






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.
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** 

● 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** 

- 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.

NITTA CORPORATION

4-4-26 Sakuragawa Naniwa-ku, Osaka 556-0022 Japan
Phone:+81-6-6563-1225 Fax:+81-6-6563-1242
<https://www.nitta.co.jp/en>



NITTA CORPORATION OF AMERICA

7605 Nitta Drive, Suwanee, GA 30024, U.S.A.
Phone:+1-770-497-0212 Fax:+1-770-623-1398
<http://www.nitta.com>

NITTA CORPORATION OF HOLLAND B.V.

Berenkoog 25, 1822 B.H. Alkmaar, The Netherlands
Phone:+31-72-5622234 Fax:+31-72-5613238
<http://www.nitta.nl>

NITTA (SHANGHAI) MANAGEMENT CO., LTD

Room2705, Shenggao International Building, No.137 Xianxia Road, Shanghai 200051 CHINA
Phone:+86-21-6229-6000 Fax:+86-21-6229-9606
<http://www.nitta-cn.com>

NITTA CORPORATION INDIA PVT. LTD.

Gat No 191, 192, and 193, Plot No B, Village Vadhu Khurd, Taluka Haveli Dist Pune-412216, INDIA
Phone:+91-20-6731-3400 Fax:+91-20-6731-3401
<http://www.nitta.co.in>

KOREA NITTA MOORE CORP.

53, Suchul-daero 5-gil, Gumi-si, Gyeongsangbuk-do, 39266, KOREA
Phone:+82-54-461-5575 Fax:+82-54-461-5350
<http://www.nitta.co.kr/>

TAIWAN NITTA FILTER CO.LTD.

Headquarters: Chia Hsin Building 10FL Room No. 1005, 96 Chung Shan North Road Section 2, Taipei, Taiwan
Phone:+886-2-2581-6296 Fax:+886-3-469-0260
<http://www.nitta.com.tw>

NITTA INDUSTRIES EUROPE GmbH

Heerdter Lohweg 35, 40549 Dusseldorf, Germany
Phone:+49-211-537535-0 Fax:+49-211-537535-35
<http://www.nitta.de>

NITTA CORPORATION OF SINGAPORE PTE LTD.

120 Lower Delta Road, #05-07/08
Cendex Centre, Singapore 169208
Phone:+65-6438-8738 Fax:+65-6438-8793
<http://www.nitta.com.sg>
<Liaison Office> Indonesia, Vietnam

NITTA CORPORATION (THAILAND) LIMITED

7/472 Moo 6, Tambol Mabyangporm, Amphur Pluakdaeng, Rayong Province 21140, THAILAND
Phone:+66-38-018-301 Fax:+66-38-018-304
<http://www.nittathai.com>

NITTA BRASIL

Rua Francisco Mommenshon, 50B, Galpão 02 Laranjeiras, Caieiras, São Paulo, Brazil
Phone/Fax:+55-11-4441-2922
<http://www.nitta.com.br>

CONNECT CONVEYOR BELTING INC.

405 Industrial Drive Unit 3-8, Milton, Ontario Canada L9T 5B1
Phone:+1-905-878-5552 FAX:+1-905-878-0344
<https://www.connectbelting.com>

Corrugated Cardboard and Paperboard Conveyance

Paper Manufacturing Belt



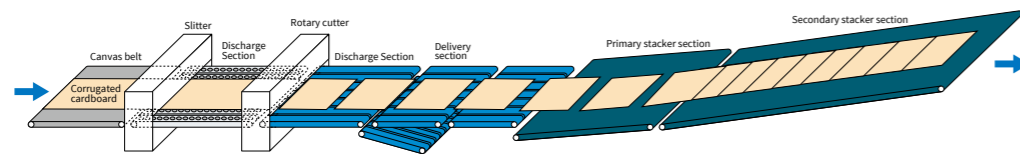
NITTA CORPORATION

NITTA Belts are perfect for conveying corrugated cardboard and paperboards

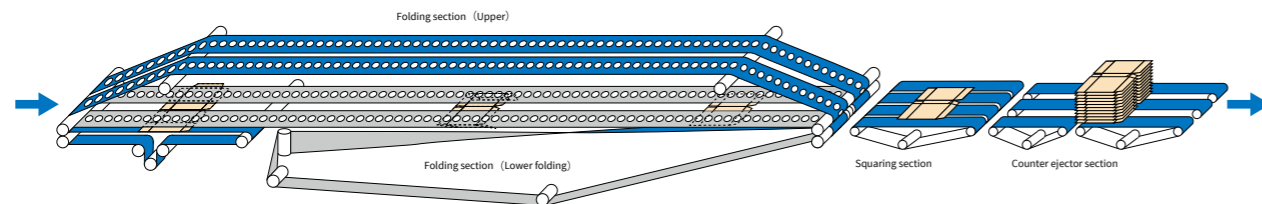
Since our establishment in 1885, we have met the expectations of our customer using advanced technology and reliable quality, centering on our power transmission belts over the past 130 years.

