



MANUFACTURING CASE STUDIES

SPIRAL FREEZER BELT

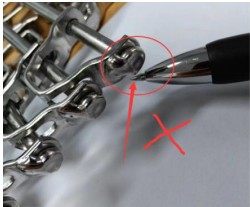
Four manufacturing projects,
from trial records to shipment checks

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What we check before shipment

1–4: quality reference examples. 5–9: project inspection records.



1

Weld projections

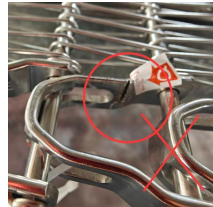
Inspect raised welds.
Correct the finish and
reinspect before release.



2

Weld finish

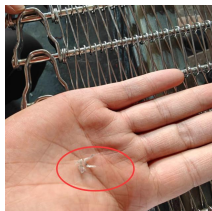
Compare the edge finish
with the agreed
workmanship
requirements.



3

Link integrity

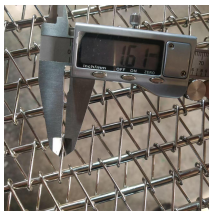
Check for broken or
damaged links. Replace
affected parts and
reinspect.



4

Foreign material

Remove loose debris
and inspect the belt
again before packing.



5

Wire diameter

Measure the wire
specified for this order,
independently of pitch.



6

Rod pitch

Use the agreed
reference points and the
current project drawing.



7

Link height

Check link geometry
separately from the
carrying mesh.



8

Overall width

Confirm the width
reference before
recording the
measurement.



9

Edge arrangement

Match the washer and
rod arrangement to the
approved drawing.

Reference examples show inspection topics, not defects attributed to the projects in this book.

Five questions answered by actual order records

4 projects, shown through drawings and manufacturing photographs.

Buyer question	What this casebook shows	Pages
Will each order have its own specification?	Four separate manufacturing records, with drawings and photographs.	5, 8, 11, 14
Which width is being checked?	Width references recorded at trial or first article and shipment.	6, 12, 15
How is rod pitch documented?	Separate close-ups from the corresponding production stages.	7, 10, 13, 16
Can I inspect the edge construction?	Welded-rod and washer-welded edge details from actual orders.	5, 11, 14
Will the next order have fresh records?	A later order with its own drawing and shipment checks.	14–16

Quality checks: page 2. Our manufacturing process: page 4. Project records follow.

From drawing review to inspection and packing

Our order controls. The following cases show the available project records.

#	Stage	What we do	What you receive or approve
1	Project review	Review drawings, application and equipment interfaces.	Questions to confirm
2	Specification	Confirm dimensions, material and supply scope.	Agreed specification
3	Drawing approval	Use the approved drawing revision for manufacture.	Your drawing approval
4	Trial and first article	Trial production, then first-article confirmation.	First-article records
5	Production and drum test	Manufacture to the drawing; drum-test before shipment.	Production and test records
6	Final inspection	100% final inspection before packaging.	Agreed inspection records
7	Inner protection	Apply protection appropriate to the material and order.	Packing requirements
8	Outer packing	Check the package, identification and dispatch documents.	Packing and dispatch records

For formal replacement: physical old belt, available drawings and equipment details, followed by remeasurement and structural review.

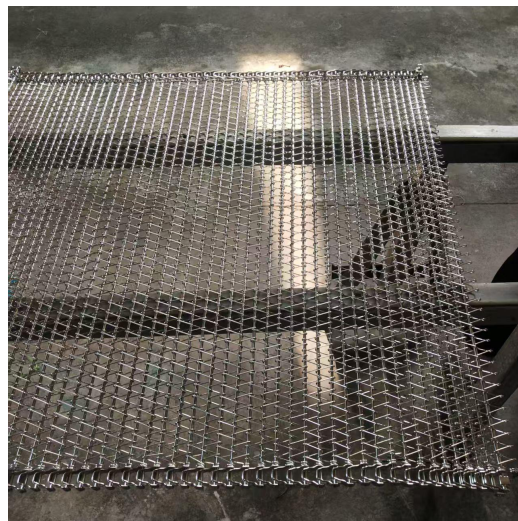
An 850 mm belt, from first article to shipment

The buyer's check: Will the manufactured belt follow the same specification at both stages?

