



TECHNICAL SPECIFICATION

SPIRAL FREEZER BELT

Small-radius configuration
Dimensions in mm and in

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YIYI MESH BELT www.yiyimeshbelt.com YIYI-SRF-PPT-V1.3
YIYI-PPT-SMALL-RADIUS-SPIRAL-FREEZER-BELT-20260924-V1.3



C / Public review 24 Sep 2026 01 / 14

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Manufacturing for equipment applications

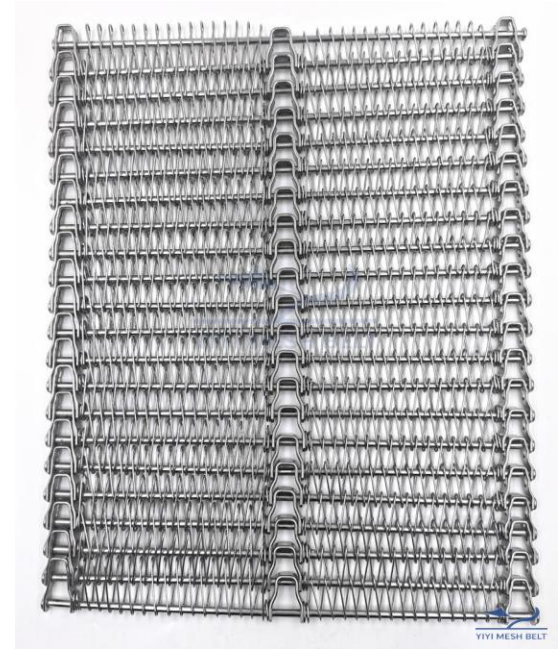
Ningjin Yiyi Mesh Belt Co., Ltd.

YIYI MESH BELT manufactures metal conveyor belts in Ningjin, Shandong, China. Manufacturing experience dates from 1998; the company was established in 2008.

Manufacturing and order control

In-house operations include wire and round-bar drawing, forming, welding, assembly and straightening.

Custom orders follow drawing approval, trial production and first-article inspection before mass production, with final inspection before shipment.

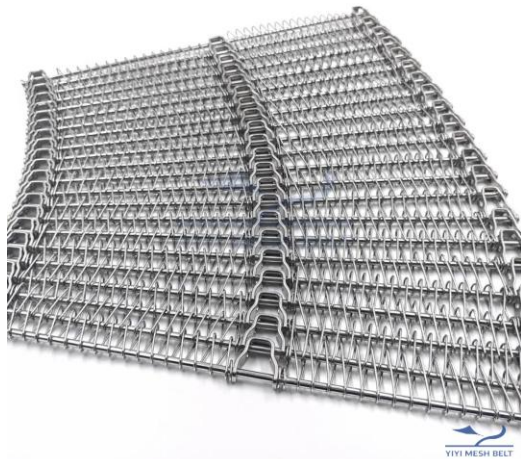


Small-radius configuration



COMPACT TURN

Turn-ratio coefficient 1.1



MATERIAL OPTIONS

SUS 304 / SUS 316



CUSTOM BUILD

300–1200 mm
11.81–47.24 in belt width

Dimensional options

Parameter	Metric (mm)	Inch (in)
Spiral pitch	5–23	0.197–0.906
Rod pitch: inner / outer	19.05 / 27.4 27.4 / 38.1	0.750 / 1.079 1.079 / 1.500
Rod diameter	5	0.197
Spiral wire diameter	1.2 / 1.4 / 1.5 1.6 / 1.7 / 1.8	0.047 / 0.055 / 0.059 0.063 / 0.067 / 0.071
Belt width	300–1200	11.81–47.24
Belt length	To approved drawing	To approved drawing

Listed options require project selection. Custom dimensions follow the approved drawing.

1 in = 25.4 mm. Inch equivalents are rounded references, not manufacturing tolerances.

