

Specialize In Wire Conveyor Belt Manufacturing And Solution.



Edge Drive Spiral Freezer Belts

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Overview

Edge Drive Spiral Freezer Belts are precision-engineered stainless steel conveyor belts used in spiral freezers across the food processing industry. Designed for edge-driven systems, these belts provide stable, hygienic, and efficient transport of food products during the freezing process. They are ideal for high-capacity operations where product integrity, airflow, and hygiene are critical.

What Is Edge Drive Spiral Freezer Belts?

An Edge Drive Spiral Freezer Belt is a metal conveyor belt powered from its outer edges, rather than the center. This drive method ensures precise belt tracking, eliminates slippage, and allows for compact spiral freezer designs with high throughput. These belts are widely used in spiral freezers, coolers, and proofers to freeze or chill food products such as poultry, seafood, baked goods, and ready meals.



Key Features and Benefits

- **Positive Edge Drive System**
Ensures stable movement without belt drift or misalignment, reducing maintenance and downtime.
- **Open Mesh for Airflow**
Maximizes cold air penetration for fast, uniform freezing and improved energy efficiency.
- **Food-Grade Stainless Steel**
Manufactured from AISI 304 or 316 stainless steel to resist corrosion and meet food safety standards.
- **Hygienic Design**
Smooth surface and open structure allow for easy cleaning, minimizing contamination risk.

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- **Custom-Fit for Spiral Systems**

Available in various widths, mesh types, and tier configurations to match your exact machine requirements.

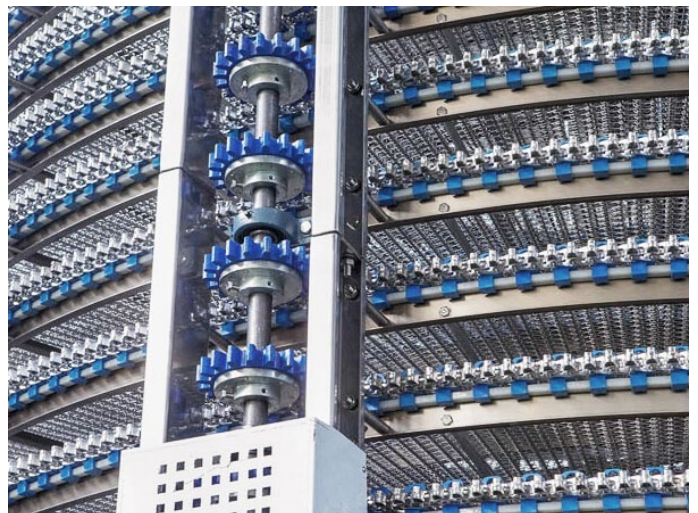
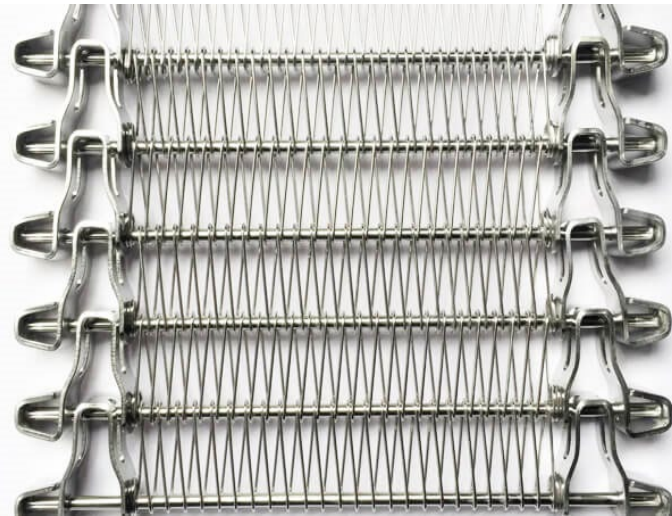
- **High Load Capacity**

Handles a wide range of product weights, from lightweight bakery goods to heavy meat cuts.

