## **Flat Belts - Product Information**

## **Expanded Flat Belt Lineups!!**



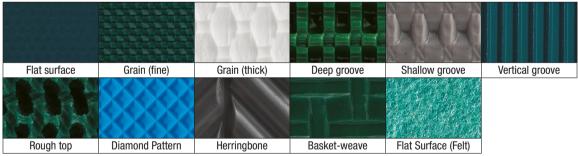
Wide range of specifications, ply count, colors, surface shapes are available

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

Variations in color are available.



■Variations in surface shape are made available.



Lineups in accordance with the specifications/usage are provided.

**General Belts** 

Sliding

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

Are sideway sliding belts available?

Oil Resistant Belts

Belt expands if machining oil is applied.

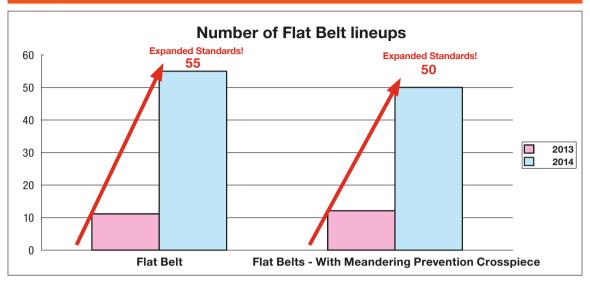
Light blue and Lime green are added.

2 lineups in vertical direction and lateral direction are available.

Machining oil, mineral oil dedicated

belts are arranged.

# 105 types 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 cover
Polyurethane Impregnated Canyas
Polyurethane Impregnated Canyas

□ Polyurethane Impregnated Canvas

1 layer of Polyurethane cover and Polyurethane Impregnated Canvas.

2 layers of Polyurethane cover and Polyurethane Impregnated Canvas.

Polyurethane Impregnated Canvas.

Polyurethane cover

Polyurethane cover

Polyurethane Impregnated Canvas

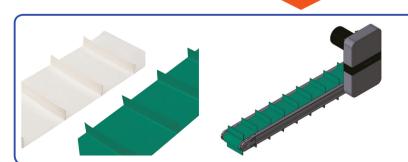
3 layers of Polyurethane cover and Polyurethane Impregnated Canvas.

wFeature 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.	MMateri	Friction Coefficient (Ref. Against Polished Steel)			
	71.	Front	Back	2x surface enlarged	Dia.	Surface	Back	Front	Back
	HBLT				25	Polyurethane	Polyester	0.2	0.1
	нвітун				25	Polyurethane	Polyester	0.15	0.1
	HBLTG HBLTDSG				15	Polyurethane	Polyester	0.8	0.2
	HBLTDSW				15	Polyurethane	Polyester	0.8	0.2
	HBLTDS				25	Polyurethane	Polyester	0.8	0.2
General Purpose	HBLTGDN HBLTGSDSN				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 HBLTGCDSN				50	PVC	PVC Polyester Canvas		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
	HBTDST HBTDSTN				100	PVC	Polyester Canvas	1.0	0.2
	SHBLTG				25	Urethane Impregnated	Polyester	0.15	0.1
	SHBLT				25	Urethane Impregnated	Polyester	0.1	0.1
	SHBLTDSG			SS 198 198 199 199 199 199 199 199 199 199 199 199	20	Polyester	Polyester	0.2	0.2
Sliding	SHBLTDSW	X			20	Polyester	Polyester	0.2	0.2
	SHBLTDS		X X X X X X X X X X X X X X X X X X X		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

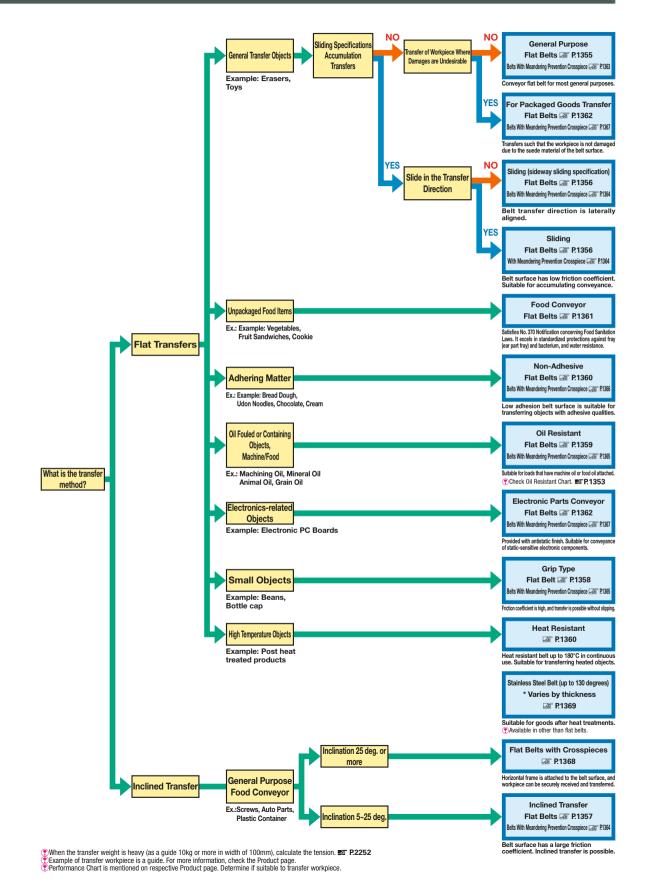
Usage	Type	Type Appearance		Min. Pulley	<b>M</b> Material			Coefficient Polished Stee	
Coago	.,,,,,	Front	Back	2x surface enlarged	Dia.	Surface	Back	Front	Back
	LHBLT				30	Soft Polyurethane	Polyester	1.7	0.1
	LHBLTWH				30	Soft Polyurethane	Polyester	1.7	0.1
	LHBLTDSG				25	Polyurethane	Polyester	1.3	0.2
	LHBLTDSW			-	25	Polyurethane	Polyester	1.3	0.2
	LHBLWN LHBLWDSN				50(25)*1	Thermoplastic Polyurethane	Polyester Canvas	1.6	0.2
ladia d	LHBLYAN LHBLYADSN				80	PVC	Polyester Canvas	1.2	0.2
Inclined Transfer	LHBLGASN LHBLGDSN	HH			100(70)*1	PVC	Polyester Canvas	1.1	0.2
	LHBLGAN LHBLGADSN				80	PVC	Polyester Canvas	1.2	0.2
	LHBLGTN LHBLGTDSN				80	PVC	Polyester Canvas	1.1	0.2
	LHBLYTN 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
	GBLG GBLDSG				15	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2
	GBLW GBLDSW				15	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2
Grip Type	GBLGSN GBLGSDSN				25	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2
	GBLGDN GBLGDSN	MAK			50(20)*1	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2
	GBLWN GBLWDSN				50(20)*1	Thermoplastic Polyurethane	Polyester Canvas	0.7	0.2
	OHBLTG OHBLTDSG				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
Oil Resistant	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	A Control of the Cont	1		75	Silicon Rubber	Polyester	1.5	0.1

<sup>• 1:</sup> 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

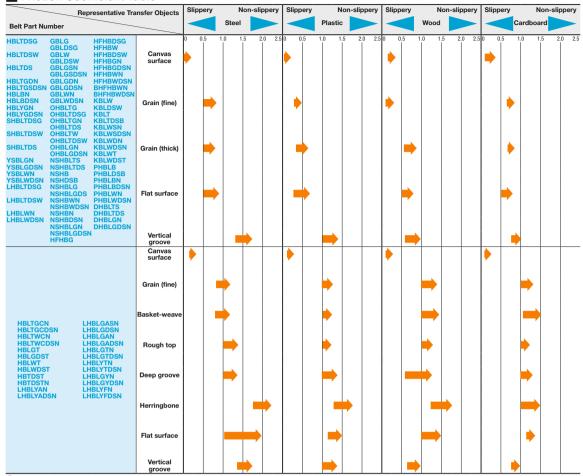
Usage	Туре	Appearance		Min. Pulley	MMateri	al	Friction ( (Ref. Against	Coefficient Polished Ste	
Usuge	Турс	Front	Back	2x surface enlarged	Dia.	Surface	Back	Front	Back
	NSHBLT				25	Polyurethane	Polyester	0.2	0.15
	NSHBLTS NSHBLTDS		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		15	Polyurethane	Polyester	0.6	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
Non-Adhesive	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
	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 KBLWSDSN				25(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
Food Conveyor	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		\$	XXX	30	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	PHBLWN PHBLWDSN		V V		30	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2
	FBLG FBLGDS				25	Suede Non-woven Fabric	Polyester Canvas	-	-
For Packaged Goods Transfer	FBLW FBLWDS				25	Suede Non-woven Fabric	Polyester Canvas	-	-
Goods Transfer	FBLGN FBLGDSN				30	Suede Non-woven Fabric	Polyester Canvas	-	-
	FBLWN FBLWDSN				30	Suede Non-woven Fabric	Polyester Canvas	-	_
	DHBLT				25	Conductive Polyurethane	Polyester	0.2	0.1
For Electronic Parts Transfer	DHBLTS DHBLTDS				15	Conductive Polyurethane	Polyester	0.8	0.2
	DHBLGN DHBLGDSN			F. F. F.	25(15)*1	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2



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

# Flat Belts - Technical Data 1

### Friction Coefficient Table



t is necessary to handle the above figures with care as the friction coefficient greatly varies with the surface condition (surface roughness), and, liquids such as water or adhesion degree of dust.