And in the field of corrugated cardboard and paperboard conveyance, we provide durable sophisticated belts with high performance and high-speed conveyance capability, which connect to greater processing accuracy for corrugated cardboard and paperboard through faster transmission power and more reliable transference.

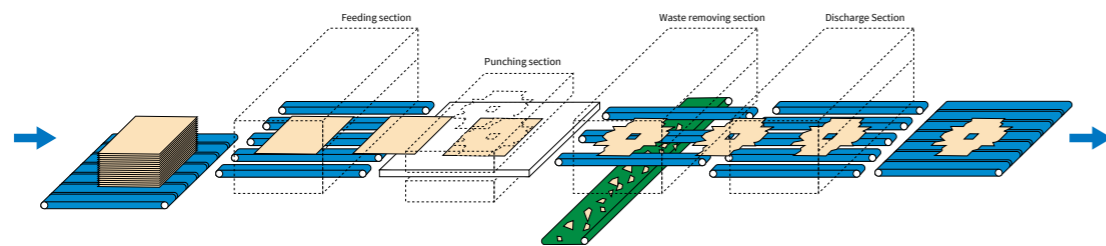
Corrugator line



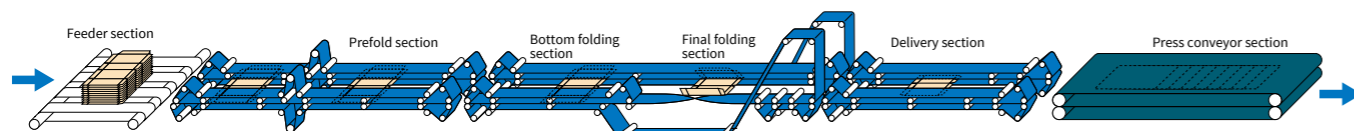
Flexo folder gluer line



Die cutter



Folder gluer



Related pages	P3、4	P5、6	P9	P7、8	P7、8
Location using the belt	RT series	XH series	Feeder belt	NLG	other

Corrugator line (corrugated cardboard lamination process)	Slitter Discharge Section	<input type="checkbox"/>				
	Cutter (cutoff) Discharge section	<input type="checkbox"/>				
	Delivery section	<input type="checkbox"/>				
	Defect removal conveyor section	<input type="checkbox"/>				
	Stacker section	<input type="checkbox"/>			<input type="checkbox"/>	
	Material handling section				<input type="checkbox"/>	

Flexo folder gluer line (corrugated carton manufacturing process)	Sheet feeder (auto sheet feeder) section	<input type="checkbox"/>					
	Paper feed (feeder section)	<input type="checkbox"/>					
	Folding section	Upper	<input type="checkbox"/>				
		Lower feeding	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
		Lower folding	<input type="checkbox"/>				
	Squaring section	<input type="checkbox"/>					
	Counter ejector section	<input type="checkbox"/>					
Strapping section	<input type="checkbox"/>						
Materials handling section				<input type="checkbox"/>			

Automatic platen cutting and creasing machine, hot foil stamping machine	Sheet feeder (auto sheet feeder) section	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
	Feeding section (feed table)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Punching section	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
	Waste removing section	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
	Paper ejection section	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>

Folder gluer (corrugated cardboard and paperboard carton manufacturing process)	Paper feed (feeder section)			<input type="checkbox"/>		
	Prefold section		<input type="checkbox"/>			
Automatic carton manufacturing machine (one-touch gluer)	Bottom folding section		<input type="checkbox"/>			
	Final folding section		<input type="checkbox"/>			
	Delivery section		<input type="checkbox"/>			
Press conveyor section				<input type="checkbox"/>		

Printer slotter, laminating machine, laminator, window patching machine	Paper feed (feeder section)	<input type="checkbox"/>		<input type="checkbox"/>		
	Main unit section	<input type="checkbox"/>				
	Paper ejection section	<input type="checkbox"/>			<input type="checkbox"/>	

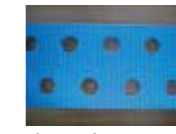
Others	Offset printer					<input type="checkbox"/>
	Paper sheeter					<input type="checkbox"/>

For general paper manufacturing machinery Rough Top Belt RT series

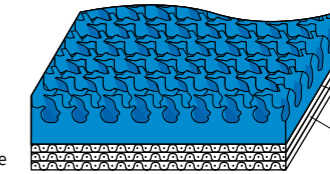
Long-life synthetic rubber Rough Top with a stable friction coefficient and high abrasion resistance.
Various kinds of products are available depending on the purpose, such as cost-effective Rough Top made with rubber and PVC.

