

Self-Stacking Belt

Belt types, specification ranges, options and the fit checks done before quotation. Reference values from projects; final values follow the drawing confirmed for your line.

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TWO BELT FAMILIES

01 Standard or Heavy Duty: Which Self-Stacking Belt Does Your Freezer Need?

Your product load and side plate height decide it. Standard uses 5.0 mm rods; heavy duty uses 6.0 or 7.0 mm rods with taller side plates. Used in freezing, chilling, proofing and cooling.

Standard self-stacking belt

5.0 mm rod diameter	60-120 mm side plate height	420-760 mm 16.54-29.92 in wide
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Heavy duty self-stacking belt

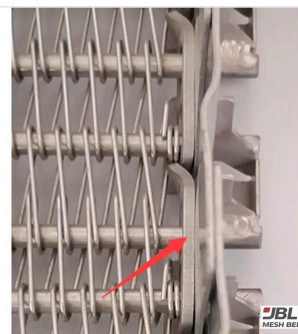
6.0 / 7.0 mm rod diameter	80-150 mm side plate height	660-1069 mm 25.98-42.09 in wide
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Standard
5.0 mm rods

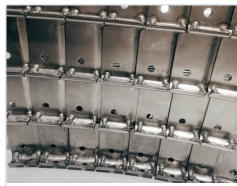


Heavy duty
6.0 / 7.0 mm rods, taller side plates



Heavy duty with reinforcement piece
4 x 15 mm, where specified

Standard self-stacking belts — real belts



Stacked tiers on a curve



Side plates stacked tier on tier



Side plates and rod ends, two tiers



Mesh and side plates



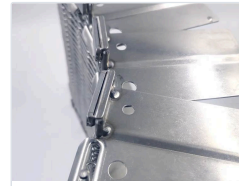
Tiers and mesh, close up



Side plate height checked: 120 mm



Rod end and side plate, close up



Side plates linked on the rods



Tiers stacked on a curve



Side plates, two tiers



Coiled belt, side plates



Belt laid out on a curve

Heavy duty self-stacking belts — real belts



Tall side plates, stacked on a curve



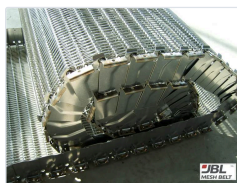
Heavy duty belt laid on a curve



Mesh with reinforcement pieces



Side plates and welded rod ends



Belt folded: side plates and mesh



Coiled belt, side plates

SPECIFICATIONS & OPTIONS

02 Self-Stacking Belt Specifications: Tier Height, Side Plate, Rod Pitch 30 mm

Compare your original belt with this table. Rod pitch, side plate height and direction are enough to start — every value in mm and inches, confirmed on your project drawing.

ROD PITCH
30 mm

1.181 in

SPIRAL PITCH
6 / 9 / 13 mm

0.236 / 0.354 / 0.512 in

WIRE DIAMETER
1.4-1.8 mm

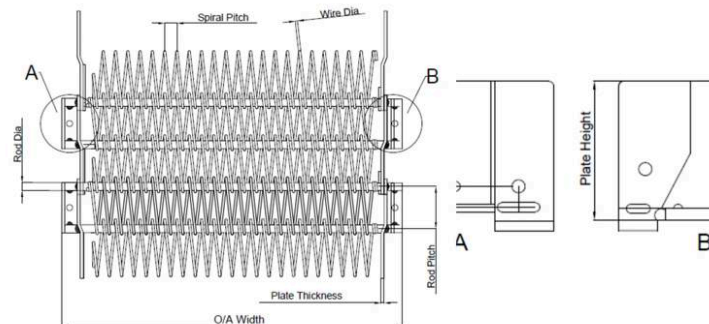
0.055-0.071 in

SIDE PLATE
1.5 mm thick

0.059 in

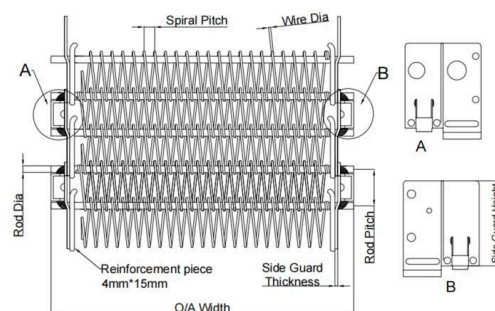
Dimension drawing and table

Standard self-stacking belt



Drawing label	Reference (mm / in)
Material	SUS304 / SUS316
Spiral pitch	6 / 9 / 13 mm (0.236 / 0.354 / 0.512 in)
Wire diameter	1.4 / 1.5 / 1.6 / 1.7 / 1.8 mm (0.055-0.071 in)
Rod pitch	30 mm (1.181 in)
Rod diameter	5.0 mm (0.197 in)
Side plate thickness	1.5 mm (0.059 in)
Side plate height	60 / 80 / 90 / 100 / 120 mm (2.36 / 3.15 / 3.54 / 3.94 / 4.72 in)
O/A width	420 / 580 / 640 / 660 / 760 mm (16.54 / 22.83 / 25.20 / 25.98 / 29.92 in)
Turn ratio	1.6 / 1.7, confirmed per project
Surface	Pickling / electropolishing
Use the drawing to tell us which dimensions you can measure. Final values follow the confirmed project drawing.	