Technical Construction

Edge Drive Spiral Freezer Belts are constructed with a combination of:

- **Side Chains or Cage Bars:** Located at the belt edge to engage with sprockets or cage drums for direct drive.
- **Metal Mesh Surface:** Balanced weave, ladder-style, or hybrid mesh patterns based on product type and airflow needs.
- **Welded or Hooked Connections:** Provide strength and flexibility for smooth belt movement and tier transition.
- **Integrated Edge Guards (optional):** To prevent product slippage and ensure alignment.



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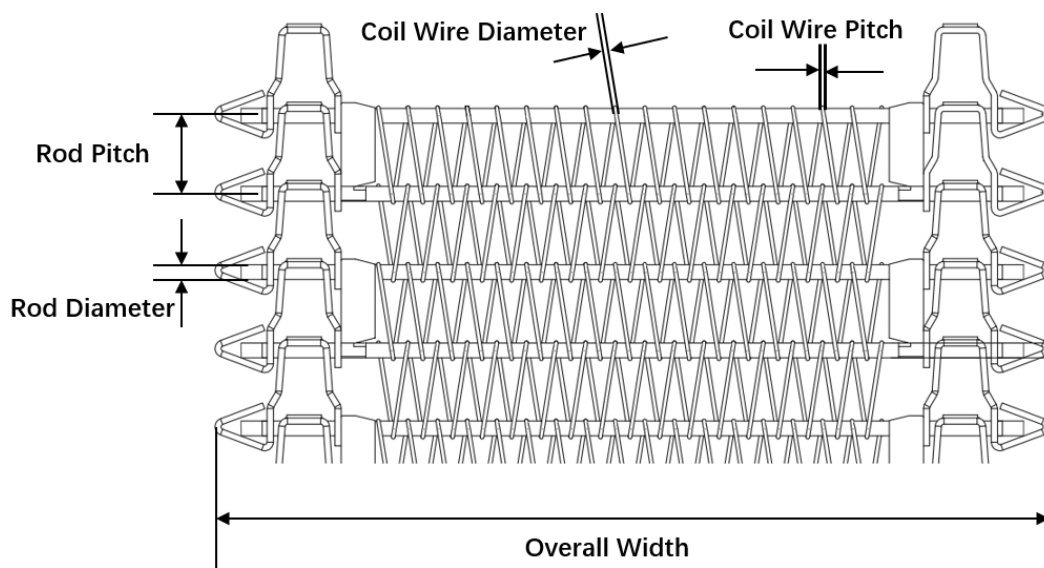
Material Options

We offer belts in a variety of corrosion-resistant, food-grade metals:

Material Type	Properties	Applications
Stainless Steel 304	Excellent corrosion resistance, widely used	General food processing, bakery, seafood
Stainless Steel 316	Superior corrosion resistance, acid/alkali resistant	Harsh environments, seafood, sauces, poultry
Other Alloys	Available on request (e.g. Inconel, Monel, etc.)	Specialized high-temperature or acidic use

Technical Specifications

Parameter	Specification
Belt Width	Customized (typically 310 mm to 1200 mm)
Rod Pitch	31.75mm , 34mm
Rod Diameter	5.0mm, 6.0mm
Coil Wire Diameter	1.5mm, 1.5mm, 1.6mm, 1.7mm, 2.0mm
Edge Finish	Welded
Mesh Type	Balanced Weave / Ladder Mesh / Hybrid Designs
Drive Method	Edge Drive (Cage Bar or Sprocket-Driven)
Operating Temperature	-40°C to +260°C
Construction	Welded or Hooked, with or without edge guards
Sprocket	Material & sprocket special is customized as per request
Sanitation Compatibility	CIP and high-pressure washdown safe



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Edge Drive Spiral Freezer Belts Applications

Edge Drive Spiral Freezer Belts are ideal for continuous, high-volume freezing in spiral systems. Common applications include:

Frozen Seafood: Fish fillets, shrimp, squid, and shellfish

Poultry and Meat: Chicken parts, whole birds, sausages, beef cuts

Bakery Items: Bread, pastries, pizza, dough

Ready Meals: Prepared entrées, pre-cooked foods, frozen dinners

Dairy and Desserts: Ice cream, frozen yogurt, cheese products



Edge Drive Spiral Freezer Belts for Bakery Items



Edge Drive Spiral Freezer Belts for Frozen Seafood



Edge Drive Spiral Freezer Belts for Dairy and Desserts



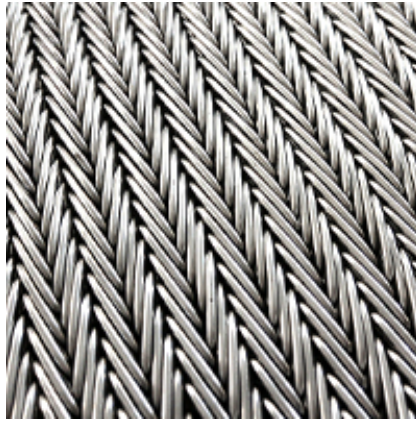
Edge Drive Spiral Freezer Belts for Poultry and Meat

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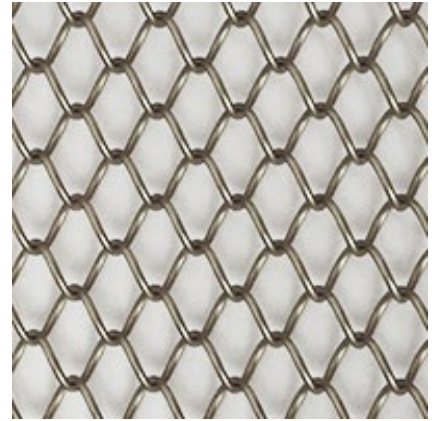
METAL CONVEYOR BELTS



Balanced Woven Conveyor Belts



Compound Weave Conveyor Belts



Chain Link Conveyor Belts



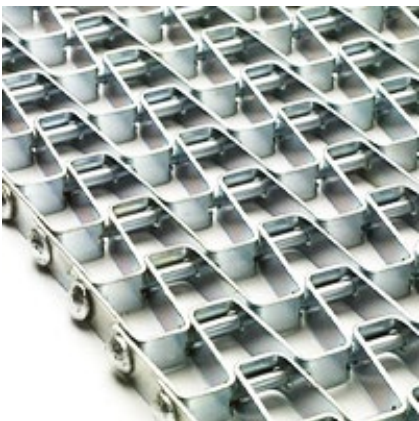
Flexible Rod Conveyor Belts



Flat Flex Conveyor Belts



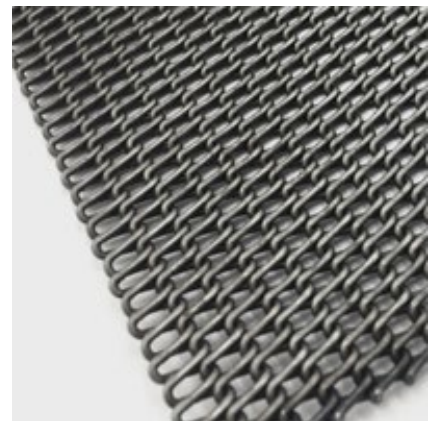
Eye Link Conveyor Belts



Honeycomb Conveyor Belts



Plate Link Conveyor Belts



Biscuit Baking Belts



PFM SCREEN

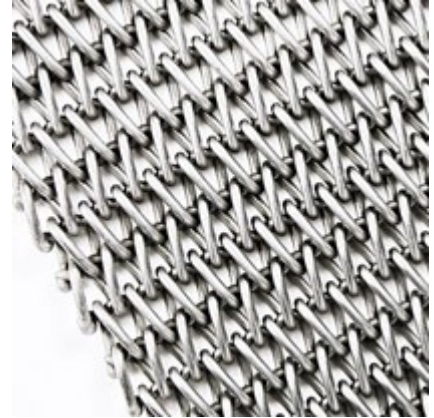
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Ladder Conveyor Belts



Woven Rod Bar Conveyor Belts



Wire Mesh Lehr Belts



Self-Stacking Spiral Freezer Belts



Edge Drive Spiral Freezer Belts

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CONVEYOR BELT ACCESSORY



Sprockets



Chain links

Our policy is one of continuous improvement and we reserve the right to change specifications at any time and without notice or modify these to suit manufacturing processes

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