Nitta PolyBelt™ RT-300

- Surface form with a high friction coefficient.
- Excellent cushioning property and abrasion resistance.
- Equipped with high anti-tear strength even after punching holes.



Hole punching example



NBR(Rough Top, blue)

Polyester fabric

Belt Type	Products	Thickness (mm)	Cover material							Tension member	Minimum pulley diameter (mm)	Splice type	Standard elongation (%)	Tension standard elongation (N/mm) ※3	Temperature range (°C)	Maximum roll width (mm)	Maximum endless width (mm)	Features	
			Top surface				Bottom surface												
			Material	μ※1	Shape	Color	μ※2	Shape	Color										
RT-22E70-2	PolySprint	abt.7.0	NBR	abt.1.0	Rough top	Blue	0.2 ~ 0.3	Fabric	White	PE	100	100	S/F/L	0.5	10	-20 ~ +80	480	480	An all-around belt which can speed up the manufacturing process for corrugated cardboard, demonstrating high flexibility and bendability with a stable friction coefficient. Suitable for sections of machinery, from corrugator to carton manufacturing machines.
RT-300	PolyBelt	abt.7.0	NBR	abt.1.0	Rough top	Blue	0.2 ~ 0.3	Fabric	White	PE	100	100	S/L	0.5	3	-20 ~ +80	500	300	An all-around belt with a stable friction coefficient and high abrasion resistance, suitable for sections of machinery from corrugator to carton manufacturing machines.
NRT-300	PolyBelt	abt.6.5	NBR	abt.1.0	Rough top	Blue	0.2 ~ 0.3	Fabric	White	PE	100	100	S/L	0.5	3	-20 ~ +80	480	300	Perfect for conveyors of squaring sections and paper carton making machinery with a stable friction coefficient and abrasion resistance.
NRT-0	PolyBelt	abt.5.5	NBR	abt.1.0	Rough top	Blue	0.2 ~ 0.3	Fabric	White	PE	100	100	L/S	0.5	1.5	-20 ~ +80	480	300	Perfect for low-speed multi-row conveyors of squaring sections and paper carton making machinery with high abrasion resistance.
NRT-100	PolyBelt	abt.4.5	NBR	abt.1.0	Rough top	Blue	0.2 ~ 0.3	Fabric	White	PE	50	50	S/L	0.5	3	-20 ~ +80	480	300	
NRT-500	PolyBelt	abt.6.0	NBR	abt.1.0	Rough top	Blue	0.5 ~ 0.6	Rough pattern	Black	PA	90	90	S	1	3.8	-20 ~ +80	480	300	A dedicated belt for folding (lower folding) with high abrasion resistance.
CBE-20	PolyBelt	abt.7.0	NBR	abt.1.0	Rough top	Blue	0.2 ~ 0.3	Fabric	Black	PE	100	100	L	0.5	3	-20 ~ +80	460	460	A dedicated belt for counter ejector sections effective in preventing scratches and color transfer after printing.
GRT-24AK	NLG	7.7	NR	abt.1.0	Rough top	Brown	0.2 ~ 0.3	Fabric	Brown	PA fabric	80	80	S/L	0.5	1.5	-20 ~ +80	1800	1800	Equipped with natural rubber Rough Top suitable for grip-emphasized sections.
VRT-20A	NLG	6	PVC	abt.1.0	Rough top	Green	0.2 ~ 0.3	Fabric	White	PE	50/100	60/100	F/ST	0.5	3	-5 ~ +70	2000	2000	Cost-effective PVC Rough Top.

For paper manufacturing machinery for specific use

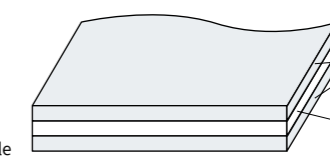
We provide our belts such as PolyBelt, PolySprint, NLG and SEB for use in general industrial machinery in printing, textile, paper, plywood, steel and distribution industries. Choose the optimum belts for your specific application from among our various products with various combinations of belt surface materials and core materials.

