

PolyBelt™

Product Usage Safety Guidelines

※Before use, carefully read and follow the safety precautions below.

For safe use, this documentation and Nitta's products utilize various symbols and signal words. After reviewing the "Severity of Risk" section below to understand the meanings of those symbols and signal words, read the safety precautions and follow the instructions listed.

■Improper use (ignoring the symbols and signal words) may result in the following risks:

Symbol and Signal Word	Severity of Risk
 DANGER	Indicates situation that may result in imminent risk of death or serious injury if ignored or incorrectly handled.
 WARNING	Indicates situation that may lead to high risk of death or serious injury if ignored or incorrectly handled.
 CAUTION	Indicates situation that may lead to injury and physical damage if ignored or incorrectly handled.
Signs	Meaning of Signs
 Prohibited Action	Indicates actions that must never be taken under any circumstances when handling products.
 Mandatory Action	Indicates actions that must always be taken when handling products, without exception.

1. Function and Performance

 **DANGER**

 Prohibited Action

- Do not use belts as hoisting or towing equipment.

 **WARNING**

- Do not use belts beyond the acceptable ranges specified in this catalogue.
- In situations where static electricity generating in the transmission or conveying device could risk causing a fire or causing the control device to malfunction, use an antistatic belt. Install a neutralization apparatus in the device.
- If belt encounters friction against frame or table, temperature range may be exceeded due to frictional heat, potentially causing premature belt wear.
- If water, oil, chemicals, dust, etc. adhere to belts or pulley, it may decrease transmission efficiency or cause premature belt wear.
- Do not use belts for conveying unpackaged food.

2. Storage and Shipping

 **WARNING**

- Keep belts away from fire.
- Belts are combustible; do not store or use them near fire or a high-temperature heat source.
- When storing heavy belts, fix them in place using appropriate jigs or stoppers to prevent falling or rolling.

 **CAUTION**

- When storing and shipping belts, do not distort them excessively. Bending deformation may occur, potentially causing belts to become damaged or break prematurely.
- When storing belts, keep them under a textile covering such as a sheet and put them in a well-ventilated, low-humidity place free from direct sunlight.
- Store belts in their original packaging until needed.

3. Installation and Daily Use

 **DANGER**

 Mandatory Action

- Be sure to put a safety cover over the rotating part of the machine including the belt; hair, gloves or clothes may get caught in the belt pulley.
- Before maintenance, inspection or replacement, be sure to turn off the switch and confirm that the machine has stopped.

 **WARNING**

- When cleaning belts, do not use chemicals harmful to humans.

 **CAUTION**

- After replacing a belt with a new one, perform a test operation to adjust tension, elongation rate and operation.
- Do not attach belts forcibly; use a motor slide, a tension pulley or a special pulling device.
- If abnormal noise, snaking, deviation, slipping, etc. occur, stop the belt immediately for inspection.

4. Installation, Endless Processing, etc.

 **WARNING**

- When using solvent or adhesive, fully ventilate the workspace and keep away from fire.
- Do not leave solvent or adhesive on site. Return them to storage immediately after finishing use.

 **CAUTION**

- Perform endless joining of belts by using the materials, methods and procedures specified by Nitta.

5. Handling Used Belts

 **WARNING**

- Do not leave belts near fire.

 **CAUTION**

- Do not burn used belts; harmful gases may be generated.
- Lawfully dispose of used belts as industrial waste.

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NITTA BRASIL

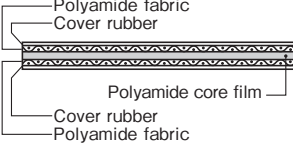
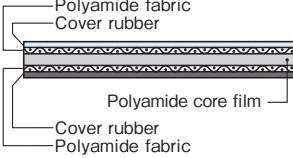
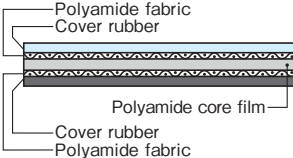
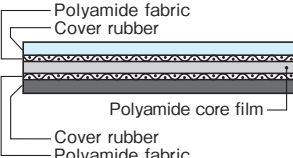
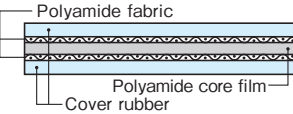
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Type	Total Thickness (mm)	Polyamide Core Film Thickness (mm)	Weight (kg/m ²)	Shaft Load at 1% Elongation (N/mm)	Shaft Load at 2% Elongation (N/mm)	Coefficient of friction	Min.Pulley Dia.mm		CROSS SECTION	Applications/Properties	Samples
							For transmission	For conveying			
SG-250	0.8	0.2	0.8	3.0	6.0	0.3~0.4	25	20	 SG:Slight green cover rubber	● Printing machines (feeding parts) ● Book making machines ● Paper box punching machines ● Packaging machines ● PCB transportation and light loading conveyors (plate supporting)	SG-250 SG-500 SG-1000
SG-350	0.95	0.35	0.9	5.2	10.5		35	30			
SG-500	1.1	0.5	1.1	7.5	15.0		50	40			
SG-750	1.35	0.75	1.4	11.2	22.5		75	50			
SG-1000	1.6	1.0	1.7	15.0	30.0		100	60			
L-250	1.25	0.2	1.4	3.0	6.0	0.5~0.6	25	20	 L:Light thick cover rubber	● Spinning machines ● Pumps and circulators ● Cable making machines ● High speed conveyors (sanitary) ● Automatic light loading conveyors ● Paper box making machines ● Book making machines	L-250 L-500 L-750 L-1000
L-350	1.4	0.35	1.6	5.2	10.5		35	30			
L-500	1.55	0.5	1.8	7.5	15.0		50	40			
L-750	2.2	0.75	2.5	11.2	22.5		75	50			
L-1000	2.45	1.0	2.8	15.0	30.0		100	60			
L-1500	2.95	1.5	3.4	22.5	45.0		150	90			
L-2000	3.45	2.0	4.0	30.0	60.0		200	120			
M-250	2.2	0.2	2.4	3.0	6.0	0.5~0.6	25	25	 M:Middle thick cover rubber	● Transmission for fans, pumps and industrial machines ● Carton box conveyors ● Paper core tubing machines ● Choppers and wood working machines ● Can making machines ● Paper machines ● Conveyors for wooden products ● Medium heavy loading conveyors	M-500 M-750 M-1000 M-1500
M-350	2.35	0.35	2.6	5.2	10.5		35	35			
M-500	2.5	0.5	2.7	7.5	15.0		50	40			
M-750	2.75	0.75	3.0	11.2	22.5		75	50			
M-1000	3.0	1.0	3.3	15.0	30.0		100	60			
M-1500	3.5	1.5	4.0	22.5	45.0		150	90			
M-2000	4.0	2.0	4.6	30.0	60.0		200	120			
H-500	3.5	0.5	3.8	7.5	15.0	0.5~0.6	50	50	 H:Heavy thick cover rubber	● Transmission for generators, circulators, compressor and industrial machines ● Cone pulley drives ● Paper core tubing machines ● Carton box making machines ● Cable making machines ● Rolling mills, durable conveyors for construction materials	H-500 H-1000
H-750	3.75	0.75	4.1	11.2	22.5		75	60			
H-1000	4.0	1.0	4.4	15.0	30.0		100	75			
H-1500	4.5	1.5	5.0	22.5	45.0		150	120			
XH-500-4	4.0	0.5	4.3	7.5	15.0	0.7~0.8	—	60	 XH:Extra-heavy thick cover rubber	● Folder gluers ● Paper core making machines	XH-500-4