JBL MESH BELT

ENGINEERED · MATCHED · DELIVERED

Engineering-Controlled Metal Conveyor Belt Partner

PROJECT CASES · SPIRAL FREEZER BELT

Replacing a Spiral Belt Without the Original Drawing

Two real projects: what the buyer sent, what was measured, and what was checked before shipment.

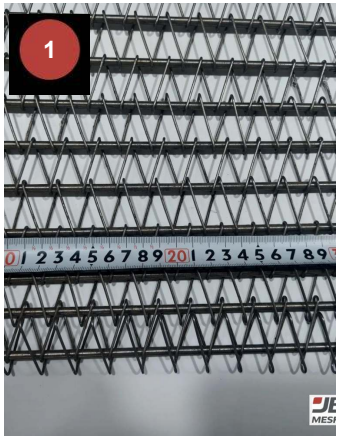
Australia · bakery cooling · about 400 m

Waffle cooling · about 200 m + sprockets

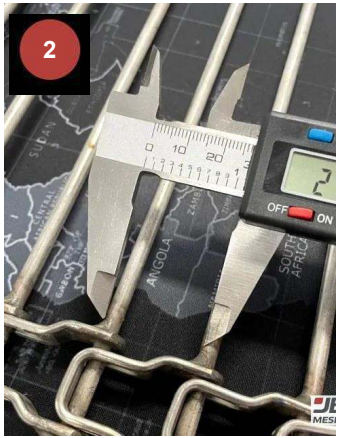


Starting from a worn belt section

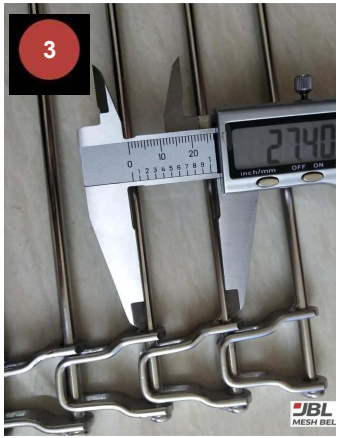
No drawing: both projects started from a section of old belt.



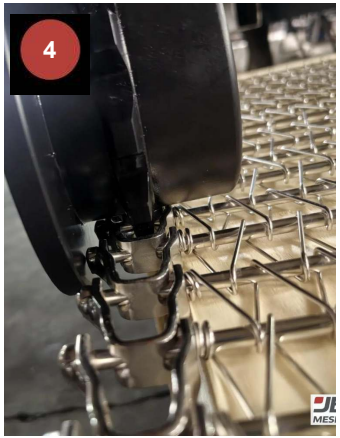
You send a section of the old belt



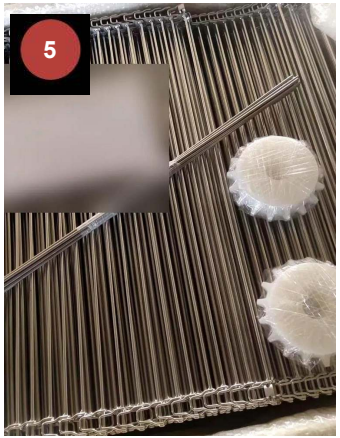
Fit dimensions read with a caliper



Sample compared with the original



Sprocket run on the new belt



Packed and shipped

Projects: Waffle cooling spiral 2026, Australia 2023–2024

What to send → page 14

Appearance alone does not confirm fit

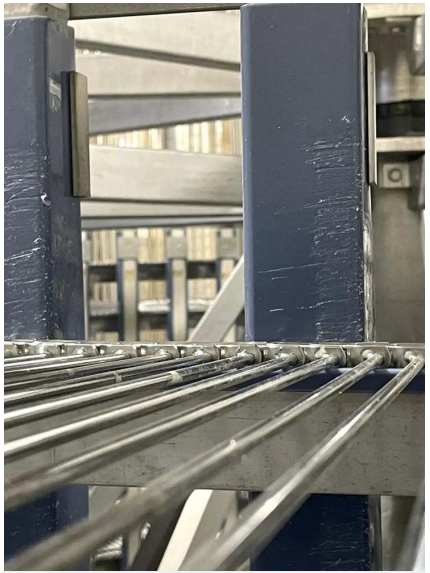
Problems that come up when a spiral belt is replaced.



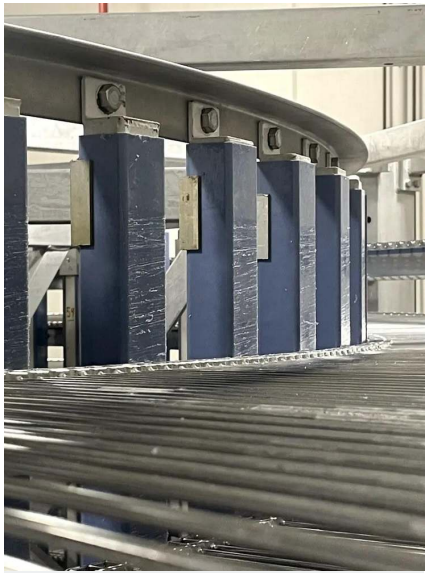
Edge links worn: original sizes are gone



Sprocket teeth worn: a new belt on old sprockets can jump



Guide strips scored along the belt path



The new belt has to turn on the same drum and guides

Original belts and sprockets sent by the buyers in this book, Projects: Waffle cooling spiral 2026

See: Sprocket Matching

Read on your belt, not copied from a catalogue

Five things decide whether a new belt runs on your spiral.



