

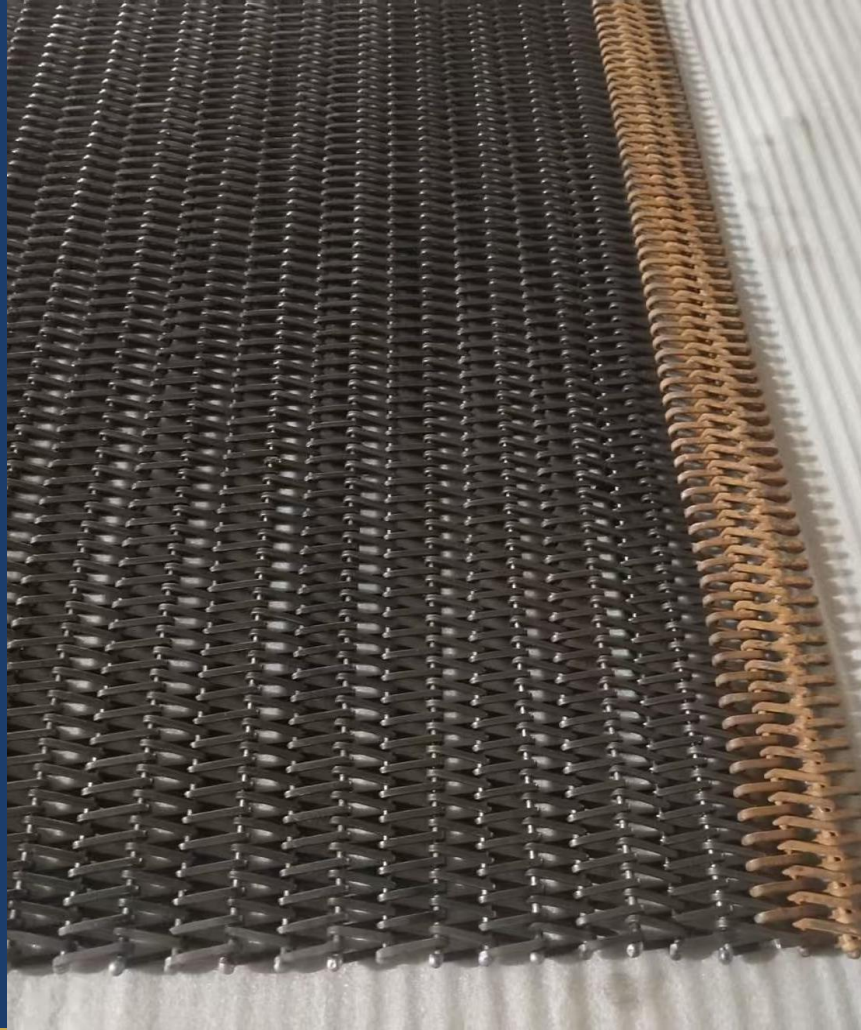


MANUFACTURING CASE STUDIES

BALANCED WEAVE BELT

Belts made from your sample,
sprockets matched to the belt

PROVEN · STABLE · VERIFIED



9 problems we stop before your belt ships



1

Joining ends

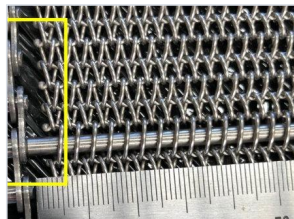
Ends left un-welded when the belt is joined on site.



2

Edge finish

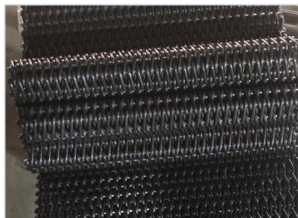
Welded or open ends, exactly as agreed on the drawing.



3

Full width

Mesh reaches the drive; width measured at several points.



4

Rust protection

Thin, even oil film on carbon steel, not an excess.



5

Belt on sprocket

Sprocket pitch matched to the belt before quoting.



6

Sprocket teeth

No black marks left from the polishing wheel.



7

Tooth edges

Burrs removed from every tooth edge.



8

Plastic bore

Bore checked; any scratch is reworked.



9

Plastic faces

Faces checked for scratches; each plastic sprocket packed separately.