Nitta PolyBelt™ CBX-7S

- Prevents scratches to the conveying objects.
- Exhibits high abrasion resistance, heat resistance and planarity.
- Maintains a stable friction coefficient from initial installation until replacement.



Perforated belt example



Synthetic leather (smooth, white)

Polyamide film

Major applications	Belt Type	Products	Thickness (mm)	Cover material							Tension member	Minimum pulley diameter (mm)	Splice type	Standard elongation (%)	Tension standard elongation (N/mm) ※3	Temperature range (°C)	Maximum roll width (mm)	Maximum endless width (mm)	Features	
				Top surface				Bottom surface												
				Material	μ※1	Shape	Color	μ※2	Shape	Color										
Dedicated belts for feeder and ejector sections of slitters and cutoffs.	CBX-7S	PolyBelt	4.2	Artificial leather	0.3 ~ 0.4	Artificial leather	White	0.2 ~ 0.3	Artificial leather	White	PA	75	75	S	1	7.5	-20 ~ +80	320	300	Synthetic leather is used as surface material. Excellent abrasion resistance. Exhibits high anti-tear strength, longitudinal crack resistance and cut resistance, even when belt has been perforated. Excellent heat resistance. Maintains a stable friction coefficient and planarity.
Lower feeding belts for flexo folder gluers.	H-750	PolyBelt	3.75	NBR	0.6 ~ 0.7	Rough pattern	Blue	0.5 ~ 0.6	Rough pattern	Black	PA	60	60	S	1	5.6	-20 ~ +80	325	300	Excellent bending, and durable flange. The surface rubber is abrasion resistant with exceptional long life.
	XH-750-4	PolyBelt	4.25	NBR	0.8 ~ 0.9	Rough pattern	Blue	0.7 ~ 0.8	Rough pattern	Black	PA	55	55	S	1	5.6	-20 ~ +80	320	300	
	XHTG-15E34-2	PolySprint	3.4	NBR	0.8 ~ 0.9	Rough pattern	Blue	0.2 ~ 0.3	Fabric	White	PE	50	50	F	0.5	7	-5 ~ +60	480	100	

NBR : Nitrile rubber NR: Natural rubber PVC: Vinyl chloride PE: Polyester fabric PA: Polyamide film PA fabric : Polyamide fabric
 ※ 1. Friction coefficient (for corrugated cardboard) ※ 2. Friction coefficient (for iron) ※ 3. Tension values are based on data after 200 hours of running.

S: Skived splice F: Finger splice L: Lacing splice ST: Step splice

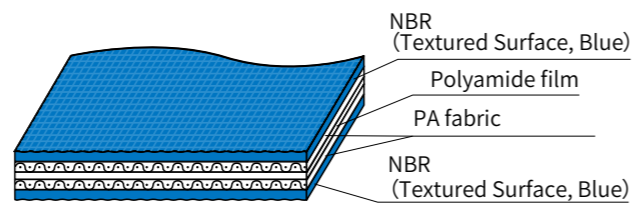
Nitta PolyBelt™, PolySprint™ Belts for Folder gluers, XH Series

Ideal for the paperboard or corrugated carton manufacturing process from the prefold section to the folding section and delivery section.

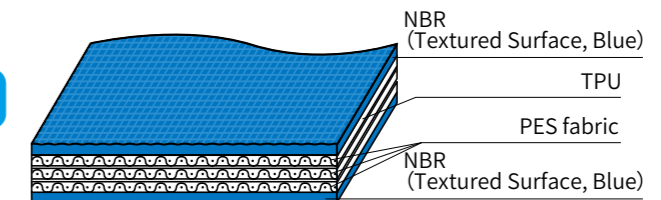
Highly precise carton manufacturing is achieved with a moderate and stable grip, providing durability against multiple bends, twists, side grip conveyor transference and the guide rollers.

