

# Flat Belts - Product Information

## Expanded Flat Belt Lineups!!



We would like to manufacture  
Conveyors in-house  
and would like MISUMI  
to add lineups of Flat Belts

105 types added in response to our customers' request.

**105types**

Wide range of specifications, ply count, colors, surface shapes are available

From such customer demands... Variation in color and surface shape are desired

■ Variations in color are available.

White	White	White	White	Green	Green	Green	Green
Green	Black	Black	Navy	Gray	Yellow Green	Sky Blue	Lime Green

■ Variations in surface shape are made available.

Flat surface	Grain (fine)	Grain (thick)	Deep groove	Shallow groove	Vertical groove
Rough top	Diamond Pattern	Herringbone	Basket-weave	Flat Surface (Felt)	

■ Lineups in accordance with the specifications/usage are provided.

General Belts

Sliding

Oil Resistant Belts

Light blue and Lime green are desired in addition to Green and White.

Are sideways sliding belts available?

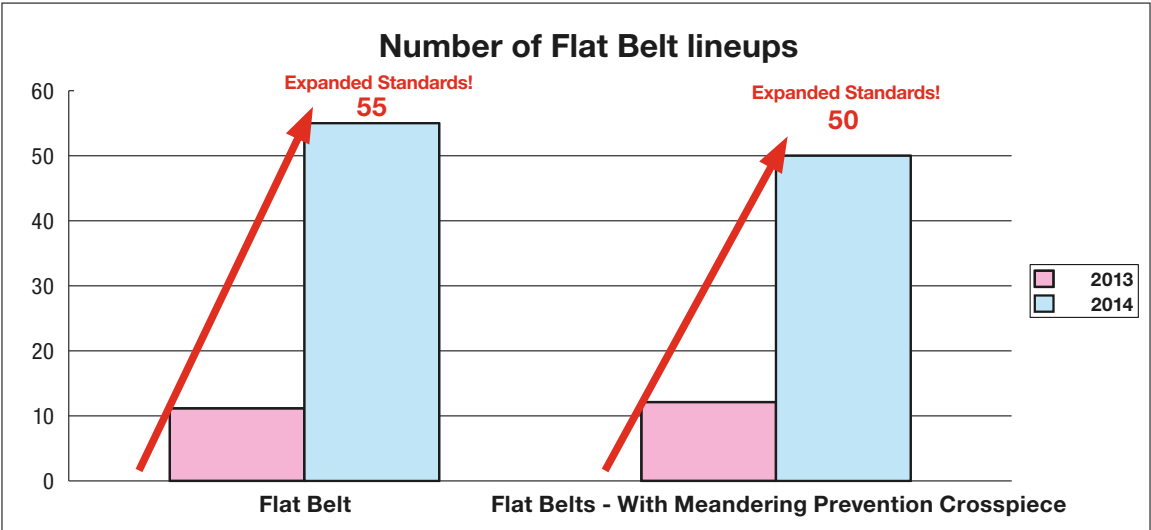
Belt expands if machining oil is applied.

Light blue and Lime green are added.

2 lineups in vertical direction and lateral direction are available.

Machining oil, mineral oil dedicated belts are arranged.

105types have been added in response to our customers' voices.



From such customer demands... Variation in ply count and guided flat belts are desired

New Specification Variation in ply count is added.

1 Ply

Polyurethane cover

Polyurethane Impregnated Canvas

1 layer of Polyurethane cover and Polyurethane Impregnated Canvas.

2 Ply

Polyurethane cover

Polyurethane Impregnated Canvas

2 layers of Polyurethane cover and Polyurethane Impregnated Canvas.

3 Ply

Polyurethane cover

Polyurethane Impregnated Canvas

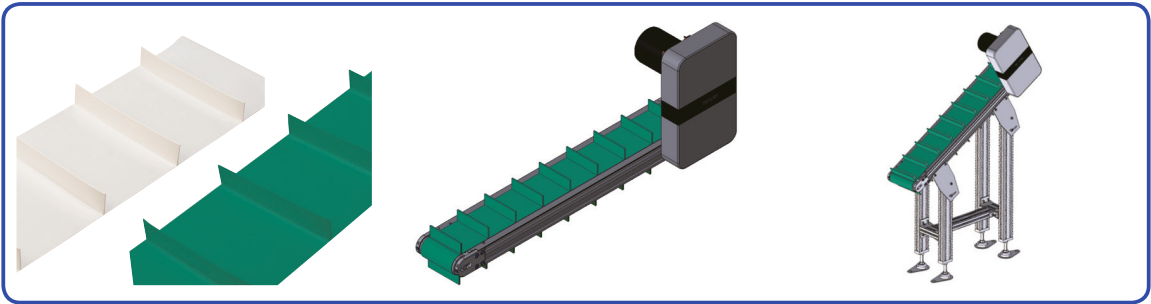
3 layers of Polyurethane cover and Polyurethane Impregnated Canvas.

New Feature Belts with Crosspieces are added.

We would like to manufacture Inclined Transfer Conveyors in-house

Crosspiece Belts have long lead time

Crosspiece Belts are expensive



- Bulk workpieces can be positioned and transferred.
- Guided Flat Belt Conveyors are also available.
- Offered with short delivery time and low prices

For only Flat Belts with Crosspieces, see P1368. For Guided Flat Belt Conveyors, see P1251~

Flat Belts - List by Belt Lineup

Usage	Type	Appearance			Min. Pulley Dia.	Material		Friction Coefficient (Ref. Against Polished Steel)	
		Front	Back	2x surface enlarged		Surface	Back	Front	Back
General Purpose	HBLT				25	Polyurethane	Polyester	0.2	0.1
	HBLTWH				25	Polyurethane	Polyester	0.15	0.1
	HBLTG HBLTD SG				15	Polyurethane	Polyester	0.8	0.2
	HBLTDSW				15	Polyurethane	Polyester	0.8	0.2
	HBLTDS				25	Polyurethane	Polyester	0.8	0.2
	HBLTGDN HBLTGDSN				50	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	HBLBN HBLBDSN				15	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	HBLYGN HBLYGDSN				25(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	HBLTGCN HBLTGCDN				50	PVC	Polyester Canvas	1.0	0.2
	HBLTWCN HBLTWCDSN				50	PVC	Polyester Canvas	1.0	0.2
	HBLGT HBLGDST				120	PVC	Polyester Canvas	1.0	0.2
	HBLWT HBLWDST				120	PVC	Polyester Canvas	1.0	0.2
	HBDTST HBDTSTN				100	PVC	Polyester Canvas	1.0	0.2
Sliding	SHBLTG				25	Urethane Impregnated	Polyester	0.15	0.1
	SHBLT				25	Urethane Impregnated	Polyester	0.1	0.1
	SHBLTD SG				20	Polyester	Polyester	0.2	0.2
	SHBLTDSW				20	Polyester	Polyester	0.2	0.2
	SHBLTDS				40	Polyester	Polyester	0.2	0.2
	YSBLGN YSBLGDSN				30	Polyester Canvas	Polyester Canvas	0.2	0.2
	YSBLWN YSBLWDSN				30	Polyester Canvas	Polyester Canvas	0.2	0.2

\*1: Number in ( ) is the value when allowable tension is 5N/mm.

Usage	Type	Appearance			Min. Pulley Dia.	Material		Friction Coefficient (Ref. Against Polished Steel)	
		Front	Back	2x surface enlarged		Surface	Back	Front	Back
Inclined Transfer	LHBLT				30	Soft Polyurethane	Polyester	1.7	0.1
	LHBLTWH				30	Soft Polyurethane	Polyester	1.7	0.1
	LHBLTD SG				25	Polyurethane	Polyester	1.3	0.2
	LHBLTDSW				25	Polyurethane	Polyester	1.3	0.2
	LHBLWN LHBLWDSN				50(25)*1	Thermoplastic Polyurethane	Polyester Canvas	1.6	0.2
	LHBLYN LHBLYDSN				80	PVC	Polyester Canvas	1.2	0.2
	LHBLGASN LHBLGDSN				100(70)*1	PVC	Polyester Canvas	1.1	0.2
	LHBLGAN LHBLGDSN				80	PVC	Polyester Canvas	1.2	0.2
	LHBLGTN LHBLGTDSN				80	PVC	Polyester Canvas	1.1	0.2
	LHBLYTIN LHBLYTDSN				80	PVC	Polyester Canvas	1.1	0.2
	LHBLGYN LHBLGYDSN				50	Special Thermoplastic Elastomer	Polyester Canvas	2.0	0.2
	LHBLYFN LHBLYFDSN				75(50)*1	Special Thermoplastic Elastomer	Polyester Canvas	2.0	0.2
Grip Type	GBLG GBLD SG				15	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2
	GBLW GBLD SW				15	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2
	GBLGSN GBLGDSN				25	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2
	GBLGDIN GBLGD SN				50(20)*1	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2
	GBLWN GBLWDSN				50(20)*1	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2
Oil Resistant	OHBLTG OHBLTD SG				15	Oil Resistant Polyurethane	Polyester	0.8	0.2
	OHBLTGN OHBLTDS				25	Oil Resistant Polyurethane	Polyester	0.8	0.2
	OHBLT				25	Oil-Resistant Chloroethylene	Polyester	0.3	0.1
	OHBLTW OHBLTDSW				15	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	OHBLGN OHBLGDSN				25(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	SOBLGN SOBLGDSN				15	Thermoplastic Polyurethane	Polyester Canvas	-	-
	KOBLGT KOBLGDST				20	Acrylonitrile-Butadiene Rubber	Cross-linked Polyurethane	-	-
Heat Resistant	HHBLT				75	Silicon Rubber	Polyester	1.5	0.1

\*1: Number in ( ) is the value when allowable tension is 5N/mm.