Load shape		Bulk g	goods		В	ox	Bags	
	Powdered	Granulated	Substances	Solid	Card	board	Donor	Diagric Don
Surface Shape	Objects	Angulate	Round	Solid	Empty	5kg	Paper	Plastic Bag
Flat surface	15	10	-	5	10 (20)	15 (25)	15 (25)	15 (15)
Canvas surface	15	10	-	5	10 (10)	10 (10)	10 (10)	10 (10)
Grain (fine)	20	15	-	5	25 (35)	30 (35)	25 (35)	25 (35)
Grain (thick)	25	15	5	5	30 (35)	30 (40)	30 (35)	30 (30)
Deep groove	30*	15	10	5	30 (40)	30 (40)	25 (40)	25 (45)
Shallow groove	30*	15	5	5	30 (40)	30 (40)	30 (35)	25 (25)
Vertical groove	20*	15	-	5	25 (40)	25 (40)	25 (40)	20 (35)
Rough top	30*	15	10	5	35 (40)	35 (40)	30 (40)	30 (30)
Diamond	20	15	-	5	10 (20)	15 (25)	15 (25)	10 (15)
Herringbone	30*	15	10	5	40 (50)	40 (50)	30 (40)	30 (30)
Basket-weave	20	15	-	5	25 (40)	25 (40)	25 (40)	20 (35)

Gurrace images		HOLD		4 6 6 6	
Flat surface	Grain (fine)	Grain (thick)	Deep groove	Shallow groove	Vertical groove
Rough top	Diamond Pattern	Herringbone	Basket-weave	Felt	

# Flat Belts - Technical Data(2)

### Antistatic Performance Chart

Electrostatic Charge Tendency Rotating sector-type electrostatic measuring instrument 50mm Small ← Electrostatic Voltage → Large  $\Leftrightarrow$ Small ↓ Tensile Strength of Belt → Large Small ↓ Belt Speed → Large Large ↓ Atmospheric humidity → Small

[Measurement Method] Surface Resistance: ISO284 Compliant Running Belt Electrostatic Voltage: ISO21179 Compliant

Item		Part Number		Surface Resistivity (Ω)	Running Belt Electrostatic Voltage (V) (Absolute value)
General Use Belts		HBLTDS		10 <sup>12</sup> ~10 <sup>14</sup>	1000 or less
Antistatic Type Belts		DHBLTDS DHBLGN DHBLGDSN		10 <sup>7</sup> or less	50 or less
Other Belts	HBLTGCN HBLTGCDSN HBLTWCN HBLTWCDSN HBLGT HBLGDST HBLWT HBLWT HBLWTST HBTDST HBTDST	LHBLYAN LHBLYADSN LHBLGAN LHBLGADSN LHBLGYN LHBLGYDSN LHBLGTDSN	LHBLGASN LHBLGDSN LHBLYTN LHBLYTDSN	10 <sup>12</sup> ~10 <sup>14</sup>	1000 or less

### • DHBLT

Ite	em	Unit	DHBLT
Electrical Resist	ance of Surface	Ω	10 <sup>4</sup> ~10 <sup>5</sup>
Triboelectrical	* Test Condition A	V	10~20
Voltage	* Test Condition B	V	5~10

\* Test Conditions

A: Belt Speed: 220m/min. Temperature: 21±0.5°C. Humidity: 70±1% B: Belt Speed: 20m/min, Temperature: 18±0.5°C, Humidity: 50±1%

Listed values are not guaranteed values but an example set of measured values.

### **■** Minimum Pulley Diameter Selection Table

### Minimum Pulley Dia., Driving Pulley Dia.

Identify the relevant pulley diameters by reading the width and length of the belt from the table below, and determine the smaller value as "minimum pulley diameter" and larger value as "drive pulley diameter".

[Table 1] Minimum Pulley Diameter Selection Table (Belt Width)							
	Min. Pulley Dia. (Ømm)						
Belt Width (mm)	HBLT, HBLTWH SHBLTG, SHBLT DHBLT, FHBLT OHBLT, NSHBLT	LHBLT LHBLTWH	HHBLT				
Less than 100	25	30	75				
100~190	50	55	75				
200~400	50	55	100				
410~500	75	80	100				
/F \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							

(Ex.) When the width is 150mm and the length is 5.00mm Select from Width: 50 ··· Small Value † Min. Pulley Dia. Select from Length: 75 ··· Large Value † Min. Driving Pulley Dia.

#### [Table 2] Minimum Pulley Diameter Selection Table (Belt Length)

	,		
	Min. Pull	ley Dia. (Ømr	n)
Belt Length (m)	HBLT, HBLTWH SHBLTG, SHBLT DHBLT, FHBLT OHBLT, NSHBLT	LHBLT LHBLTWH	HHBLT
Less than 1.00	25	30	75
1.00~ 1.99	50	55	75
2.00~ 4.00	50	55	100
4.01~ 7.00	75	80	100
7.01~10.00	100	105	125
10.01~20.00	100	105	150

### ■ Flat Belt Tolerance Chart

#### Width tolerance Thickness tolerance

Width	Tolerance	Thickness	Tolerance	Joint tolerance
~400	±2	~1.0	±0.1	
401~500	±3	1.1~1.5	+0.2	±0.3
		1.6~2.0	±0.2	±0.3
		2.1~5.5	±0.4	

#### Length tolerance

Length	Tolerance
~ 2000	±10
2001~ 7000	±20
7001~10000	± 0.3%
10001~	± 0.3%

Permanent elongation of the belt is up to 1% for the overall length. (Reference value)

<sup>\*</sup> Data is presented on the assumption that belt surface is soiled with dust, etc.
For reference, data in case of clean belt surface is presented in ().
\* Instances of being used for transfer of powdered objects are less, but are given for reference.

# Flat Belts - List by Oil Resistance and Chemical Resistance

		General Use / Grip Type / Electronic Parts Conveyor	Non- Adhesive	Food Conveyor	Oil Resistant	Sliding	Inclined Transfer	General Use / Inclined Transfer	Inclined Transfer
Туре	Chemical Name	HBLTG GBLG GBLDSG GBLGSN HBLTDSW HBLTDSW HBLTGDN HBLTGDSN HBLYGDSN HBLYGDSN HBLBN HBLBN HBLBN HBLBDSN SHBLTDSG SHBLTDSG SHBLTDSG SHBLTDSG SHBLTDS GBLWN DHBLTS GBLWN GBLWDSN HBLBDSN HBLBDSN SHBLTDSG SHBLTDSG SHBLTDSG DHBLGSN DHBLTDS DHBTDS DHBTDS DHBTDS DHBTDS DHBTDS DHBTDS DHBTDS DHBTD	NSHBLTS NSHBLTDS NSHB NSHDSB NSHBLGDS NSHBUGDS NSHBWDSN NSHBLGDSN NSHBDSN NSHBLGDSN NSHBLGDSN HFHBG HFHBDSG HFHBDSG HFHBDSG HFHBDSG HFHBDSN HFHBGDSN HFHBWN HFHBWNSN	KBLW KBLDSW KBLT KBLTDSB KBLWSN KBLWSDSN KBLWDN KBLWDSN KBLWDST PHBLB PHBLDSB PHBLBBSN PHBLBN PHBLBN PHBLBN PHBLBNSN BHFHBWDSN BHFHBWDSN	OHBLTG OHBLTDSG OHBLTGN OHBLTDS OHBLTDSW OHBLGDSN	YSBLGIN YSBLGDSN YSBLWN YSBLWDSN	LHBLTDSG LHBLTDSW LHBLWN LHBLWDSN	HBLGT HBLGDST HBLWT HBLWDST HBLTGCDSN HBLTGCDSN HBLTWCDSN HBTDSTN HBTDSTN LHBLGTN LHBLGTDSN	LHBLYAN LHBLYADSN LHBLGANSN LHBLGANSN LHBLGYDSN LHBLGSN LHBLGSSN LHBLGTN LHBLYTDN LHBLYTDSN LHBLGYDSN LHBLGYDSN LHBLGYDSN
	Linseed Oil Corn Oil		7		0	0	0	0	× -
Cooking Oil	Animal Oil	(			Ō	Ö	Ö	Ō	Δ.
	Vegetable Oil Coconut Oil (Palm Oil)		2		0	0	0	0	Δ
	ASTM No.1 Oil				Ö	Ö	Ö	Ö	×
	ASTM No.2 Oil				Ö	Ö	0	Ö	×
Machine Oil	ASTM No.3 Oil DOS		2		0	<u> </u>	0	0	×
Machine Oll	Grease			0	0	0	Δ	X	
	Paraffin Oil	(			Ō	Ō	0	0	0
	Machining Oil		<		0	×	0	0	×
Others	Glycerin Mineral Oil		)		0	0	0	0	
Fats	Dibutyl Phthalate		7		Δ	Δ	Δ	×	×
	Sodium Chlorate				0	0	0	0	0
Antiseptic Solution	Hydrogen Chloride Hypochlorite Soda 400ppm			Δ	<u> </u>		0	<u>O</u>	
Solution	Electrolytic Hypochlorite Water 400ppm			Δ	0	0	0	Δ	
	Acetaldehyde		<		×	×	×	Δ	Δ
	Acetone Amyl Alcohol				×	×	×	×	×
	Isooctane		)		0	0	0	×	×
	Isopropyl Alcohol		5		0	0	Ö	Δ	Δ
	Isopropyl Ether Ethyl Alcohol		7		<u> </u>	0	<u> </u>	×	×
	Ethylether (Ether)		<i>,</i>		×	×	×	×	×
	Gasoline			×	×	×	×	×	
	Xylene (Xylol)		<		×	×	×	×	×
	Cresol Chloroform		<		×	×	×	×	×
	Kerosene				0	0	0	Δ	×
	Aluminium Acetate		<		×	×	×	×	×
	Ethyl Acetate Butyl Acetate		<		×	×	×	×	×
Solvent	Carbon Tetrachloride		7		Δ	Δ	Δ	×	×
Solvent	Cyclohexane		<		×	×	×	×	×
	Dimethylformamide (DMF) Petroleum				×	×	×	×	×
	Trichloroethylene	· · · · · · · · · · · · · · · · · · ·	<u> </u>		×	×	×	×	×
	Toluene (Triol)		<		×	×	×	×	×
	Nitrobenzene Carbon Disulfide		<		×	×	×	×	×
	Perchlorethylene		<		×	×	×	×	×
	Butyl Alcohol (Butanol)				0	0	0	Δ	Δ
	Hexane Heptane		)		0	0	0	×	X
	Benzene (Benzol)		<		×	×	×	×	×
	Benzaldehyde				×	×	×	×	×
	Formaldehyde (Formalin) 37% Methyl Alcohol (Methanol)				×	×	×	Ο Δ	<u>O</u>
	Methylethylketone (MEK)		<		×	×	×	×	×
	Thinner (generic)		<u> </u>		×	×	×	×	×
	Adipic Acid Benzoic Acid		<u>`</u>		-	×	×	-	<u> </u>
	Zinc Chloride				0	ô	Ô	0	0
	Acetyl Chloride		<		×	×	×	Δ	×
	Amyl Chloride Aluminum Chloride		)		×	×	×	Δ	×
	Chloroethane		<		×	×	×	×	Х
A = : 1:	Calcium Chloride Ferrous Chloride*				0	0	0	0	0
Acidic chemicals	Ferric Chloride*		)		0	0	0	0	0
	Ethylene Chloride	(			Ö	Ö	0	Ō	Ö
	Hydrochloric Acid 5%	(			×	×	×	0	0
	Chlorine Gas Chlorine Water Solution		<		×	×	×	×	×
	Oleic Acid				Ô	Ô	Ô	Ö	
	Formic Acid		<		×	×	×	Ŏ	×
	Citric Acid		)			0	0		×
	Glycolic Acid		)		0	0	0		×