Materials and configuration options

Parameter	Selection
Product family	Spiral Freezer Belt, small-radius configuration
Material	SUS 304 / SUS 316
Reference turn ratio	1.1, subject to the approved equipment geometry
Surface treatment	Pickling / electropolishing
Edge construction	Button welded / flat-hat welded / rod welded
Pitch combinations	Inner and middle pitches are equal in the illustrated configurations

Select materials, geometry and components together for the application and approved drawing.

Rod pitch configuration A



INNER PITCH
19.05 mm / 0.750 in



MIDDLE PITCH
19.05 mm / 0.750 in



OUTER PITCH
27.4 mm / 1.079 in

Rod pitch configuration B



INNER PITCH
27.4 mm / 1.079 in

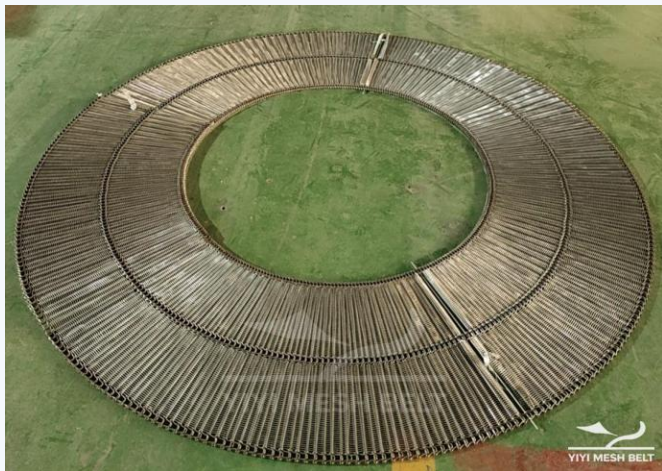


MIDDLE PITCH
27.4 mm / 1.079 in



OUTER PITCH
38.1 mm / 1.500 in

Configuration A with 660 mm / 25.98 in belt width



1.1

660 mm
25.98 in

REFERENCE
TURN RATIO / WIDTH

Reference turn ratio: 1.1. Final belt and equipment geometry follow the approved drawing.

Configuration B with 1067 mm / 42.01 in belt width



1.1

1067 mm
42.01 in

REFERENCE
TURN RATIO / WIDTH

Reference turn ratio: 1.1. Final belt and equipment geometry follow the approved drawing.

