



MANUFACTURING CASE STUDIES

DRIVE SPROCKETS & COMPONENTS

Three supply projects,
with shaft and belt interface checks

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What we check before shipment

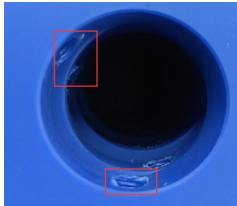
1–6: quality reference examples. 7–9: project inspection records.



1

Polishing marks

Remove dark residue and reinspect the tooth surfaces.



2

Plastic bore

Assess bore damage and replace affected parts when required.



3

Plastic faces

Check scratches. Protect each plastic part separately during packing.



4

Tooth burrs

Deburr tooth edges and reinspect the finish.



5

Bore burrs

Inspect the bore and remove burrs before a further check.



6

Plastic edges

Inspect burrs and dirt. Clean, assess and recheck.



7

Bore size

Measure the shaft interface against the component drawing.



8

Overall thickness

Check the complete component thickness and hub requirements.



9

Keyway

Confirm the keyway for this shaft and sprocket variant.

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

Five questions answered by actual order records

3 projects, shown through drawings and manufacturing photographs.

Buyer question	What this casebook shows	Pages
Can belt and sprockets be reviewed together?	Separate drawings within one supply project.	5
Which shaft dimension is checked?	A bore measurement and component thickness record.	6
Can different sprockets share a tooth count?	Two eye-link variants with different bores and keyways.	7–8
What changes for a nylon component?	Square-bore and thickness records for a specific drawing.	9–10
What must be confirmed for my equipment?	Belt, tooth, bore, fixing, material and operating details.	11–12

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	Coordinate specialist component manufacture to the drawing.	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

How you can check: agree the component drawing, shaft interface and inspection records before ordering.

A belt and four sprockets supplied as one project

The buyer's check: component selection starts with the belt and shaft interfaces.

What we supplied The order includes separate technical drawings for the chain-driven belt and four SUS304 sprockets. The project photographs show both parts of the supply.



The project belt



One supplied sprocket

How you can check: review the belt and component drawings together. Sprocket manufacture uses a specialist external process.

The bore and overall thickness have measured records

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

What we checked The sprocket drawing specifies a 20 mm bore and 22 mm overall thickness. The project photographs record both checks on the supplied components.



Bore-diameter measurement



Overall-thickness measurement

How you can check: confirm the required tolerances and shaft details before accepting the dimensions.

Two 12-tooth sprockets with different shaft interfaces

The buyer's check: tooth count alone does not identify the correct component.

What we supplied The eye-link project has separate sprocket drawings for 85 mm and 70 mm bores. Both specify 12 teeth, but their outside diameters, hubs and keyways differ.



One sprocket variant in the project



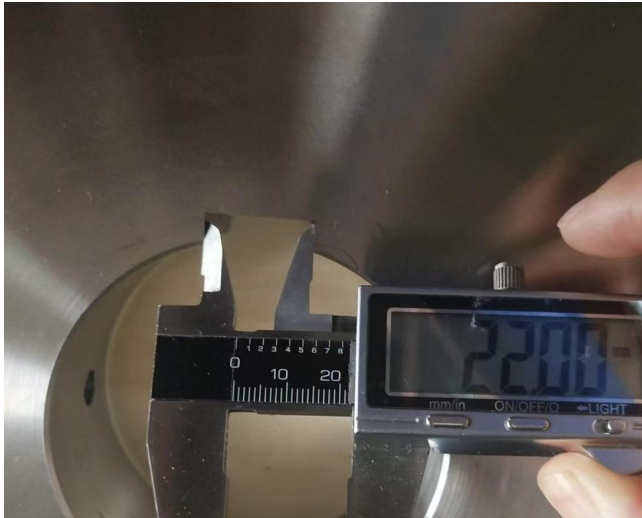
The second variant from the same project

How you can check: match every sprocket drawing to the intended belt and shaft.