Heavy duty self-stacking belt



Drawing label	Reference (mm / in)
Material	SUS304 / SUS316
Spiral pitch	6 / 9 / 13 mm (0.236 / 0.354 / 0.512 in)
Wire diameter	1.4 / 1.5 / 1.6 / 1.7 / 1.8 mm (0.055-0.071 in)
Rod pitch	30 mm (1.181 in)
Rod diameter	6.0 / 7.0 mm (0.236 / 0.276 in)

Drawing label	Reference (mm / in)
Side plate thickness	1.5 mm (0.059 in)
Side plate height	80 / 100 / 150 mm (3.15 / 3.94 / 5.91 in)
Reinforcement piece	4 × 15 mm (0.157 × 0.591 in), where specified
O/A width	660 / 760 / 1069 mm (25.98 / 29.92 / 42.09 in)
Turn ratio	Confirmed per project Use the drawing to tell us which dimensions you can measure. Final values follow the confirmed project drawing.

Choose your options

Side plate height

					
60 mm (2.36 in)	80 mm (3.15 in)	90 mm (3.54 in)	100 mm (3.94 in)	120 mm (4.72 in)	150 mm (5.91 in) · heavy duty

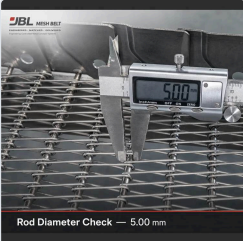
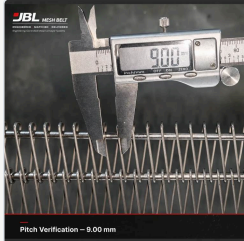
Nominal heights shown. The side plate sets the tier height; maximum product clearance = tier height – clearance.

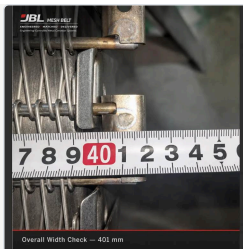
Turn ratio

			
Turn ratio 1.6 · 420 mm (16.54 in) wide	Width check 420 mm · ratio 1.6	Turn ratio 1.7 · 420 mm (16.54 in) wide	Width check 420 mm · ratio 1.7

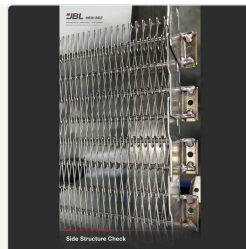
Reference configurations. Your turn ratio is confirmed against your drum and belt width on the project drawing.

Measured readings

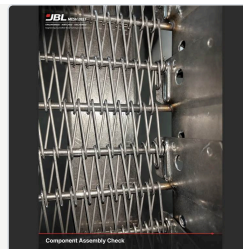
			
Rod pitch 30.00 mm (1.181 in)	Rod Ø 5.00 mm (0.197 in)	Wire Ø 1.51 mm (0.059 in)	Spiral pitch 9.00 mm (0.354 in)



Overall width 401 mm (15.79 in)



Side structure check



Component assembly check

Material & surface

SUS304

Used for most freezing and cooling lines.

SUS316

Considered where salt, brine, cleaning chemicals or corrosion are a concern.

Pickling / electropolishing

Samples and bulk belts pickled as a whole, for an even finish.

FIT CHECK · TURN RATIO AND DIRECTION FIRST

03 Will the New Belt Stack and Turn on Your Freezer?

Looking the same is not enough. Turn ratio, running direction (CW / CCW), tier height and stacking engagement decide whether the tiers sit and turn — they are checked first, before you get a quotation.

REPLACEMENT

Replacing the belt on an existing freezer

YOU SEND

A section of the original belt, freezer brand and model, tower photos and side-plate close-ups.

WE CHECK FIRST

Turn ratio, running direction (CW / CCW), tier height, side plate height and thickness, and stacking engagement — measured on your original.

DRIVE AND SPROCKETS

Your drum, drive and sprockets (where used) checked with the new belt, so nothing else has to change.

YOU GET

A trial sample compared with your original, including material — and a stacking test before bulk production.

NEW PROJECT

Supplying a new self-stacking freezer

YOU SEND

Drum diameter, belt width, tiers, tier height, product and direction.

WE CHECK FIRST

Turn ratio, tier height and product clearance — standard or heavy duty, and which side plate.

DRIVE AND SPROCKETS

Matched to your drive design and checked with the belt before packing.

YOU GET

A confirmed drawing with direction marked, and a sample you approve before production.

Get a fit answer

- ✓ Drum diameter, belt width and turn ratio
- ✓ Running direction: CW or CCW
- ✓ Tier height, tiers and maximum product clearance
- ✓ Side plate height and thickness
- ✓ Spiral pitch, wire, rod pitch and rod diameter
- ✓ Freezer brand and model, product and temperature
- ✓ Original belt sample, photos or drawing

Usually reply within 8 hours

Replacement support →

Send a drawing, an old belt section or photos with a caliper in the picture.

An engineer replies with what fits, what is missing and the next step — usually within 8 hours.

info@jblmeshbelt.com · WhatsApp +86 138 1487 2506 · www.jblmeshbelts.com

JBL Mesh Belt — Jin Bei Li Metal (Suzhou) Co., Ltd. Reference document; project values are confirmed in writing before production.