

Sprockets

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 MATERIAL TYPES

01 Steel or Plastic: Which Sprocket Does Your Line Need?

Both are matched to your belt's pitch and tooth profile. Steel suits heavy and hot lines; UHMWPE, nylon or POM suit lighter, quieter or low-temperature lines. The material is chosen with the belt, product and temperature.

Steel sprockets

SUS304 / 316

or mild steel



SUS304, keyed bore

Hobbed

full tooth profile



Chain sprocket

Polished

tooth faces



Mild steel, blackened

Plastic sprockets

UHMWPE

nylon or POM

Square

or round bore

Split

option



Square-bore plastic



Split UHMWPE



UHMWPE, keyed

SPECIFICATIONS, EXAMPLES & ACCESSORIES

02 Sprocket Specifications: Pitch, Teeth, Bore, Keyway and Rows

Every sprocket is made to a drawing. Start with the belt or chain it drives and its pitch — then teeth, bore, keyway, thickness and rows are confirmed. Accessories — guides, rollers, flights and side plates — are matched at the same time.

PITCH Matched to belt or chain	BORE Round / square keyway, set screws	ROWS Single / multi solid or split	MATERIAL Steel / plastic by temperature
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What is confirmed on the drawing

Conveyor sprocket	
	
Drawing label	Reference (mm / in)
Metal	SUS304 / SUS316 / mild steel
Plastic	UHMWPE / nylon / POM
Pitch & tooth profile	Matched to the belt or chain it drives
Teeth	Number of teeth per drawing
Diameters	Outside, pitch circle and hub diameter

Drawing label	Reference (mm / in)
Bore	Round or square; size and fit per drawing
Fixing	Keyway and set screws per drawing
Thickness	Hub and overall thickness
Rows	Single or multi-row
Split	Solid or split, with bolt and locating screw holes
Use the drawing to tell us which dimensions you can measure. Final values follow the confirmed project drawing.	

Examples from past orders (mm)

Drives	Material	Matched to	Teeth	Key dimensions
Chain-driven belt	SUS304	Chain pitch 31.75 mm	11	Pitch Ø 112.7 · thickness 45 · bore 30 · 2 × M8 set screws
Spiral freezer belt	SUS304	U-link pitch 38.1 mm, rod Ø 6	16	OD 219.48 · thickness 50.8 · bore 50 · keyway 9.525 × 4.76
Spiral freezer belt	POM	U-link pitch 27.4 mm, rod Ø 5	14	OD 142.44 · thickness 24 · bore 35 · keyway 10 × 3.3
Z-type ladder belt	UHMWPE	Belt pitch 12.7 mm, wire Ø 1.8	25	OD ≈ 108 · thickness 50 · square bore 38.3 × 38.3
Eye link belt	SUS304	Chain pitch 25.4 mm	13	OD ≈ 117 · thickness 50 · bore 40 · 1 × M10 set screw
Balanced weave belt	Nylon	Matched to customer sample	5 rows × 29	OD ≈ 127.7 · thickness 25.5 · bore 30 · keyway 8 × 4.43

Taken from individual orders as a reference, not complete drawings. They are not interchangeable combinations — your sprocket is drawn for your belt and shaft.

Sprockets by belt type

Spiral Freezer Belt



Stainless, keyed bore



Stainless, hub



Plastic, square bore



Belt on its sprocket

Matched to the U-link pitch and rod diameter, checked with the drum and turn ratio. **Spiral Freezer Belt →**

Side-Driven Belt



UHMWPE on the belt



Split sprocket



Split sprocket, two halves



White UHMWPE

Split UHMWPE sprockets with locating screw holes; wear strips supplied with them. **Side-Driven Belt** →

Chain-Driven Belt



SUS304, hub



SUS304, side view



Mild steel, keyway



Bore measured

Matched to the roller chain pitch. **Chain-Driven Belt** →

Eye Link Belt



SUS304 sprocket



On the belt



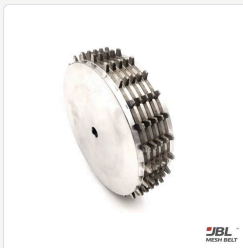
Plastic sprocket



UHMWPE sprocket

Matched to the chain pitch of the belt. **Eye Link Belt** →

Balanced Weave Belt



Multi-row sprocket



Square bore



Stacked, keyway



Wire seated on teeth

Tooth spacing matched to the spiral and crimped wire pitch. **Balanced Weave Belt** →

Z-Type Ladder Belt



Belt on its sprocket



Sprockets on the shaft



Steel drum sprocket



UHMWPE drum sprocket

Sprocket pitch matched to the belt pitch, square or round bore. **Z-Type Ladder Belt →**