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 the new belt match my old one?	Your old sample measured; the first article measured against it.	6, 9, 10
Can it join the belt still in use?	A splicing test: new belt joined to the buyer's old sample.	10
Will the sprockets fit the belt?	Belt wrapped on the sprocket; sprocket measured to drawing.	23, 24
Will the batch match the approved sample?	First-article and trial-production values before mass production.	9, 16, 20
Will carbon steel arrive straight and rust-free?	Rolls on tube cores, oil film, inner wrapping and wooden cases.	12, 17, 21

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

From your sample or drawing to a packed belt

You see the belt before mass production starts, and again before it is packed.

#	Stage	What we do	What you receive or approve
1	Your input	Old belt sample, photos or drawing; application and drive type.	Our written questions
2	Measurement	Pitch, spiral wire, cross rod and width measured on the sample.	Measurement photos
3	Our drawing	All values in mm and in.	You approve the drawing
4	Trial or first article	First piece measured; joined to your old belt if needed.	First-article photos
5	Mass production	Made to the approved drawing; edges and ends as specified.	Progress photos
6	Final inspection	100% final inspection; pitch and width measured again.	Inspection photos
7	Inner packing	Rolled on a galvanized tube core, oiled and wrapped.	Packing photos
8	Outer packing	Wooden case, labels and documents.	Shipping documents

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

Spain, Europe: a flattened-wire belt made from a worn sample

The buyer's task: no drawing, only a rusted piece of the old belt, and the new belt must join the old one.

REPLACEMENT PROJECT

Buyer Belt distributor, replacing a belt for its customer.

Belt Carbon steel flattened-wire balanced weave belt, width 3400 mm (133.86 in); flat spiral wire 3×1.6 mm (0.12×0.06 in); straight cross rod 3.0 mm (0.12 in); spiral pitch 8 mm (0.31 in); rod pitch 16 mm (0.63 in).

Rule A worn dimension is not the original design: every value was confirmed with the buyer on our drawing.



Buyer's old sample



Spiral pitch measured on the sample

The old sample, measured value by value

The buyer's concern: a new belt built on guesses.

What we measured Spiral pitch, rod pitch and cross rod on the buyer's rusted sample; the photos went back to the buyer with our questions.



Spiral pitch



Rod pitch



Cross rod

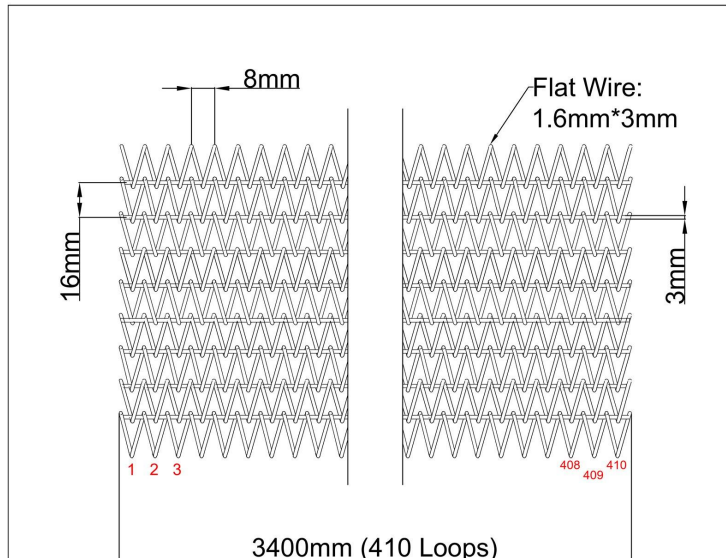
How you can check: send a short section of your old belt; we return the measurement photos with our drawing.

Our drawing, made from the sample

The buyer's concern: values that nobody wrote down.

Drawn Width and loop count, flat wire size, cross rod, spiral pitch and rod pitch.

Shared The drawing went to the buyer together with the measurement photos of the sample.



Our drawing for this belt

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

Wire flattened first, then coiled

The buyer's concern: a flat wire that is not the size of the original.