		General Use / Grip Type / Electronic Parts Conveyor	Non- Adhesive C	Food Conveyor	Oil Resistant	Sliding	Inclined Transfer	General Use / Inclined Transfer	Inclined Transfer
Туре	Chemical Name	HBLTDS GBLCS GBLCSN HBLTDSW HBLTDS HBLTGDN HBLTGSDSN HBLYGN HBLYGN HBLMSN SHBLTDSS SHBLTDSS SHBLTDSS SHBLTDSS SHBLTDS DHBLTDS SHBLTDS SHBLTDS DHBLTDS SHBLTDS	NSHDSB NSHBLGDS NSHBWN KNSHBWDSN NSHBN NSHBDSN NSHBLGDSN NSHBLGDSN HFHBG HFHBDSG HFHBDSW HFHBGDSN HFHBGDSN HFHBGDSN	KBLW KBLDSW KBLT KBLWSN KBLWSN KBLWSDSN KBLWDSN KBLWDSN KBLWDSN KBLWDT PHBLB PHBLDSN PHBLBSN PHBLBSN HBLBDSN HBLBUSN HBLWDSN HBLWDSN HFHBWDSN	OHBLTG OHBLTDSG OHBLTGN OHBLTDS OHBLTDSW OHBLGN OHBLGN	YSBLGN YSBLGDSN YSBLWN YSBLWDSN	LHBLTDSG LHBLTDSW LHBLWN LHBLWDSN	HBLGT HBLGDST HBLWT HBLWDST HBLTGCDSN HBLTGCDSN HBLTWCDSN HBTDST HBTDSTN LHBLGTN LHBLGTDSN	LHBLYAN LHBLYADSN LHBLGAN LHBLGADSN LHBLGYDSN LHBLGYDSN LHBLGASN LHBLGDSN LHBLYTDSN LHBLGYN LHBLGYN LHBLGYN LHBLGYN LHBLGYN LHBLGYDSN
	Chromic acid		×		×	×	×	Δ	Δ
	Acetic Acid 10% Bromine		×		×	×	×	×	×
	Oxalic acid 20%		<u> </u>		×	Ô		Ô	Ô
	Tartaric acid		)		Δ	Δ	Δ	Δ	$\Delta$
	Nitric Acid 5%		×		×	×	×	0	0
	Nitric Acid 20%		×		×	×	×	×	×
	Ammonium Nitrate				0	Ŏ	Q	0	Ŏ
	Calcium Nitrate	`			0	0	0	0	Ŏ
Acidic	Stearic Acid		)		0	0	0	Ô	0
chemicals	Trichloroisocyanuric acid		×		×	×	×	<u> </u>	×
	Lactic Acid		<u> </u>		0	0		0	
	Fuming Sulfuric Acid Picric acid 10%		×		×	×	×	×	×
	Phenol (Carbolic acid)		×		×	×	×	×	×
	Boric acid		5		Ô	Ô	Ô	Ô	Ô
	Maleic acid		Δ		×	×	×	Δ	Δ
	Iodine solution		)		0	0	0	0	0
	Sulfuric Acid 50%	:	×		×	×	×	Δ	Δ
	Phosphoric Acid 80%		×		×	×	×	Δ	Δ
	Aniline		×		×	×	×	×	×
	Ammonia gas				<u> </u>			0	
	Ammonia water solution Sodium Hydroxide (Sodium Hydroxide) 10%		<u> </u>		×		×	O A	O
	Sodium Chromate		)		0	Ô	0	Δ	$\triangle$
	Developer (Hydroquinone)		)		Ö	Ö	Ö	0	0
Basic	Sodium Acetate		5		Ö	Ö	Ö	Ö	ŏ
chemicals	Sodium Bicarbonate		5		Ō	Ō	Ō	Ö	Ō
	Ammonium Hydroxide	(	)		Δ	$\triangle$	$\triangle$	0	0
	Potassium Hydrate		×		×	×	×	Δ	$\triangle$
	Urea		^		×	×	×	Δ	
	Sodium Sulfide Trisodium Phosphate 10%		×		×	×	×	×	× ()
	Antimony Salt		<u> </u>		Ö	0	0	Ŏ	
	Sulfur		5		Ö	Ö	Ö	Ö	ŏ
	Sodium Chloride (Salt)		5		Ŏ	Ŏ	Ŏ	Ŏ	Ŏ
	Ozone		)		0	0	0	0	0
	Zinc Acetate	,	)		0	0	0	0	0
	Ammonium Acetate				Q	<u> </u>	<u> </u>	O O	<u> </u>
	Lead Acetate		)		0	0		0	
	Oxygen Salt Water (Seawater)		)		0	0	0	0	0
	Sodium Acid Sulfate		)		Δ	0	Δ	0	0
	Silver Nitrate		)		0	Ö	0	Ö	<u> </u>
	Ferrous Nitrate		5		Ŏ	Ŏ	ŏ	Ŏ	ŏ
	Sodium Sulfate		2		0	Q	Q	0	0
	Calcium Hydroxide		2		0	0	<u> </u>	0	<u> </u>
	Steam (80°C or less)		<u> </u>		Δ	Δ		Δ	
	Soap Ammonium Carbonate		)		0	0	0	0	0
	Sodium Carbonate	,			0	0	0	0	0
Others	Sodium Thiosulfate (Hypo)		5		Ö	Ö	Ö	Ö	<u> </u>
Chemical	Neutral Salts		5		Ŏ	Ŏ	Ŏ	Ŏ	Ö
	Sulfur Dioxide		Δ		Δ	Δ	Δ	0	0
	Nickel Salt		2		0	0	<u> </u>	0	<u> </u>
	Fertilizer (general)		<u> </u>		0	0	0	0	0
	Freon gas Propane		<u> </u>		×	×	×	×	×
	Polystyrene		)		Ö	0	0	×	×
	Magnesium Salt		5		Ö	Ö	Ö	Ô	0
	Aluminum Sulfide		5		Ŏ	Ŏ	Ŏ	Ŏ	Ŏ
	Ammonium Sulfide		)		0	0	0	0	0
	Hydrogen Sulfide		×		×	×	×	0	0
	Zinc Sulfate				0	Ŏ	Ŏ	Ŏ	0
	Aluminum sulfate		2		0	0	0	0	0
	Ammonium Sulfate		)		0	0	0	0	0
	Calcium Sulfate Ferric Sulfate		)		0	0	0	0	0
	Sodium Sulfate		)		0	0	0	0	0
	Potassium Phosphate		5		Ö	Ö	Ö	Ö	<del>_</del>
	Sodium Acid Phosphate	(			0	0	Ö	0	0
(a) If the helt is used in a	condition wherein it comes in contact with salty w	ntor for an ann water and the helt reported	ly note (wat dry) ealt	orustala ara form	ad incide the helt and	he helt contracts	O. Applicat	ole. △: May be applica	ble Net conficable

## Flat Belts General Use

### Features: Used for transfer of wide range of items right from food to cardboard, metal and plastic. Excels in moist-heat resistance and prevents fray.