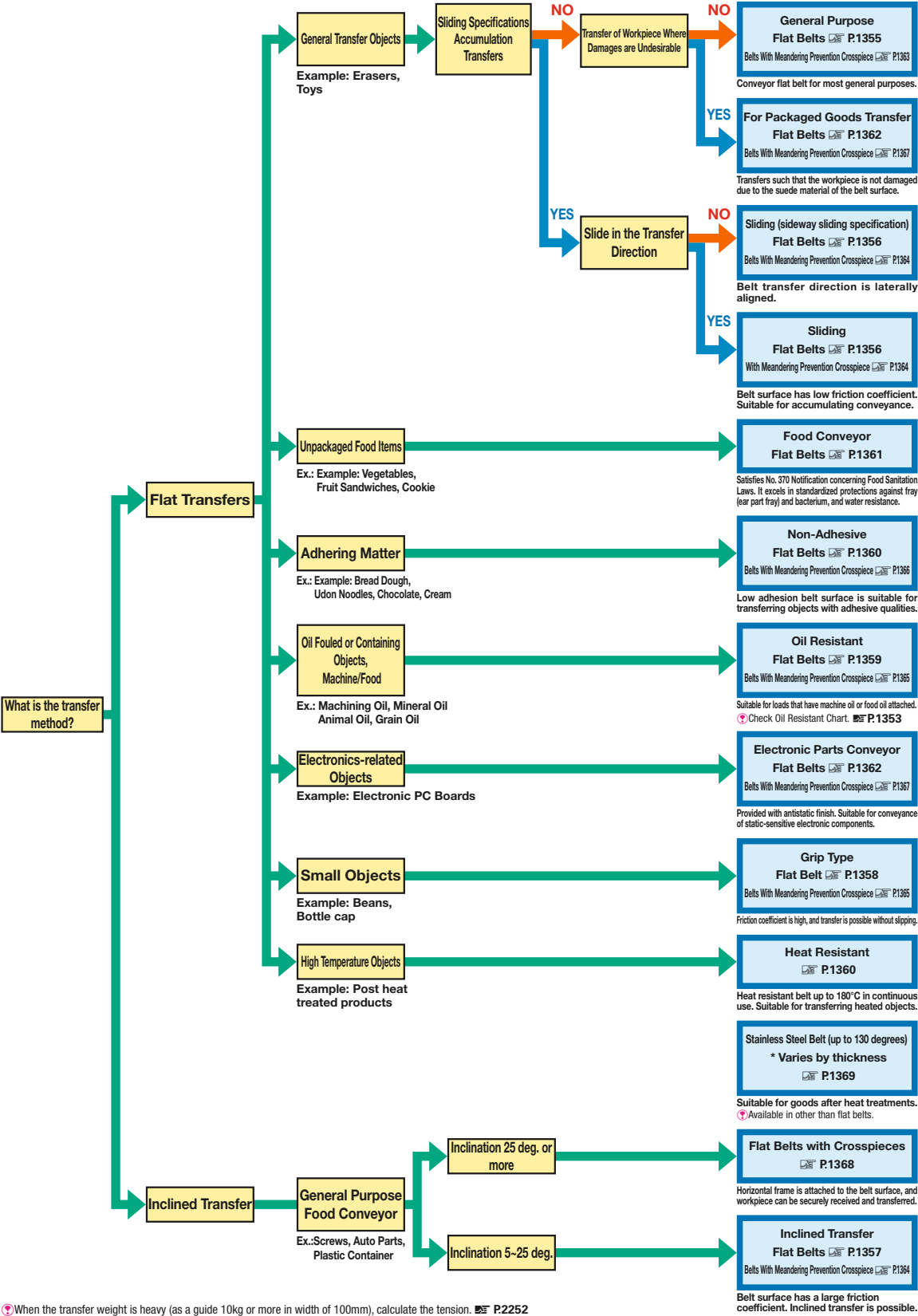


Flat Belts - List by Belt Lineup

Flat Belts - Flat Belt Specification Selection Flow Chart

Usage	Type	Appearance			Min. Pulley Dia.	Material		Friction Coefficient (Ref. Against Polished Steel)	
		Front	Back	2x surface enlarged		Surface	Back	Front	Back
Non-Adhesive	NSHBLT				25	Polyurethane	Polyester	0.2	0.15
	NSHBLTS NSHBLTDS				15	Polyurethane	Polyester	0.6	0.2
	NSHB NSHDSB				15	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	NSHBLG NSHBLGDS				15	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	NSHBWN NSHBWDSN				25(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	NSHBN NSHBDSN				25(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	NSHBLGN NSHBLGDSN				25(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	HFHBG HFHBDSG				15	Thermoplastic Polyurethane	Polyester Canvas	0.4	0.2
	HFHBW HFHBDSW				15	Thermoplastic Polyurethane	Polyester Canvas	0.4	0.2
	HFHBGN HFHBGDSN				30(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.4	0.2
	HFHBWN HFHBWDSN				30(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.4	0.2
Food Conveyor	BHFHBWN BHFHBWDSN				30(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.4	0.2
	FHBLT				20	Polyurethane	Polyester	0.2	0.15
	KBLW KBLDSW				15	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	KBLT KBLTDSB				15	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	KBLWSN KBLWDSN				25(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	KBLWDN KBLWDSN				50	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	KBLWT KBLWDST				100	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	PHBLB PHBLDSB				20	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	PHBLBN PHBLBDSN				30	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
For Packaged Goods Transfer	PHBLWN PHBLWDSN				30	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	FBLG FBLGDS				25	Suede Non-woven Fabric	Polyester Canvas	-	-
	FBLW FBLWDS				25	Suede Non-woven Fabric	Polyester Canvas	-	-
	FBLGN FBLGDSN				30	Suede Non-woven Fabric	Polyester Canvas	-	-
For Electronic Parts Transfer	FBLWN FBLWDSN				30	Suede Non-woven Fabric	Polyester Canvas	-	-
	DHBLT				25	Conductive Polyurethane	Polyester	0.2	0.1
	DHBLTS DHBLTDS				15	Conductive Polyurethane	Polyester	0.8	0.2
	DHBLGN DHBLGDSN				25(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2

\*1: Number in ( ) is the value when allowable tension is 5N/mm.



When the transfer weight is heavy (as a guide 10kg or more in width of 100mm), calculate the tension. P.2252  
Example of transfer workpiece is a guide. For more information, check the Product page.  
Performance Chart is mentioned on respective Product page. Determine if suitable to transfer workpiece.