Belt Type	Products	Thickness (mm)	Cover material							Tension member	Minimum pulley diameter (mm)	Standard elongation (%)	Tension standard elongation (N/mm) ※3	Splice type	Temperature range (°C)	Maximum roll width (mm)	Maximum endless width (mm)	Features
			Top surface				Bottom surface											
			Material	μ※1	Shape	Color	μ※2	Shape	Color									
XH-500-3-F	PolyBelt	3	NBR (FDA)	0.8~0.9	Rough pattern	Light Gray	0.7~0.8	Rough pattern	Light Gray	PA	30	1	3.8	S	-20 ~ +80	320	300	Nitta now has available PolyBelt™ XH series in FDA compliant material for food and beverage industry. Our FDA XH rubber have very similar performance to our blue XH rubber. The PolyBelt™ XH Series belts use polyamide cores of high strength. They set the standard and come in many types with high flange resistance. The series is a two-component adhesive type.
XH-500-4-F	PolyBelt	4	NBR (FDA)	0.8~0.9	Rough pattern	Light Gray	0.7~0.8	Rough pattern	Light Gray	PA	40	1	3.8	S	-20 ~ +80	320	300	
XH-500-3	PolyBelt	3	NBR	0.8~0.9	Rough pattern	Blue	0.7~0.8	Rough pattern	Blue	PA	30	1	3.8	S	-20 ~ +80	320	300	
XH-500-3.5	PolyBelt	3.5	NBR	0.8~0.9	Rough pattern	Blue	0.7~0.8	Rough pattern	Blue	PA	35	1	3.8	S	-20 ~ +80	320	300	
XH-500-4	PolyBelt	4	NBR	0.8~0.9	Rough pattern	Blue	0.7~0.8	Rough pattern	Blue	PA	40	1	3.8	S	-20 ~ +80	320	300	
XH-500-5	PolyBelt	5	NBR	0.8~0.9	Rough pattern	Blue	0.7~0.8	Rough pattern	Blue	PA	50	1	3.8	S	-20 ~ +80	320	300	
XH-500-6	PolyBelt	6	NBR	0.8~0.9	Rough pattern	Blue	0.7~0.8	Rough pattern	Blue	PA	60	1	3.8	S	-20 ~ +80	320	300	
XH-750-3	PolyBelt	3.25	NBR	0.8~0.9	Rough pattern	Blue	0.7~0.8	Rough pattern	Blue	PA	55	1	5.6	S	-20 ~ +80	320	300	
XH-750-4	PolyBelt	4.25	NBR	0.8~0.9	Rough pattern	Blue	0.7~0.8	Rough pattern	Blue	PA	55	1	5.6	S	-20 ~ +80	320	300	
XH-750-6	PolyBelt	6.25	NBR	0.8~0.9	Rough pattern	Blue	0.7~0.8	Rough pattern	Blue	PA	70	1	5.6	S	-20 ~ +80	320	300	
XH-8E30	PolySprint	3	NBR	0.8~0.9	Rough pattern	Blue	0.7~0.8	Rough pattern	Blue	PE	40	1	8	F	-20 ~ +60	500	100	The PolySprint™ XH Series is a type can be used for simplified endless joining. It has excellent dimensional stability, perfect for use with small pulleys and allowing for faster folder gluer operation.
XH-8E40	PolySprint	4	NBR	0.8~0.9	Rough pattern	Blue	0.7~0.8	Rough pattern	Blue	PE	50	1	8	F	-20 ~ +60	500	100	
XH-8E55	PolySprint	5.5	NBR	0.8~0.9	Rough pattern	Blue	0.7~0.8	Rough pattern	Blue	PE	80	1	8	F	-20 ~ +60	500	100	

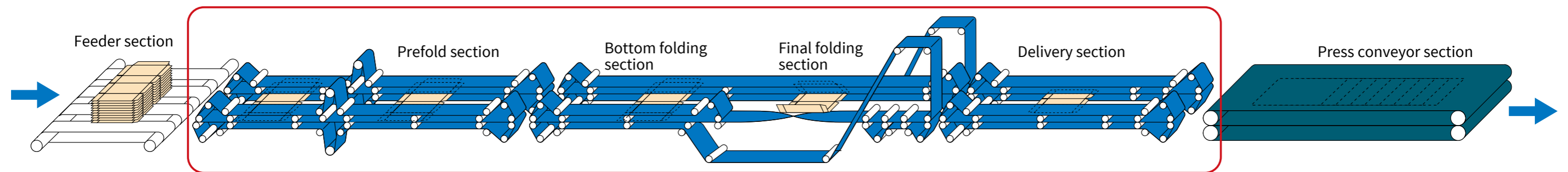
Nitta PolyBelt™ XH Series



PolySprint™ XH Series



Application examples for sections from prefold to delivery of folder gluers.



NBR : Nitrile rubber PE: Polyester fabric PA: Polyamide film PA fabric : Polyamide fabric

※ 1. Friction coefficient (for corrugated cardboard) ※ 2. Friction coefficient (for iron) ※ 3. Tension values are based on data after 200 hours of running.