Туре	Type No.	Ply count	Surface Shape	Color	Surface Back F		(nei. Ayalist Pulsileu Sieel)		Thickness mm	Unit Mass	Allowable Tension	Min. Pulley Dia.	Knife Edge	Continuous Use Temperature
	140.	Count	Shape				Front	Back	"""	kg/m²	N/mm	Ømm	Luge	°C
HBLT	1	1	Flat surface	Green	Polyurethane	Polyester	0.2	0.1	0.9	1	4	25	R5	-30~80
HBLTWH	2	1	Flat surface	White	Polyurethane	Polyester	0.15	0.1	0.9	1	4	25	R5	-30~80
HBLTG	3	1	Flat surface	Green	Polyurethane	Polyester	0.8	0.2	0.8	0.7	4	15	R3	-30~80
HBLTGDN	4	2	Flat surface	Green	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.7	1.9	8	50	×	-30~100
HBLBN	(5)	2	Flat surface	Sky Blue	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.4	1.3	3	15	R3	-30~100
HBLYGN	6	2	Flat surface	Yellow Green	Thermoplastic Polyurethane	Polyester Canvas	0.6	0.2	1.4	1.5	8	25(15)*1	(R3)*1	-30~100
HBLTGCN	7	2	Flat surface	Green	PVC	Polyester Canvas	1.0	0.2	2.1	2.3	8	50	×	-10~80
HBLTWCN	8	2	Flat surface	White	PVC	Polyester Canvas	1.0	0.2	2.1	2.3	8	50	×	-10~80
HBLGT	9	3	Flat surface	Green	PVC	Polyester Canvas	1.0	0.2	5.0	5.7	18	120	×	-10~80
HBLWT	10	3	Flat surface	White	PVC	Polyester Canvas	1.0	0.2	5.0	5.7	18	120	×	-10~80
HBTDST	11)	2	Flat surface	Green	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.

W ●For Belt Tolerance, see ► P.1352 Back

Surface

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

Part Num	ber	Belt Length L (m)			Вс	dy Price	m				Belt Jointir	ng Charge (Body Price +	)	
	Belt		12	3	4	578	6	9 10	(1)	12	3	4, 5, 6, 7, 8, 11	9 10	
Туре	Width W (mm)	0.01m Increment	HBLT HBLTWH	HBLTG	HBLTGDN	HBLBN HBLTGCN HBLTWCN	HBLYGN	HBLGT HBLWT	HBTDST	HBLT HBLTWH	HBLTG	HBLTGDN, HBLBN HBLYGN, HBLTGCN HBLTWCN, HBTDST	HBLGT HBLWT	
	10 15	0.50~20.00												
	20	0.30~20.00												
	25													
	30 35	-												
	40													
	50													
	60 70	-												
	75	]												
	80 90	-												
	100	1												
	110	]												
HBLT	120 125	-												
	130	_												
HBLTWH	140 150	-												
HBLTG	160	1												
HBLIG	170	1												
HBLTGDN	180 190	-												
UBLBU	200	j												
HBLBN	210 220	-												
HBLYGN	230	1												
	240	0.80~20.00												
HBLTGCN	250 260	-												
HBLTWCN	270													
	280 290	-{	-											
HBLGT	300	1												
HBLWT	310 320													
	330	1												
HBTDST	340	]												
	350 360	-												
	370	1												
	380 390	-												
	400	1												
	410													
	420 430	-												
	440	1												
	450 460	-												
	470	1												
	480	]												
	490 500	-												

Flat belts are weld-jointed before shipping.
The connection areas may become slightly thicker: HBLT, HBLTWH by 0.3mm.



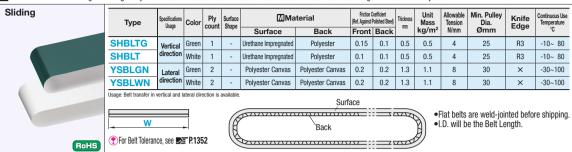
Туре	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water Resistance, Moist-Heat Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to imprinting	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
HBLT	0	-	-	Δ	Δ	Δ	Δ	Δ	Δ	Δ
HBLTWH	0	-	-		Δ	Δ	Δ	Δ	Δ	Δ
HBLTG	0	-	0	0	0	-	-	0	-	0
HBLTGDN	0	-	0	0	0	-	-	0	-	0
HBLBN	0	0	0	0	0	-	-	0	-	0
HBLYGN	0	-	0	0	0	-	-	0	-	0
HBLTGCN	0.41	-	0	-	-	-	-	0	-	0
HBLTWCN	0 *1	-	0	-	-	-	-	0	-	0
HBLGT	0 *1	-	-	-	-	-	-	0	-	0
HBLWT	0 *1	-	-	-	-	-	-	0	-	0
HBTDST	0 *1	-	Ö	-	-	-	-	Ó	-	0

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

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

# 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.



Part Nun		Belt Length L (m)		Body Price / m		Belt Jointing Char	
Туре	Belt Width W (mm)	0.01m Increment	SHBLTG SHBLT	YSBLGN	YSBLWN	SHBLTG SHBLT	YSBLGN YSBLWN
	10						
	15	0.50~20.00					
	20						
	25						
	30						
	35						
	40						
	50						
	60 70				-		
	75				-		
	80						
	90						
	100						
	110						
	120						
	125						
	130	[					
	140						
	150						
	160						
	170 180						
	190				-		
	200				-		
SHBLTG	210						
SHBLT	220						
, IDEI	230						
SBLGN	240	0.00.00					
	250	0.80~20.00					
SBLWN	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.
•The connection areas may become slightly thicker: SHBLTG, SHBLT by 0.3mm.



Туре	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
SHBLTG	0	-	-					Δ	Δ	Δ
SHBLT	0	-	-	Δ	Δ	Δ	Δ	Δ	Δ	Δ
YSBLGN	0*1	-	-	-	0	-	-	0	-	0
YSBLWN	0	-	-	-	0	-	-	0	-	0

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

③: Best suited, ○: Applicable, △: May be applicable, -: Not applicable

# **Flat Belts - For Inclined Transfer**

Features: Belt that ensures high grip on various surface patterns, such as Vertical groove, Shallow groove, Deep groove, Basket-weave, Rough top, Herringbone, etc.



Туре	Type No.	Incline Angle	Color	Ply	Surface Shape			(net Agailst Poisiled Steel)		Thickness mm	Unit Mass	Allowable Tension	Min. Pulley Dia.	Knife Edge	Continuous Use Temperature
	NO.	Allgle		Count	Snape	Surface	Back	Front	Back		kg/m²	N/mm	Ømm	Luge	°C
LHBLT	1	15 or less	Green	1	Vertical groove	Soft Polyurethane	Polyester	1.7	0.1	1.5	1.6	4	30	×	-10~80
LHBLTWH	2	15 or less	White	1	Vertical groove	Soft Polyurethane	Polyester	1.7	0.1	1.5	1.6	4	30	×	-10~80
LHBLWN	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
LHBLYAN	4	15 or less	Gray	2	Shallow groove	PVC	Polyester Canvas	1.2	0.2	3.3	3.4	8	80	×	-10~70
LHBLGASN	(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
LHBLGAN	6	20 or less	Green	2	Deep groove	PVC	Polyester Canvas	1.2	0.2	5.3	4.2	8	80	×	-10~70
LHBLGTN	7	20 or less	Green	2	Rough top	PVC	Polyester Canvas	1.1	0.2	5.5	6.5	12	80	×	-10~70
LHBLYTN	8	20 or less	Gray	2	Rough top	PVC	Polyester Canvas	1.1	0.2	5.5	6.5	12	80	×	-10~70
LHBLGYN	9	30 or less	Green	2	Herringbone	Special Thermoplastic Elastomer	Polyester Canvas	2.0	0.2	3.4	3.0	8	50	×	-10~60
LHBLYFN	10	30 or less	Gray	2	Herringbone	Special Thermoplastic Blastomer	Polyester Canvas	2.0	0.2	3.4	3.0	8	75(50) *1	×	-10~60

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

For Belt Tolerance, see ► P.1352

Surface DAMANANA III AAD 

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

			ngth L (m)   Body Price / m   Belt Jointing Charge (Body Price +											
Part Numb	oer	Belt Length L (m)			Е		n							
	Belt	0.01m	1 2	3	4	(5)	6	78	9 10	1) (2)	Other than 1 and 2			
Туре	Width W (mm)	Increment	LHBLT LHBLTWH	LHBLWN	LHBLYAN	LHBLGASN	LHBLGAN	LHBLGTN LHBLYTN	LHBLGYN LHBLYFN	LHBLT LHBLTWH	Other than LHBLT and LHBLTWH			
	10													
	15	0.50~20.00												
	20 25													
	30	-												
	35	1												
	40	i												
	50													
	60													
	70 75	-												
	80	1												
	90	1												
	100	]												
	110													
	120 125													
LHBLT	130	1												
LIIDLI	140	1												
LHBLTWH	150													
LIIDLIIIII	160													
LHBLWN	170 180													
	190	-												
LHBLYAN	200	1												
	210	]												
LHBLGASN	220	]												
LUBLOAN	230 240													
LHBLGAN	250	0.80~20.00												
LHBLGTN	260	1												
LIBLUIN	270	i												
LHBLYTN	280	]												
LIIDLIIII	290													
LHBLGYN	300 310	-												
	320	1												
LHBLYFN	330	1												
	340	1												
	350													
	360 370													
	380	1												
	390	1												
	400	]												
	410	]												
	420	-												
	430 440	-												
	450	1												
	460	1						İ	İ					
	470													
	480													
	490 500	-												

Flat belts are weld-jointed before shipping.
 The connection areas may become slightly thicker: LHBLT, LHBLTWH by 0.5mm.



Туре	Incline Angle	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
LHBLT	15 or less	0	-	-	Δ	Δ	Δ	Δ	Δ	Δ	Δ
LHBLTWH	15 or less	0	-	-	Δ	Δ	Δ	Δ	Δ	Δ	Δ
LHBLWN	15 or less	0	-	0	-	-	-	-	-	-	0
LHBLYAN	15 or less	-	-	0	-		-	-	-	-	
LHBLGASN	15 or less	-	-	-	-	-	-	-	-	-	-
LHBLGAN	20 or less	-	-	0	-	-	-	-	-	-	
LHBLGTN	20 or less	-	-	-	-	-	-	-	-	-	-
LHBLYTN	20 or less	-	-	-	-	-	-	-	-	-	-
LHBLGYN	30 or less	-	-	-	-	-	-	-	-	-	-
LHBLYFN	30 or less	-	-	0	-	-	-	-	-	-	-

©: 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.