## Flat Belts - List by Oil Resistance and Chemical Resistance

		General Use / Sliding	Grip Type / Electronic Parts Conveyor	Non- Adhesive	Food Conveyor	Oil Resistant	Sliding	Inclined Transfer	General Use / Inclined Transfer	Inclined Transfer
Type	Chemical Name	HBLTG HBLTDSG HBLW HBLTDSW HBLTDS HBLTGDSN HBLTGSDSN HBLYGN HBLYGDSN HBLBN HBLBDSN SHBLTDSG SHBLTDS	GBLG GBLDSG GBLGSN GBLGSDSN GBLGDN GBLGDNS GBLW GBLDSW GBLWN GBLWDSN DHBLT DHBLTDS DHBLGN DHBLGDSN	NSHBLT NSHBLTDS NSHB NSHDSB NSHBLG NSHBLGDS NSHBWN NSHBWDSN NSHBN NSHBDSN NSHBLGN NSHBLGDSN HFHBG HFHBDSG HFHBW HFHBDSW HFHBGN HFHBGDSN HFHBWN HFHBWDSN	KBLW KBLDSW KBLT KBLTDSB KBLWSN KBLWSDSN KBLWDN KBLWDSN KBLWT KBLWDS PHBLB PHBLDSB PHBLBN PHBLWN PHBLWDSN BHFHBWN BHFHBWDSN	OHBLTG OHBLTDSG OHBLTGN OHBLTDS OHBLTW OHBLTDSW OHBLGN OHBLGDSN	YSBLGN YSBLGDSN YSBLWN YSBLWDSN	LHBLTDSG LHBLTGN LHBLWN LHBLWDSN	HBLGT HBLGDST HBLWT HBLWDST HBLTGCN HBLTGCDN HBLTWCN HBLTWCDSN HBTDS HBTDSN LHBLGTN LHBLGTDSN	LHBLYN LHBLYASN LHBLGN LHBLGASN LHBLGYN LHBLGDSN LHBLGASN LHBLGYN LHBLYT LHBLYTDSN LHBLGYN LHBLGYDS
Cooking Oil	Linseed Oil			△		○	○	○	○	×
	Corn Oil			△		○	○	○	○	-
	Animal Oil			○		○	○	○	○	△
	Vegetable Oil			○		○	○	○	○	△
	Coconut Oil (Palm Oil)			△		○	○	○	○	△
Machine Oil	ASTM No.1 Oil			○		○	○	○	○	×
	ASTM No.2 Oil			○		○	○	○	○	×
	ASTM No.3 Oil			○		○	○	○	○	×
	DOS			△		○	△	○	○	×
	Grease			○		○	○	○	△	△
	Paraffin Oil			○		○	○	○	○	○
	Machining Oil			×		○	×	○	○	×
Others Fats	Glycerin			○		○	○	○	○	○
	Mineral Oil			○		○	○	○	○	×
Antiseptic Solution	Dibutyl Phthalate			△		△	△	△	×	×
	Sodium Chlorate			○		○	○	○	○	○
	Hydrogen Chloride			△		△	△	△	○	○
	Hypochlorite Soda 400ppm			○		△	○	○	○	△
	Electrolytic Hypochlorite Water 400ppm			○		△	○	○	○	△
Solvent	Acetaldehyde			×		×	×	×	△	△
	Acetone			×		×	×	×	×	×
	Amyl Alcohol			○		○	○	○	×	×
	Isooctane			○		○	○	○	△	△
	Isopropyl Alcohol			○		○	○	○	△	△
	Isopropyl Ether			△		△	△	△	×	×
	Ethyl Alcohol			○		○	○	○	△	△
	Ethylether (Ether)			×		×	×	×	×	×
	Gasoline			×		×	×	×	×	×
	Xylene (Xylol)			×		×	×	×	×	×
	Cresol			×		×	×	×	×	×
	Chloroform			×		×	×	×	×	×
	Kerosene			○		○	○	○	△	×
	Aluminium Acetate			×		×	×	×	×	×
	Ethyl Acetate			×		×	×	×	×	×
	Butyl Acetate			×		×	×	×	×	×
	Carbon Tetrachloride			△		△	△	△	×	×
	Cyclohexane			×		×	×	×	×	×
	Dimethylformamide (DMF)			×		×	×	×	×	×
	Petroleum			○		○	○	○	△	△
	Trichloroethylene			×		×	×	×	×	×
	Toluene (Triol)			×		×	×	×	×	×
	Nitrobenzene			×		×	×	×	×	×
	Carbon Disulfide			×		×	×	×	×	×
	Perchlorethylene			×		×	×	×	×	×
	Butyl Alcohol (Butanol)			○		○	○	○	△	△
	Hexane			△		○	○	○	×	×
	Heptane			○		○	○	○	△	△
	Benzene (Benzol)			×		×	×	×	×	×
Benzaldehyde			×		×	×	×	×	×	
Formaldehyde (Formalin) 37%			×		×	×	×	○	○	
Methyl Alcohol (Methanol)			○		○	○	○	△	△	
Methylethylketone (MEK)			×		×	×	×	×	×	
Acidic chemicals	Thinner (generic)			×		×	×	×	×	×
	Adipic Acid			○		○	△	○	○	○
	Benzoic Acid			×		-	×	×	-	-
	Zinc Chloride			○		○	○	○	○	○
	Acetyl Chloride			×		×	×	×	△	×
	Amyl Chloride			×		×	×	×	△	×
	Aluminum Chloride			○		△	△	△	△	△
	Chloroethane			×		×	×	×	×	×
	Calcium Chloride			○		○	○	○	○	○
	Ferrous Chloride*			○		○	○	○	○	○
	Ferric Chloride*			○		○	○	○	○	○
	Ethylene Chloride			○		○	○	○	○	○
	Hydrochloric Acid 5%			○		×	×	×	○	○
	Chlorine Gas			×		×	×	×	×	×
	Chlorine Water Solution			×		×	×	×	○	○
	Oleic Acid			○		○	○	○	○	△
	Formic Acid			×		×	×	×	○	×
	Citric Acid			○		○	○	○	○	×
	Glycolic Acid			○		○	○	○	○	×

\* Not applicable when used as liquid.      ○: Applicable, △: May be applicable. x: Not applicable

		General Use / Sliding	Grip Type / Electronic Parts Conveyor	Non- Adhesive	Food Conveyor	Oil Resistant	Sliding	Inclined Transfer	General Use / Inclined Transfer	Inclined Transfer
Type	Chemical Name	HBLTG HBLTDSG HBLW HBLTDSW HBLTDS HBLTGSN HBLTGSDSN HBLYGN HBLYGDSN HBLBN HBLBDSN SHBLTDSG SHBLTDS	GBLG GBLDSG GBLGSN GBLGSDSN GBLGDN GBLW GBLDSW GBLWN GBLWDSN DHBLTS DHBLTDS DHBLGN DHBLGDSN	NSHBLTS NSHBLTDS NSHB NSHDSB NSHBLG NSHBLGDS NSHBWN NSHBWDSN NSHBN NSHBDN NSHBLGN NSHBLGDSN HFHBG HFHBDSG HFHBW HFHBDSW HFHBGN HFHBGDSN HFHBWN HFHBWDSN	KBLW KBLDSW KBLT KBLTDSB KBLWSN KBLWSDSN KBLWDN KBLWDSN KBLWT KBLWDST PHBLB PHBLDSB PHBLBN PHBLBDSN PHBLWN PHBLWDSN BHFHBWDSN	OHBLTG OHBLTDSG OHBLTGN OHBLTDS OHBLTW OHBLTDSW OHBLGDSN	YSLBGN YSLBGDSN YSLWN YSLWDSN	LHBLTDSG LHBLTDSW LHBLWDSN	HBLGT HBLGDST HBLWT HBLWDST HBLTGCN HBLTGCDN HBLTGCN HBLTWCN HBLTWCDSN HBLTST HBLTSTN LHBLGTN LHBLGTSN	LHBLYN LHBLYASN LHBLGAN LHBLGASN LHBLGYDN LHBLGASN LHBLGDSN LHBLYTN LHBLYDSN LHBLGYN LHBLGYDN
Acidic chemicals	Chromic acid			x		x	x	x	△	△
	Acetic Acid 10%			x		x	x	x	△	△
	Bromine			x		x	x	x	x	x
	Oxalic acid 20%			○		△	○	△	○	○
	Tartaric acid			○		△	△	△	△	△
	Nitric Acid 5%			x		x	x	x	○	○
	Nitric Acid 20%			x		x	x	x	x	x
	Ammonium Nitrate			○		○	○	○	○	○
	Calcium Nitrate			○		○	○	○	○	○
	Stearic Acid			○		○	○	○	○	○
	Trichloroisocyanuric acid			x		x	x	x	△	x
	Lactic Acid			○		○	○	○	○	○
	Fuming Sulfuric Acid			x		x	x	x	x	x
	Picric acid 10%			x		x	x	x	x	x
	Phenol (Carbolic acid)			x		x	x	x	x	x
	Boric acid			○		○	○	○	○	○
Basic chemicals	Maleic acid			△		x	x	x	△	△
	Iodine solution			○		○	○	○	○	○
	Sulfuric Acid 50%			x		x	x	x	△	△
	Phosphoric Acid 80%			x		x	x	x	△	△
	Aniline			x		x	x	x	x	x
	Ammonia gas			○		△	○	△	○	○
	Ammonia water solution			○		△	○	△	○	○
	Sodium Hydroxide (Sodium Hydroxide) 10%			x		x	x	x	△	△
	Sodium Chromate			○		○	○	○	△	△
	Developer (Hydroquinone)			○		○	○	○	○	○
	Sodium Acetate			○		○	○	○	○	○
	Sodium Bicarbonate			○		○	○	○	○	○
	Ammonium Hydroxide			○		△	△	△	○	○
	Potassium Hydrate			x		x	x	x	△	△
	Urea			△		x	x	x	△	△
	Sodium Sulfide			x		x	x	x	x	x
Trisodium Phosphate 10%			○		○	○	○	○	○	
Others Chemical	Antimony Salt			○		○	○	○	○	○
	Sulfur			○		○	○	○	○	○
	Sodium Chloride (Salt)			○		○	○	○	○	○
	Ozone			○		○	○	○	○	○
	Zinc Acetate			○		○	○	○	○	○
	Ammonium Acetate			○		○	○	○	○	○
	Lead Acetate			○		○	○	○	○	○
	Oxygen			○		○	○	○	○	○
	Salt Water (Seawater)			○		○	○	○	○	○
	Sodium Acid Sulfate			○		△	○	△	○	○
	Silver Nitrate			○		○	○	○	○	○
	Ferrous Nitrate			○		○	○	○	○	○
	Sodium Sulfate			○		○	○	○	○	○
	Calcium Hydroxide			○		○	○	○	○	○
	Steam (80°C or less)			○		△	△	△	△	△
	Soap			○		○	○	○	○	○
	Ammonium Carbonate			○		○	○	○	○	○
	Sodium Carbonate			○		○	○	○	○	○
	Sodium Thiosulfate (Hypo)			○		○	○	○	○	○
	Neutral Salts			○		○	○	○	○	○
	Sulfur Dioxide			△		△	△	△	○	○
	Nickel Salt			○		○	○	○	○	○
	Fertilizer (general)			○		○	○	○	○	○
	Freon gas			△		x	x	x	x	x
	Propane			○		○	○	○	○	○
	Polystyrene			○		○	○	○	x	x
	Magnesium Salt			○		○	○	○	○	○
	Aluminum Sulfide			○		○	○	○	○	○
	Ammonium Sulfide			○		○	○	○	○	○
	Hydrogen Sulfide			x		x	x	x	○	○
Zinc Sulfate			○		○	○	○	○	○	
Aluminum sulfate			○		○	○	○	○	○	
Ammonium Sulfate			○		○	○	○	○	○	
Calcium Sulfate			○		○	○	○	○	○	
Ferric Sulfate			○		○	○	○	○	○	
Sodium Sulfate			○		○	○	○	○	○	
Potassium Phosphate			○		○	○	○	○	○	
Sodium Acid Phosphate			○		○	○	○	○	○	

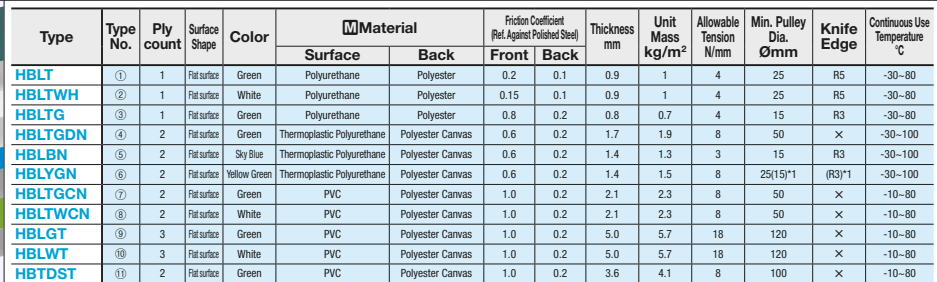
● If the belt is used in a condition wherein it comes in contact with salty water for an sea water and the belt repeatedly gets wet (wet <math>\leftrightarrow</math> dry), salt crystals are formed inside the belt and the belt contracts

○ Anilicible △ May be anilicible x Not anilicible

① If the belt is used in a condition wherein it comes in contact with salty water, for eg. sea water, and the belt repeatedly gets (wet ↔ dry), salt crystals are formed inside the belt and the belt contracts. ○: Applicable, △: May be applicable. ×: Not applicable  
② Same phenomenon can occur when any powder (flour, etc.) is rubbed over the reverse side of the belt.


