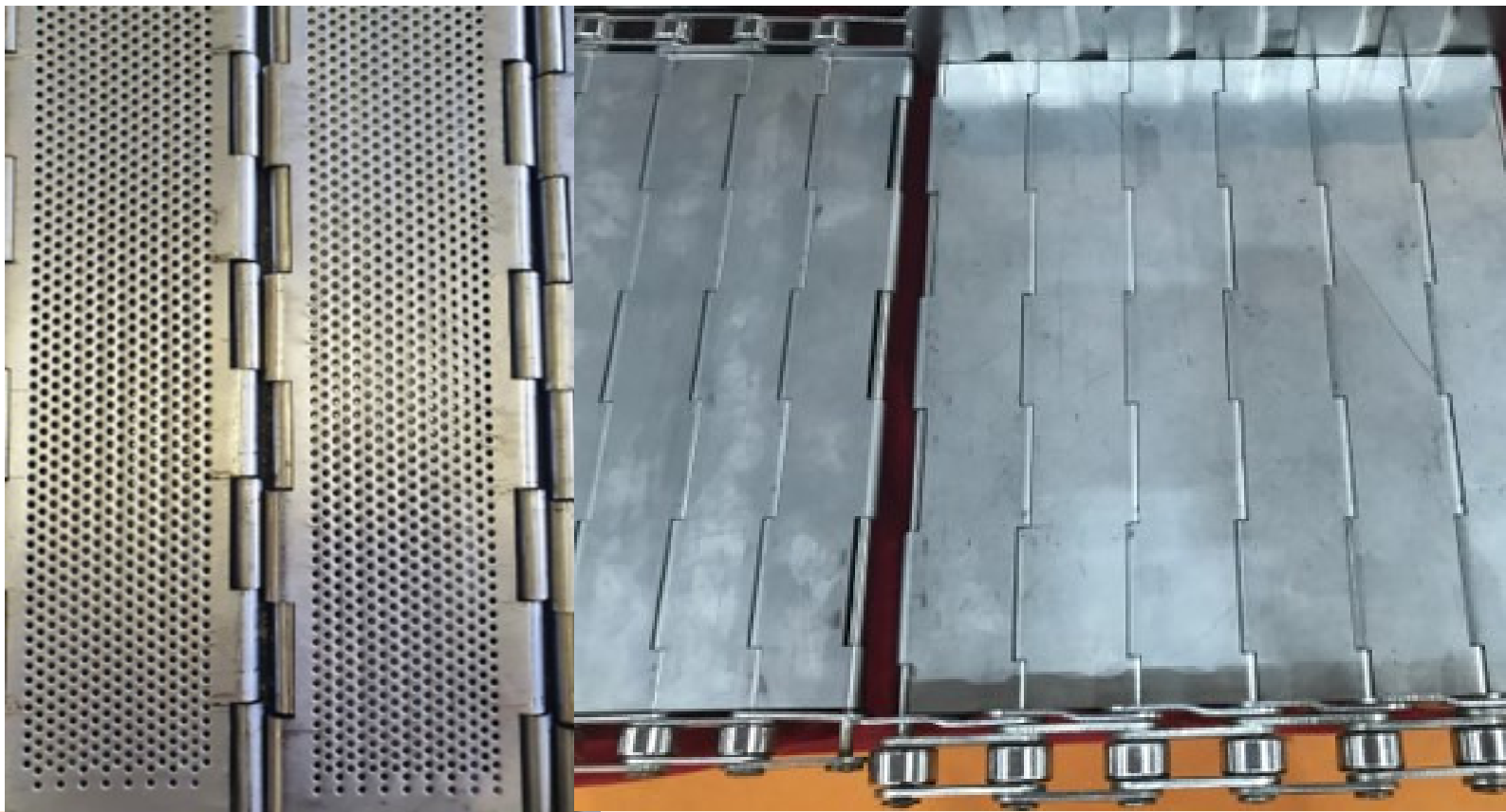


Plate Belt

The Plate Belt has an exceptionally sturdy design and can carry heavy loads, making it an excellent option for demanding engineering tasks like presswork, die-casting, and forging.