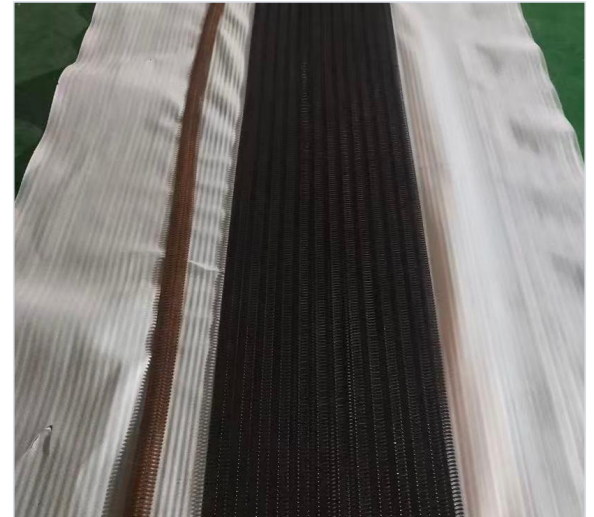
Process Round wire flattened and measured before coiling into spirals; the first coiled section was checked against the sample.



Flat wire measured



Flat wire measured



First coiled section

How you can check: ask for the wire measurement photos of your belt.

First article measured before mass production

The buyer's concern: a new belt that looks right but does not match the old one.

Measured Spiral pitch and full width on the first production piece; the photos went to the buyer before mass production.



Spiral pitch 8.00 mm



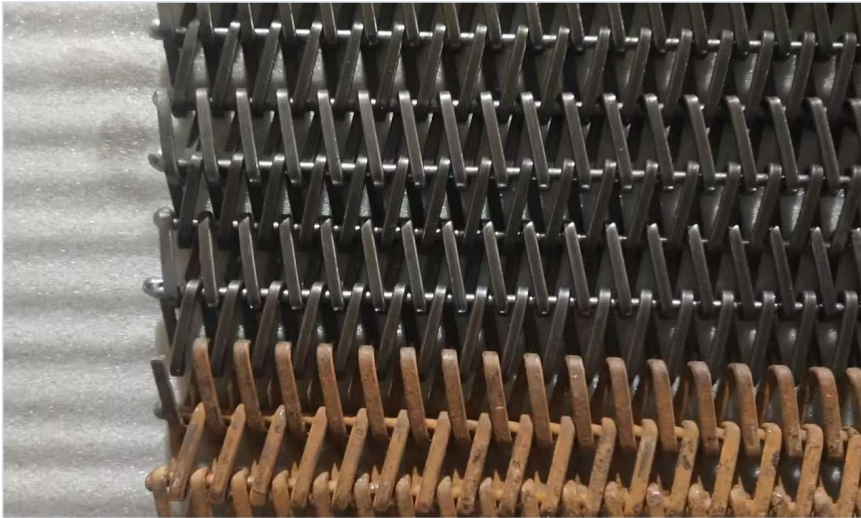
Width 340 mm

How you can check: first-article photos are sent with the measured values for your confirmation.

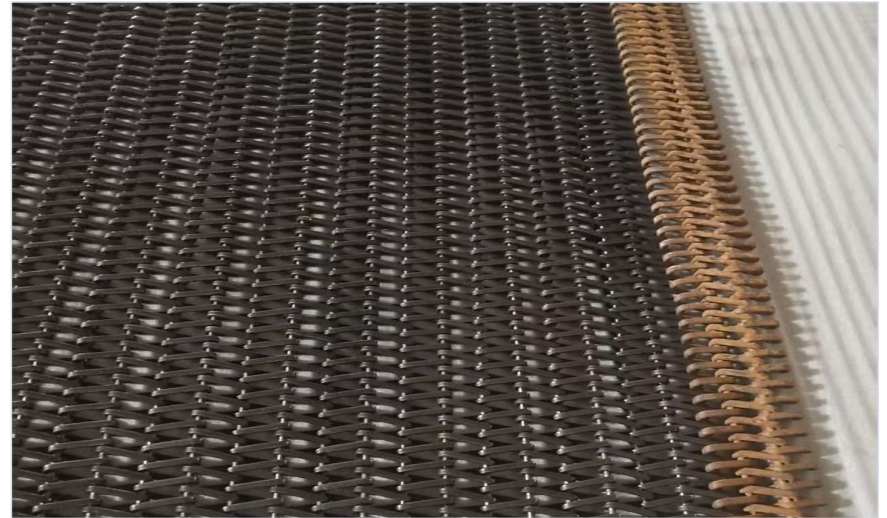
Splicing test: the new belt joined to the old one

The buyer's concern: a new belt that will not connect to the belt still in use.