S: Skived splice F: Finger splice TPU: Thermoplastic polyurethane

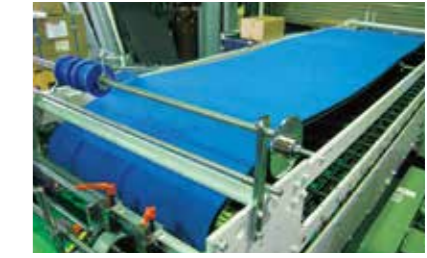
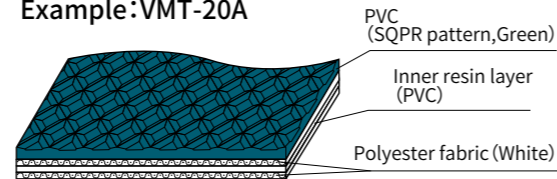
NLG™ Wide conveyor belts for press conveyors, stackers, material handling conveyors, and belt feeders (paper feed)

NLG is a conveyor belt made of tough polyester canvas with low elongation, high abrasion resistant urethane, cost-effective PVC, and in addition, other materials developed for each particular use. It is ideal for stackers of corrugators and press conveyors of folder gluers thanks to its high grip.

Features

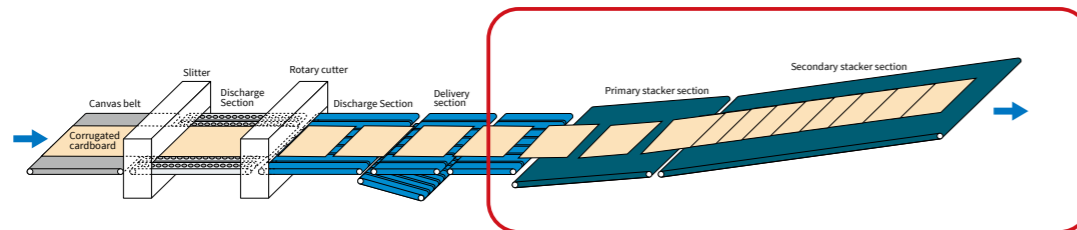
- Suitable for a wide range of conveying, including sloping lines.
- Dimensionally stable, and highly resistant to oil, chemicals and friction.
- Equipped with rigidity in the width direction and excellent planarity.
- Wide widths are available (Max width: 3,000 mm).

Example: VMT-20A

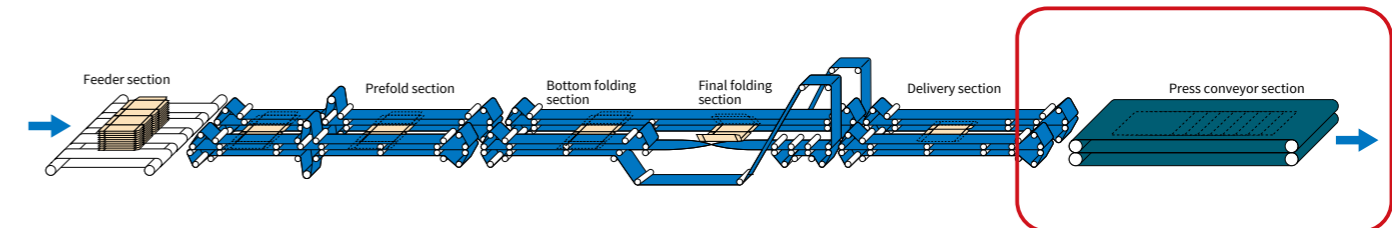


Belt Type	Products	Thickness (mm)	Cover material							Tension member	Minimum pulley diameter (mm)		Splice type	Standard elongation (%)	Tension standard elongation (N/mm) ※3	Temperature range (°C)	Maximum roll width (mm)	Maximum endless width (mm)	Features
			Top surface				Bottom surface				Forward	Reverse							
			Material	μ※1	Shape	Color	μ※2	Shape	Color										
MGRB-14A	NLG	2.7	PVC	approx. 1.0	RB pattern	Green	0.2~0.3	Fabric	White	PE	45/80	50/80	F/S	0.5	2	-5 ~ +70	2000	2000	The longitudinal groove surface structure is ideal for pushing and stacking.
MGC-14A	NLG	2.1	PVC	0.8 ~ 0.9	Mirror surface	Green	0.2~0.3	Fabric	White	PE	25/50	30/50	F/S	0.5	2	-5 ~ +70	3000	3000	The surface is ideal for pushing and stacking.
VMT-20A	NLG	2.7	PVC	0.5 ~ 0.6	SQPR pattern	Green	0.2~0.3	Fabric	White	PE	45/80	50/80	F/S	0.5	3	-5 ~ +70	3000	3000	The surface shape has an MT pattern which is ideal for slope stackers to stack corrugated cardboard.
BC-20A	NLG	2.8	PVC	0.8 ~ 0.9	Mirror surface	Green	0.2~0.3	Fabric	White	PE	45/80	50/80	F/S	0.5	3	-5 ~ +70	3000	3000	Provides rigidity in the width direction and high planarity, ideal for press conveyors due to its moderate weight and is compatible with sponge coating.
BC-22A	NLG	3.8	PVC	0.8 ~ 0.9	Mirror surface	Green	0.2~0.3	Fabric	White	PE	50/100	60/100	F/S	0.5	3	-5 ~ +70	3000	3000	
CC-20AK	NLG	2.8	PVC	0.8 ~ 0.9	Mirror surface	White	0.2~0.3	Fabric	White	PE	45/80	50/80	F/S	0.5	3	-5 ~ +70	3000	3000	Steel plate conveyance
GU-21A	NLG	2.5	TPU	0.5 ~ 0.6	Matte surface	Green	0.2~0.3	Fabric	White	PE	50/120	60/120	F/S	0.5	3	-20 ~ +80	3000	3000	The smooth PU surface material provides high resistance to abrasion and can be used for pallet conveying at feeding and material handling sections.