Pitch on a worn original: 27.41 mm (1.079 in)

1. **Pitch**
   Over 10 pitches, averaged.
2. **Rod diameter**
3. **Link thickness and size**
   Worn links identified, then confirmed with a sample.
4. **Width, drum and turn direction**
5. **Sprocket**

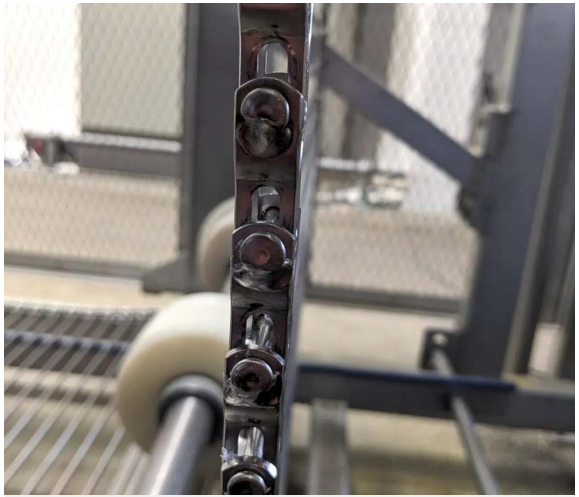
Australia, 2023–2024, Spiral Freezer Belt (cooling spiral), about 400 m

Measuring an old belt → What to Send for a Quote

Australia · bakery cooling spiral · about 400 m

No drawing: a worn section of the original belt was sent.

Belt: 760 mm (29.92 in) wide, SUS304. Nylon sprockets supplied with the belt.



The original belt on the customer's line



Rod on the original: 5.03 mm (0.198 in)



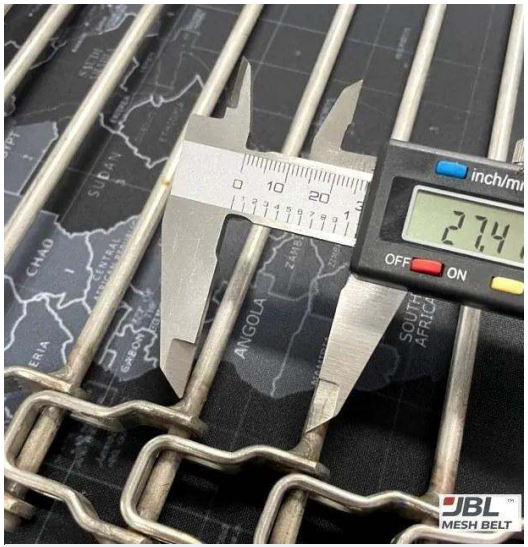
Link thickness on the original: 2.70 mm (0.106 in)

Australia, 2023–2024, Spiral Freezer Belt (cooling spiral), about 400 m

Send details → page 14

Sample checked against the original

The sample was read with the same tools.



Original: pitch 27.41 mm (1.079 in)



New sample: pitch 27.40 mm (1.079 in)

	Original	New sample
Pitch	**27.41 mm**	**27.40 mm**
Rod diameter	**5.03 mm**	**5.00 mm**
Link thickness	**2.70 mm**	**2.70 mm**

Bulk production started only after the sample was compared. 1 in = 25.4 mm.

Australia, 2023–2024, Spiral Freezer Belt (cooling spiral), about 400 m

Send details → page 14

Checked before the crates were closed

The nylon sprockets were measured and run on the new belt.



Running test: teeth engaging the belt links



Sprocket outside diameter: 160.97 mm (6.337 in)



Belt with spare rods and sprockets, ready to pack

Australia, 2023–2024, Spiral Freezer Belt (cooling spiral), about 400 m

See: Packing & Export Protection

Waffle cooling spiral · about 200 m + sprockets

Worn parts are measured; wear is identified, not copied.



Original link, worn: 2.42 mm (0.095 in)



Trial run link: 2.71 mm (0.107 in)

	Original	New
Link thickness	**2.42 mm (worn)**	**2.71 mm**
Rod	**4.99 mm**	**matched**
Pitch	**read with a tape**	**read the same way**

Wear is identified, not copied.

Waffle cooling spiral 2026

Send details → page 14

Approved from photos before bulk

A trial run linked into the original, photographed for the buyer.



Trial run (top) next to the buyer's original (bottom)



Trial run linked into the original belt

Waffle cooling spiral 2026

Send details → page 14

Bulk belt and new sprockets, run together

Before packing: bulk belt measured again, new sprockets run on it.