## Flat Belts For Sliding

**Features:** A canvas having lubricating ability in vertical and lateral direction is used. It is a flat belt for accumulation and alignment of transfer objects.



A diagram showing a rectangular cross-section of a beam. The width of the rectangle is labeled with the letter  $W$  in blue, with arrows indicating the extent of the width.

A diagram of a cross-section of a shell. The outer layer is labeled "Surface" and the inner layer is labeled "Back". The shell has a rounded, oval shape with a textured interior.

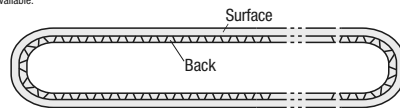


RoHS

Type	Specifications Usage	Color	Ply count	Surface Shape	Material		Friction Coefficient (Ref. Against Polished Steel)		Thickness mm	Unit Mass kg/m²	Allowable Tension N/mm	Min. Pulley Dia. Ømm	Knife Edge	Continuous Use Temperature °C
					Surface	Back	Front	Back						
SHBLTG	Vertical direction	Green	1	-	Urethane Impregnated	Polyester	0.15	0.1	0.5	0.5	4	25	R3	-10~ 80
SHBLT		White	1	-	Urethane Impregnated	Polyester	0.1	0.1	0.5	0.5	4	25	R3	-10~ 80
YSLGN	Lateral direction	Green	2	-	Polyester Canvas	Polyester Canvas	0.2	0.2	1.3	1.1	8	30	×	-30~100
YSLWN		White	2	-	Polyester Canvas	Polyester Canvas	0.2	0.2	1.3	1.1	8	30	×	-30~100

$w$

For Belt Tolerance, see  P.1352



- Flat belts are weld-jointed before shipping.
- I.D. will be the Belt Length.


[illegible]

Ordering Example

Part Number	-	Belt Length L (m)
Type	Belt Width	
HBLT	350	- 4.23

Type	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water Resistance, Moist-Heat Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to impinging	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
HBLT	○	-	-	△	△	△	△	△	△	△
HBLTWH	○	-	-	△	△	△	△	△	△	△
HBLTG	○	-	○	○	○	-	-	○	-	○
HBLTGDN	○	-	○	○	○	-	-	○	-	○
HBLBN	○	○	○	○	○	-	-	○	-	○
HBLVGN	○	-	○	○	○	-	-	○	-	○
HBLTGCN	○	-	○	-	-	-	-	○	-	○
HBLTWCN	○ <sup>1)</sup>	-	○	-	-	-	-	○	-	○
HBLGT	○ <sup>1)</sup>	-	-	-	-	-	-	○	-	○
HBLWT	○ <sup>1)</sup>	-	-	-	-	-	-	○	-	○
HBLDST	○ <sup>1)</sup>	-	○	-	-	-	-	○	-	○

Part Number		Belt Length L (m)	Body Price / m			Belt Jointing Charge (Body Price + )		
Type	Belt Width W (mm)	0.01m Increment	SHBLTG SHBLT	YSLGN	YSLWN	SHBLTG SHBLT	YSLGN YSLWN	
SHBLTG SHBLT YSLGN YSLWN	10	0.50~20.00						
	15							
	20							
	25							
	30							
	35							
	40							
	50							
	60							
	70							
	75							
	80							
	90							
	100							
	110							
	120							
		125	0.80~20.00					
		130						
		140						
		150						
		160						
		170						
		180						
		190						
		200						
		210						
		220						
		230						
		240						
		250						
		260						
		270						
		280						
		290						
		300						
		310						
	320							
	330							
	340							
	350							
	360							
	370							
	380							
	390							
	400							
	410							
	420							
	430							
	440							
	450							
	460							
	470							
	480							
	490							
	500							

 Ordering Example

Part Number	-	Belt Length L (m)
Type Belt Width		
SHBLTG 50	-	4.23

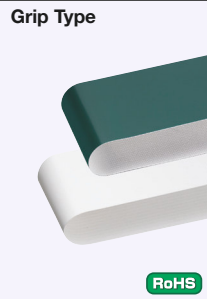
Type	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water Resistance, Moist-Heat Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to impinging	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
SHBLTG	○	-	-	△	△	△	△	△	△	△
SHBLT	○	-	-	△	△	△	△	△	△	△
YSBLGN	○*1	-	-	-	○	-	-	-	-	○
YSBLWN	○	-	-	-	○	-	-	-	-	○

\*1: Cannot be used for bare transfer of oil and fatty foods.  
 ◎: Best suited, ○: Applicable, △: May be applicable, -: Not applicable



## Flat Belts - Grip Type


**Features:** Suitable for flat transfer of bulk goods due to the grainy surface.



Type	Color	Ply count	Surface Shape	Material		Friction Coefficient (Ref. Against Polished Steel)		Thickness mm	Unit Mass kg/m²	Allowable Tension N/mm	Min. Pulley Dia. Ømm	Knife Edge	Continuous Use Temperature °C
				Surface	Back	Front	Back						
GBLG	Green	1	Grain (fine)	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2	1.0	0.9	4	15	R3	-30~100
GBLW	White	1	Grain (fine)	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2	1.0	0.9	4	15	R3	-30~100
GBLGSN	Green	2	Grain (fine)	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2	1.6	1.6	8	25	×	-30~100
GBLGDN	Green	2	Grain (thick)	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2	2.0	1.9	8	50(20) *1	×	-30~100
GBLWN	White	2	Grain (thick)	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2	2.0	1.9	8	50(20) *1	×	-30~100


\*1: Number in ( ) is the value when allowable tension is 5N/mm.



For Belt Tolerance, see  P.1352

Part Number		Belt Length L (m)	Body Price / m					Belt Jointing Charge (Body Price + )	
Type	Belt Width W (mm)	0.01m Increment	GBLG	GBLW	GBLGSN	GBLGDN	GBLWN	GBLG GBLW	GBLGSN GBLGDN GBLWN
GBLG  GBLW  GBLGSN  GBLGDN  GBLWN	10	0.50~20.00							
	15								
	20								
	25								
	30								
	35								
	40								
	50								
	60								
	70								
	75								
	80								
	90								
	100								
	110								
	120								
	125								
	130								
	140								
	150								
	160								
	170								
	180								
	190								
	200								
	210	0.80~20.00							
	220								
	230								
	240								
	250								
	260								
	270								
	280								
	290								
	300								
	310								
	320								
	330								
	340								
	350								
360									
370									
380									
390									
400									
410									
420									
430									
440									
450									
460									
470									
480									
490									
500									

⚠ Flat belts are weld-jointed before shipping

 Ordering Example


Part Number	-	Belt Length L (m)
Type		Belt Width
GBLG	350	- 4.23

Type	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water / Moisture Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to impregnating	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
<b>GBLG</b>	○	-	○	○	○	-	-	○	-	-
<b>GBLW</b>	○	-	○	○	○	-	-	○	-	○
<b>GBLGSN</b>	○	-	○	○	○	-	-	○	-	○
<b>GBLGDN</b>	○	-	○	○	○	-	-	○	-	○
<b>GBLWN</b>	○	-	○	○	○	-	-	○	-	○


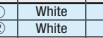
⊙: Best suited, ○: Applicable, △: May be applicable, -: Not applicable

## Flat Belts - Heat Resistant / Non-Adhesive

**Features:** Heat resistant belt up to 180 degrees in continuous use. Low adhesion belt surface is suitable for transferring objects with adhesive qualities

