

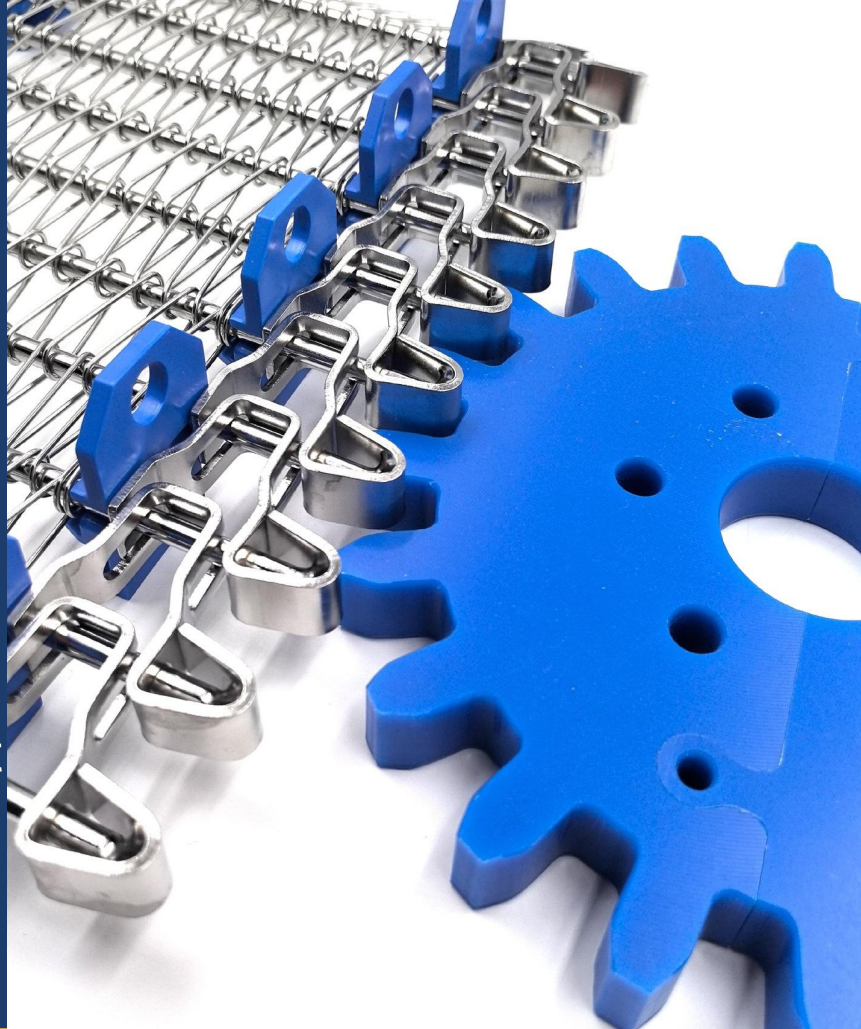


MANUFACTURING CASE STUDIES

SIDE DRIVEN BELT

A replacement and a new design:
from your sample or drawing to shipment

PROVEN · STABLE · VERIFIED



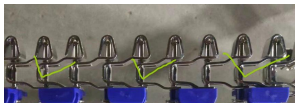
9 problems we stop before your belt ships



1

Weld points

Arc residue removed with a weld-cleaning machine, then checked by hand.



2

Link rows

Link alignment checked row by row along the belt.



3

Electropolish

Uneven or marked areas polished again before packing.



4

Belt on sprocket

Sprocket pitch matched to the belt before quoting.



5

Sprocket teeth

No black marks left from the polishing wheel.



6

Tooth edges

Burrs removed from every tooth edge.



7

Plastic bore

Bore checked; any scratch is reworked.



8

Plastic faces

Faces checked for scratches; each plastic sprocket packed separately.



9

Metal bore and hub

Bore and hub checked; any damage reworked before packing.

The five questions buyers ask first

Each answer in this file is a photo, a drawing or a measured value from a real order.

Buyer question	What we show you	Pages
Will it fit my existing sprockets and drum?	Your sprockets and drum are the reference; the drum test and the belt on the sprocket.	6, 10, 18
Will the new belt match my old one?	New section laid beside the original; link and pitch compared.	8, 9
Will the batch match the approved sample?	Trial rounds, measured values and mass-production checks.	9, 11
What is checked before shipment?	Nine finishing checks and a final inspection of the belt.	2, 12
Will it arrive undamaged?	Inner and outer packing, and the cases on arrival.	13, 14

How you can check: ask for the same photos and values for your own order before it ships.

