

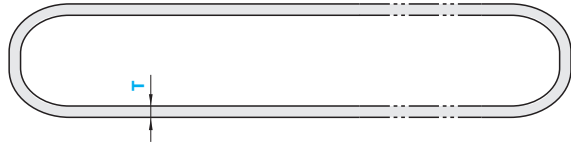
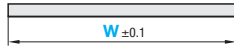
Stainless Steel Belt

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

Stainless Steel Belt



Type	Material	Thickness mm	Specific Gravity	Allowable Tension kg/tm	Min. Pulley Dia. Ømm	Continuous Use Temperature °C	Electrical Resistance of Surface Ω	Friction Coefficient (Ref. Against Polished Steel)	Surface Hardness HV	Young's Modulus kgf/mm ²	Heat Expansion Coefficient x10 ⁻⁶ /°C
STHBLT	SUS304H	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				



⊕ Belt thickness tolerance is ±10% of the thickness.

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			
		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

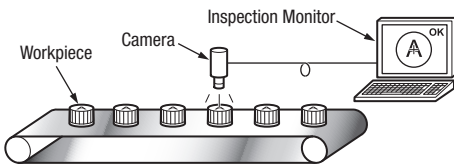
Cautionary Points on Usages

- ⊕ 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.

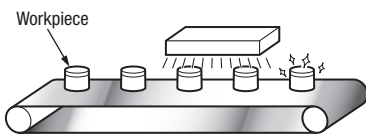


Example

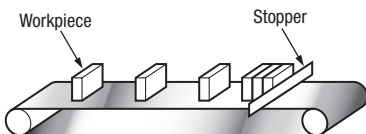
Image Inspection



Sterilization by UV and Alcohol

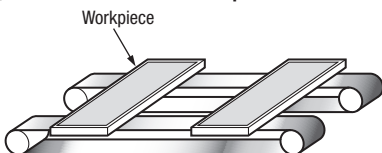


Accumulation Transfer



⊕ 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	○	