New sprocket teeth engaging the edge links



Bulk belt link: 2.71 mm (0.107 in), same as the trial



Sprockets packed on the belt in a lined crate

Waffle cooling spiral 2026

See: Sprocket Matching

Which parts wear, and how each is read

Tell us the sample is worn: it changes how it is read.



Waffle line: worn link, 2.42 mm (0.095 in)

Link thickness	Wears on rails and drum: compare worn and less-worn areas
Rod diameter	Wears where it rubs: read away from contact points
Rod pitch	Can grow slowly: read over several pitches
Sprocket teeth	Wear clearly: read bore, keyway and hub
Trial section	Joined to the old belt, it shows the fit directly



Link read on the original



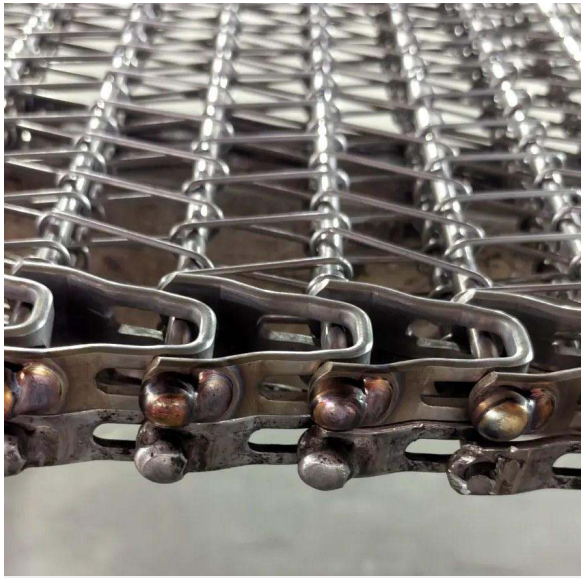
Australia: rod 5.03 mm (0.198 in)

JBL Mesh Belt engineering articles, 2026, waffle line 2026, Australia 2023–2024

What to send → page 14

Like-for-like, or an engineering review first?

Do not redesign a proven system without reason; do not copy a known failure.

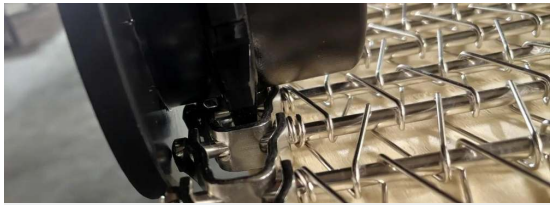


Waffle line: trial next to the original

Copy like-for-like	Runs stably, normal wear, nothing changed
Review first	Repeated failures, or the belt is hard to source
Review first	Product, capacity or hygiene needs changed
Belt-only fixes	Wear corrected, material, finish, matched sprockets
Machine project	Drum, drive, turn ratio or tiers change



Australia: sample 27.40 mm (1.079 in)



New sprockets with the belt

JBL Mesh Belt engineering articles, 2026, Projects: Waffle cooling spiral 2026

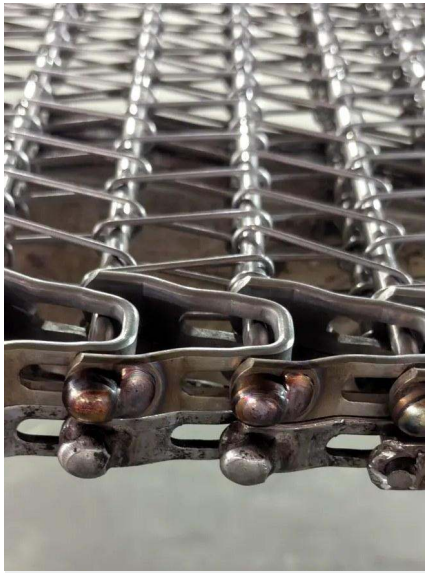
See: Spiral Freezer Belt Buyer's Guide

What you see before shipment

Photos, readings and the inspection video come before shipment.



Readings on the new belt



New next to your original



Sprocket on the belt before packing



How it is packed

Examples from the two projects in this book, Projects: Australia 2023–2024

See: Payment & Payment Safety

Replacing a spiral belt? Send us these

Six items to start a spiral belt review.



1 Edge and mesh photos, with a tape or caliper



2 Pitch over 10 pitches, rod, link



3 Width and total length



4 Drum diameter, turn direction



5 Sprocket teeth, bore, keyway



6 New belt, or joining your old one?

Send it on WhatsApp

+86 138 1487 2506

info@jblmeshbelt.com

Your drawings and photos are used only for your project.

Scan to chat

Projects: Waffle cooling spiral 2026, Australia 2023–2024

Full quote checklist → What to Send for a Quote

JBL MESH BELT

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START A PROJECT WITH JBL

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Send your old-belt photos, drawing or required dimensions.

We review the fit dimensions with you before you order.

RELATED BOOKS

- Spiral Freezer Belt Technical Specification
- Small Radius Spiral Freezer Belt — Project Cases
- Sprocket Matching
- What to Send for a Quote

GET IN TOUCH

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