From your sample or drawing to shipment

You approve each stage before the next one starts.

#	Stage	What we do	What you receive or approve
1	Your input	Original belt, sprocket photos, drum size or drawing.	Our written questions
2	Our drawing	Rod pitch, rod, link, side guard and widths in mm and in.	You approve the drawing
3	Trial and comparison	Trial section made and laid beside your original belt.	Comparison photos
4	Sample inspection	Measured values; your changes go into a new drawing revision.	Inspection values and sample
5	Drum test	Belt laid out at the turning diameter and measured.	Drum-test photos
6	Mass production	Built to the approved revision; dimensions measured again.	Production photos
7	Final inspection	100% final inspection: dimensions, welds and finish.	Inspection photos
8	Packing	Inner film and wrapping, outer wooden case.	Packing photos

How you can check: every stage leaves a photo, a drawing revision or a measured value you can ask to see.

Thailand, Asia: a new belt for an existing bakery spiral

The buyer's task: replace a worn belt without changing the sprockets or the drum.

REPLACEMENT PROJECT

Buyer Bakery, end user, spiral line already in production.

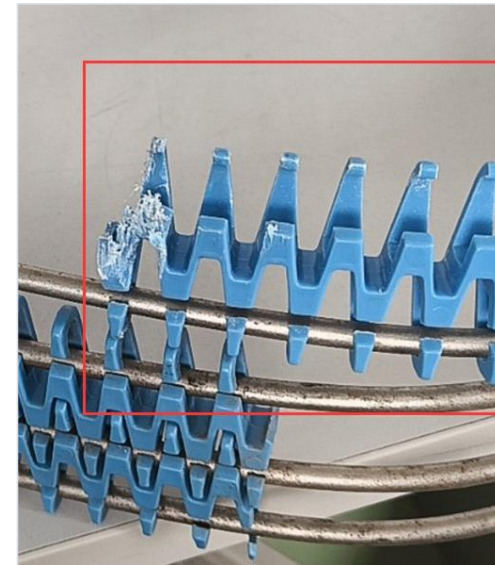
Belt Overall width 942 mm (37.09 in), useful width 830 mm (32.68 in); rod pitch 31.75 mm (1.25 in); rod 6 mm (0.24 in); link 2.5 mm (0.10 in); side guard 40 × 55 mm (1.57 × 2.17 in).

Material Rods and links SUS304; mesh and side guards in low-temperature-resistant POM, as on the original belt; electropolished.

Quantity 440 m (1,444 ft), by sea.



Original belt in use on the buyer's spiral



Worn section of the original belt

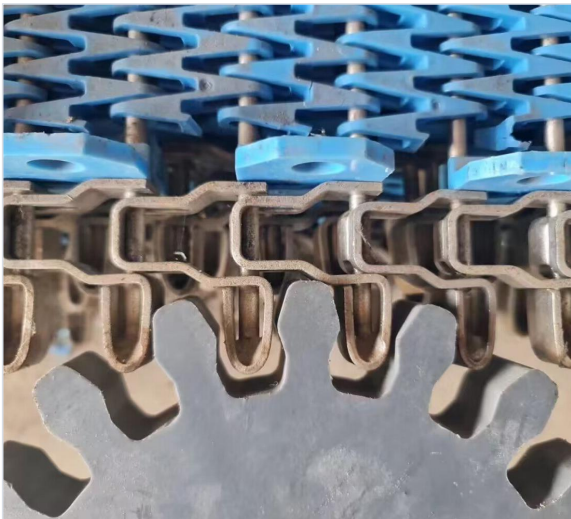
We start from what is already on your line

The buyer's concern: a new belt that does not fit the sprockets and drum already installed.

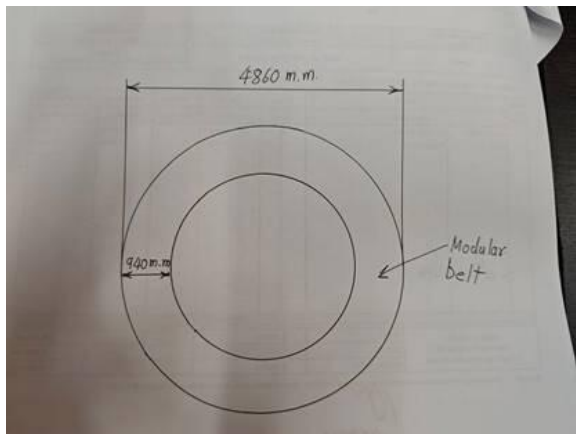
What the buyer sent Photos of the existing sprockets, the original belt on a sprocket, and a sketch of the drum: 4,860 mm (191.34 in) across with a 940 mm (37.01 in) belt.