Applications:

- ✓ Transport
- ✓ Drainage
- ✓ Sorting
- ✓ Elevating
- ✓ De-Elevating
- ✓ Waste Treatment
- ✓ Blanching



Advantages:

Plate Belts articulated slats can withstand typical external forces in engineering applications and provide a longer belt lifespan. Tegman offers a conveyor solution with high-load capacity side chains for each Plate Link belt to enhance production capacity and minimize downtime.

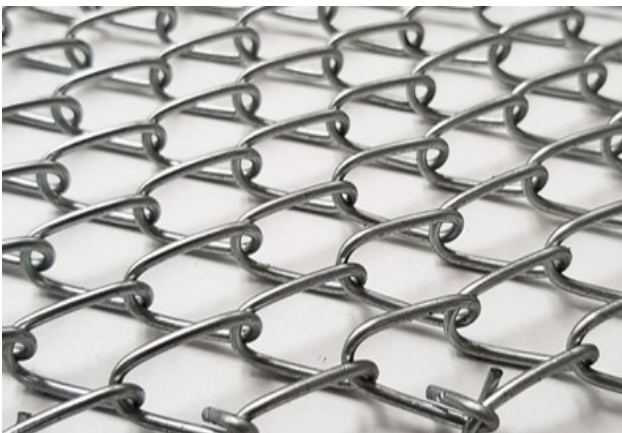
At Tegman, we offer a variety of specifications for conveyor systems, including side plates and cross-flights to fit your needs. We also provide a wide range of sprockets and perforations for drainage purposes. Our belts come in mild steel and stainless steel options with various surface finishes. Contact our Technical Sales team for Plate Link conveyor solutions.

Chain Link

Chain Link belting is the most basic wire belt design available and is appropriate for use in light-duty drying and cooling applications. Chain Link serves as a collapsible screen for purposes such as lift guards.

Applications:

- ✓ Transport
- ✓ Cooking
- ✓ Drainage
- ✓ Industrial
Curtains
- ✓ Life Guards
- ✓ Elevating
- ✓ De-Elevating
- ✓ Industrial
Furnaces



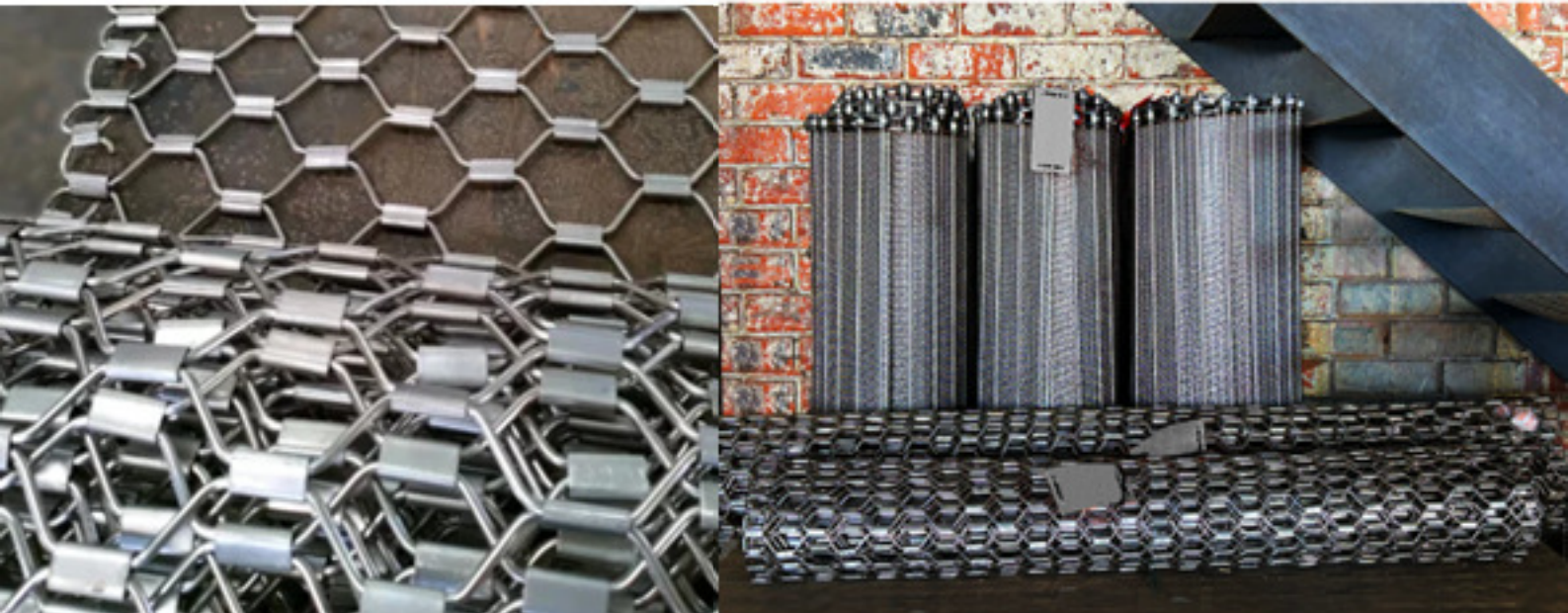
Advantages:

The Chain Link belt has a simple design with spiral coils woven together to form an open mesh. It is cost-effective, lightweight, and popular for low-load conveying tasks, drying, and cooling. It can be provided with knuckled or welded edges and with alternating left and right-facing panels to address tracking issues. The plain steel parallel-driven roller system is the most commonly used form of drive. This system relies on the frictional contact between the belt and roller to drive the belt. Some variations of this drive type include adding materials like rubber or friction brake lining to the roller to reduce the operational drive tension in the belt, increasing the belt's useful life.

Material	Max. Wire Operating Temp. Degree Celsius
Carbon Steel (40/45)	550
Galvanised Mild Steel	400
Chrome Molybdenum (3% Chrome)	700
304 Stainless Steel	750
321 Stainless Steel	750
316 Stainless Steel	800
37/18 Nickel Chrome	1120
80/20 Nickel Chrome	1150

Hex Mesh Belt

Hex Mesh Belts are meticulously manufactured by connecting consecutive bent wire strands with specialized clips to form 2-row modules with precisely engineered hexagonal apertures. This unique design features extremely large and uniformly spaced apertures, allowing for efficient sorting and transportation of items of specific sizes. The Hex Belt is available in two variations: Standard and Rod Reinforced, providing versatility for a wide range of applications.



Applications:

- ✓ Transport
- ✓ Drainage
- ✓ Sizing
- ✓ Eliminating
- ✓ Elevating
- ✓ De-Elevating
- ✓ Blanching

Advantages:

The uniform apertures on the Tegman Hex Mesh belt make it perfect for sizing and eliminating items such as fruit. Thicker wire provides a sturdy structure, and there is an option for rod reinforcement to ensure longevity with heavier items.

Cord Weave Belt

Tegman's Cord weave belts feature a compact, flat mesh suitable for conveying small items and ensuring even heat distribution. These belts are popular for a wide range of applications, from biscuit baking to sorting small mechanical components.

Applications:

- ✓ Transport
- ✓ Cooking
- ✓ Heating
- ✓ Drying
- ✓ Cooling
- ✓ Baking
- ✓ Annealing
- ✓ Elevating
- ✓ De-Elevating



Advantages

The Cord Weave Belt features multiple spirals and cross rods per pitch, creating a "belt within a belt" structure. This design closes up the apertures within the belt, giving Cord Weave its characteristic high density and flat surface. Cord Weave offers a flat carrying surface with minimal open area, making it suitable for diverse applications such as bottle-annealing and baking small snack products. Its high-density construction ensures uniform heat transfer, especially in baking applications. Commonly supplied in Grade 304 Stainless Steel and high carbon steel, Cord Weave can be made from other materials upon request. Drive is applied using friction rollers, with chain edge variants available upon special request. For applications requiring product elevation or separation, Cord Weave can be supplied with cross-flights and side plates specific to your requirements.