Heat Resistant / Non-Adhesive	Type	Type No.	Color	Ply count	Surface Shape	Material		Friction Coefficient (Ref. Against Polished Steel)		Thickness mm	Unit Mass kg/m <sup>2</sup>	Allowable Tension N/mm	Min. Pulley Dia. Ømm	Knife Edge	Continuous Use Temperature °C						
						Surface	Back	Front	Back												
	HHBLT	(1)	White	2	Flat surface	Silicon Rubber	Polyester	1.5	0.1	1.3	1.4	5	75	×	-40~180						
	NSHBLT	(2)	White	1	Flat surface	Polyurethane	Polyester	0.2	0.15	0.9	1	3.5	25	R5	-10~80						
	NSHBLTS	(3)	White	1	Glossy surface	Polyurethane	Polyester	0.6	0.2	0.8	0.7	4	15	R3	-10~80						
	NSHB	(4)	Sky Blue	1	Glossy surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	0.8	0.7	4	15	R3	-30~100						
	NSHBGL	(5)	Lime Green	1	Glossy surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	0.8	0.7	4	15	R3	-30~100						
	NSHBWN	(6)	White	2	Glossy surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.4	1.5	8	25(15)*1	(R3)*1	-30~100						
	NSHBN	(7)	Sky Blue	2	Glossy surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.4	1.5	8	25(15)*1	(R3)*1	-30~100						
	NSHBGLN	(8)	Lime Green	2	Glossy surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.4	1.5	8	25(15)*1	(R3)*1	-30~100						
	HFHBG	(9)	Green	1	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.4	0.2	0.8	0.7	4	15	R3	-30~100						
	HFHBW	(10)	White	1	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.4	0.2	0.8	0.7	4	15	R3	-30~100						
	HFHBGN	(11)	Green	2	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.4	0.2	1.4	1.4	8	30(15)*1	(R3)*1	-30~100						
	HFHBWN	(12)	White	2	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.4	0.2	1.4	1.4	8	30(15)*1	(R3)*1	-30~100						
	BHFHBWN	(13)	White	2	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.4	0.2	1.4	1.5	8	30(15)*1	(R3)*1	-30~100						

\*1: Number in ( ) is the value when allowable tension is 5N/mm.  
HHBLT is heat-resisting belt. Others are non-adhesive.


•Flat belts are weld-jointed before shipping.

•I.D. will be the Belt Length.

For Belt Tolerance, see **JIS P.1352**

[illegible]

- Flat belts are weld-jointed before shipping.
- The connection areas may become slightly thicker: NSHBLT by 0.3mm
- The connection areas may become slightly thicker: HHBLT by 0.6mm.

	<b>Part Number</b>		-	<b>Belt Length L (m)</b>
	<b>Type</b>	<b>Belt Width</b>		
	HHBLT	350	-	4.23
	NSHBLT	350	-	4.23

Type	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water Resistance, Moist-Heat Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to imprinting	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
HMBLT			-						-	
NSHBLT										
NSHBLS							-			
NSHB							-			
NSHBLG							-			
NSHBWN							-			
NSHBW							-			
NSHBLGN							-			
HFHBG		-				-	-			
HFHBW							-			
HFHBGN							-			
HFHBWN							-			
BHFHBWN							-			

⊙: Best suited, ○: Applicable, △: May be applicable, -: Not applicable



## Flat Belts: For Food Transfer

**Features:** Belts with antibacterial and antifungal specifications for transfer of uncovered foods such as meat, bread, sweets, noodles etc.

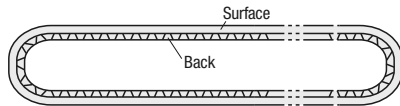


Type	Color	Ply count	Surface Shape	Material		Friction Coefficient (Flat Against Polished Steel)		Thickness mm	Unit Mass kg/m²	Allowable Tension N/mm	Min. Pulley Dia. Ømm	Knife Edge	Continuous Use Temperature °C
				Surface	Back	Front	Back						
FHBLT	White	1	Flat surface	Polyurethane	Polyester	0.2	0.15	0.8	0.9	3.5	20	R3	-10-80
KBLW	White	1	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	0.8	0.7	4	15	R3	-30-100
KBLT	Sky Blue	1	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	0.8	0.7	4	15	R3	-30-100
KBLWSN	White	2	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.4	1.5	8	25(15)*1	(R3)*1	-30-100
KBLWDN	White	2	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.7	1.9	8	50	-	-30-100
KBLWT	White	3	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	2.5	2.6	12	100	-	-30-100
PHBLB	Sky Blue	1	Diamond	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.3	1	4	20	-	-30-100
PHBLBN	Sky Blue	2	Diamond	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.7	1.6	3	30	-	-30-100
PHBLWN	White	2	Diamond	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.7	1.6	3	30	-	-30-100

\*1: Number in ( ) is the value when allowable tension is 5N/mm.



 For Belt Tolerance, see  **P.1352**



- Flat belts are weld-jointed before shipping.
- I.D. will be the Belt Length.

●FHBLT has the function compliant with HACCP.

\*HACCP ..... Hazard Analysis (and) Critical Control Point.

A technology developed by National Aeronautics and Space Administration (NASA) for sanitary control of space foods, which is applied to sanitary control in food industries and restaurants.

[illegible]

 Flat belts are weld-jointed before shipping.

④ The connection areas may become slightly thicker: FHBLT by 0.3mm.



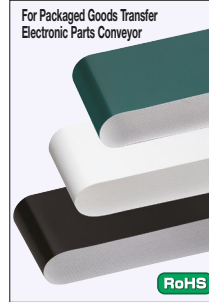
Ordering Example: **Part Number** - **Belt Length L (m)**  
**Type** **Belt Width**  
**FHBLT** **50** - **4.23**

Type	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water Resistance, Moist-Heat Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to impregnating	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
FHBLT	○	○	○	△	△	△	△	△	△	△
KBLW	○	○	○	○	○	-	-	-	-	○
KBLT	○	○	○	○	○	-	-	○	-	○
KBLWSN	○	○	○	○	○	-	-	○	-	○
KBLWDN	○	○	○	○	○	-	-	○	-	○
KBLWT	○	○	○	○	○	-	-	○	-	○
PHBLB	○	○	○	○	○	-	-	○	●	○
PHBLBN	○	○	○	○	○	-	-	○	●	○
PHBLWN	○	○	○	○	○	-	-	○	●	○

⊙: Best suited, ○: Applicable, △: May be applicable, -: Not applicable

## Flat Belts: For Packaged Goods Transfer / For Electronic Parts Transfer

**■ Features:** Packaged goods can be transferred without any damage. Provided with antistatic finish. Suitable for conveyance of static-sensitive electronic components. (DHBLT/DHBLTS/DHBLGN)

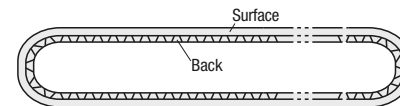


Type	Color	Ply count	Surface Shape	Material		Friction Coefficient (Ref. Against Polished Steel)		Thickness mm	Unit Mass kg/m <sup>2</sup>	Allowable Tension N/mm	Min. Pulley Dia. Ømm	Knife Edge	Continuous Use Temperature °C
				Surface	Back	Front	Back						
FBLG	Green	1	Flat surface	Suede Non-woven Fabric	Polyester Canvas	-	-	1.8	1.2	4	25	×	- 5-60
FBLW	White	1	Flat surface	Suede Non-woven Fabric	Polyester Canvas	-	-	1.8	1.2	4	25	×	- 5-60
FBLGN	Green	2	Flat surface	Suede Non-woven Fabric	Polyester Canvas	-	-	2.0	1.5	5	30	×	- 5-60
FBLWN	White	2	Flat surface	Suede Non-woven Fabric	Polyester Canvas	-	-	2.0	1.5	5	30	×	- 5-60
DHBLT	Black	1	Flat surface	Conductive Polyurethane	Polyester	0.2	0.1	0.6	0.7	3	25	R3	-10-80
DHBLTS	Black	1	Flat surface	Conductive Polyurethane	Polyester	0.8	0.2	0.8	0.7	4	15	R3	-10-80
DHBLGN	Black	2	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.4	1.5	8	25(15) *1	(R3) *1	-30-80

\*1: Number in ( ) is the value when allowable tension is 5N/mm.



For Belt Tolerance, see  **P.1352**



- Flat belts are weld-jointed before shipping.
- I.D. will be the Belt Length.

[illegible]

Flat belts are weld-jointed before shipping

⚠ The connection areas may become slightly thicker: DHBLT by 0.3mm.

♥ Belt length for FBLG, FBLW, FBLGN, FBLWN is specified from 0.70 onwards




$$\frac{\text{Part Number}}{\text{Type} \quad \text{Belt Width}} = \frac{\text{Belt Length } L \text{ (mm)}}{\text{DHBLT} \quad 50} = 4.23$$

Type	Food hygienic properties	Antibacterial/Antifungal Property	Fray Prevention	Water Resistant, Moist-Heat Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to imprinting	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
<b>FBLG</b>	△	-	-	-	-	-	○	-	○	-
<b>FBLW</b>	△	-	-	-	-	-	○	-	○	-
<b>FBLGN</b>	△	-	-	-	-	-	○	-	○	-
<b>FBLWN</b>	△	-	-	-	-	-	○	-	○	-
<b>DHBLT</b>	○	-	-	△	△	△	△	△	△	△
<b>DHBLTS</b>	-	-	○	-	-	-	-	-	-	○
<b>DHBLGN</b>	-	-	○	-	-	-	-	-	-	○

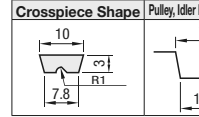
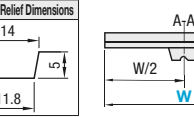
⊙: Best suited, ○: Applicable, △: May be applicable, -: Not applicable

# Flat Belts - With Meandering Prevention Crosspiece General Use

**Features:** Suitable for ensuring the running straightness and strength against lateral forces. Used for transfer of wide range of items right from food to cardboard, metal and plastic. Excels in moist-heat resistance and prevents fray.