Application example Corrugator stacker section



Application example Folder gluers Press section



Nitta PolyBelt™, PolySprint™ Conveyor belt for offset printing equipment/Paper sheeter

Belt Type	Products	Thickness (mm)	Cover material							Tension member	Minimum pulley diameter (mm)		Splice type	Standard elongation (%)	Tension standard elongation (N/mm) ※3	Temperature range (°C)	Maximum roll width (mm)	Maximum endless width (mm)	Features
			Top surface				Bottom surface				Forward	Reverse							
			Material	μ※1	Shape	Color	μ※2	Shape	Color										
SG-500	PolyBelt	1.1	Polyamide	0.4~0.5	Weave	Green	0.3~0.4	NBR-impreg. fabric	Black	PA	40	40	S	1	3.75	-20~+80	325	300	Offset printing machine for package printing
NB-2E10	PolySprint	1.0	TPU	0.2~0.3	Knit	Blue	0.4~0.5	Flat	Blue	PE	15	15	F	1	2	-20~+60	500	500	Paper sheeter
NEW NSZ6201K (NB-3E14)	PolySprint	1.5	TPU	0.4~0.5	Flat	Blue	0.2~0.3	Knit	Blue	PE	20	20	F	1	3	-20~+60	500	500	Paper sheeter
NEW NSZ6201N (NGT-3E14)	PolySprint	1.5	-	0.2~0.3	Knit	Blue	0.1~0.2	Special fabric	Gray	PE	20	20	F	1	3	0~+60	500	500	Paper sheeter
TTZ-4E10LF	PolySprint	1.0	Special polyamide	0.4~0.5	NBR-impreg. fabric	Green	0.1~0.2	Fabric	White	PE	20	30	F	1	4	-20~+60	500	500	Bookbinding machine/Paper sheeter/Printing press/Light duty conveyor
FZ-5E12	PolySprint	1.25	Special polyamide	0.4~0.5	NBR-impreg. fabric	Green	0.5~0.6	Textured surface	Blue	PE	25	35	F	1	5	-20~+60	500	500	Offset printing machine for package printing
GTD	PolySprint	1.45	NBR	0.8~0.9	Textured surface	Dark Blue	0.3~0.4	Textured surface	Black	TPU	25	25	F	5	1.1	0~+60	450	450	Paper sheeter / No take up required

TPU: Thermoplastic polyurethane NBR: Nitrile rubber PVC: Vinyl chloride PE: Polyester fabric PA: Polyamide film
 ※ 1. Friction coefficient (for corrugated cardboard) ※ 2. Friction coefficient (for iron) ※ 3. Tension values are based on data after 200 hours of running.

S: Skived splice F: Finger splice

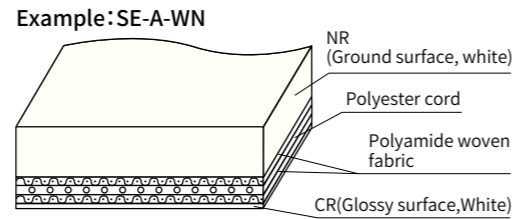
SEB™ Belts for feeders (paper feed)

SEB (Super Endless Belt) is a seamless integrally molded endless belt that utilizes dimensionally stable polyester cords as its core material, with high rotational accuracy and durability. SEB series feeder belts are ideal for folder gluers' feeding sections paperboards are fed into. Since the rubber surface and core materials have no adhesive part, SEB is free of problems of peeling and produces constant feeding power. It has been proven to provide stable feeding power for long periods of time due to its high friction coefficient and moderate abrasion resistance.