Edge construction options



BUTTON WELDED

Compact retained rod end



FLAT-HAT WELDED

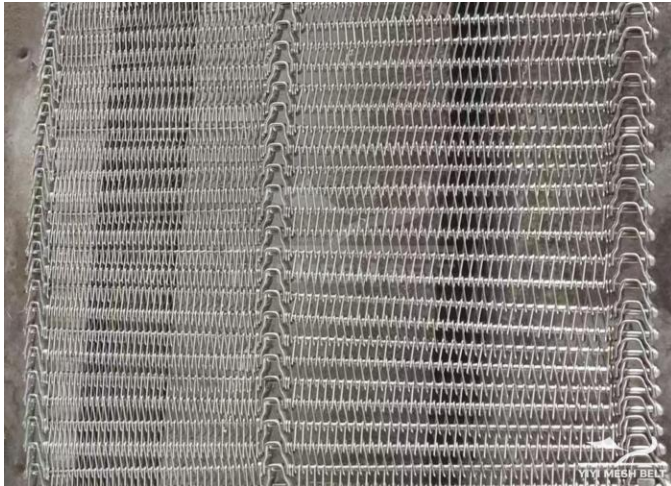
Low-profile finished end



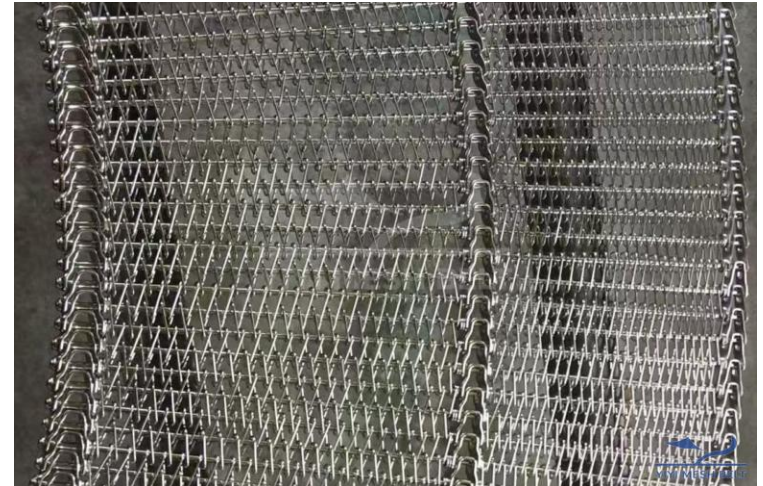
ROD WELDED

Direct welded retention

Surface treatment options



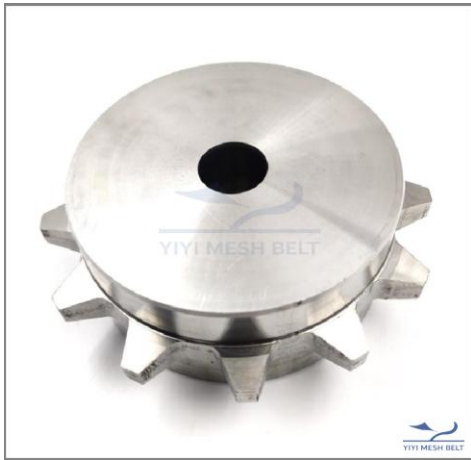
PICKLING



ELECTROLYTIC POLISHING

Select the required surface treatment for the material and application.

Stainless-steel sprockets: SUS 304 / SUS 316



MACHINED PROFILE



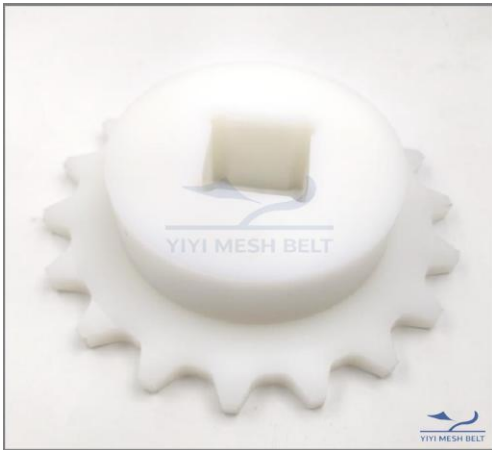
BORE / KEYWAY TO CONFIRM



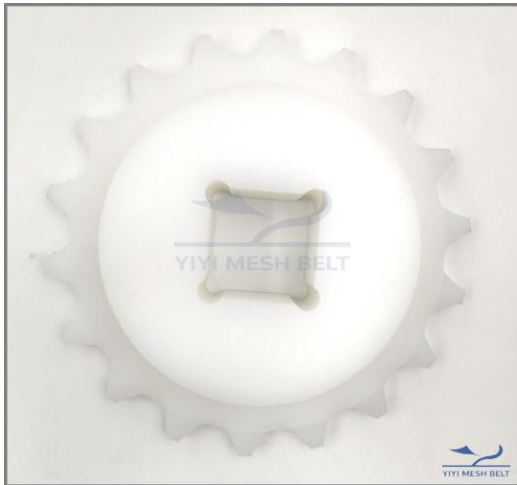
TEETH TO CONFIRM

Confirm belt pitch, tooth count, bore, keyway and mounting dimensions (mm / in).
Match the sprocket profile and material to the approved equipment drawing.

Polymer sprockets: Nylon / UHMWPE / POM



NYLON



UHMWPE



POM

Confirm belt pitch, tooth count, bore, keyway and mounting dimensions (mm / in).
Match the sprocket profile and material to the approved equipment drawing.



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for OEMs & Professional Distributors

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Send Your Drawing for Specification Review

- Belt dimensions (mm / in)
- Equipment and application
- Operating conditions
- Drive and shaft details
- Existing belt photos / sample

Request an Engineering Review