TECHNICAL SPECIFICATION

Balanced Weave Belt

Belt types, specification ranges, options and the fit checks done before quotation. Reference values from projects; final values follow the drawing confirmed for your line.

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TWO DRIVE TYPES

01 Sprocket-Driven or Friction-Driven: Which Balanced Weave Belt Does Your Line Need?

The drive decides the wire. A sprocket-driven belt uses hard wire and a pitch matched to the sprocket teeth; a friction-driven belt uses soft wire up to about 2 m wide and semi-hard wire above that.

Sprocket-driven (positive drive)

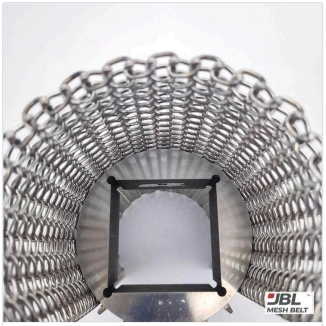
Hard	Matched	Multi-row
wire	pitch to sprocket	sprockets



Belt on its sprocket hub



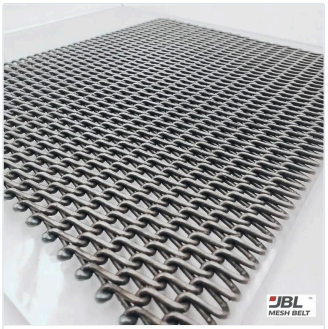
Multi-row sprocket



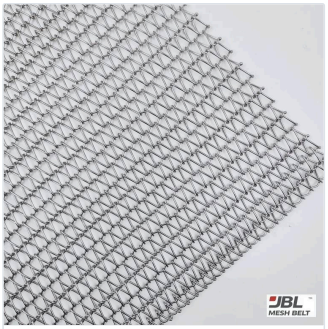
Small-pitch belt on sprocket

Friction-driven (drum drive)

Soft	Semi-hard	Flat
wire up to ~2 m	wire above 2 m	no sag



Balanced weave surface



Welded edge, top view



On a bakery line

SPECIFICATIONS & OPTIONS

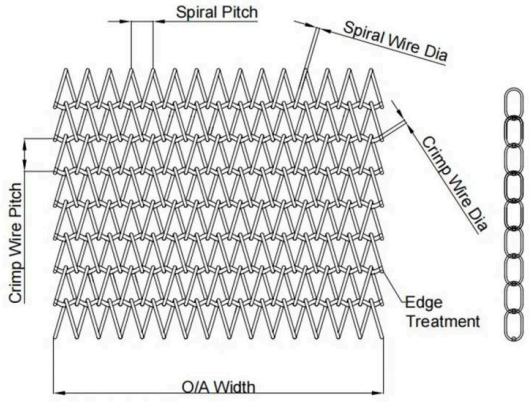
02 Balanced Weave Belt Specifications: Spiral Pitch, Crimped Wire, Wire Size and Width

Compare your old belt with this table. Drive type, spiral pitch and crimped wire pitch are enough to start — every value in mm and inches, confirmed on your project drawing.

SPIRAL PITCH	CRIMPED PITCH	WIRE	BELT WIDTH
2.8–40 mm	**5–50.8 mm**	**1.0–3.2 mm**	**200–5000 mm**
0.110–1.575 in	0.197–2.000 in	0.039–0.126 in	7.87–196.85 in

Dimension drawing and table

Balanced weave belt



Drawing label	Reference (mm / in)
Material	SUS304 / SUS316 / mild steel
Spiral pitch	2.8–40 mm (0.110–1.575 in)
Spiral wire	Round 1.0 / 1.2 / 1.4 / 1.5 / 1.6 / 1.8 / 2.0 / 2.5 / 3.0 / 3.2 mm, or flat wire per drawing
Crimped wire pitch	5–50.8 mm (0.197–2.000 in)

Drawing label	Reference (mm / in)
Crimped wire diameter	1.2 / 1.4 / 1.5 / 1.6 / 1.8 / 2.0 / 2.5 / 3.0 / 3.2 mm
Wire hardness	Hard (sprocket drive); soft ≤ ~2 m / semi-hard > 2 m wide (friction drive)
Belt width	200–5000 mm (7.87–196.85 in), custom
Edge	Welded / clinched
Surface	Mill finish / pickling / PTFE coating, per project
Sprockets	SUS304 / SUS316 or UHMWPE; multi-row, per drawing

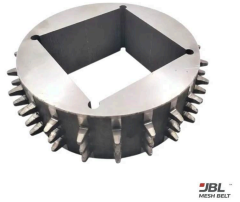
Use the drawing to tell us which dimensions you can measure. Final values follow the confirmed project drawing.

Choose your options

Sprockets



Multi-row sprocket



Square-bore sprocket



Stacked sprocket with keyway



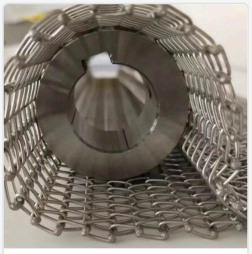
UHMWPE multi-row sprocket



Hard wire seated on the teeth



Running test, UHMWPE sprocket



Running test, steel sprocket



Belt wrapped on a keyed sprocket

Tooth spacing matched to the spiral and crimped wire pitch; rows, bore and keyway per drawing.
Sprockets →

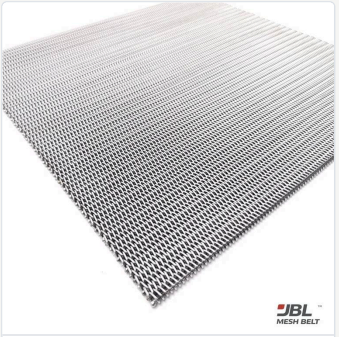
Round or flat wire



Round wire, surface



Round wire, dense weave



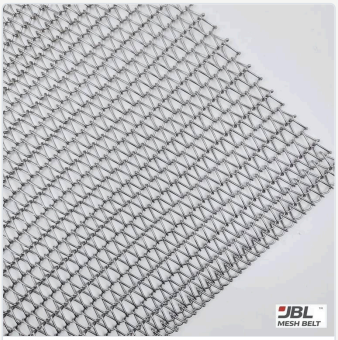
Small-pitch weave

Flat wire spirals give a flatter, larger contact surface; size confirmed on the drawing. Very small pitches may be woven as a single-spiral belt instead.