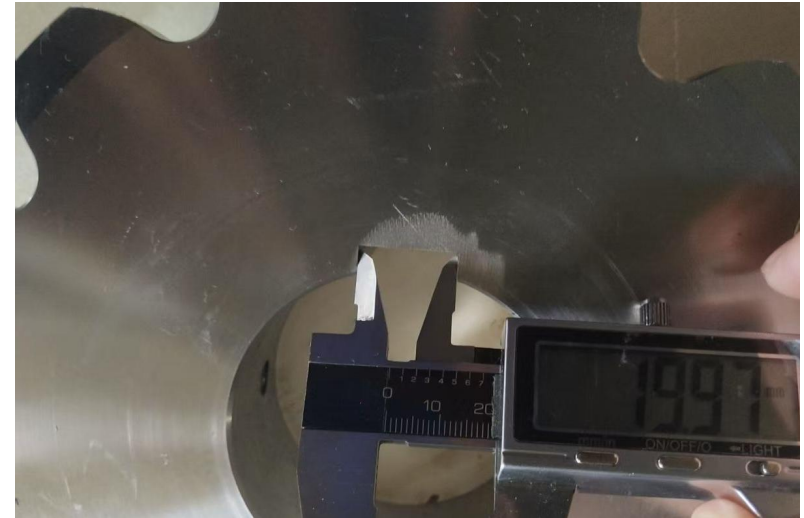
Different keyways are checked on the two variants

The buyer's check: shaft fixing needs its own dimensional review.

What we checked The drawings specify 22 mm and 20 mm keyway widths for the two variants. Both keyway measurements appear in the project photographs.



Keyway-width measurement on the larger-bore variant



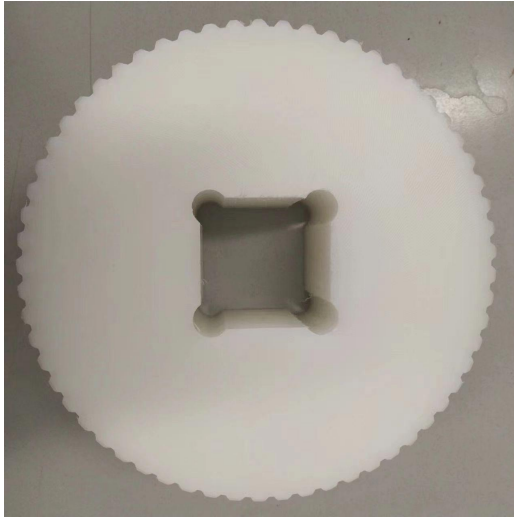
Keyway-width measurement on the other variant

How you can check: review keyway depth, width and fixing details with the shaft drawing.

A nylon component with a specified square bore

The buyer's check: material and shaft geometry are project-specific selections.

What we supplied Revision 02 of this drawing specifies a nylon sprocket with a 40 by 40 mm square bore, 50 mm overall thickness and approximately 150 mm outside diameter.



Square-bore nylon sprocket from the project



Tooth and component-thickness view

How you can check: confirm the material grade, temperature and operating conditions for your own application.

Square bore and thickness are recorded separately

The buyer's check: the two shaft directions and component thickness must be clear.

What we checked The shipment photographs record the square-bore width and overall thickness. The drawing also identifies the belt dimensions intended for this project.



Square-bore width measurement



Overall-thickness measurement

How you can check: review the complete interface drawing; these dimensional photos do not establish a running-test result.

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 the shaft, belt interface 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 the component drawing, shaft interface and matching belt details for review.



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Send your part drawing for review

- Belt pitch and tooth geometry
- Bore, keyway and shaft fixing
- Matching belt dimensions
- Material and operating conditions
- Quantity and delivery needs

Request a Drawing Review

A complete, accurate component drawing may be sufficient. We confirm any further sample or interface information after review.