Buyer's existing sprocket



Original belt on the existing sprocket



Buyer's drum sketch

How you can check: send photos of your sprockets, your old belt on the sprocket and your drum size; they become our reference.

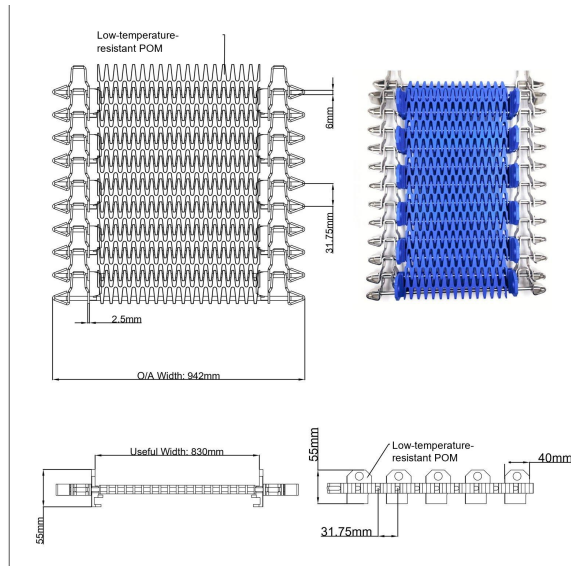
Our drawing, made to the original belt

The buyer's concern: values that are guessed instead of measured.

Measured Links, rods and side guards of the original belt; link tooling made from the original chain.

Drawn Overall and useful width, rod pitch, rod, link thickness and side guard size.

Approved The buyer approved the drawing before the first trial. A later change went into revision 02.



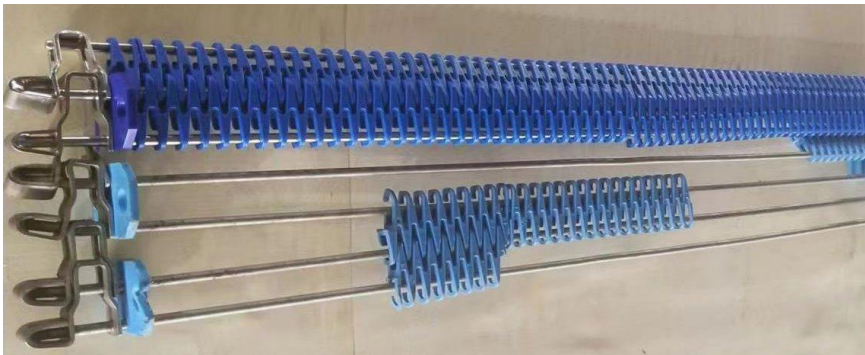
Our side driven belt drawing for this project

How you can check: ask for our drawing of your belt before any production starts.

The new section laid beside the original

The buyer's concern: a link that looks the same but does not match the original pitch.

What we did Made a trial section and laid it beside the buyer's original belt: links, rod pitch and side guards compared side by side.



New section (dark blue) above the original sections (light blue)



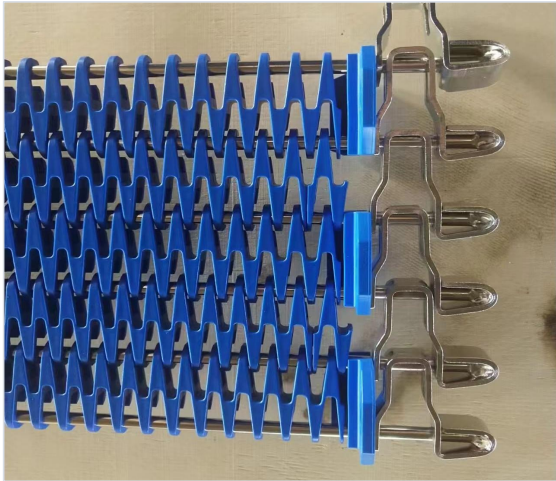
New links in line with the original links

How you can check: send a short section of your old belt; we photograph the new section beside it before production.

Three trial rounds, two sample inspections, then approval

The buyer's concern: a sample that passes, then a batch that does not.