Туре	Color		Surface Shape	ШМа	terial	Friction C (Ref. Against I		Thickness	Unit Mass	Allowable Tension	Min. Pulley Dia.	Knife Edge	Continuous Use Temperature
		Count	Shape	Surface	Back	Front	Back		kg/m²	N/mm	Ømm	Luge	°C
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

Surface 

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

			ngth L (m) Body Price / m Belt Jointing Charge (Body Price + )											
Part Num	ber	Belt Length L (m)			Body Price / m			Belt Jointing Cha	rge (Body Price + )					
Туре	Belt Width W (mm)	0.01m Increment	GBLG	GBLW	GBLGSN	GBLGDN	GBLWN	GBLG GBLW	GBLGSN GBLGDN GBLWN					
	10													
	15 20	0.50~20.00												
	25							+						
	30	1												
	35													
	40 50	-						+						
	60	-												
	70													
	75													
	80 90	-						-						
	100	-						+						
	110													
	120													
	125 130	-						-						
	140	1												
	150	]												
	160													
	170 180	-						-						
GBLG	190	1												
	200	]												
GBLW	210 220													
GBLGSN	230	-												
	240	0.80~20.00												
GBLGDN	250	0.80~20.00												
GBLWN	260 270	-						-						
GDLWN	280	-												
	290	1												
	300													
	310 320	-						-						
	330	-												
	340	]												
	350	-												
	360 370	-												
	380													
	390													
	400 410	-												
	410	-												
	430	]												
	440													
	450 460	-												
	470	-												
	480													
	490	4												
	500													

That belts are weld-jointed before shipping.

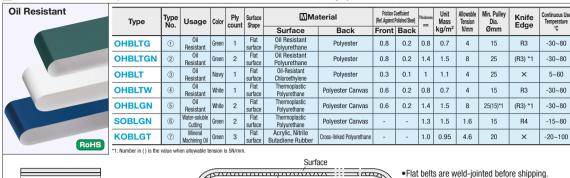
Туре	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water / Moisture Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to imprinting	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
GBLG	0	-	0	0	0	-	-	0	-	0
GBLW	0	0	0	0	0	-	-	0	-	0
GBLGSN	0	-	0	0	0	-	-	0	-	0
GBLGDN	0	-	0	0	0	-	-	0	-	0
GBLWN	0	0	0	0	0	-	-	0	-	0



②: Best suited, ○: Applicable, △: May be applicable, -: Not applicable

### Flat Belts - Oil Resistant

### **Features:** Effective with respect to the machine oil that does not include food oil or welding agents.



•I.D. will be the Belt Length.

<b>.</b>	Part Number   Belt Length L (m)   Body Price / m   Belt Jointing Charge (Body Price + )													
Part Num	her	Relt Length L (m)			Bo	dy Price	/ m				Relt Jointin	na Charae (	Rody Price	-1
raitivaiii	Belt		1	2	3	4	(5)	6	7	14	25	3	6	7
Туре	Width W (mm)	0.01m Increment	OHBLTG	OHBLTGN	OHBLT	OHBLTW	OHBLGN	SOBLGN		OHBLTG OHBLTW			SOBLGN	KOBLGT
	10													
	15	0.50~20.00												
	20													
	25 30	ļ												
	35	{								-				
	40	1												
	50	1												
	60	]												
	70													
	75 80													
	90	1												
	100	1												
	110	]												
	120													
	125 130	-												
	140	1												
	150	1												
OHBLTG	160	]												
OHBLIG	170 180	ļ												
OHBLTGN	190	1												
	200	1												
OHBLT	210	]												
OHBLTW	220 230													
OHBLIW	240	-												
OHBLGN	250	0.80~20.00												
OTIDEGIT	260	1												
SOBLGN	270													
	280 290													
KOBLGT	300	1												
	310	1												
	320	]												
	330													
	340 350													
	360	1												
	370	1												
	380	]												
	390 400													
	410	-												
	420	i												
	430	]												
	440													
	450 460													
	460	1												
	480	1												
	490	]												

\*©Flat belts are weld-jointed before shipping.

\*© The connection areas may become slightly thicker: OHBLT by 0.4mm.

\*© For Resistance of Belts Against Chemicals, 0il and Food, see ■ P.1353.

\*© Belt length for SOBLGN, KOBLGT is specified from 0.70 onwards.



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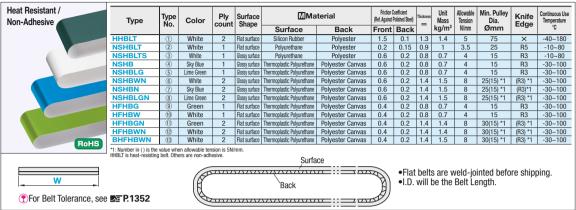
For Belt Tolerance, see ► P.1352

Туре	Usage	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
OHBLTG	Oil Resistant	0		0	-	-	-	-	-	-	0
OHBLTGN	Oil Resistant	0	-	0	-	-	-	-	-	-	0
OHBLT	Oil Resistant	-	-	0	Δ	Δ	Δ	Δ	Δ	Δ	0
OHBLTW	Oil Resistant	0	-	0	-	-	-	-	-	-	0
OHBLGN	Oil Resistant	0		0	-	-	-	-	-	-	0
SOBLGN	Water-soluble Cutting	0	-	-	Δ	-	0	0	-	0	0
KOBLGT	Mineral Machining Oil			-	Δ	-	Δ	-	-	-	0

©: 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.



											_				
Part Num	ber	Belt Length L (m)				Boo	y Price	/ m					Belt Jo	inting Charge (Boo	ly Price + )
	Belt		1	2	3	46	6	78	9 10	11 12	(13)	1	2	3, 4, 5, 9, 10	6, 7, 8, 11, 12, 13
Туре	Width W (mm)	0.01m Increment	HHBLT	NSHBLT	NSHBLTS	NSHB NSHBLG	NSHBWN	NSHBN NSHBLGN	HFHBG HFHBW	HFHBGN HFHBWN	BHFHBWN	HHBLT	NSHBLT	NSHBLTS, NSHB NSHBLG HFHBG, HFHBW	NSHBWN, NSHBN NSHBLGN, HFHBGN HFHBWN, BHFHBWN
	10		-									-			
	15 20	0.50~20.00	-									-			
	25		-									-			
	30	1	-									-			
	35	1	-									-			
	40		-									-			
	50 60	-											-		
	70	-													
	75	1													
	80	]													
	90	-													
	100 110	-											-		
HHBLT	120	1													
NSHBLT	125	1													
NOUDEL	130	]													
NSHBLTS	140	-													
	150 160	-													
NSHB	170	1										<del>                                     </del>			
	180	1													
NSHBLG	190														
NSHBWN	200 210	-													
NOTIDITI	220	-										-			
NSHBN	230	1													
	240	0.80~20.00													
NSHBLGN	250 260														
HFHBG	270	-													
HFHBG	280	1										<del>                                     </del>			
HFHBW	290	]													
	300														
HFHBGN	310 320	-													
	330	-										-			
HFHBWN	340	1													
BHFHBWN	350														
DI II II DWIN	360 370	-													
	380	1													
	390	1													
	400	]													
	410	-													
	420 430	-													
	440	1													
	450	1													
	460														
	470 480	-													
	490	1													
	500	1													

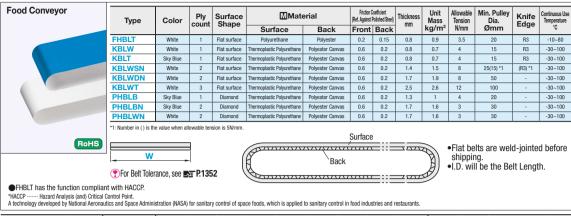
That belts are weld-jointed before shipping.
The connection areas may become slightly thicker: NSHBLI by 0.3mm.
The connection areas may become slightly thicker: HHBLI by 0.6mm.
Ordering
Part Number
Example
Type
Belt Width

HHBLT 350 - 4

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
HHBLT	0	-	-	Δ	0	Δ	Δ	Δ	-	Δ
NSHBLT	0	0	0	Δ	Δ	0	Δ	Δ	0	Δ
NSHBLTS	0	0	0	0	0	0	-	0	0	0
NSHB	0	0	0	0	0	0	-	0	0	0
NSHBLG		Ó	Ó	Ó	Ó	0	-	Ó	Ó	0
NSHBWN	0	0	0	0	0	0	-	0	0	0
NSHBN	0	0	0	0	0	0	-	0	0	0
NSHBLGN	0	0	0	0	0	0	-	0	0	0
HFHBG	0	-	0	0	0	-	-	0	0	0
HFHBW	0	-	0	0	0	-	-	0	0	0
HFHBGN	0	-	0	Ō	Ō	-	-	0	0	0
HFHBWN	0	-	0	0	0	-	-	0	0	0
BHFHBWN	0	-	Ó	0	0	-	-	0	0	0

## **Flat Belts: For Food Transfer**

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



Part Num	ber	Belt Length L (m)				Bo	dy Price	/ m				Belt Join	ting Char	ge (Body Price + )	
Туре	Belt Width W (mm)	0.01m Increment	FHBLT	KBLW	KBLT	KBLWSN	KBLWDN	KBLWT	PHBLB	PHBLBN	PHBLWN	FHBLT	KBLW KBLT PHBLB	KBLWSN, KBLWDN PHBLBN, PHBLWN	KBLWT
	10	]													
	15	0.50~20.00													
	20 25														
	30	-													
	35	1													
	40	1													
	50	]													
	60 70	-													
	75	-													
	80	1													
	90	1													
	100	]													
	110 120	-													
	125	-													
	130	1													
FHBLT	140	1													
	150	]													
KBLW	160	-													
	170 180	-													
KBLT	190	1													
	200	1													
KBLWSN	210	]													
KBLWDN	220 230														
KBLWDN	240	-													
KBLWT	250	0.80~20.00													
KDEWI	260	1													
PHBLB	270	]													
	280 290														
PHBLBN	300	-													
	310	1													
PHBLWN	320	1													
	330														
	340 350	-													
	360	-													
	370	1													
	380	1													
	390														
	400 410	-													
	410	+										-			
	430	1													
	440	1													
	450	-													
	460	-													
	470 480	-													
	490	1													
	500	1													

