



MANUFACTURING CASE STUDIES

CHAIN DRIVEN BELT

Four manufacturing projects,
with drawings and measured checks

PROVEN · STABLE · VERIFIED



What we check before shipment

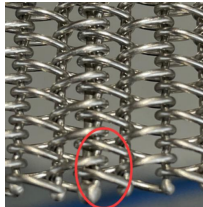
1–4: quality reference examples. 5–9: project inspection records.



1

Edge finish

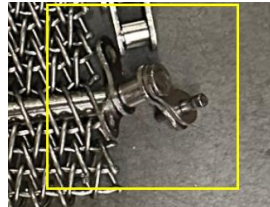
Discoloration prompts review and treatment before reinspection.



2

Unwanted welds

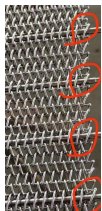
Inspect weld locations. Correct unintended connections and recheck movement.



3

Chain integrity

A broken section requires replacement and inspection of the remaining chain.



4

Edge shape

Lay the belt flat. Correct distortion and inspect the edge again.



5

Chain pitch

Measure against the current drawing. Model names alone are insufficient.



6

Rod spacing

Check the support-rod spacing separately from chain pitch.



7

Mesh wire

Record the wire diameter specified for this order.



8

Support rods

Confirm rod diameter against the approved drawing.



9

Width reference

Use the same reference at first article and before dispatch.

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
Which width will you manufacture?	A signed drawing distinguishes chain centres from overall width.	5, 9–11
How are chain and mesh dimensions checked?	First-article close-ups of pitch, wire and support rods.	6–7
Can you document several variants?	Separate drawings and measured photos for three widths.	9–12
Will you check this order again?	First-article and shipment records from a separate order.	13–15
What evidence covers the drive components?	Belt and sprocket drawings with component measurements.	16–18

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.

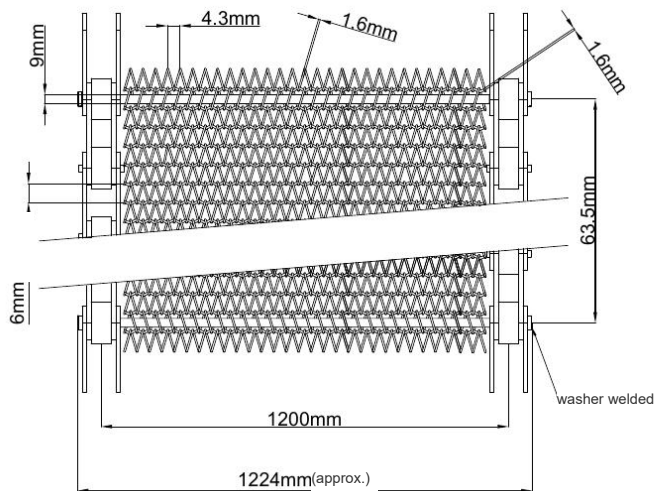
#	Stage	What we do	What you receive or approve
1	Project review	Review drawings, application and equipment interfaces.	Questions to confirm
2	Specification	Confirm dimensions, material and supply scope.	Agreed specification
3	Drawing approval	Use the approved drawing revision for manufacture.	Your drawing approval
4	Trial and first article	Trial production, then first-article confirmation.	First-article records
5	Production	Manufacture to the approved drawing and first article.	Production 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.

A 76 m order with 1,200 mm chain centres

The buyer's check: chain-centre width and overall width must be specified separately.

What we made The signed drawing specifies a SUS304 belt with C2052 chains, 1,200 mm chain centres and approximately 1,224 mm overall width. The order length is 76 m.



Technical diagram from the signed project drawing



The manufactured belt and its chain edges

How you can check: compare the chain-centre width, overall width and edge detail on the drawing before approving production.

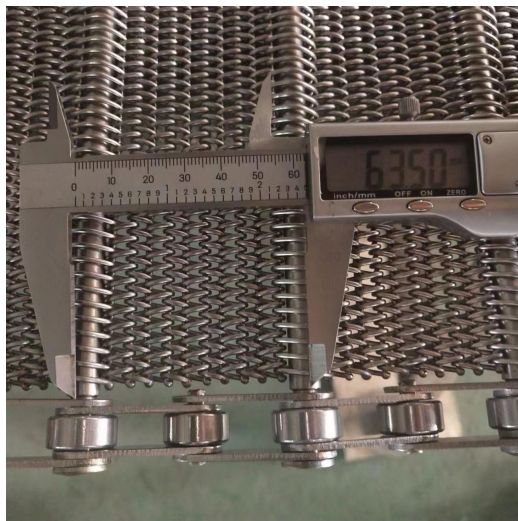
The chain pitch has its own inspection record

The buyer's check: a chain model name alone does not define the complete drive interface.