What we made. The order drawing defines an 850 mm overall width, 19.05 mm rod pitch and welded-rod edge. First-article and shipment photographs show the same project at two stages.



First-article belt and edge overview



Belt overview in the shipment records

How you can check: Ask for first-article and shipment records linked to your approved drawing.

Overall width and chain centres are different references

The buyer's check: Which width is being checked in each photograph?

What we recorded. This drawing separates 850 mm overall width from 822 mm chain centres. The tape photographs document width checks; identify the measurement endpoints before comparing the reading with the drawing.



Width check in the first-article records



Width check in the shipment records

How you can check: Agree whether each width is overall, chain-centre or useful width before acceptance.

Rod pitch is measured at both production stages

The buyer's check: Is the rod pitch recorded separately from the mesh opening?

What we checked. The drawing calls for a 19.05 mm rod pitch. Separate first-article and shipment close-ups show this dimension. The wire pitch and rod pitch remain distinct specification fields.



Rod-pitch measurement at first article



Rod-pitch measurement before shipment

How you can check: Compare the same pitch definition at each stage, using the agreed tolerance.

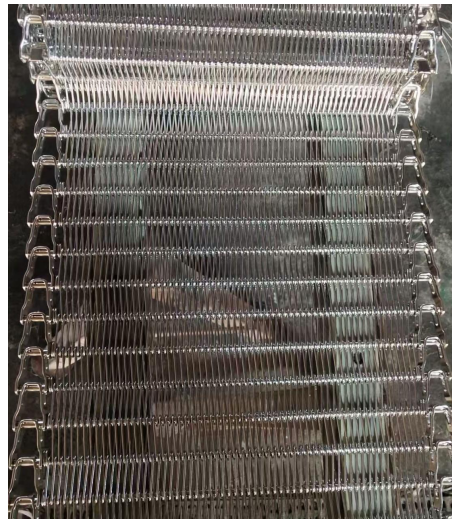
A 350 mm belt with a different mesh construction

The buyer's check: Will a narrower belt receive its own manufacturing definition?

What we made. A separate order uses 350 mm overall width, 5 mm spiral pitch and 27.4 mm rod pitch. Its first-article and shipment records keep this construction separate from the wider project.



First-article overview of the 350 mm belt



Overview in this order's shipment records

How you can check: Keep a separate drawing and inspection record for every belt configuration.

Wire diameter has its own inspection evidence

The buyer's check: Can you show the wire measurement, rather than infer it from appearance?

What we recorded. This project specifies a 1.6 mm spiral-wire diameter. The photographs show wire measurements at first article and before shipment. Material identity requires the agreed material documentation, not a visual judgement.



Spiral-wire measurement at first article



Spiral-wire measurement before shipment

How you can check: Review the dimensional evidence and request the material records agreed for your order.

The 27.4 mm rod pitch is checked again before dispatch

The buyer's check: Do the two stages use the same measurement reference?

What we checked. The first-article and shipment close-ups both document rod pitch on the assembled belt. These are records of this specific order; they do not define a universal pitch or acceptance tolerance.



First-article rod-pitch record



Shipment rod-pitch record

How you can check: Compare the current drawing, measurement method and agreed tolerance together.

A 1,129 mm belt with washer-welded edges

The buyer's check: Does the edge construction match the drawing?

What we made. This project drawing specifies washer-welded edges, with the rods able to rotate freely. Trial and shipment photographs make the edge arrangement visible. A static photograph alone does not prove movement.



Edge detail in the trial-production records



Edge detail in the shipment records

How you can check: Check edge construction against the drawing and agree how movement will be verified.