Item (inspection values)	Required	Measured	Tool
Rod pitch	31.75 mm $\pm$ 0.02	31.75 mm	Vernier caliper
Rod diameter	6 mm $\pm$ 0.02	5.99 mm	Vernier caliper
Link thickness	2.5 mm $\pm$ 0.02	2.51 mm	Vernier caliper
Link height	16 mm $\pm$ 0.02	15.98 mm	Vernier caliper
Side guard width	40 mm $\pm$ 1	40.43 mm	Vernier caliper
Side guard height	55 mm $\pm$ 1	54.82 mm	Vernier caliper
Useful width	830 mm	830 mm	Tape measure
Overall width	942 mm +3/-4	942 mm	Tape measure
Weld points	Good	Pass	Visual check



Trial section after improvement

How you can check: after the first sample inspection the buyer asked for a wider useful width; we improved it to 830 mm (32.68 in) in drawing revision 02.

Drum test: measured, improved, approved

The buyer's concern: a straight belt that does not turn the way the original does.

What we did Laid the belt out at the turning diameter and measured it. After round 1 we improved the turn; the buyer approved round 2 for production.



Belt laid out at the turning diameter



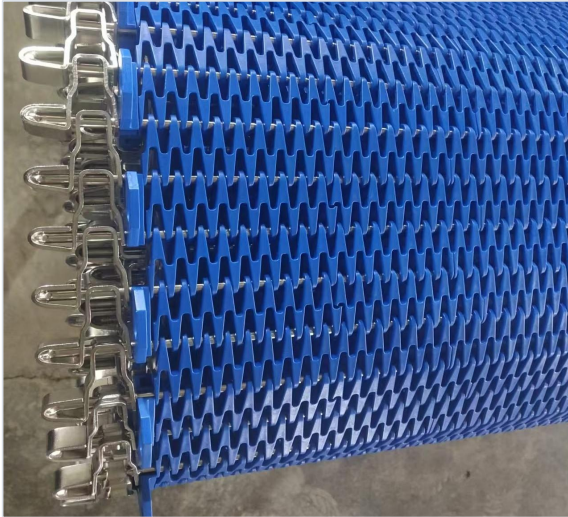
Measuring the turn

How you can check: every spiral, self-stacking and side driven belt order is drum-tested before shipment; ask for your photos.

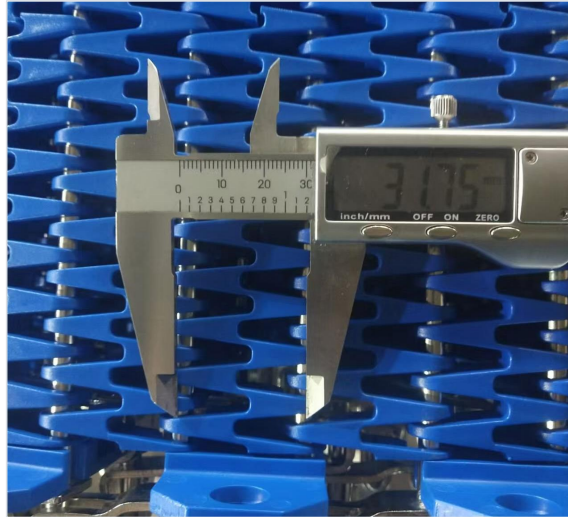
Mass production checked against the approved sample

The buyer's concern: the batch built differently from the sample.

What we did Built to drawing revision 02. Rod pitch and dimensions measured again in production; welded joints checked and cleaned.



Measuring in production



Dimension check



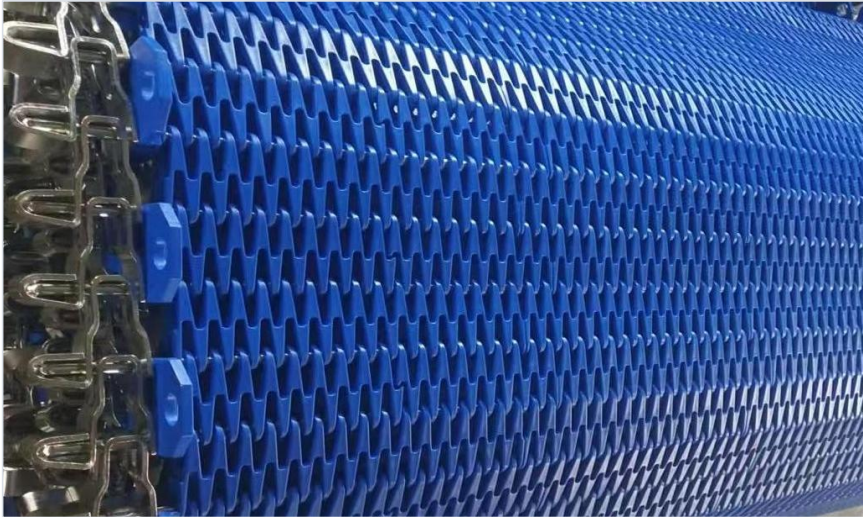
Welded link joint

How you can check: we can share the assembly and welding steps used for your belt.