What we checked The project drawing specifies a 31.75 mm chain pitch and 63.5 mm support-rod spacing. The first-article photographs record these dimensions on the assembled belt.



Chain-pitch measurement at the side of the belt



Support-rod spacing measured on the same first article

How you can check: request measurement photographs against the dimensions in your approved drawing.

The mesh wire and support rods are checked separately

The buyer's check: an overall belt photograph cannot show every critical dimension.

What we checked The drawing specifies 1.6 mm wire and 9 mm support rods. Close-up measurements document both features rather than relying on the appearance of the finished mesh.



Wire measurement in the first-article photo set



Support-rod diameter measurement

How you can check: identify the dimensions that matter to your equipment and include them in the first-article review.

The finished belt is documented before wrapping

The buyer's check: assembly details become harder to review once the belt is packed.

What we recorded The project records include exposed chain and rod connections, followed by protective wrapping. These views let the buyer examine the belt before packaging obscures the details.



Exposed chain, rod and mesh connections



Protective wrapping in the shipment photo set

How you can check: agree which exposed-belt and packing photographs you need before dispatch.

Three belt widths under one project

The buyer's check: several similar belts must remain identifiable during production.

What we made Three project drawings specify chain-centre widths of 350, 500 and 650 mm, each at 145.288 m. Each width has its own dimensioned drawing and measurement photographs.



One of the manufactured belt variants



A second variant in the same multi-width project

How you can check: keep a separate drawing and inspection record for each width, even when the mesh specification is shared.

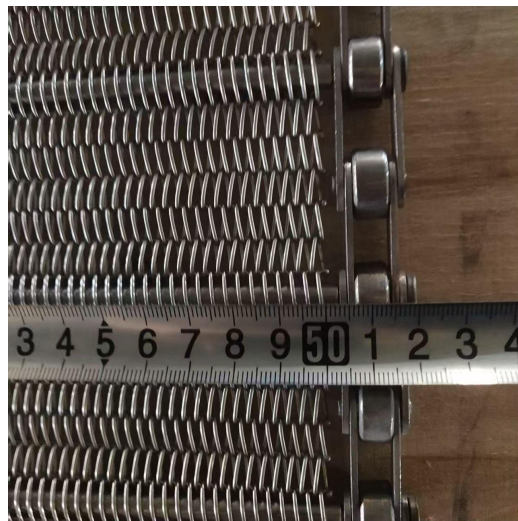
Width checks distinguish the individual variants

The buyer's check: a correct mesh specification does not prevent a width mix-up.

What we checked The shipment records include separate width measurements for the 350 mm and 500 mm chain-centre variants. The drawing identifies the measurement reference for each belt.



Width measurement for the 350 mm chain-centre variant



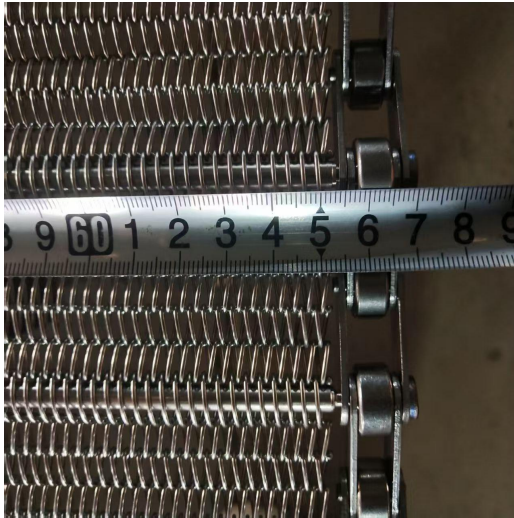
Width measurement for the 500 mm chain-centre variant

How you can check: ask for the measurement reference and variant identification together, not an isolated ruler photograph.