General Purpose - With Meandering Prevention Crosspiece	Type	Type No.	Color	Ply count	Surface Shape	Material		Friction Coefficient (Ref. Against Polished Steel)		Thickness mm	Unit Mass kg/m <sup>2</sup>	Allowable Tension N/mm	Min. Pulley Dia. Ømm	Continuous Use Temperature °C
						Surface	Back	Front	Back					
	HBLTDSG	①	Green	1	Flat surface	Polyurethane	Polyester	0.8	0.2	0.8	0.7	4	15	-30~80
	HBLTDSW	②	White	1	Flat surface	Polyurethane	Polyester	0.8	0.2	0.8	0.7	4	15	-30~80
	HBLTDS	③	Green	2	Flat surface	Polyurethane	Polyester	0.8	0.2	1.4	1.5	8	25	-30~80
	HBLTGSDSN	④	Green	2	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.7	1.9	8	50	-30~100
	HBLBDSN	⑤	Sky Blue	2	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.4	1.3	3	15	-30~100
	HBLYGDSN	⑥	Yellow Green	2	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.4	1.5	8	25(15) *1	-30~100
	HBLTGCDN	⑦	Green	2	Flat surface	PVC	Polyester Canvas	1.0	0.2	2.1	2.3	8	50	-10~80
	HBLTWCDSN	⑧	White	2	Flat surface	PVC	Polyester Canvas	1.0	0.2	2.1	2.3	8	50	-10~80
	HBLGDST	⑨	Green	3	Flat surface	PVC	Polyester Canvas	1.0	0.2	5.0	5.7	18	120	-10~80
	HBLWDST	⑩	White	3	Flat surface	PVC	Polyester Canvas	1.0	0.2	5.0	5.7	18	120	-10~80
	HBTDSN	⑪	Green	2	Flat surface	PVC	Polyester Canvas	1.0	0.2	3.6	4.1	8	100	-10~80


\*1: Number in ( ) is the value when allowable tension is 5N/mm.

Crosspiece Shape	Pulley, Idler Relief Dimensions	Surface	
		Surface	Back
		• Flat belts are weld-jointed before shipping. • I.D. will be the Belt Length.	

For Belt Tolerance, see P.1352

Part Number		Belt Length L (m)		Body Price / m										Belt Jointing Charge (Body Price + )	
Type	Belt Width W 10mm Increment	0.01m Increment	① ②	③	④	⑤	⑥	⑦ ⑧	⑨ ⑩	⑪	① ② ③	④, ⑤, ⑥, ⑦, ⑧, ⑪	⑨, ⑩	① ②	③~⑧
HBLTDSG HBLTDSW HBLTDS HBLTGSDSN HBLBDSN HBLYGDSN HBLTGCDN HBLTWCDSN HBLGDST HBLWDST HBTDSN	50~90 100~190 200~290 300~400 410~500	0.50~20.00 (L≥Wx4)	HBLTDSG HBLTDSW	HBLTDS	HBLTGSDSN	HBLBDSN	HBLYGDSN	HBLTGCDN HBLTWCDSN	HBLGDST HBLWDST	HBTDSN	HBLTDSG HBLTDSW HBLTDS	HBLTGSDSN, HBLBDSN HBLYGDSN, HBLTGCDN HBLTWCDSN, HBTDSN	HBLGDST HBLWDST		

Belts with meandering prevention crosspiece are knife-edged and hence cannot be used.

	Part Number	Belt Length L (m)	
	Type	Belt Width	
	HBLTDS	350	4.23


Type	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water / Moisture Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to imprinting	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
HBLTDSG	○	-	○	○	○	-	-	○	-	○
HBLTDSW	○	-	○	○	○	-	-	○	-	○
HBLTDS	○	-	○	○	○	-	-	○	-	○
HBLTGSDSN	○	-	○	○	○	-	-	○	-	○
HBLBDSN	○	○	○	○	○	-	-	○	-	○
HBLYGDSN	○	-	○	○	○	-	-	○	-	○
HBLTGCDN	○*1	-	○	-	-	-	-	○	-	○
HBLTWCDSN	○*1	-	○	-	-	-	-	○	-	○
HBLGDST	○*1	-	-	-	-	-	-	-	-	○
HBLWDST	○*1	-	-	-	-	-	-	○	-	○
HBTDSN	○*1	-	○	-	-	-	-	○	-	○

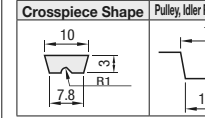
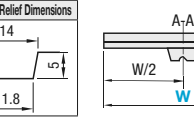
\*1: Cannot be used for bare transfer of oil and fatty foods.

○: Best suited, ○: Applicable, △: May be applicable, -: Not applicable

# Flat Belts - With Meandering Prevention Crosspiece For Sliding / For Inclined Transfer

**Sliding Features:** Suitable for ensuring the running straightness and strength against lateral forces. A canvas having lubricating ability in vertical direction is used. It is a belt for accumulation and alignment of transfer objects.

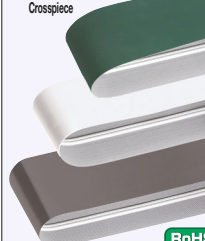
Sliding - With Meandering Prevention Crosspiece	Type	Color	Ply count	Surface Shape	Material		Friction Coefficient (Ref. Against Polished Steel)		Thickness mm	Unit Mass kg/m <sup>2</sup>	Allowable Tension N/mm	Min. Pulley Dia. Ømm	Continuous Use Temperature °C
					Surface	Back	Front	Back					
	SHBLTDSG	Green	1	-	Polyester	Polyester	0.2	0.2	0.6	0.4	4	20	-30~80
	SHBLTDSW	White	1	-	Polyester	Polyester	0.2	0.2	0.6	0.4	4	20	-30~80
	SHBLTDS	Green	2	-	Polyester	Polyester	0.2	0.2	1.3	1.1	8	40	-30~80
	YSBLGDSN	Green	2	-	Polyester Canvas	Polyester Canvas	0.2	0.2	1.3	1.1	8	30	-30~100
	YSBLWDSN	White	2	-	Polyester Canvas	Polyester Canvas	0.2	0.2	1.3	1.1	8	30	-30~100

Crosspiece Shape	Pulley, Idler Relief Dimensions	Surface	
		Surface	Back
		• Flat belts are weld-jointed before shipping. • I.D. will be the Belt Length.	

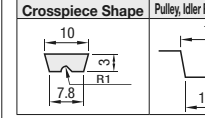
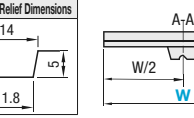
For Belt Tolerance, see P.1352

Part Number		Belt Length L (m)		Body Price / m				Belt Jointing Charge (Body Price + )	
Type	Belt Width W 10mm Increment	0.01m Increment		SHBLTDSG SHBLTDSW	SHBLTDS	YSBLGDSN	YSBLWDSN	SHBLTDSG SHBLTDSW SHBLTDS	YSBLGDSN YSBLWDSN
SHBLTDSG SHBLTDSW SHBLTDS YSBLGDSN YSBLWDSN	50~90 100~190 200~290 300~400 410~500	0.50~20.00 (L≥Wx4)							

**For Inclined Transfer Features:** Suitable for ensuring the running straightness and strength against lateral forces. Belt that ensures high grip on various surface patterns, such as Vertical groove, Shallow groove, Deep groove, Basket-weave, Rough top, Herringbone, etc.

Inclined Transfer - With Meandering Prevention Crosspiece	Type	Type No.	Incline Angle Standard	Color	Ply count	Surface Shape	Material		Friction Coefficient (Ref. Against Polished Steel)		Thickness mm	Unit Mass kg/m <sup>2</sup>	Allowable Tension N/mm	Min. Pulley Dia. Ømm	Continuous Use Temperature °C
							Surface	Back	Front	Back					
	LHBLTDSG	①	15 or less	Green	1	Vertical groove	Polyurethane	Polyester	1.3	0.2	1.4	1	4	25	-30~80
	LHBLTDSW	②	15 or less	White	1	Vertical groove	Polyurethane	Polyester	1.3	0.2	1.4	1	4	25	-30~80
	LHBLWDSN	③	15 or less	White	2	Vertical groove	Thermoplastic Polyurethane	Polyester Canvas	1.6	0.2	2.3	2.2	8	50(25) *1	-30~80
	LHBLYADSN	④	15 or less	Gray	2	Shallow groove	Polyester Canvas	Polyester Canvas	1.2	0.2	3.3	3.4	8	80	-10~70
	LHBLGDSN	⑤	15 or less	Green	2	Basket-weave	PVC	Polyester Canvas	1.1	0.2	2.3	2.4	8	100(70) *1	-10~60
	LHBLGADSN	⑥	20 or less	Green	2	Deep groove	PVC	Polyester Canvas	1.2	0.2	5.3	4.2	8	80	-10~70
	LHBLGTDSN	⑦	20 or less	Green	2	Rough top	PVC	Polyester Canvas	1.1	0.2	5.5	6.5	12	80	-10~70
	LHBLTYDSN	⑧	20 or less	Gray	2	Rough top	PVC	Polyester Canvas	1.1	0.2	5.5	6.5	12	80	-10~70
	LHBLGYDSN	⑨	30 or less	Green	2	Herringbone	Special Thermoplastic Elastomer	Polyester Canvas	2.0	0.2	3.4	3.0	8	50	-10~60
	LHBLYFDSN	⑩	30 or less	Gray	2	Herringbone	Special Thermoplastic Elastomer	Polyester Canvas	2.0	0.2	3.4	3.0	8	75(50) *1	-10~60

\*1: Number in ( ) is the value when allowable tension is 5N/mm.

Crosspiece Shape	Pulley, Idler Relief Dimensions	Surface	
		Surface	Back
		• Flat belts are weld-jointed before shipping. • I.D. will be the Belt Length.	