Plate Link Belt



Stainless sprocket



Stainless, hub



Mild steel



Mild steel, keyway

Matched to the chain pitch of the plate link belt. **Plate Link Belt →**

Flat Wire Belt



Double sprocket



Stainless sprocket



Keyed bore



Tooth profile

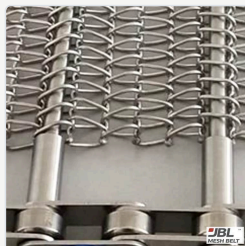
Teeth matched to the flat wire belt pitch. **Flat Wire Belt →**

Drive and belt accessories

Chain belt



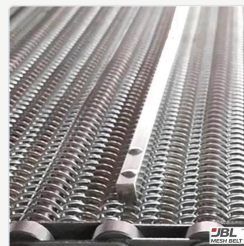
Plastic side guide



Tube



Stainless side roller



Square bar



L-type flights



Spiral wire flights



Side plate

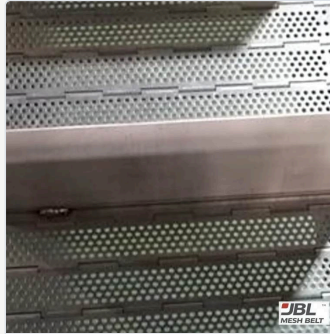


Tube measured

Plate link belt



Side plate



L-type flights



Z-type flights

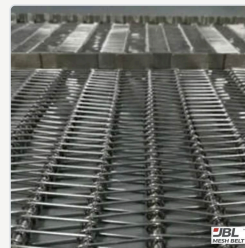
Spiral freezer belt



Side plate



Side reinforcing piece

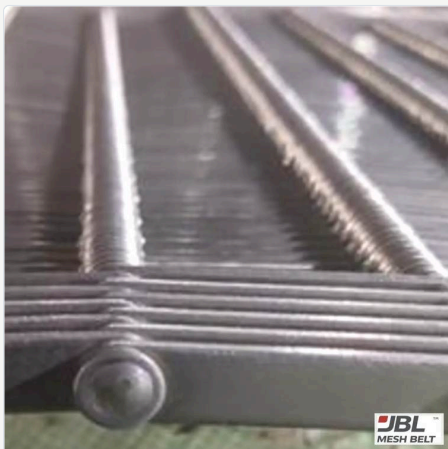


Center plate

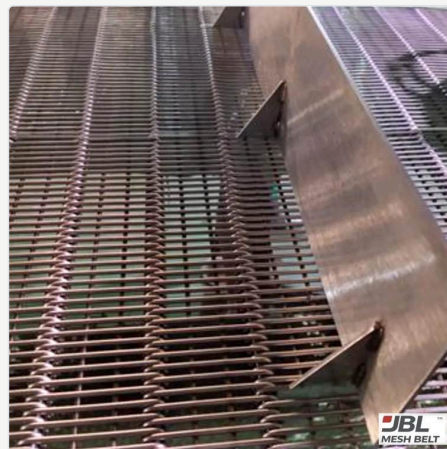


Center link

Eye link belt



Reinforcing plate



Flights

Accessories are made to the belt drawing — height, spacing and fixing confirmed with the belt and sprockets.

FIT CHECK · PITCH FIRST

03 Will the New Sprocket Seat Your Belt — and Fit Your Shaft?

Looking the same is not enough. The pitch and tooth profile of the belt or chain decide whether it seats; bore, keyway and thickness decide whether it fits the shaft. They are checked first, before you get a quotation.

REPLACEMENT & SPARES

Replacing worn sprockets — with or without a new belt

YOU SEND

The belt or chain the sprocket drives, photos of the old sprocket with a caliper on bore, thickness and teeth, or a drawing.

WE CHECK FIRST

Belt or chain pitch and tooth profile, number of teeth, bore and keyway — and whether worn teeth have changed the shape.

WITH A NEW BELT

Belt and sprockets matched together and, where the belt is supplied too, run together before shipment.

YOU GET

Before quoting: a sprocket drawing with pitch, teeth, bore and keyway for you to confirm.

NEW EQUIPMENT

Sprockets for a new conveyor

YOU SEND

Belt type and pitch, shaft size and shape, conveyor width and number of sprockets per shaft.

WE CHECK FIRST

Material for the product and temperature, rows across the width, bore and fixing.

YOUR DRIVE

Sprocket spacing, wear strips and guides reviewed with the belt.

YOU GET

A confirmed drawing and a check of bore, teeth and finish before shipment.

Get a fit answer

- ✓ Belt or chain type and pitch
- ✓ Number of teeth and tooth profile
- ✓ Material: steel or plastic
- ✓ Bore: round or square, size
- ✓ Keyway and set screws
- ✓ Hub and overall thickness

✓ Rows, split, quantity per shaft

Usually reply within 8 hours

[Pitch mismatch guide →](#)

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.

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