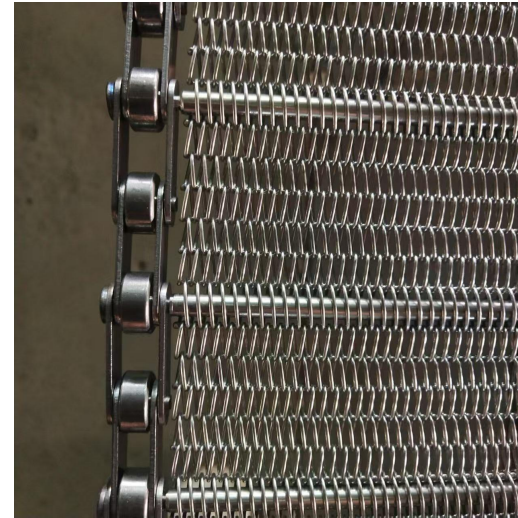
The 650 mm variant receives its own check

The buyer's check: one inspected width should not stand in for every belt in the order.

What we recorded The third drawing specifies 650 mm between chain centres. Its photograph set includes a width check and the corresponding chain-edge assembly.



Width check for the 650 mm chain-centre variant



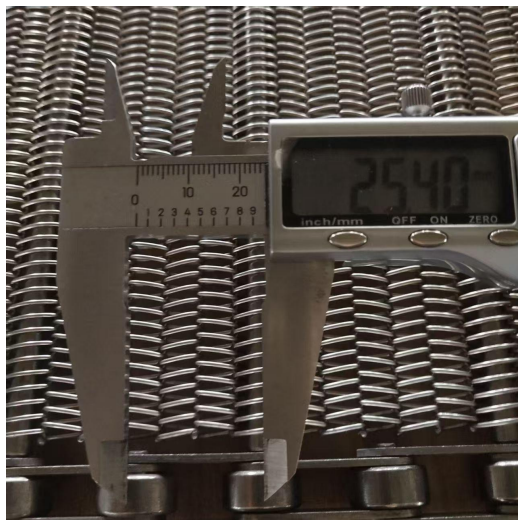
Chain edge of the same wider variant

How you can check: review every variant listed in your order before authorising shipment.

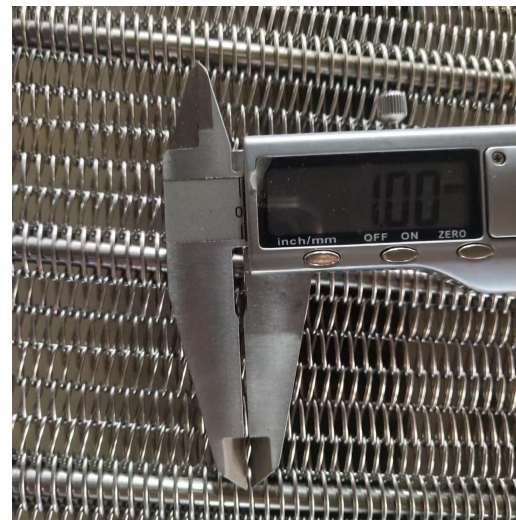
Common specifications still need measured evidence

The buyer's check: variants may share a drawing specification but still need individual inspection.

What we checked The project drawings specify C2042 chains with 25.4 mm pitch and 1.0 mm mesh wire. The photographs record these features on the manufactured belts.



Chain-pitch measurement on a manufactured variant



Wire-diameter measurement on another variant

How you can check: use the drawing revision and variant reference to review the complete set of measurements.

Another 1,200 mm belt, with a new order record

The buyer's check: a similar previous belt does not replace verification of the current order.

What we made This separate project specifies 93.726 m of SUS304 chain-driven belt, with 1,200 mm chain centres and C2052 chains. Its records include both first-article and shipment photographs.



Belt overview in the first-article photo set



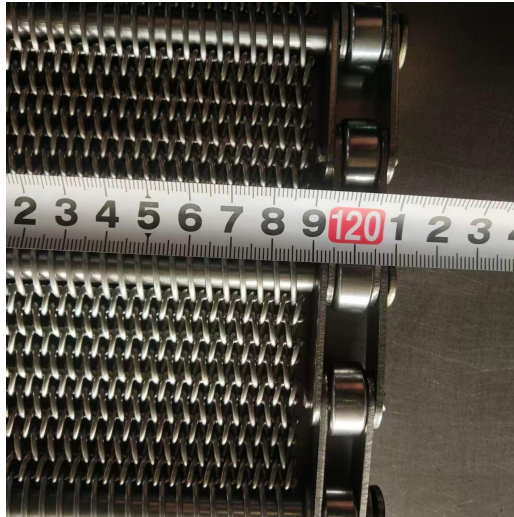
Assembled belt in the shipment photo set

How you can check: review the current order's drawing and photographs, even when a previous belt looks similar.

