YIYI MESH BELT

RAW MATERIALS

FROM WIRE ROD TO YOUR BELT

Where the steel comes from
and how each batch is checked

PROVEN · STABLE · VERIFIED



From incoming steel to the wire in your belt



1

Raw material
5.0 mm wire rod and 12 mm drawing stock, processed in-house.



2

Spectral test
Every incoming batch.



3

Hardness test
Every incoming batch.



4

Tensile test
Strength of wire and rod.



5

Wire drawing
In-house stainless wire drawing.



6

Rod drawing
In-house round-bar drawing.



7

Wire diameter
Measured against your drawing.



8

Rod diameter
Measured against your drawing.



9

Traceability
Batch code stamped on parts.

Five questions buyers ask about material

Material is the hardest thing to check once the belt arrives — so we show how it is checked before.

Your question	What we show you	Pages
Where does the steel come from?	Our two raw-material types, stocked in the factory.	4
Is every batch checked?	Mill documents, spectral, hardness and tensile tests.	5–6
Who controls the wire and rod sizes?	In-house wire and round-bar drawing, then measurement.	7–9
Which grades can you supply?	Material options for each belt family.	10
Can I trace the material in my belt?	Records from raw material to finished belt.	12

How you can check: ask for the mill documents of the material in your order.

Two raw materials, stocked in the factory

Your concern: a factory that buys whatever wire is available that week.

What we stock 5.0 mm wire rod and 12 mm drawing stock, about 50 tons in regular inventory. These are inputs, not finished belt sizes: the final wire and rod sizes follow your drawing.



Raw-material processing line

> **How you can check:** ask which raw material and route are used for your belt.

Every incoming batch is tested

Your concern: a grade on paper that is not the grade in the belt.

Each batch Steel mill documents, material confirmation, spectral analysis and hardness testing.



Spectral analysis



Hardness tester

> **How you can check:** ask for the mill documents of the batch used in your order.

Tensile testing of wire and rod

Your concern: wire that looks right but is too weak or too hard.

What we do Tensile tests on wire and round bar, alongside spectral and hardness tests. Which tests are reported for your order is agreed with you.



Tensile tester

How you can check: tell us at the enquiry if you need test records with the shipment.

Stainless wire drawn in our own factory

Your concern: wire sizes that drift from batch to batch.

In-house One stainless steel wire drawing line supports all 12 belt families. Not every wire size for every order is drawn in-house; we tell you the route for your order.



Wire drawing line



Drawn wire

> **How you can check:** ask whether the wire in your belt is drawn in-house.

Cross rods drawn in our own factory

Your concern: cross rods that do not fit the links or sprockets.

In-house One round-bar drawing line, mainly for spiral freezer, side driven, self-stacking, eye link, chain driven and plate link belts. Final route depends on your drawing.



Round-bar drawing

> **How you can check:** ask for rod diameter photos of your order.

Diameters measured again on the belt

Your concern: correct wire before forming, wrong size on the finished belt.

Checked Wire and rod diameters are measured before forming and again on the first article of your belt.



Wire before forming



Rod before forming



Rod on the first article

How you can check: first-article photos are sent with the measured values.

Materials by belt family

Your concern: being offered one grade for every application.

Belt family	Materials
Spiral freezer, self-stacking, side driven	SUS304 / SUS316
Eye link	Mild steel / SUS304 / SUS316
Flat wire / honeycomb	SUS304 / SUS316 / SUS316L / mild steel
Chain driven	SUS304 / SUS316 / carbon steel
Plate link, balanced weave, compound weave	SUS304 / SUS316 / mild steel
Trapezoidal (flex)	SUS304 / SUS316
Drive sprockets and components	SUS304 / SUS316 / carbon steel / UHMW-PE / nylon / POM

How you can check: the grade for your belt is confirmed on the drawing and PI for your operating conditions.

Carbon steel belts: protected against rust

Your concern: a carbon steel belt that arrives rusty.

How Carbon steel belts get a thin, even anti-rust oil film and are rolled on a tube core, wrapped in waterproof film and cased. Stainless belts are packed clean and dry.



Carbon steel rolls, oiled and wrapped



Rolled on a tube core

How you can check: tell us how long the belt will be stored before installation.

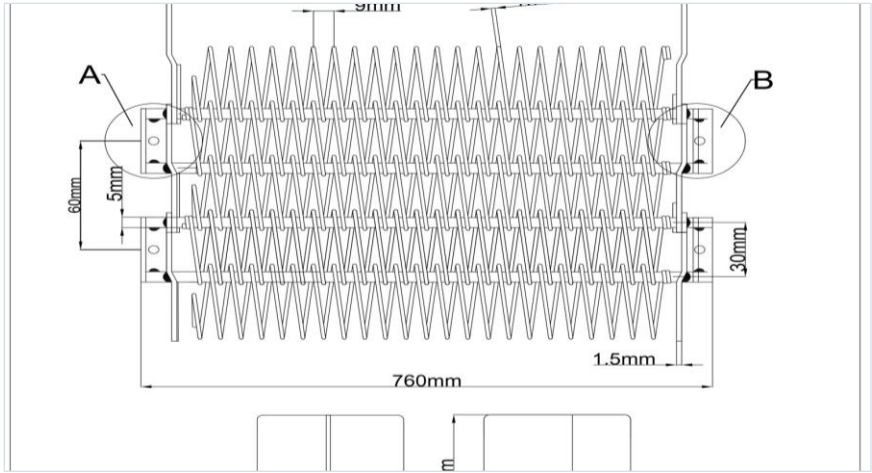
Records from raw material to finished belt

Your concern: a problem found later that no one can trace.

Records Material records, processing and production records, inspection records and order identification. A batch code can be stamped on parts.



Batch code on a tier plate



The approved drawing kept for repeat orders

> **How you can check:** ask for a batch code on your belt when you order.

What our material testing does — and does not — mean

Your concern: a supplier who implies more testing than is done.

It does not mean	What it does mean
Every order gets every test	Incoming batches are tested; order records are agreed with you
Every shipment includes all test documents	You tell us which documents you need
Every order is third-party tested	Third-party inspection can be arranged when agreed
Every wire size is drawn in-house	We tell you the route for your order

How you can check: agree the material documents for your order before production.

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Tell us the grade and documents you need

- Belt type and application
- Required material grade
- Operating temperature and environment
- Material documents you need
- Drawing, old belt or photos

Request a Drawing Review