100% final inspection before packing

The buyer's concern: problems that only show up on site.

Checked Dimensions, weld points, side guards and the electropolished finish along the full belt.



Finished belt before packing



Link side after finishing

How you can check: ask for final-inspection photos of your belt before it is packed.

Inner and outer packing for a long sea route

The buyer's concern: side guards or links damaged in transit.

Inner Belt wrapped in film inside a film-lined case; belts with side guards are not laid flat.

Outer Wooden case with steel edges and straps.



Inner: film-lined case



Inner: wrapped belt



Outer: wooden case (labels blurred)

How you can check: packing photos are sent before the container leaves.

Cases on arrival at the buyer's site

The buyer's concern: what the shipment looks like when it reaches the plant.

Received The cases arrived at the buyer's site in Thailand and were unpacked for installation.



Wooden cases at the buyer's site (people and labels blurred)

How you can check: tell us your port and preferred trade term (EXW, FOB or CIF).

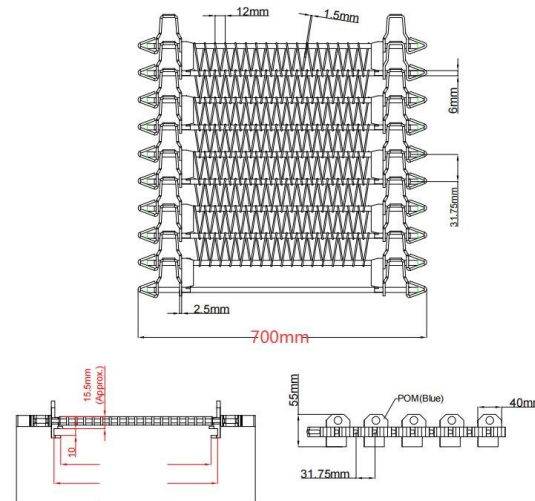
Lithuania, Europe: a side driven belt for new equipment

The buyer's task: a belt to a new drawing. Enquiry under drawing review, not yet ordered.

NEW PROJECT

Drawing Overall width 700 mm (27.56 in); rod pitch 31.75 mm (1.25 in); rod 6 mm (0.24 in); spiral pitch 12 mm (0.47 in); spiral wire 1.5 mm (0.06 in); link 2.5 mm (0.10 in); POM side guards 40 × 55 mm (1.57 × 2.17 in).

Next The drawing is reviewed against the buyer's drum and drive before a quotation is confirmed.

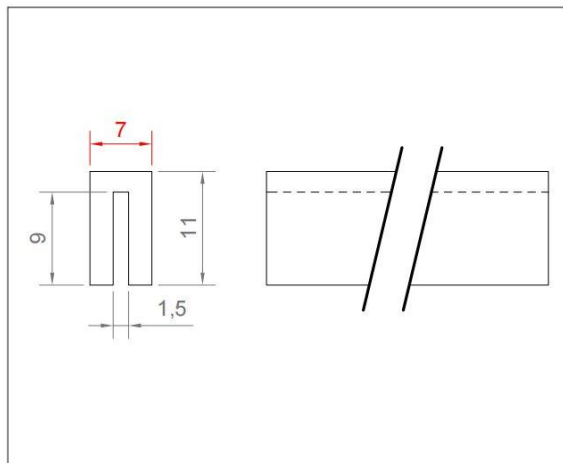


Belt drawing under review

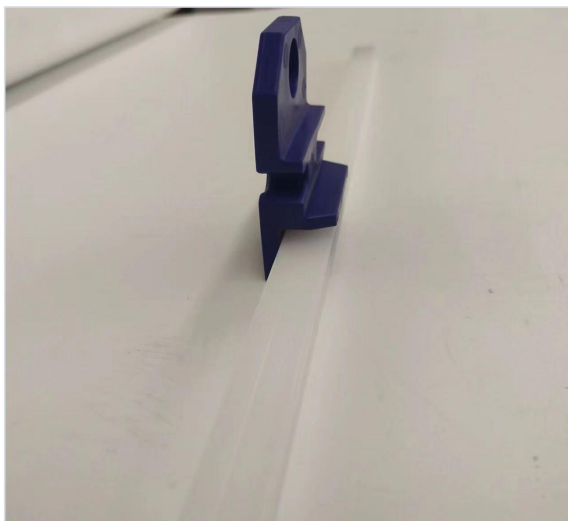
Side guards and profile, shown before quoting

The buyer's concern: parts that are described but never shown.