Width records stay with the correct drawing revision

The buyer's check: Can you trace the width check to the manufactured configuration?

What we recorded. The project uses a 1,129 mm overall width and a revision-controlled drawing. Trial-production and shipment photographs document the width reference on the same order.



Trial-production width measurement



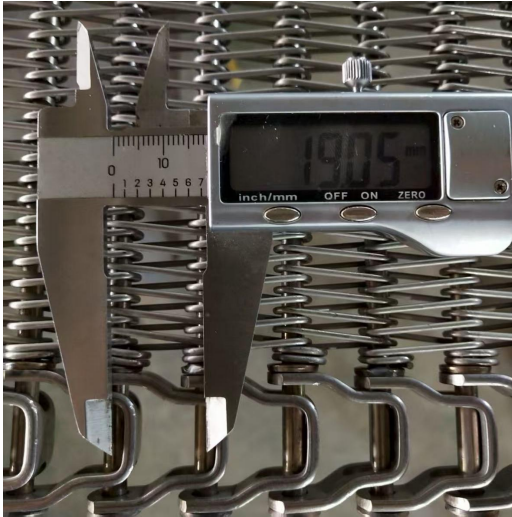
Width measurement before shipment

How you can check: Request the drawing revision and the corresponding inspection photographs together.

Rod pitch is visible in trial and shipment records

The buyer's check: Which dimensions are rechecked on the finished belt?

What we checked. This drawing specifies a 19.05 mm rod pitch, separately from the 4.8 mm spiral pitch. The two close-ups show rod-pitch records at trial production and shipment.



Rod-pitch check during trial production



Rod-pitch check in the shipment records

How you can check: Compare like-for-like dimensions; do not treat spiral pitch as rod pitch.

A later 1,129 mm order has its own evidence

The buyer's check: Will a familiar-looking specification still have a separate order record?

What we supplied. A later order has its own drawing and shipment photographs. It specifies the same nominal overall width and washer-welded edge form, but remains a separate manufacturing record.



Overall belt in the later shipment records



Washer-welded edge in the same order

How you can check: Match the inspection evidence to the current order, even when nominal dimensions recur.

Overall width and rod diameter are checked separately

The buyer's check: Can you show both assembly size and component size?

What we recorded. This order drawing specifies 1,129 mm overall width and 5 mm rod diameter. The shipment set contains separate tape and caliper photographs for these different checks.



Overall-width measurement before shipment



Rod-diameter measurement on the assembled belt

How you can check: Agree the measurement endpoints and compare each reading with its own drawing field.

Pitch and link thickness complete the dimensional record

The buyer's check: Are the edge links checked as well as the carrying mesh?

What we checked. The drawing specifies 19.05 mm rod pitch and 2.5 mm link thickness. Separate shipment close-ups document these dimensions. Equipment fit also requires the agreed drum and turning geometry.



Rod-pitch record for this order



Link-thickness record for this order

How you can check: Review belt dimensions and equipment interfaces together before manufacturing approval.

The records your team can review before ordering

Different decision-makers need different evidence from the same project.

Review role	What to confirm for your order	Next step
Your maintenance team	Confirm width, belt geometry and existing equipment.	Drawing review
Your equipment designer	Review the belt and its drive interface together.	Interface review
Your quality team	Agree inspection points, tolerances and required material documents.	Evidence agreed
Your purchasing team	Confirm variants, lengths and delivery requirements per order.	Order review
Your distributor or service team	Link every photo and drawing to the correct belt variant.	Clear handover

Next step: send drawings and equipment details. Photos support preliminary review.



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Send your belt drawing for review

- Belt width and turning geometry
- Drum and drive interface
- Rod, wire and edge construction
- Material and operating conditions
- Physical old belt for replacement

Request a Drawing Review

Photos support preliminary review. Formal replacement needs a physical old belt, available drawings and equipment details, then remeasurement and structural review.