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

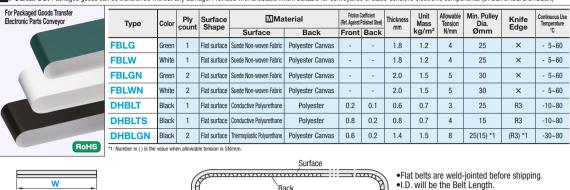


Туре	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water Resistance, Moist-Heat Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of shrinkage due to imprinting	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
FHBLT	0	0	0		Δ	Δ	Δ		Δ	Δ
KBLW	0	0	0	0	0	-	-	0	-	0
KBLT	0	0	0	0	0	-	-	0	-	0
KBLWSN	0	0	0	0	0	-	-	0	-	0
KBLWDN	0	0	0	0	0	-	-	0	-	0
KBLWT	0	0	0	0	0	-	-	0	-	
PHBLB	0	0	0	0	0	-	-	0	0	0
PHBLBN	0	0	0	0	0	-	-	0	0	0
PHBLWN	0	0	0	0	0	-	-	0	0	0

 $\bigcirc : \mathsf{Best} \ \mathsf{suited}, \ \bigcirc : \mathsf{Applicable}, \ \triangle : \mathsf{May} \ \mathsf{be} \ \mathsf{applicable}, \ - : \mathsf{Not} \ \mathsf{applicable}$ 

# 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)



(Barrayana)

D		In the Land of the Land								(D. 1. 5.		
Part Num		Belt Length L (m)		В	ody Price /	m		Belt .	Jointing Cha	rge (Body Pri	ce + )	
Туре	Belt Width W (mm)	0.01m Increment	FBLG FBLW	FBLGN FBLWN	DHBLT	DHBLTS	DHBLGN	FBLG FBLW	FBLGN FBLWN	DHBLT	DHBLTS	DHBLG
DHBLT	5	0.50~ 3.00	-	-		-	-	-	-		-	-
	10 15 20 25 30 35	0.50~20.00										
	40 50 60											
	70 75 80 90 100											
	110 120 125 130											
FBLG	140 150 160 170 180											
FBLW FBLGN	190 200 210 220											
FBLWN DHBLT	230 240 250	0.80~20.00										
DHBLGN	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.
 The connection areas may become slightly thicker: DHBLT by 0.3mm.
 Belt length for FBLG,FBLW,FBLGN,FBLWN is specified from 0.70 onwards

For Belt Tolerance, see ■ P.1352



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
FBLG	Δ	-	-	-	-	-	0	-	0	-
FBLW	Δ	-	-	-	-	-	0	-	0	-
FBLGN	Δ	-	-	-	-	-	0	-	0	-
FBLWN	Δ	-	-	-	-	-	0	-	0	-
DHBLT	0	-	-	Δ	Δ	Δ	Δ	Δ	Δ	Δ
DHBLTS	-	-	0	-	-	-	-	-	-	0
DHRIGN	-		0	_	-	_				0

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

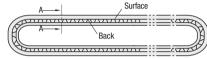
# Flat Belts - With Meandering Prevention Crosspiece General Use

### 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.



Crosspiece Shape	Pulley, Idler Relief Dimensions
7.8 R1	11.8
▼For Belt Tolerance	e, see <b>P.1352</b>





- •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 + ) Belt Width W 1)(2) (5) 9 10 123 4, 5, 6, 7, 8, 11 0.01m HBLTGSDSN, HBLBDSN Туре 10mm HBLWDST Incremen HRITWCDŚN HRTDSTN 50~90 **HBLTDSG HBLTDSW** HBLTDS 100~190 **HBLTGSDSN HBLBDSN** 0.50~20.00 **HBLYGDSN** 200~290 **HBLTGCDSI HBLWDST**

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



Part N	umber
Туре	Belt Width
	050

410~500

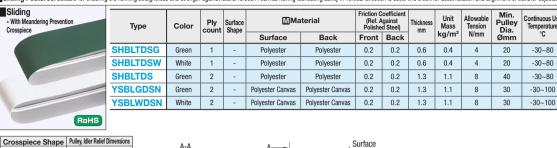
HBLTDS 350

Туре	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water / Moisture Resistance	Thermal Shrinkage Prevention	Surface Cleanability	Prevention of strinkage due to imprinting	Sodium Hypochlorite Resistant	Anti- stick	Oil Resistance
HBLTDSG	0	-	0	0	0	-	-	0	-	0
HBLTDSW	0	-	0	0	0	-	-	0	-	0
HBLTDS	0	-	0	0	0	-	-	0	-	0
HBLTGSDSN	0	-	0	0	0	-	-	0	-	0
HBLBDSN	0	0	0	0	0	-	-	0	-	0
HBLYGDSN	0	-	0	0	0	-	-	0	-	0
HBLTGCDSN	O*1	-	0	-	-	-	-	0	-	0
HBLTWCDSN	O*1	-	0	-	-	-	-	0	-	0
HBLGDST	○*1	-	-	-	-	-	-	0	-	0
HBLWDST	O*1	-	-	-	-	-	-	0	-	0
HBTDSTN	○*1	-	0	-	-	-	-	0	-	0
44. 0	ad for bone to									

- Belt Length L (m)

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

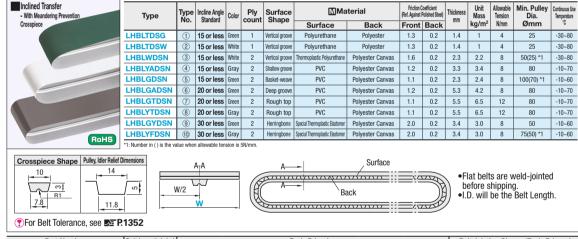
Isliding Features: Suitable for ensuring the running straightness and strength against lateral forces. A carvas having lubricating ability in vertical direction is used. It is a belt for accumulation and alignment of transfer objects.



AZAMANAMANAM WANG

	7.8	11.8		W	(B)			/	
	Pror Belt Tolerand	ce, see 💌 P.13	352						
- 1	Part Num	ber	Belt Length L (m)		Body P	rice / m		Belt Jointing Cha	rge (Body Price + )
	Туре	Belt Width W 10mm Increment	0.01m Increment	SHBLTDSG SHBLTDSW	SHBLTDS	YSBLGDSN	YSBLWDSN	SHBLTDSG SHBLTDSW SHBLTDS	YSBLGDSN YSBLWDSN
	SHBLTDSG	50~90							
	SHBLTDSW	100~190	l						
	SHBLTDS	200~290	0.50~20.00 (L≥Wx4)						
	VSBI CDSN		(== 30 X-1)						

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.



Part Nun	nber	Belt Length L (m)								Belt Jointing Charge (Body Price + )		
	Belt Width W		1)2	4	(5)	6	78	3,9,10	12	3~8		
Туре	0.01m Increment 10mm Increment	0.01m Increment	LHBLTDSG LHBLTDSW	LHBLYADSN	LHBLGDSN	LHBLGADSN	LHBLGTDSN LHBLYTDSN	LHBLWDSN LHBLGYDSN LHBLYFDSN	LHBLTDSG LHBLTDSW	LHBLWDSN, LHBLYADSN LHBLGDSN, LHBLGADSN LHBLGTDSN, LHBLYTDSN LHBLGYDSN, LHBLYFDSN		
LHBLTDSG LHBLTDSW	50~90											
LHBLWDSN LHBLYADSN	100~190	0.50~20.00 (L≥Wx4)										
LHBLGDSN LHBLGADSN	200~290											
LHBLGTDSN LHBLYTDSN	300~400	, =,										
LHBLGYDSN LHBLYFDSN	410~500	1										

Relts with meandering prevention crosspiece are knife-edged and hence cannot be used. Food hygienic Antibacterial and Property Prevention Water Resistance, Model Resistance, Preparation Preparation Antibacterial and Property Prevention Water Resistance, Preparation Preparation Water Resistance, Prepar

SHBLTDSG	O*1	-	0			0		-	-	0	0	0
SHBLTDSW	0	-	0			0		-	-		0	0
SHBLTDS	O*1	-	0			0		-	-	0	0	0
YSBLGDSN	O*1	-	-			-		-	-	0	-	0
YSBLWDSN	0	-	-			-		-	-	0	-	0
Туре	Standard Inclination	Food hygienic properties	Antibacterial and Antifungal Property	Fray Prevention	Water Res Moist-Heat F		Shrinkage inton	Surface Cleanability	Prevention of shrinkage due to imprinting	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistance
LHBLTDSG	15 or less	0	-	0	-		.	-	-	-	-	0
LHBLTDSW	15 or less	0	-	0	-			-	-	-	-	0
LHBLWDSN	15 or less	0	-	0	-		.	-	-	-	-	0
LHBLYADSN	15 or less	-	-	0	-		.	-	-	-	-	-
LHBLGDSN	15 or less	-	-	-	-			-	-	-	-	-
LHBLGADSN	20 or less	-	-	0	-		. [	-	-	-	-	-
LHBLGTDSN	20 or less		-	-	-		. [	-	-	-	-	-
LHBLYTDSN	20 or less		-	-	-			-	-	-	-	-
LHBLGYDSN	30 or less	-	-	-	-			-	-	-	-	-
LHBLYFDSN	30 or less	-	-	0	-			-	-	-	-	-

*1: Cannot be used for bare transfer of oil and fatty foods.
○ Rest suited ○ Annlicable △ May be annlicable → Not annlicable



Belt Length L (m)

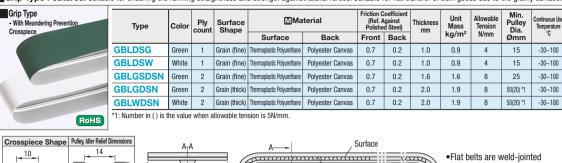
•Flat belts are weld-jointed before shipping.

