

Compound Weave Belt (Baking Band)

Overview

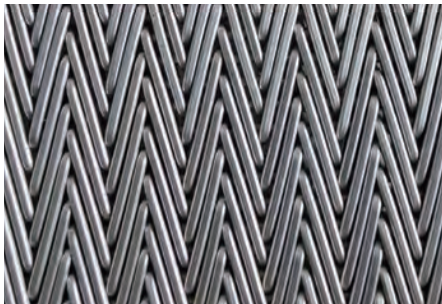
Compound Weave Conveyor Belt, also named Stainless Steel Cordweave Conveyor Belt, Compound Balanced Woven Belt or Baking Band Conveyor Belt, have right-hand and left-hand spirals interconnecting by straight cross rods.

The compound belt is a high-density, balanced spiral belt with multiple spirals and cross rods per pitch, resulting in minimal apertures and a flat surface. This structure ensures a close and flat mesh, ideal for conveying very small items. Its uniform heat transfer and smooth surface make it perfect for applications like biscuit baking and sorting small mechanical components. Popular for its durability and efficiency, the compound weave is a top choice in various industries, including food processing and precision manufacturing.

Generally, the material used to make the Compound Weave Conveyor Belts is stainless steel or high carbon steel.

Compound weave conveyor belts made from 304 and 316 stainless steel are typically used in the food industry due to their hygienic properties, while those made from 310S and 314 stainless steel are preferred in the heat treatment industry for their high temperature and oxidation resistance.

310S and 314 stainless steel wire offer high temperature resistance, strong oxidation resistance, and excellent mechanical properties. These features make mesh conveyor belts made from 310S and 314 stainless steel ideal for addressing high temperature issues in powder metallurgy furnaces. These belts resist short cycles, peeling, and fractures, and can withstand temperatures up to 1000-1250°C.

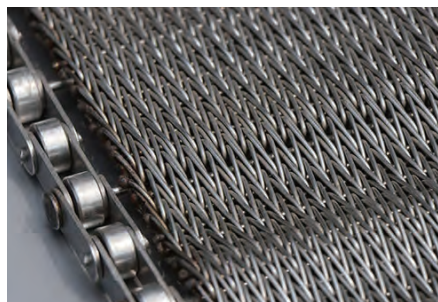


Driving Methods

The belt can be driven by friction rollers or chains. In some cases, products need to be upgraded or separated, and we can also provide cross flights and side plates according to user needs.



Driven by friction roller



Driven by roller chain



Cross flights and side plates

Compound Weave Belts (Baking Band)

Features of Compound Weave Conveyor Belt

- **Small open area.** The compound weave conveyor belt has a little open area, which is suitable to convey the small items.
- **Use multiple environments.** High resistance against chemical, abrasion, and corrosion.
- **High tensile strength.** The compound weave conveyor belt has multiple spirals and cross rods on each pitch, so it can supply higher tensile strength than other types of conveyor belt.
- **High-temperature resistance.** The compound weave conveyor belt is made of high-quality materials, including stainless steel and nickel alloy steel, which have excellent temperature resistance performance.
- **Durable and long service life.** The unique structure and high-quality material can ensure the long service life of compound conveyor belt.
- **Uniform heating.** Provides uniform heat transfer across the belt.
- **Baffles can be added.** Different types of baffles can be added at the both side and center of conveyor belt for sorting and conveying products.

Belt Types



Round spiral wire



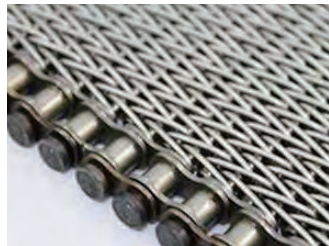
Flat Spiral Wire

Edge Availability

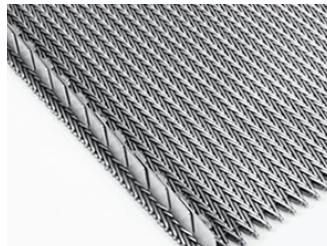
For the compound weave conveyor belt, we can provide two different edge structures to meet different applications.



Welded Edge



Chain Edge



Side Guard Edge



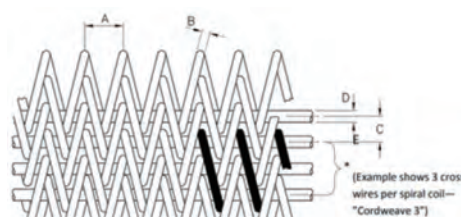
Folded Side Guard Edge

Material Availability

The compound weave conveyor belt is made of stainless steel and high carbon steel. They all have excellent high temperature resistance performance and high tensile strength. All these can ensure the compound weave conveyor belt be a strong, durable and high lifespan products.

Material	Maximum Wire Operating Temperature °C
Carbon Steel	550
304 Stainless Steel	750
316 Stainless Steel	800
316L Stainless Steel	800
314 Stainless Steel	1120
Inconel 600	1150

Specifications



- A: Coil Pitch (mm) C: Cross Wire Pitch (mm)
 B: Coil Wire Diameter (mm) D: Cross Wire Diameter (mm) E: Number of Cross Wires per Spiral Coil (mm)

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Compound Weave Conveyor Belts specifications					
Item	Coil pitch	Coil wire diameter	Cross wire pitch	Cross wire diameter	Number of cross wires per spiral coil
	(mm)	(mm)	(mm)	(mm)	(mm)
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	1.6 × 1.3	3.9	1.63	5

NOTE: 1. If flat wire, please give us cross section.
2. Custom specification is available if you can't find the suitable size.

Applications

By offering a flat carrying surface with little open area, Compound Weave Conveyor Belt is a popular choice for applications as diverse as bottle-annealing to baking small snack products. Compound Weave Conveyor Belt is particularly popular in baking applications as its high-density construction ensures a uniform heat transfer through to the product.

- Rice Handling
- Swarf Conveyors
- Heat Treating of Small Fasteners
- Furnace Curtain
- Sintering of Powdered Metal Components
- Electro-Plating
- Accumulation Tables
- Seed Drying
- Biscuits, tortillas, cookies and crackers baking
- Hardening, tempering, quenching
- Glass works
- Electrotechnical industry
- Serving as pasteurizing belt
- Furnace belts



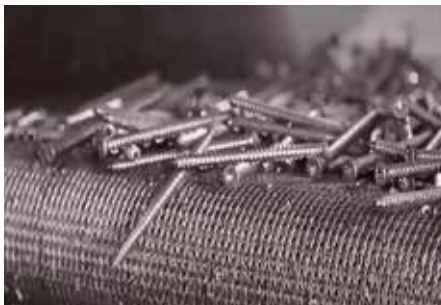
Baking Band Belt



Furnace Curtains



Grain Drying Belt



Heat Treatment Belt



Baking Belt



Annealing Furnace Mesh Belt