What we did Joined the new belt to the buyer's old sample in the workshop and filmed it for the buyer. An extra short section with un-welded ends was supplied for joining on site.



Old sample (brown) beside the new belt



Old sample joined to the new belt

How you can check: if your new belt must join an existing one, send a sample; we film a splicing test before shipment.

Measured again after rolling

The buyer's concern: dimensions change between inspection and shipment.

Checked Spiral pitch and width measured again on the rolled, wrapped belt before the case was closed.



Spiral pitch re-checked after wrapping



Width re-checked on the roll

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

Inner and outer packing for a wide belt

The buyer's concern: a 3.4 m wide belt bent or rusted in transit.

Inner Rolled on galvanized tube cores, rust-protection oil, wrapped.

Outer Long wooden cases, strapped (labels blurred).



Inner: tube core



Inner: rolls in the case



Outer: long wooden cases

How you can check: packing photos are sent before shipment.

Spain, Europe: a carbon steel belt for a bread line

The buyer's task: replace a bread-line belt when the first data sent were incomplete.

REPLACEMENT PROJECT

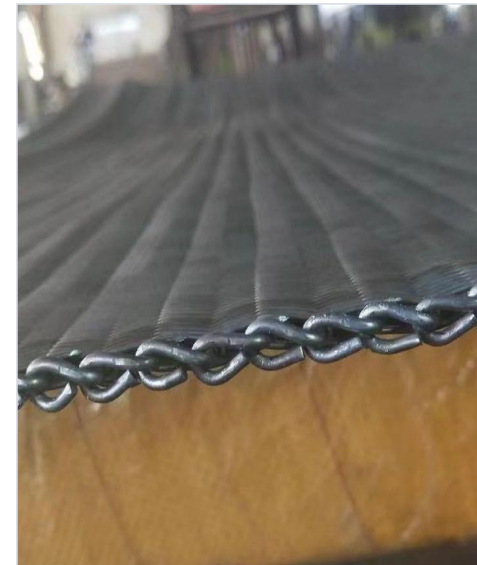
Buyer Belt distributor; the belt runs on a bread line.

Belt Carbon steel balanced weave belt, width 1650 mm (64.96 in); spiral wire 1.0 mm (0.04 in); straight cross rod 2.0 mm (0.08 in); spiral pitch 2.5 mm (0.10 in); rod pitch 9 mm (0.35 in); clinched edge.

Quantity 64 m (210 ft), by sea. Reordered to the same drawing.



Belt surface



Clinched edge

Questions settled before the sample was made

The buyer's concern: hidden assumptions in a quotation. Each point was answered in writing before sampling.

Point raised	What happened
Application	We asked where the belt runs. The buyer confirmed a bread line.
Wire size	From the buyer's photos the wire looked heavier than the data sent; we asked the buyer to confirm before quoting.
Material	The enquiry started in AISI 304; the buyer chose carbon steel for the sample and the order.
Pitch	The buyer asked for a smaller pitch; we said in advance which pitch could and could not be made.
Sample	A 300 mm (11.81 in) wide sample was made and approved before the belt order.

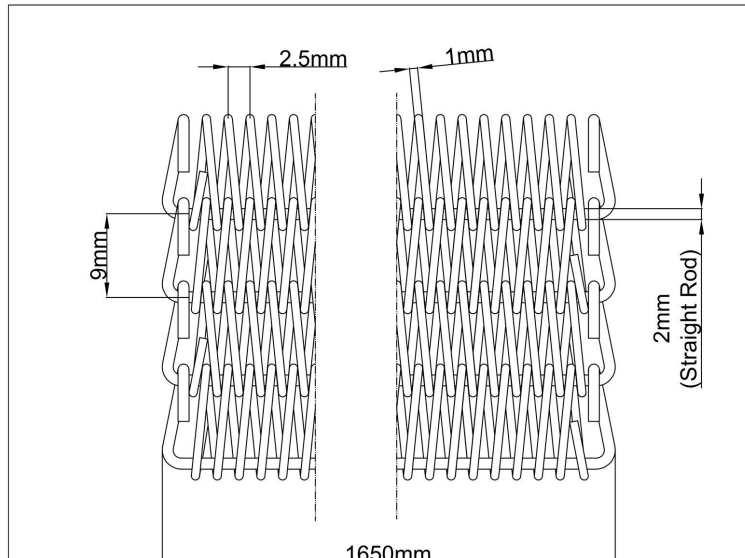
How you can check: these exchanges are kept with the order file; agreed values go onto the drawing.