•I.D. will be the Belt Length.

<sup>1:</sup> Cannot be used for bare transfer of oil and fatty foods

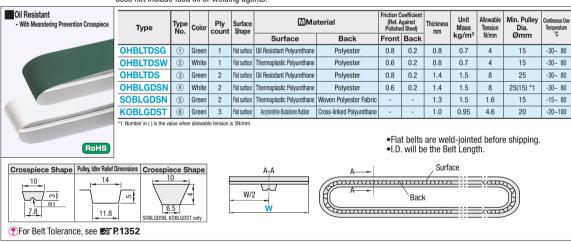
# Flat Belts - With Meandering Prevention Crosspiece Grip Type / Oil Resistant

### Grip Type Features: Suitable for ensuring the running straightness and strength against lateral forces. Suitable for flat transfer of bulk goods due to the grainy surface.



For Belt Tolera	nce, see 📭 P.	1352							
Part Num	ber	Belt Length L (m)			Body Price / m			Belt Jointing Char	ge (Body Price
Time	Belt Width W	0.01m Increment	GBLDSG	GBLDSW	GBLGSDSN	GBLGDSN	GBLWDSN	GBLDSG	GBLGSDSI GBLGDSN
Туре	10mm Increment	0.01111 Increment	GBLDSG	GBLDSW	GBEGSDSN	GBLGDSN	GBEWDSN	GBLDSW	GBLWDSN
GBLDSG	50~ 90								
GBLDSW	100~190								
GBLGSDSN	200~290	0.50~20.00							

Oil Resistant Features: Suitable for ensuring the running straightness and strength against lateral forces. Effective with respect to the machine oil that does not include food oil or welding agents.



Part Num	Part Number Belt Length L (m				Body Price / m						Belt Jointing Charge (Body Price + )				
	Belt Width W		1)	2	3	4	(5)	6	13	2	4	(5)	6		
Туре	10mm Increment	0.01m Increment	OHBLTDSG	OHBLTDSW	OHBLTDS	OHBLGDSN	SOBLGDSN	KOBLGDST	OHBLTDSG OHBLTDS	OHBLTDSW	OHBLGDSN	SOBLGDSN	KOBLGDST		
OHBLTDSG	50~ 90														
OHBLTDSW	100~190	]													
OHBLTDS OHBLGDSN	200~290	0.50~20.00 (L≥Wx4)													
SOBLGDSN	300~400	(== +7.44)													
KOBLGDST	410~500	1													

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

300~400

Туре	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
GBLDSG	0	-	0	0	0	-	-	0	-	0
GBLDSW	0	0	0	0	0	-	-	0	-	0
<b>GBLGSDSN</b>	0	-	0	0	0	-	-	0	-	0
GBLGDSN	0	-	0	0	0	-	-	0	-	0
GBLWDSN	0	0	0	0	0	-	-	0	-	0
Туре	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
Type OHBLTDSG	Food hygienic properties		Fray Prevention			Surface Cleanability			Anti-stick	Oil Resistance
	Food hygienic properties		.,			Surface Cleanability -	due to imprinting			
OHBLTDSG	properties	Antifungal Property  -	0	Moist-Heat Resistance	Prevention -	- Surface Clearability	due to imprinting	Resistant	-	0
OHBLTDSG OHBLTDSW	properties	Antifungal Property -	0	Moist-Heat Resistance	Prevention -	-	due to imprinting	Resistant	- 0	0
OHBLTDSG OHBLTDSW OHBLTDS	properties	Antifungal Property -	0 0	Moist-Heat Resistance	Prevertion -	- O	due to imprinting	Resistant -	- 0	0

W/2

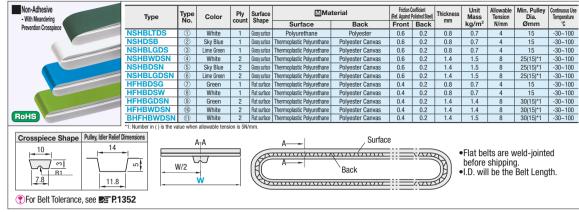


before shipping.

I.D. will be the Belt Length.

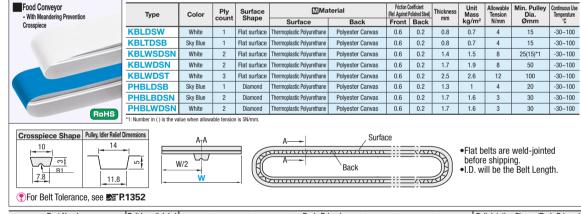
# Flat Belts - With Meandering Prevention Crosspiece Non-Adhesive / For Food Transfer





Part Num	ber	Belt Length L (m)		Body Price / m						Belt Jointing Charge (Body Price + )			
	Belt Width W		1	23	4	(5)	6	78	9 10	11)	1	78	Other than ①, ⑦ and ⑧
Туре	10mm Increment	0.01m Increment	NSHBLTDS	NSHDSB NSHBLGDS	NSHBWDSN	NSHBDSN	NSHBLGDSN	HFHBDSG HFHBDSW	HFHBGDSN HFHBWDSN	BHFHBWDSN	NSHBLTDS	HFHBDSG HFHBDSW	NSHDSB, NSHBLGDS, NSHBWDSN NSHBDSN, NSHBLGDSN, HFHBGDSN HFHBWDSN, BHFHBWDSN
NSHBLTDS NSHDSB	50~90												
NSHBLGDS NSHBWDSN	100~190												
NSHBDSN NSHBLGDSN HFHBDSG	200~290	0.50~20.00 (L≥W×4)											
HFHBDSW HFHBGDSN	300~400	(LEVVA)											
HFHBWDSN BHFHBWDSN	410~500	1											

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



Part Nun	nber	Belt Length L (m)				Body P	rice / m				Belt Jointin	g Charge (Bo	odv Price + )
	Belt Width W	,									KBLDSW	KBLWSDSN	· ·
Туре	10mm Increment	0.01m Increment	KBLDSW	KBLTDSB	KBLWSDSN	KBLWDSN	KBLWDST	PHBLBDSN	PHBLDSB	PHBLWDSN	KBLTDSB PHBLDSB	KBLWDSN PHBLBDSN PHBLWDSN	KBLWDST
KBLDSW KBLTDSB	50~ 90	1											
KBLWSDSN	100~190	1											
KBLWDSN KBLWDST	200~290	0.50~20.00 (L≥Wx4)											
PHBLDSB PHBLBDSN	300~400	(L247A4)											
PHBLWDSN	410~500												

NSHBUSN		Sodium Hypochlorite Resistant	Anti-stick	Oil Resistanc
NSHBLGDS  NSHBUSN  NS	-	0	0	0
NSHBUSN	-	0	0	0
NSHBDSN	-	0	0	0
NSHBLGDSN	-	0	0	0
HFHBDSG	-	0	0	0
HFHBDSW	-	0	0	0
HFHBGDSN	-	0	0	0
HFHBWDSN	-	0	0	0
Type Food hygienic Antibactrial and property Settling Reports Authorities and Presention Real Residence Prevention Real Residence Reside	-	0	0	0
Type Food hygienic Antibactivial and properties Antibactivial and properti	-	0	0	0
Vipe	-	0	0	0
KBLTDSB	Prevention of shrinkage due to imprinting	Sodium Hypochlorite Resistant	Anti-stick	Oil Resistar
KBLWSDSN         O         O         O         -           KBLWDSN         O         O         O         -	-	0	-	
KBLWDSN O O O -	-	0	-	0
RELITEDIT O O O	-	0	-	0
KRIMBOT O O O O		0	-	0
KBLWDST   0   0   0   0   -	-			
PHBLDSB O O O O -	-		-	

3	Ordering	Part N	umber	-	Belt Length L (m)
	Example	Туре	Belt Width		
		NSHBLTDS	350	-	4.23
		KBLDSW	350	-	4.23

### 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)

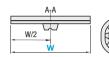


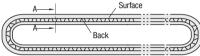
Туре	Color	Ply	Surface Shape	MМа	Material		Friction Coefficient (Ref. Against Polished Steel)		Unit Mass		Pulley Dia.	Continuous Use Temperature
		004	Giiapo	Surface	Back	Front	Back	mm	kg/m²	N/mm	Ømm	°C
FBLGDS	Green	1	Flat surface	Suede Non-woven Fabric	Polyester Canvas	-	-	1.8	1.2	4	25	-5~60
FBLWDS	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

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

•Flat belts are weld-jointed before shipping.

