YIYI MESH BELT

PRODUCTION & QUALITY CONTROL

SPIRAL FREEZER BELT

Manufacturing processes and project inspection

PROVEN · STABLE · VERIFIED

Manufacturing and project control

Ningjin Yiyi Mesh Belt Co., Ltd.

A manufacturer of metal conveyor belts and related conveyor components based in Ningjin, Shandong, China.

Manufacturing experience since 1998.
Current company established in 2008.

Core belt forming, assembly, welding and inspection are managed in-house. Selected surface treatments and supporting components use external suppliers.

YIYI MESH BELT manufacturing site

Approval and inspection sequence

Stage	Control point
01 Drawing approval	Confirm dimensions, materials and equipment interfaces.
02 Trial production	Inspect the first article before mass production.
03 Matching verification	For applicable projects, check approved drum geometry.
04 Mass production	Check formed components, assembly and weld condition.
05 Final inspection	Inspect the finished belt before shipment.
06 Packing and records	Confirm packing requirements and retain order records.

Project drawings define the final configuration and inspection requirements.

Stainless steel wire drawing

In-house wire preparation

Dedicated wire-drawing equipment supports the preparation of stainless steel wire for belt manufacture.

Project requirement

Confirm the material grade and wire diameter against the approved specification.

Round-bar drawing

In-house rod preparation

Round-bar drawing is part of YIYI MESH BELT's material preparation capability.

Project requirement

Rod material and diameter are selected for the belt design and approved drawing.

Material inspection equipment

Alloy composition screening

Tensile testing equipment

Hardness testing equipment

Confirm the applicable test method, acceptance criteria and required material records for each project.

Wire and rod diameter checks

Wire diameter measurement

Rod diameter measurement

Check wire and rod diameters against the approved specification. Agree dimensions and tolerances in mm / in for the project.

Spiral wire forming

Spiral forming equipment

Production workshop

Wire is formed into the spiral elements used in the belt. Confirm the required mesh geometry before batch production.

Spiral forming inspection

Formed spiral measurement

Spiral geometry check

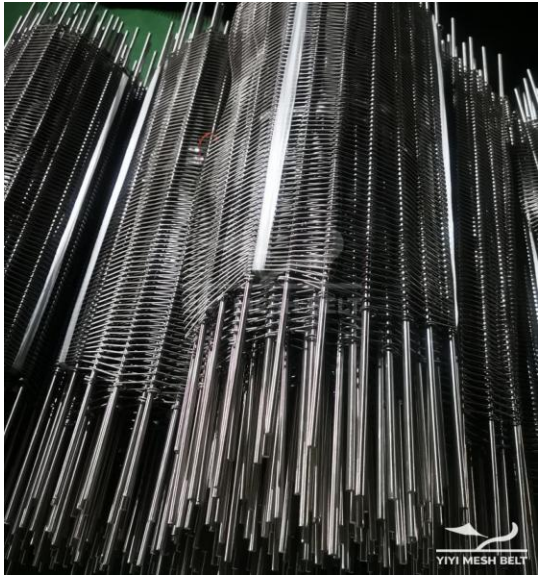
Trial pieces are checked against the approved geometry before continuing production.

Link dimensional inspection

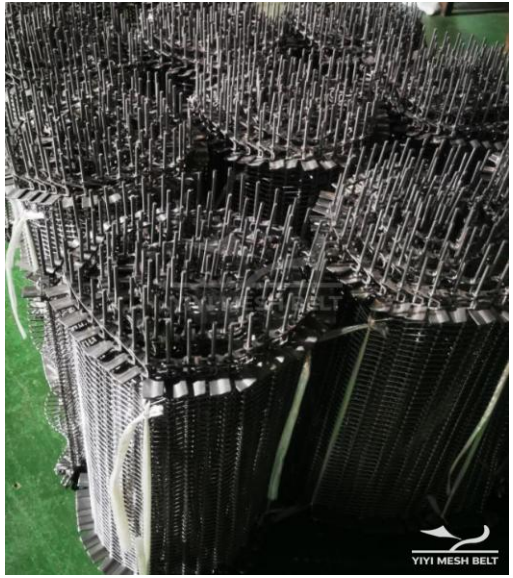
Component dimensions are checked during production. Acceptance dimensions and tolerances follow the approved drawing.