For Belt Tolerance, see P.1352

Part Number		Belt Length L (m)		Body Price / m						Belt Jointing Charge (Body Price + )	
Type	Belt Width W 10mm Increment	0.01m Increment		LHBLTDSG LHBLTDSW	LHBLYADSN	LHBLGDSN	LHBLGADSN	LHBLGTDSN LHBLTYDSN	LHBLWDSN LHBLGYDSN LHBLYFDSN	LHBLTDSG LHBLTDSW	LHBLWDSN, LHBLYADSN LHBLGDSN, LHBLGADSN LHBLGTDSN, LHBLTYDSN LHBLGYDSN, LHBLYFDSN
LHBLTDSG LHBLTDSW LHBLWDSN LHBLYADSN LHBLGDSN LHBLGADSN LHBLGTDSN LHBLTYDSN LHBLGYDSN LHBLYFDSN	50~90 100~190 200~290 300~400 410~500	0.50~20.00 (L≥Wx4)									


Belts with meandering prevention crosspiece are knife-edged and hence cannot be used.

Type	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water Resistance, Moist-Heat Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to imprinting	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
SHBLTDSG	○*1	-	○	○	○	-	-	○	○	○
SHBLTDSW	○	-	○	○	○	-	-	○	○	○
SHBLTDS	○*1	-	○	○	○	-	-	○	○	○
YSBLGDSN	○*1	-	○	○	○	-	-	○	○	○
YSBLWDSN	○	-	○	○	○	-	-	○	○	○

Type	Standard Inclination	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water Resistance, Moist-Heat Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to imprinting	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
LHBLTDSG	15 or less	○	-	○	-	-	-	-	-	-	○
LHBLTDSW	15 or less	○	-	○	-	-	-	-	-	-	○
LHBLWDSN	15 or less	○	-	○	-	-	-	-	-	-	○
LHBLYADSN	15 or less	○	-	○	-	-	-	-	-	-	○
LHBLGDSN	15 or less	○	-	○	-	-	-	-	-	-	○
LHBLGADSN	20 or less	○	-	○	-	-	-	-	-	-	○
LHBLGTDSN	20 or less	○	-	○	-	-	-	-	-	-	○
LHBLTYDSN	20 or less	○	-	○	-	-	-	-	-	-	○
LHBLGYDSN	30 or less	○	-	○	-	-	-	-	-	-	○
LHBLYFDSN	30 or less	○	-	○	-	-	-	-	-	-	○

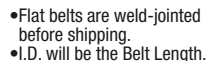
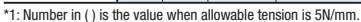
\*1: Cannot be used for bare transfer of oil and fatty foods.

○: Best suited, ○: Applicable, △: May be applicable, -: Not applicable

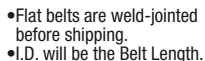
	Part Number	Belt Length L (m)	
	Type	Belt Width	
	SHBLTDSG	350	4.23

## Flat Belts - With Meandering Prevention Crosspiece Non-Adhesive / For Food Transfer

**Non-Adhesive Features:** Suitable for ensuring the running straightness and strength against lateral forces. Low adhesion belt surface is suitable for transferring objects with adhesive qualities.




\*1: Number in ( ) is the value when allowable tension is 5N/mm



\*1: Number in ( ) is the value when allowable tension is 5N/mm

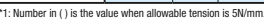
- Flat belts are weld-jointed before shipping.
- I.D. will be the Belt Length.



 Belts with meandering prevention crosspiece are knife-edged and hence cannot be used.  
 Belt length for SOBLGDSN, KOBLGDST is specified from 0.70 onwards.

Type	Belt Width		
OHBLTDS	350	-	4.23

⊙: Best suited, ○: Applicable, △: May be applicable, -: Not applicable



- Flat belts are weld-jointed before shipping.
- I.D. will be the Belt Length.

⚠ For Belt Tolerance, see  P.1352

⚠ Belts with meandering prevention crosspiece are knife-edged and hence cannot be used

Type	Belt Width		
NSHBLTDS	350	-	4.23
KBLDSW	350	-	4.23

☉: Best suited, ○: Applicable, △: May be applicable, -: Not applicable

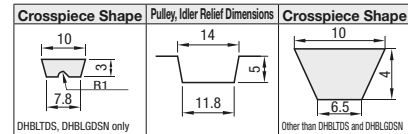


Flat Belts - With Meandering Prevention Crosspiece For Packaged Goods Transfer / For Electronic Parts Transfer

■ Features: Suitable for ensuring the running straightness and strength against lateral forces. Packaged goods can be transferred without any damage. Provided with antistatic finish. Suitable for conveyance of static-sensitive electronic components, (DHBLTDS/DHBLGDSN)

Type	Color	Ply count	Surface Shape	Material		Friction Coefficient (Ref. Against Polished Steel)		Thickness mm	Unit Mass kg/m <sup>2</sup>	Allowable Tension N/mm	Min. Pulley Dia. Ømm	Continuous Use Temperature °C
				Surface	Back	Front	Back					
FBLGDS	Green	1	Flat surface	Suede Non-woven Fabric	Polyester Canvas	-	-	1.8	1.2	4	25	-5~60
FBLWDS	White	1	Flat surface	Suede Non-woven Fabric	Polyester Canvas	-	-	1.8	1.2	4	25	-5~60
FBLGDSN	Green	2	Flat surface	Suede Non-woven Fabric	Polyester Canvas	-	-	2.0	1.5	5	30	-5~60
FBLWDSN	White	2	Flat surface	Suede Non-woven Fabric	Polyester Canvas	-	-	2.0	1.5	5	30	-5~60
DHBLTDS	Black	1	Flat surface	Conductive Polyurethane	Polyester	0.8	0.2	0.8	0.7	4	15	-30~80
DHBLGDSN	Black	2	Flat surface	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.4	1.5	8	25(15) *1	-30~80

\*1: Number in ( ) is the value when allowable tension is 5N/mm.



For Belt Tolerance, see P.1352

• Flat belts are weld-jointed before shipping.  
• I.D. will be the Belt Length.

Part Number		Belt Length L (m)	Body Price / m				Belt Jointing Charge (Body Price + )			
Type	Belt Width W	0.01m Increment	FBLGDS FBLWDS	FBLGDSN FBLWDSN	DHBLTDS	DHBLGDSN	FBLGDS FBLWDS	FBLGDSN FBLWDSN	DHBLTDS	DHBLGDSN
FBLGDS	50~90	0.50~20.00 (L≥Wx4)								
FBLWDS	100~190									
FBLGDSN	200~290									
FBLWDSN	300~400									
DHBLTDS	410~500									

Belts with meandering prevention crosspiece are knife-edged and hence cannot be used.

Circumference Lengths of FBLGDS, FBLWDS, FBLGDSN, FBWDSN are 0.70~

Type	Food Sanitation	Antibacterial and Antifungal Property	Fray Prevention	Water / Moisture Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to imprinting	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
FBLGDS	△	-	-	-	-	-	○	-	○	-
FBLWDS	△	-	-	-	-	-	○	-	○	-
FBLGDSN	△	-	-	-	-	-	○	-	○	-
FBLWDSN	△	-	-	-	-	-	○	-	○	-
DHBLTDS	-	-	○	-	-	-	-	-	-	○
DHBLGDSN	-	-	○	-	-	-	-	-	-	○

○: Best suited, ○: Applicable, △: May be applicable, -: Not applicable

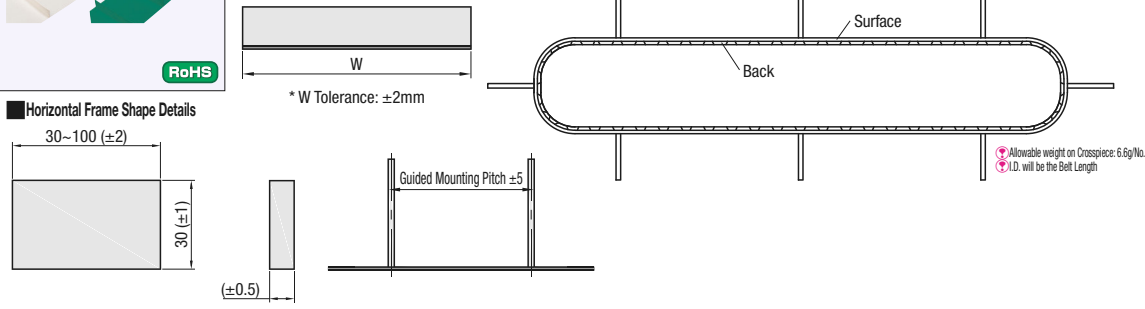
Ordering Example	Part Number		Belt Length L (m)
	Type	Belt Width (mm)	
	FBLGDS	350	- 4.23
	DHBLTDS	350	- 4.23

Flat Belts with Crosspieces

■ Features: Workpiece can be firmly received and transferred in inclined or flat transfer.

Type	Usage	Ply count	Material		Color	Alternative Tension N/mm	Thickness mm	Unit Mass kg/m <sup>2</sup>	Min. Pulley Dia. Ømm	Continuous Use Temperature °C	Suitable for Food Transfer	Friction Coefficient		Crosspiece	
			Surface	Back								Front	Back	Color Tone	Hardness Shore A (°)
YBLTG	Inclined Transfer	2	Thermoplastic Polyurethane	Polyester Canvas	Green	4.6	1.3	1.5	50	-15~80	×	-	-	Green	70
YBLTW	Flat Transfer				White	6	1.2	1.3	50	-30~80	○	-	-	White	

YBLTW (W) can be suitable for food transfer by matching the base material (belt) and the crosspieces. Green is not suitable.



