



MANUFACTURING CASE STUDIES

CHAIN PLATE / PLATE LINK BELT

One project, two widths,
with plate, chain and guard checks

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What we check before shipment

Project inspection records. These photographs illustrate checks on manufactured belts.



1

Belt assembly

Review the complete plate, chain and rod arrangement.



2

Surface and edges

Compare plate surfaces and edge details with the agreed specification.



3

Overall width

Identify the correct width reference before measuring.



4

Second variant

Keep each variant and its width record separate.



5

Plate thickness

Verify plate thickness against the drawing.



6

Side guards

Measure the side guards independently of the carrying plates.



7

Chain pitch

Confirm chain pitch separately from plate geometry.



8

Cross rods

Measure cross-rod diameter on the assembled belt.



9

Rollers

Document the specified roller dimension before dispatch.

Inspection acceptance follows the approved drawing and project requirements.

Five questions answered by actual order records

One project, shown through drawings and manufacturing photographs.

Buyer question	What this casebook shows	Pages
How is the assembly documented?	Finished-belt views show plate and chain construction.	5
Which width does the drawing mean?	Overall, chain-centre and useful width are separated.	6
Are guards and plates the same thickness?	Separate measured records for the two features.	7
How is the drive edge checked?	Chain-pitch and rod measurements on the assembly.	8
Can I compare production stages?	Roller checks at first article and shipment.	9

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.

Two plate-belt widths, with separate technical drawings

The buyer's check: the plates, guards and chains form one equipment interface.

What we made One project specifies two SUS304 plate belts with 257.2 mm and 282 mm overall widths. Both drawings define the plates, side guards, cross rods and large-roller chains.



Assembled plate belt in the shipment records



Plate surface and side-chain assembly

How you can check: review the complete assembly rather than selecting by plate width alone.

Overall width is not the same as useful carrying width

The buyer's check: a width description must say which part of the assembly is measured.

What we checked The drawings distinguish overall width from approximate chain-centre and useful widths. The shipment photographs show the overall-width checks for both variants.



Overall-width check on the 257.2 mm variant



Overall-width check on the 282 mm variant

How you can check: identify carrying width, chain centres and overall width separately.

Plates and side guards have separate thickness checks

The buyer's check: guard details influence the assembly and clearance.

What we checked The drawings specify 2 mm plates and 2.5 mm side guards. The inspection photographs record the two thicknesses separately.



Plate-thickness measurement



Side-guard thickness measurement

How you can check: include guard height, thickness and clearance in your drawing review.

The chain and rod dimensions are visible on the assembly

The buyer's check: the side drive must match the intended equipment.

What we checked The project drawings specify 31.75 mm chain pitch and 6 mm cross rods. These features are measured in the shipment photographs.



Chain-pitch measurement



Cross-rod diameter measurement

How you can check: review chain pitch, roller geometry, rods and sprocket information together.

A roller dimension is recorded at both stages

The buyer's check: measurement records should be traceable to the same feature.

What we recorded The drawing specifies a 19.05 mm roller diameter. First-article and shipment photographs both record the roller check, giving the buyer two stages to review against the agreed drawing.



Roller measurement in the first-article records



Roller measurement in the shipment records

How you can check: compare the records with the agreed tolerance; a displayed measurement alone is not an acceptance decision.

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

- Width references and belt layout
- Plate, rod and chain dimensions
- Side guards and clearances
- 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.