One drawing for the first order and the reorder

The buyer's concern: a reorder that is not the same belt.

Drawn Width, spiral wire, straight cross rod, spiral pitch, rod pitch and clinched edge.

Reorder Made to the same drawing, with a trial piece and first-article photos again before production.



Our drawing for this belt

How you can check: quote your previous order; we check the new belt against the same drawing.

First article measured against the approved sample

The buyer's concern: the batch differs from the approved sample.

Measured Rod pitch, spiral pitch and cross rod on the first production piece; photos sent to the buyer before mass production.



Rod pitch 9 mm



Spiral pitch 2.50 mm



Cross rod 2.00 mm

How you can check: ask for the first-article photos of your belt before mass production starts.

Rolled on tube cores, oiled, cased

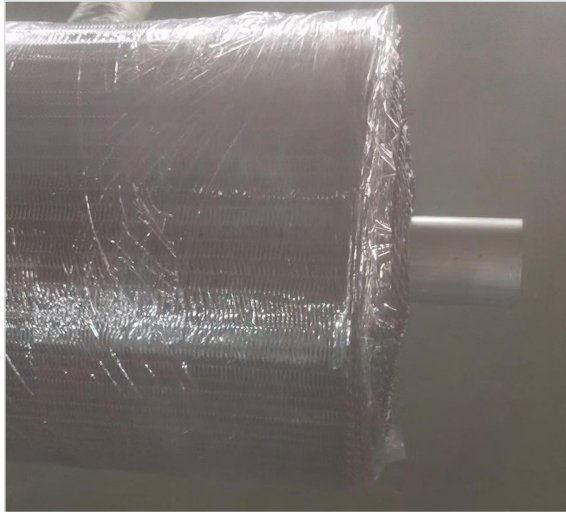
The buyer's concern: a long, wide belt crushed or rusted in transit.

Inner Rolled on galvanized tube cores, thin oil film, wrapped in film.

Outer Wooden case with steel edges (shipping marks blurred).



Inner: rolls



Inner: tube core and wrapping



Outer: wooden case

How you can check: packing photos are sent before shipment.

Australia, Oceania: a wide carbon steel belt, reordered

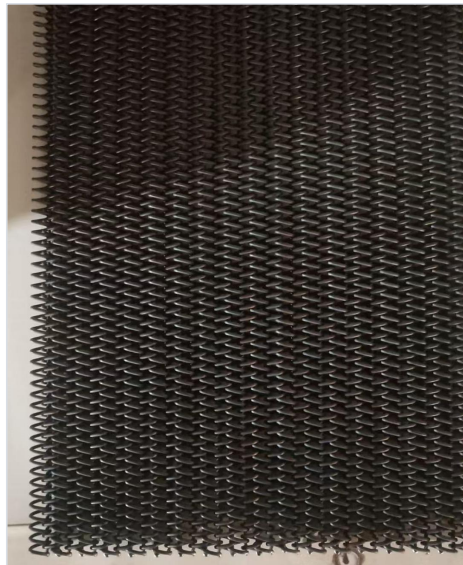
The buyer's task: a replacement belt for an end user in New Zealand, and a second order that matches the first.

REPLACEMENT PROJECT

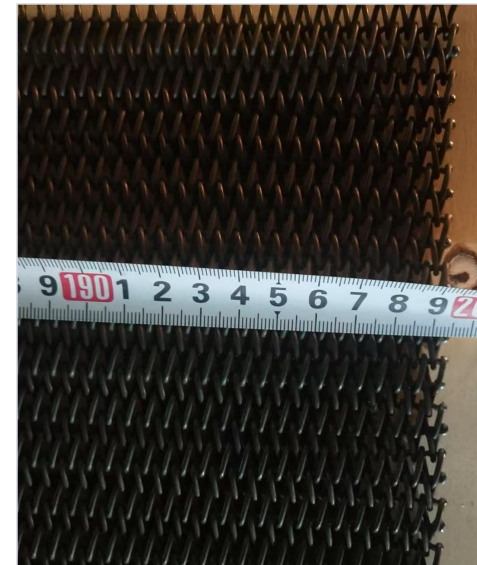
Buyer Belt distributor in Australia; the belt went to an end user in New Zealand.