Belt assembly and straightening

Formed components



Rod-and-spiral assembly



Assembled belt

Spiral elements and rods are assembled, then adjusted for belt flatness. Final geometry follows the approved specification.

Robotic edge welding

Welding under in-house control

YIYI MESH BELT operates 9 automatic welding robots across its manufacturing operations.

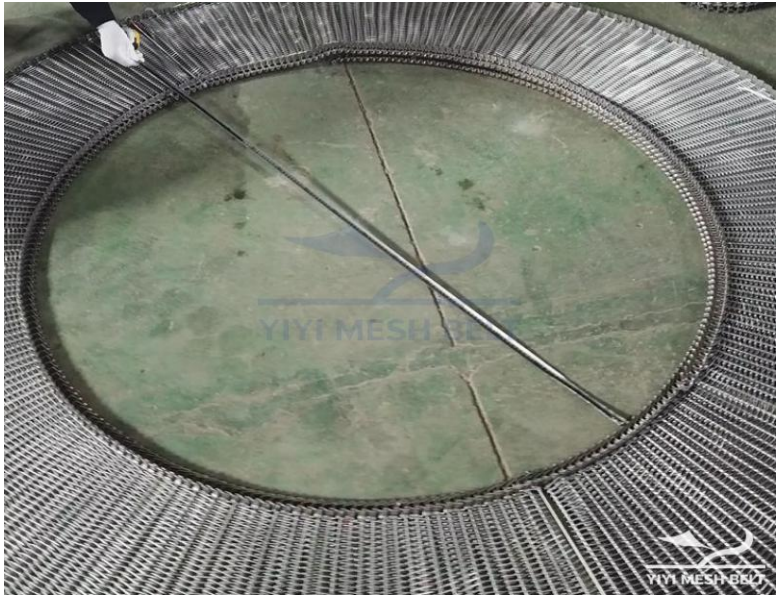
Project requirement

Weld configuration and inspection requirements follow the selected belt construction. The equipment count is company-wide.

Trial production and first-article inspection

Customized orders undergo trial production and first-article inspection before mass production. Photographs show measurement examples; use the approved drawing for acceptance values.

Drum geometry and matching verification



Drum geometry measurement

Belt arrangement for geometry review

For applicable projects, verify approved drum geometry before mass production. Confirm the belt width, turn geometry and equipment interfaces together.

Finished belt dimensional inspection

Finished belt geometry is checked against the approved specification. Measurement photographs show project examples, not universal belt dimensions.

Edge finish inspection

Welded edge detail

Edge consistency check

Inspect the selected edge construction for weld condition, consistency and burrs against the agreed requirements.

Additional edge construction details

Edge construction detail

Finished edge detail

Edge finish and connection details must match the approved belt design. Select the configuration with the equipment application in mind.

Final inspection and surface-treatment review

All YIYI MESH BELT mesh belts undergo 100% final inspection before shipment. Where surface treatment is specified, re-inspection follows treatment; selected treatments use external suppliers.

Protective packing and supplied accessories

Protected belt ready for packing

Accessories packed with the belt

Confirm the supplied accessories and packing requirements against the order before shipment.

Wooden-case packing

Packed shipment

Wooden-case protection

Packing is arranged for the agreed transport route and destination requirements. Wooden-case fabrication uses external suppliers.

Project records and repeat-order support

Record	Purpose for the buyer
Approved drawing and revision	Maintain the agreed specification for manufacture and reorders.
Material and production records	Support order traceability and review of manufacturing history.
Inspection records and photographs	Review recorded checks against the agreed requirements.
Customer confirmations	Retain technical decisions and approved changes.

Agree the inspection documents you need before production.

For replacement projects, include existing belt details, equipment geometry and operating conditions.

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Send Your Drawing for Production Review

- Belt dimensions (mm / in)
- Equipment / drum geometry
- Material and operating conditions
- Inspection requirements
- Existing belt photos / sample

Request an Engineering Review