Shared with the buyer A U-shaped PE profile drawing (7×11 mm, gap 1.5×9 mm) and close-ups of POM side guards from earlier orders.



U-shaped PE profile drawing



POM side guard



POM side guard, front

How you can check: ask for close-ups of the side guards and parts for your belt.

Drum test photos from earlier side driven orders

The buyer's concern: will a new design turn on my drum?

Shared with the buyer Drum-test photos from earlier side driven orders, so the buyer can see how the test is done before ordering.



Measuring on the turn (earlier order)



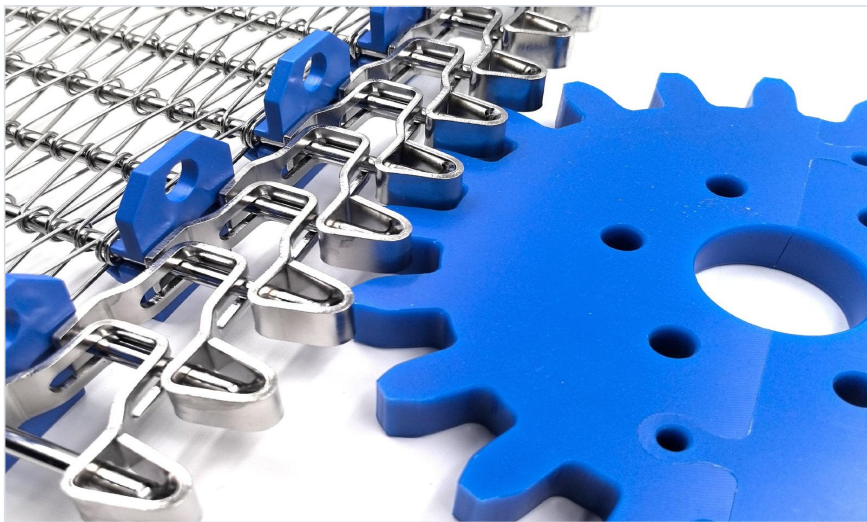
Belt laid out at the turning diameter (earlier order)

How you can check: send your drum diameter and turn direction with the drawing.

Side links engaging the sprocket

The buyer's concern: a belt and sprocket that do not mesh.

Checked Side links run on the sprocket to check engagement before shipment (earlier side driven orders).



Side links on the sprocket



Engagement close-up

How you can check: send your sprocket drawing or a photo of your sprocket; we check it against the belt.

Side driven belts in batch production

The buyer's concern: can the factory make the quantity, not only a sample?

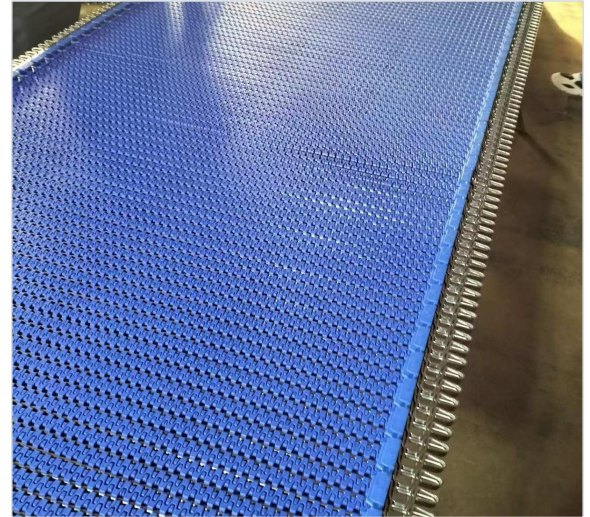
Shared with the buyer Finished side driven belts from earlier orders, before packing.



Finished belts (earlier order)



Rolled belts (earlier order)



Belt surface (earlier order)

How you can check: ask for the production photos of your order as it is made.



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Send your drawing, old belt or sample photos

- Belt width and length (mm / in)
- Drum diameter and turn direction
- Sprocket photos or drawing
- Operating conditions
- Old belt photos or sample

Request a Drawing Review