Belt Carbon steel balanced weave belt, width 1994 mm (78.50 in); spiral wire 1.6 mm (0.06 in); cross rod 1.6 mm (0.06 in); spiral pitch 5.08 mm (0.20 in); rod pitch 6.35 mm (0.25 in); welded edge.

Quantity 52 m (171 ft). Reordered to the same data.



Belt surface



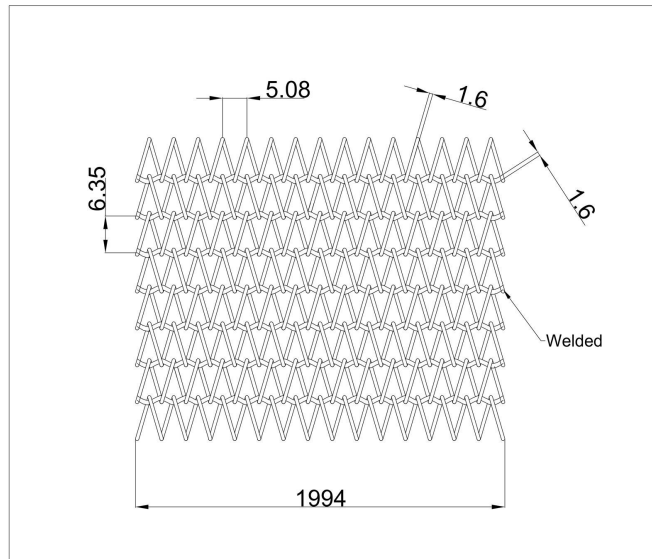
Width check

The same drawing for both orders

The buyer's concern: the second order not matching the first.

Drawn Width, spiral wire, cross rod, spiral pitch, rod pitch and welded edge.

Reorder Made to the same data and drawing as the first order.



Our drawing for this belt

How you can check: quote your previous order; we check the new belt against the same drawing and records.

Trial production measured and sent to the buyer

The buyer's concern: finding a wrong pitch after the belt arrives.

Measured Spiral pitch, wire and rod pitch on the trial piece; photos sent to the buyer before mass production.



Spiral pitch 5.08 mm



Spiral wire 1.60 mm



Rod pitch 6.35 mm

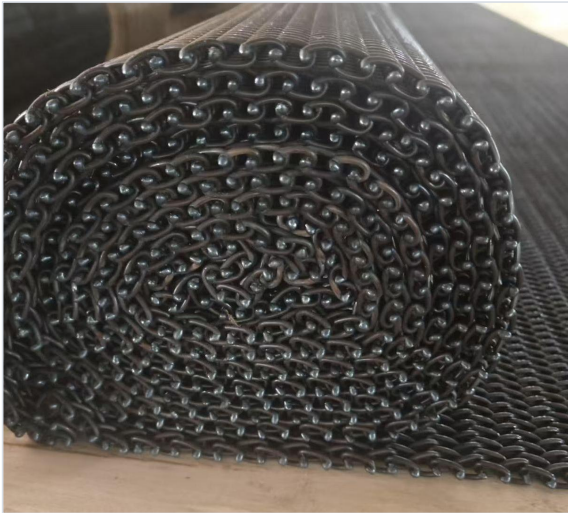
How you can check: ask for trial-production photos of your order.

Inner and outer packing

The buyer's concern: a 2 m wide belt damaged on a long route.

Inner Rolled on galvanized tube cores, in a foam- and film-lined case.

Outer Wooden case (labels blurred).



Inner: rolled belt



Inner: lined case



Outer: wooden case

How you can check: packing photos are sent before shipment.

Australia, Oceania: a belt and six sprockets to drawing

The buyer's task: a stainless belt and matching nylon sprockets, supplied together.