Crosspiece Shape	Pulley, Idler Relief Dimensions	Crosspiece Shape							
7.8 R1	11.8	10							
DHBLTDS, DHBLGDSN only		Other than DHBLTDS and DHBLGDSN							
For Belt Tolerance, see ► P.1352									





Part Nun	nber	Belt Length L (m)		Body P	rice / m		Belt Jointing Charge (Body Price + )				
	Belt Width W	0.01m	FBLGDS	FBLGDSN			FBLGDS	FBLGDSN			
Туре	10mm Increment	Increment	FBLWDS	FBLWDSN	DHBLTDS	DHBLGDSN	FBLWDS	FBLWDSN	DHBLTDS	DHBLGDSN	
FBLGDS	50~90										
FBLWDS	100~190										
FBLGDSN	200~290	0.50~20.00									
<b>FBLWDSN</b>		(L≥Wx4)									
DHBLTDS	300~400										
DHBI GDGN	410~500										

<sup>•</sup> Belts with meandering prevention crosspiece are knife-edged and hence cannot be used.
• Circumference Lengths of FBLGDS, FBLWDS, FBLGDSN, FBWDSN are 0.70~

Туре	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		-	-	-	-	-	0	-	0	-
FBLWDS	$\triangle$	-	-	-	-	-	0	-	0	-
FBLGDSN	Δ	-	-	-	-	-	0	-	0	-
FBLWDSN	$\triangle$	-	-	-	-	-	0	-	0	-
DHBLTDS	-	-	0	-	-	-	-	-	-	0
DHBLGDSN	-	-	0	-	-	-	-	-	-	0

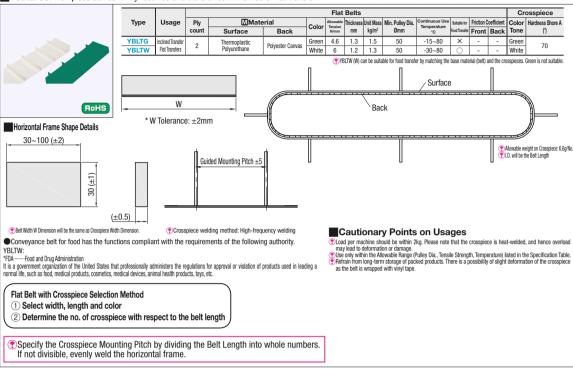
○: Best suited, ○: Applicable, △: May be applicable, -: Not applicable



Par	t Number	-	Belt Length L (m)
Туре	Belt Width (mm)		
<b>FBLGDS</b>	350	-	4.23
DHBLTDS	350	-	4.23

# **Flat Belts with Crosspieces**

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



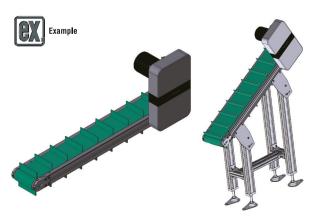
Part	Number	Crosspiece		Belt Length Body (Body Price +) Part Number		Number	Crosspiece	Crosspieces	Belt Length L	E			
Туре	Belt Width W (mm)	Height (mm)	No. of Crosspieces	L (m) 0.01m Increment	Price Unit Price / m	Crosspiece Weld-on Charge / Pc.	Belt Jointing Charge	Туре	Belt Width W(mm)	Hoight	No. of Crosspieces	(m) 0.01m Increment	Un
	30					1			30				Г
	50		1					50					
	100	1	i i	1					100	]			
YBLTG	150	30	5~240	1.00~7.00				YBLTW	150	30	5~240	1.00~7.00	
	200	1							200				
İ	250	1							250				
	300								300				Г

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

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

Belt Price Calculation Method

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



Belt Jointing Charge

Flat belts are weld-jointed before shipping.
For a conveyer example with this belt, see P.1251, 1252

## **Stainless Steel Belt**

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



Туре	Material	Thickness mm	Specific Gravity	Allowable Tension kg/cm	Min. Pulley Dia. Ømm	Continuous Use Temperature °C	Electrical Resistance of Surface Ω	Friction Coefficient (Ref. Against Polished Steel)		Young's Modulus kgf/mm <sup>2</sup>	Heat Expansion Coefficient x104°C	
	EN 1.4301	0.1	0.8	4	50	-80~110	0.2			19700	17.3	
STHBLT		0.15	1.2	6	75	-80~120	0.3	0.2	370 or over			
	Equiv.	0.2	1.6	8	100	-80~130	0.5					

 $\bigcirc$  Belt thickness tolerance is  $\pm 10\%$  of the thickness.

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

● For belt selections, see 
P.2252 Technical Data.

For a conveyer example with this belt, see F.1263



Part N	umber	-	Belt Width (mm)	-	Belt Length L (		
Туре	Belt Thickness						
STHBLT	0.15	_	25	_	2.24		

### **■**Cautionary Points on Usages

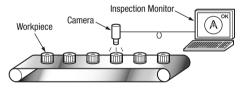
- Pelts with 0.1 and 0.15 thickness are not suitable for accumulating transfer applications.
- Avoid causing impacts in through-thickness direction as it is very thin.

  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

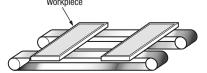


#### Accumulation Transfer



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

### ■Transfer of LED and Solar panels



### Chemical Resistance

	Stainless Steel Belt
Chemical Name	STHBLT
Isopropyl Alcohol	0
Ethanol	0
Potassium Chloride	0
Calcium Chloride	0
Hydrochloric Acid (Gas)	×
Hydrochloric Acid (5% or less)	×
Hydrochloric Acid (5 ~ 36%)	×
Caustic Soda	0
Caustic Soda Solution (50%)	0
Volatile Oil	0
Strong Alkali	0
Strong Acid	×
Light Oil	0
Ethyl Acetate	$\triangle$
Sodium Hypochlorite (Undiluted Solution)	×
Sodium Hypochlorite (600ppm)	×
Weak Alkali	0
Weak Acid	0
Soap	0
Machining Oil	0
Diesel Oil	0
Toluene	0
Naphthalene	0
Paraffin Oil	0
Phenol	0
Antirust Oil	0
Machine Oil	0
Methanol	0
Sulfuric Acid (10%)	×
Sulfuric Acid (50%)	×
Sulfuric Acid (70%)	×
Sulfuric Acid (98%)	×

### ■ Resistance Against Foods

	Stainless Steel Belt
Food	STHBLT
Yeast	0
Tea Leaf	0
Olive Oil	0
Fruit	0
Cashew Nuts	0
Cream	0
Spice	0
Grain	0
Coffee Beans	0
Flour	0
Rice Grain	0
Fish	0
Sugar	0
Salt	0
Salt Water	0
Fat	0
Cooking Oil	0
Syrup	0
Soy Sauce	0
Vinegar	0
Sauce	0
Molasses	0
Meat	0
Butter	0
Bread	0
Peanut Oil	0
Beer	0
Margarine	0
Mayonnaise	0
Water	Ö
Lard	

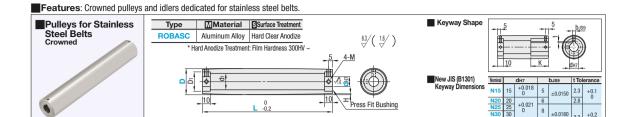
Not affected at all △: Slightly affected ×: Severely affected

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. Occare must be taken for rusts resulting by chlorindes and acidis.

# **Pulleys and Idlers for Stainless Steel Belts**

The crown height (H dim) for meandering suppression is adjusted based on D dims, and L dims.

### Crowned

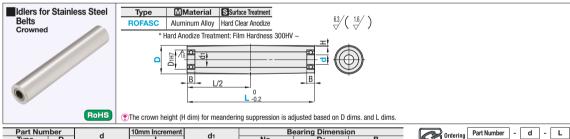


Part Num	ber	d	H7	10mm Increment	K	al.	ъ.		VI .
Type	D	Round Hole + Tap	Keyway + Tap	L	Keyway Length	d1	D <sub>1</sub>	Round Hole + Tap	Keyway + Tap
		15	N15						M4
	50	20	N20	J		27	40	M5	M5
		25	N25	40~160	30*				M6
		20	N20				45		M5
	60	25	N25			32		M6	M6
		30	N30						· ·
		20	N20						M5
	70	25	N25			35	50	M6	M6
ROBASC		30	N30						
11001100		25	N25			40	55	M8	M6
	75	30	N30						-
		35	N35						M8
		25	N25						M6
	80	30	N30			41	55	M8	
		35	N35						M8
		30	N30						M6
	100	35	N35			45	60	M8	M8
		40	N40						_

Twhen Keyway machining is specified as L<50, K will be K=20.

rdering Part Number

							Body Price							Kouway Machining Charge
D							ROBASC							Keyway Machining Charge (Body Price + )
	L40	L50	L60	L70	L80	L90	L100	L110	L120	L130	L140	L150	L160	(Body Frice + )
50														
60														
70														
75														
80														
100														
Idlers	for Stainl	ess Steel	Тур	е	Material Material	S Surface Tre	eatment							
Belts			BOEA		Juminum Allov				6.3/( 1.6)	/ <b>)</b>				



Part Number			10mm Increment	al.	Bearing Dimension				
Type	D	d	L	d1	No.	D1	В		
		10	40~160	22	B6200ZZ	30	9		
	50	12			B6001ZZ	28	8		
		15			B6902ZZ	28	7		
		20			B6804ZZ	32	7		
		25		27	B6905ZZ	42	9		
	60	12		22	B6201ZZ	32	10		
		15			B6002ZZ	32	9		
		20			B6904ZZ	37	9		
		25		32	B6905ZZ	42	9		
		30			B6906ZZ	47	9		
ROFASC	70	15		22	B6002ZZ	32	9		
		20			B6904ZZ	37	9		
		25		32	B6905ZZ	42	9		
		30			B6906ZZ	47	9		
	75	20		32	B6904ZZ	37	9		
		25			B6905ZZ	42	9		
		30			B6906ZZ	47	9		
		35			B6907ZZ	55	10		
	80	25		41	B6205ZZ	52	15		
		30			B6006ZZ	55	13		
		35			B6907ZZ	55	10		
	100	30		48	B6006ZZ	55	13		
		35			B6907ZZ	55	10		
		40			B6008ZZ	68	15		

	Body Price												
D		ROFASC											
	L40	L50	L60	L70	L80	L90	L100	L110	L120	L130	L140	L150	L160
50													
60													
70													
75													
80													
100													