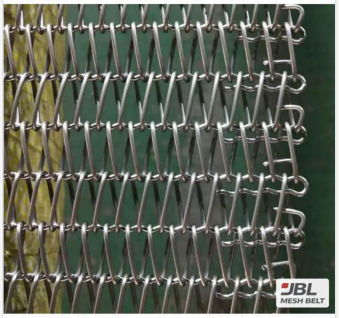
Edge



Welded edge, angled



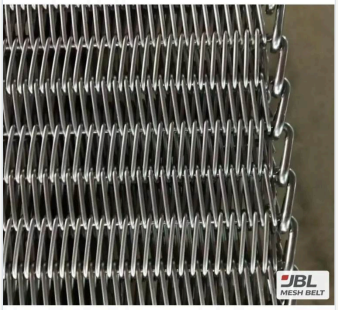
Welded edge, top view



Clinched edge



Welded edge, roll



Clinched edge, close-up

Material & surface



Mill finish (mild steel)



PTFE coating



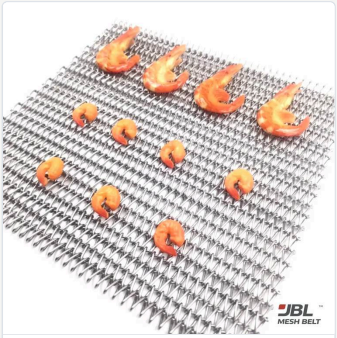
Pickling

SUS304 or SUS316 for food and humid lines; mild steel for dry, hot lines — lightly oiled against rust, not enough to mark product or packaging. PTFE coating grade and service temperature are confirmed per project.

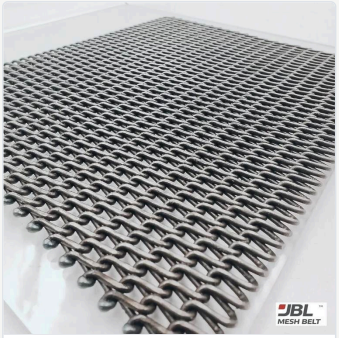
Applications



Baking and cooling



Seafood and freezing



Drying and heat treatment

Measured readings



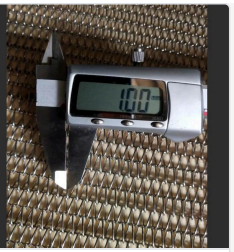
Spiral pitch 5.00 mm (0.197 in)



Spiral pitch 4.25 mm (0.167 in)



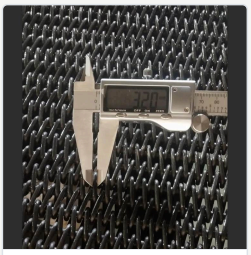
Spiral pitch 12.00 mm (0.472 in)



Wire Ø 1.00 mm (0.039 in)



Wire Ø 1.20 mm (0.047 in)



Wire Ø 3.20 mm (0.126 in)



Width 1397 mm (55.00 in)



Width 2500 mm (98.43 in)

FIT CHECK · DRIVE AND SPROCKET FIRST

03 Will the New Belt Seat on Your Sprockets — and Stay Flat?

Looking the same is not enough. Drive type, spiral pitch and crimped wire pitch decide whether every spiral seats on your sprocket teeth — and which wire keeps the belt flat. They are checked first, before you get a quotation.

REPLACEMENT & REPEAT ORDER

Replacing or re-ordering a balanced weave belt

YOU SEND

Photos of the old belt with a tape over 10 pitches, the drive type, and your sprocket or a photo of it.

WE CHECK FIRST

Sprocket or friction drive, spiral and crimped wire pitch, wire diameters and overall width — measured on your old belt.

YOUR SPROCKETS

Tooth spacing, number of rows, bore and wear checked. If they need replacing, sprockets are made to match the belt.

YOU GET

Before quoting: will the belt engage your sprockets as it is — and, for sections, whether joining wires are needed.

NEW LINE

Supplying a new baking, cooling or drying line

YOU SEND

Product, temperature, belt width and length, and the drive layout.

WE CHECK FIRST

Drive type, then wire hardness, pitch, wire size, round or flat wire, edge and material.

YOUR SPROCKETS

Multi-row sprockets matched to the belt pitch; bore and keyway confirmed on the drawing.

YOU GET

A confirmed drawing, a first-article check of flatness, and a sprocket running test before shipment.

Get a fit answer

- ✓ Drive: sprocket-driven or friction-driven
- ✓ Spiral pitch and crimped wire pitch
- ✓ Spiral and crimped wire diameter (round or flat)
- ✓ Belt width and length
- ✓ Number and length of sections (joining wires)
- ✓ Edge: welded or clinched; material
- ✓ Sprocket rows, teeth, bore and keyway

Usually reply within 8 hours

How to measure an old belt →

Send a drawing, an old belt section or photos with a caliper in the picture.

An engineer replies with what fits, what is missing and the next step — usually within 8 hours.

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JBL Mesh Belt — Jin Bei Li Metal (Suzhou) Co., Ltd. Reference document; project values are confirmed in writing before production.