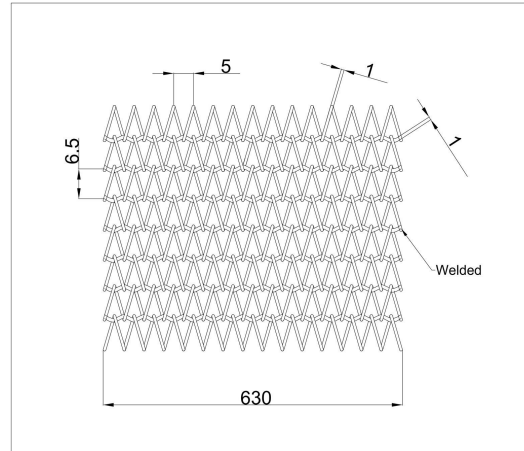
NEW PROJECT

Buyer Belt distributor in Australia.

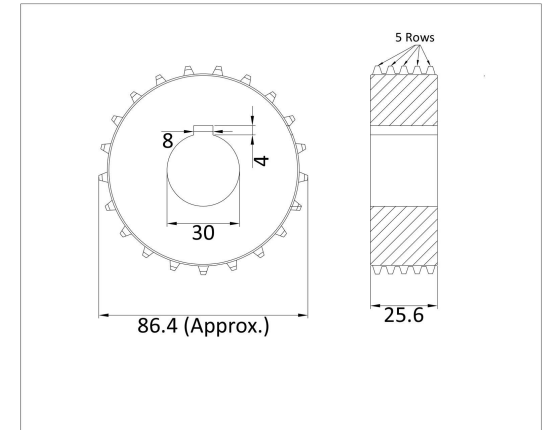
Belt SUS304 balanced weave belt, width 630 mm (24.80 in); spiral pitch 5 mm (0.20 in); rod pitch 6.5 mm (0.26 in); wire and rod 1 mm (0.04 in); welded edge.

Sprockets Six nylon sprockets, 21 teeth, bore 30 mm (1.18 in) with keyway, thickness 25.6 mm (1.01 in).

Approved Both drawings confirmed by the buyer by e-mail before production.



Our belt drawing



Our sprocket drawing

The belt wrapped on its sprocket

The buyer's concern: a belt and sprocket from one supplier that still do not mesh.

Checked The finished belt was wrapped on a sprocket to check engagement before packing.



Belt wrapped on the sprocket



Finished belt

How you can check: send your sprocket drawing or an old sprocket with the belt data; we check them together.

Every sprocket measured to the drawing

The buyer's concern: a bore or keyway that does not fit the shaft.

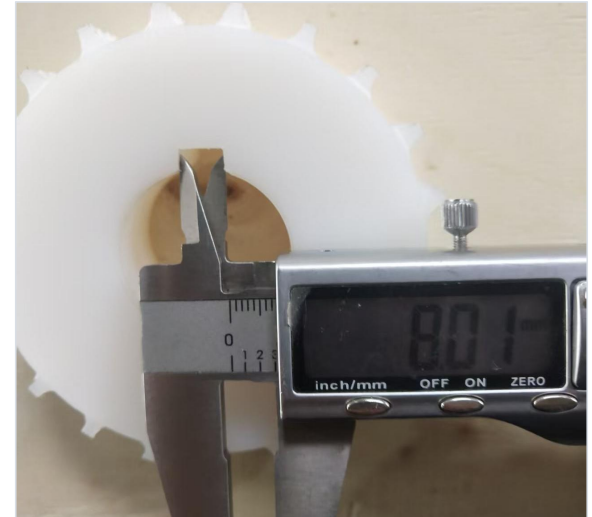
Measured Outside diameter, bore and keyway of each sprocket against our drawing.



Outside diameter



Bore 30 mm



Keyway

How you can check: ask for close-up photos of the sprockets in your order.

Belt and sprockets packed together

The buyer's concern: parts scratched or lost in a courier shipment.

Packed Belt rolled and wrapped; sprockets packed in the same box.



Rolled belt



Belt and sprockets in the box

How you can check: packing photos are sent before shipment.



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Send your old belt sample or drawing

- Belt width and length (mm / in)
- Spiral pitch, wire and cross rod
- Drive: sprocket, roller or friction
- Material and operating conditions
- Old belt sample or photos

Request a Drawing Review