• Belt Width W Dimension will be the same as Crosspiece Width Dimension.

• Crosspiece welding method: High-frequency welding

• Conveyance belt for food has the functions compliant with the requirements of the following authority.

YBLTW:

\*FDA—Food and Drug Administration

It is a government organization of the United States that professionally administers the regulations for approval or violation of products used in leading a normal life, such as food, medical products, cosmetics, medical devices, animal health products, toys, etc.

Flat Belt with Crosspiece Selection Method

- ① Select width, length and color
- ② Determine the no. of crosspiece with respect to the belt length

Specify the Crosspiece Mounting Pitch by dividing the Belt Length into whole numbers. If not divisible, evenly weld the horizontal frame.

Part Number		Crosspiece Height (mm)	No. of Crosspieces	Belt Length L (m) 0.01m Increment	Body Price Unit Price / m	(Body Price + )	
Type	Belt Width W (mm)	30	5~240	1.00~7.00		Crosspiece Weld-on Charge / Pc.	Belt Jointing Charge
YBLTG	30					YBLTG	
	50						
	100						
	150						
	200						
	250						
	300						

Part Number		Crosspiece Height (mm)	No. of Crosspieces	Belt Length L (m) 0.01m Increment	Body Price Unit Price / m	(Body Price + )	
Type	Belt Width W (mm)	30	5~240	1.00~7.00		Crosspiece Weld-on Charge / Pc.	Belt Jointing Charge
YBLTW	30					YBLTW	
	50						
	100						
	150						
	200						
	250						
	300						

Flat belts are weld-jointed before shipping.

For a conveyor example with this belt, see P.1251, 1252

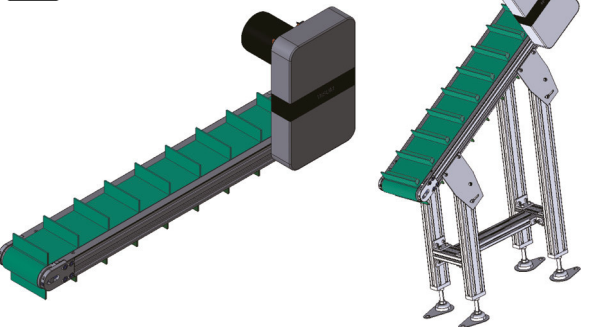
Specify the Crosspiece Mounting Pitch by dividing the Belt Length into whole numbers. If not divisible, evenly weld the horizontal frame.

Ordering Example	Part Number		Crosspiece Height	No. of Crosspieces	Belt Length L (m)
	Type	Belt Width (mm)			
	YBLTW	100	- 30	- 10	- 3.0

Belt Price Calculation Method

Ex.: YBLTW100-30-10-3.0

Belt Body Price x Belt Length L(m) + Crosspiece Unit Price x No. of Horizontal Frames + Belt Jointing Charge = Crosspiece Flat Belt Price



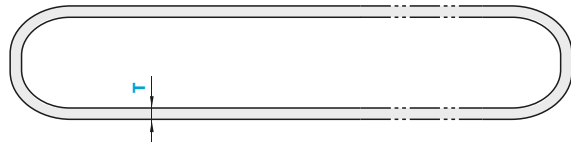
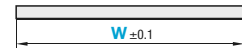
# Stainless Steel Belt

■ **Features:** Stainless steel belt with superior flatness, heat resistance, and electrical conductivity.

## Stainless Steel Belt



Type	Material	Thickness mm	Specific Gravity	Allowable Tension kg/mm	Min. Pulley Dia. mm	Continuous Use Temperature °C	Electrical Resistance of Surface Ω	Friction Coefficient (Ref. Against Polished Steel)	Surface Hardness HV	Young's Modulus kgf/mm <sup>2</sup>	Heat Expansion Coefficient 10 <sup>-6</sup> /°C
STHBLT	EN 1.4301 Equiv.	0.1	0.8	4	50	-80~110	0.2	0.2	370 or over	19700	17.3
		0.15	1.2	6	75	-80~120	0.3				
		0.2	1.6	8	100	-80~130	0.5				



Part Number	Belt Thickness T (mm)	Belt Width W (mm) 1mm Increment	Belt Length L (m) 0.01mm Increment	Body Price/m	Belt Jointing Charge (Body Price + )
STHBLT	0.1 0.15 0.2	10~20	0.50~10.00		
		21~30			
		31~40			
		41~50			
		51~60			
		61~70	0.80~10.00		
		71~80			
		81~90			
		91~100			
		101~120			
		121~140			
		141~150			

For belt selections, see P2252 Technical Data.

For a conveyor example with this belt, see P1263

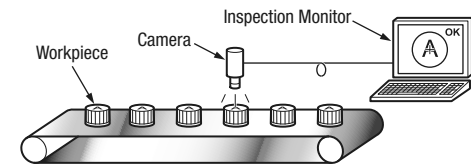
Ordering Example	Part Number	-	Belt Width (mm)	-	Belt Length L (m)
	Type	-	Belt Thickness	-	
	STHBLT	-	0.15	-	25 - 2.24

## Cautionary Points on Usages

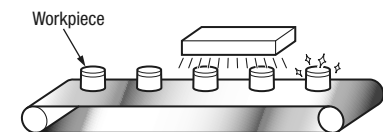
- Belts with 0.1 and 0.15 thickness are not suitable for accumulating transfer applications.
- Avoid causing impacts in through-thickness direction as it is very thin.
- The belt life will be reduced if dented.
- When loading items on the belt, use sliding chutes to avoid shock loads.
- Do not continue to use with foreign matter trapped between the belt and belt supports, workpiece guides, etc.
- The product surfaces coming in contact with the belt should be softer than the belt.
- Use dedicated pulleys and idlers.
- Belts cannot be tensioned from the back side.



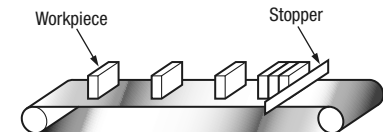
## Image Inspection



## Sterilization by UV and Alcohol

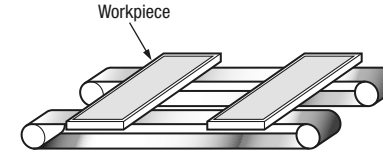


## Accumulation Transfer



Belts with 0.1 and 0.15 thickness are not suitable for accumulating transfer applications.

## Transfer of LED and Solar panels



## Chemical Resistance

Chemical Name	Stainless Steel Belt
	STHBLT
Isopropyl Alcohol	○
Ethanol	○
Potassium Chloride	○
Calcium Chloride	○
Hydrochloric Acid (Gas)	×
Hydrochloric Acid (5% or less)	×
Hydrochloric Acid (5 ~ 36%)	×
Caustic Soda	○
Caustic Soda Solution (50%)	○
Volatile Oil	○
Strong Alkali	○
Strong Acid	×
Light Oil	○
Ethyl Acetate	△
Sodium Hypochlorite (Undiluted Solution)	×
Sodium Hypochlorite (600ppm)	×
Weak Alkali	○
Weak Acid	○
Soap	○
Machining Oil	○
Diesel Oil	○
Toluene	○
Naphthalene	○
Paraffin Oil	○
Phenol	○
Antirust Oil	○
Machine Oil	○
Methanol	○
Sulfuric Acid (10%)	×
Sulfuric Acid (50%)	×
Sulfuric Acid (70%)	×
Sulfuric Acid (98%)	×

○: Not affected at all △: Slightly affected ×: Severely affected

The above table shows adequacy in the condition where materials including chemicals and oil are loaded on belt surface and carried at a room temperature. Actual conditions may differ in cases where belts are completely submerged in materials or used in higher temperature than room temperature.

Care must be taken for rusts resulting by chlorides and acids.

## Resistance Against Foods

Food	Stainless Steel Belt
	STHBLT
Yeast	○
Tea Leaf	○
Olive Oil	○
Fruit	○
Cashew Nuts	○
Cream	○
Spice	○
Grain	○
Coffee Beans	○
Flour	○
Rice Grain	○
Fish	○
Sugar	○
Salt	○
Salt Water	○
Fat	○
Cooking Oil	○
Syrup	○
Soy Sauce	○
Vinegar	○
Sauce	○
Molasses	○
Meat	○
Butter	○
Bread	○
Peanut Oil	○
Beer	○
Margarine	○
Mayonnaise	○
Water	○
Lard	○

# Pulleys and Idlers for Stainless Steel Belts

## Crowned

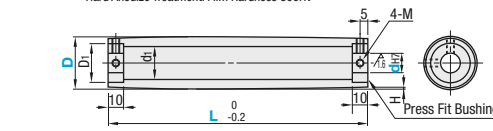
■ **Features:** Crowned pulleys and idlers dedicated for stainless steel belts.

## Pulleys for Stainless Steel Belts Crowned

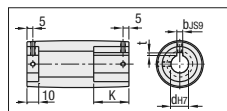


Type	Material	Surface Treatment
ROBASC	Aluminum Alloy	Hard Clear Anodize

\* Hard Anodize Treatment: Film Hardness 300HV ~



## Keyway Shape



## New JIS (B1301) Keyway Dimensions

Normal	dH7		bJS9		t Tolerance	
N15	15	+0.018 0	5	±0.0150	2.3	+0.1 0
N20	20	+0.021 0	6		2.8	3.3
N25	25		8	±0.0180		
N30	30					
N35	35	+0.025	10	±0.0215		
N40	40	0	12			