Width is recorded at first article and before dispatch

The buyer's check: the production batch must follow the dimensions reviewed earlier.

What we recorded The first-article and shipment photo sets both include width measurements. The approved dimension reference remains the project drawing, not a photograph from an earlier order.



Width measurement in the first-article records



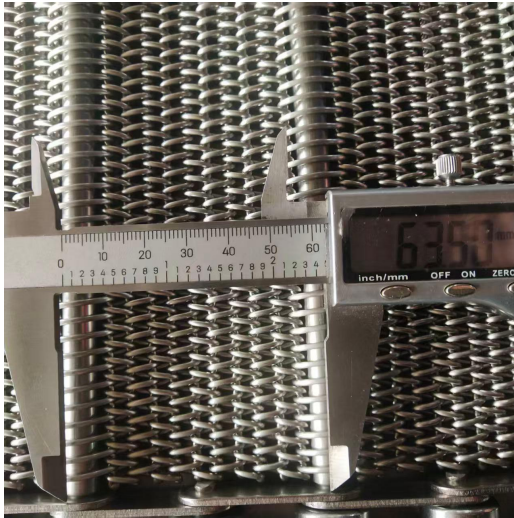
Width measurement in the shipment records

How you can check: compare the same drawing dimension at both stages, including the measurement reference and tolerance.

The same dimension is visible at both stages

The buyer's check: repeat measurements should refer to the same structural feature.

What we checked The drawing specifies 63.5 mm support-rod spacing. Both record sets show this measurement on the assembled mesh and chain structure.



Support-rod spacing at first article



Support-rod spacing in the shipment records

How you can check: request comparable close-ups so your team can trace the dimension from first article to dispatch.

A belt and sprockets supplied in one project

The buyer's check: belt geometry and drive components must be reviewed together.

What we supplied The order has separate technical drawings for a chain-driven belt and four sprockets. The inspection photographs cover the belt structure as well as the individual drive components.



The chain-driven belt supplied for this project



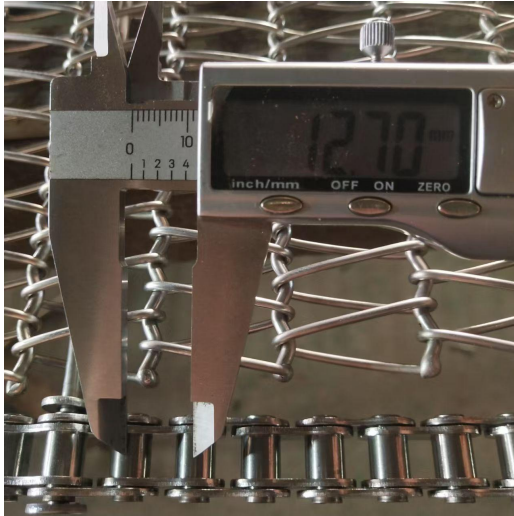
One of the sprockets in the same order

How you can check: review the belt and sprocket drawings as a set before confirming the order.

Chain pitch and sprocket bore are separate checks

The buyer's check: a matching outside appearance does not establish the shaft or chain interface.

What we checked The belt drawing specifies a 12.7 mm chain pitch. The sprocket drawing specifies a 20 mm bore. The photographs record both checks on the supplied components.



Pitch measurement on the side chain



Bore measurement on a project sprocket

How you can check: confirm chain pitch, tooth geometry, bore and shaft fixing details together for your equipment.

Sprocket dimensions are recorded before supply

The buyer's check: the hub and tooth section also affect assembly.

What we recorded The same component photo set includes overall thickness and tooth-section measurements. These add detail to the bore check and support a drawing-based component review.



Overall sprocket thickness measurement



Tooth-section thickness measurement

How you can check: agree the component inspection points before production. Dimensional photos do not replace an agreed running test.

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

- Chain centres and overall width
- Chain pitch, mesh and rods
- Sprocket and shaft details
- 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.