Drive Components

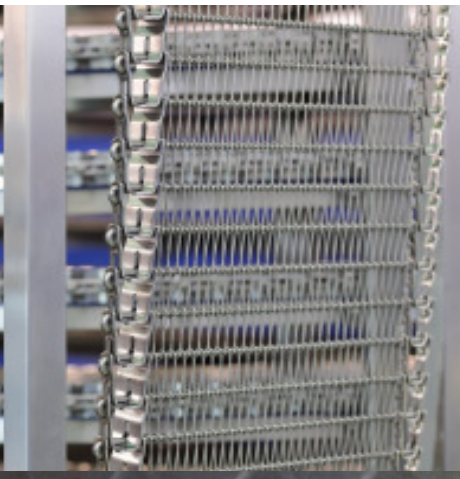
- Drive Sprockets
- Rollers
- Chains

For reliable drive components for your conveyor belt system, Tegman offers customised sprockets and blanks designed to fit flawlessly. We provide a variety of materials to meet your specific needs. Contact our Technical Sales Engineers for more information.



Tegman's Drive Components Advantages:

- Precision machined to fit your belt
- Optimized for belt performance
- Reduces wear and tear
- Extends belt life and saves money
- Prevents product buildup
- Available in stainless steel and polyacetal plastic



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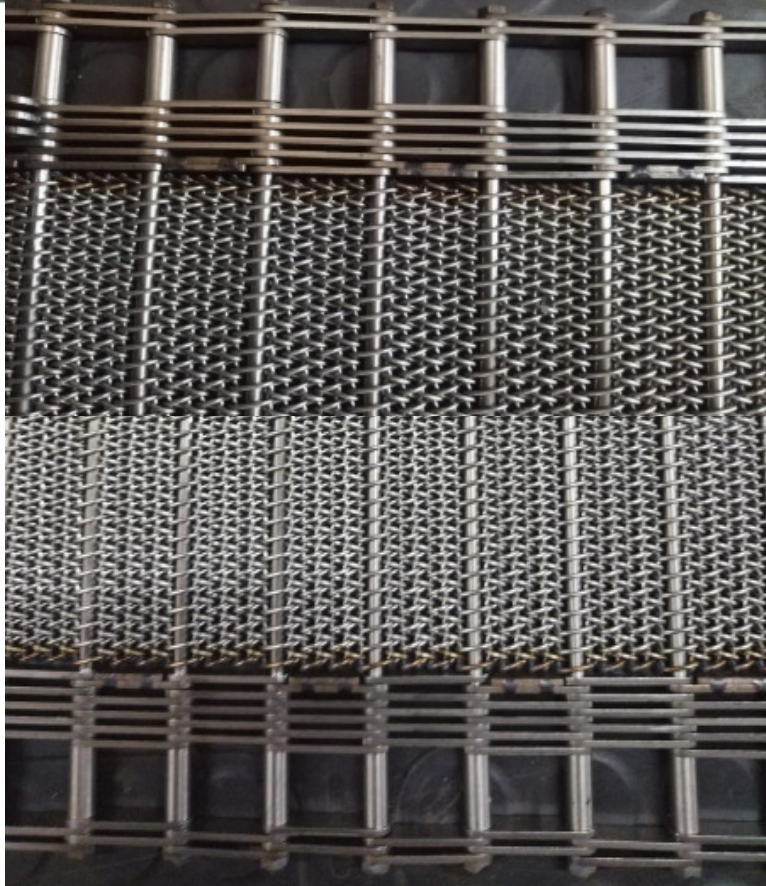
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