Features

- Seamless integral molding provides high rotational accuracy and durability.
- High grip and feeding power due to a high friction coefficient.
- Ideal for appearance-oriented lines without staining the conveying objects.
- Moderate abrasiveness provides high conveying performance for long periods of time.

Main features by type	
A-WN-F	The surface rubber meets the extraction limits specified by the FDA.
A-NR	Standard type focusing on durability.
A-WN	White standard type focusing on feeding power.
A-GN	Standard type focusing on feeding power.
A-FGN	Type with high planarity type focusing on feeding power.

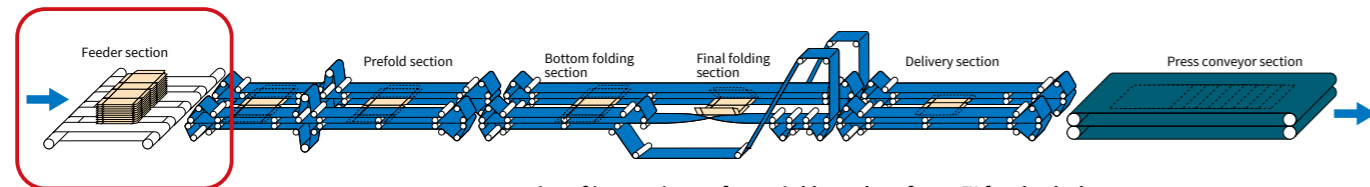


List of types and features

Belt Type	A-WN-F	A-NR	A-WN	A-GN	A-FGN
Antistatic	Yes	Yes	No	Yes	Yes
Available width (mm)	7 ~ 400	7 ~ 400	7 ~ 400	7 ~ 400	7 ~ 400
Standard thickness (mm)	8.0	8.0	8.0	8.0	8.0
Available thickness (mm)	2 ~ 12	2 ~ 14	2 ~ 12	2 ~ 12	6 ~ 12
Rubber surface material	Special Rubber	Natural rubber	Natural rubber	Natural rubber	Natural rubber
Surface rubber hardness	45JIS.A	50JIS.A	35JIS.A	35JIS.A	35JIS.A
Surface rubber color	White	Blue	White	Green	Green
Surface shape	Ground surface	Ground surface	Ground surface	Ground surface	Ground surface
Pulley side surface shape	Glossy side	Glossy side	Glossy side	Glossy side	Glossy side
Mass (kg/m ²)	8	10.2	10.2	10.2	10.2
Breaking strength (N/mm width)	58.8	58.8	58.8	58.8	58.8
Standard Elongation (%)	0.5	0.5	0.5	0.5	0.5
Tension at the standard elongation after relaxation (N/mm width)	3.7	3.7	3.7	3.7	3.7
Coefficient of Friction	Conveying surface (for corrugated cardboard)	1.5	1.5	2.0	2.0
	Pulley side surface (for SUS)	0.2 ~ 0.4	0.2 ~ 0.4	0.2 ~ 0.4	0.2 ~ 0.4
Minimum Pulley Diameter (mm)	φ80	φ80	φ80	φ80	φ80
Temperature Range (°C)	-20 ~ +60	-20 ~ +60	-20 ~ +60	-20 ~ +60	-20 ~ +60

※ In the case of belt thickness 8mm.

Application example Folder gluer Feeder section



List of inner circumferential lengths of SEB™ feeder belts

800 mm~	800	815	830	850	857	870	876				
900 mm~	900	904	908	913	935	950	960	973	980	995	
1000 mm~	1000	1008	1016	1021	1023	1026	1041	1050	1060		
1100 mm~	1066	1067	1071	1073	1080	1093					
1200 mm~	1100	1115	1135	1142	1145	1165	1175	1190			
1300 mm~	1200	1207	1230	1234	1250	1261	1270	1285			
1400 mm~	1300	1308	1338	1350	1396						
1500 mm~	1415	1430	1450	1478							
1600 mm~	1500	1535	1550	1590							
1700 mm~	1600	1620	1645	1653	1660						
1800 mm~	1700	1708									
1900 mm~	1800	1835	1850	1890							
	1965	1970									

400 to 800 mm lengths are also available. For sizes not listed above, please contact us.

PolySprint™ Endless splicing tool

PolySprint™

Fixing an unexpectedly broken belt is simple. No need to disassemble the machine or worry about a long downtime.

Finger Puncher : Tool to make finger splices.

Type	Appearance	Features	Max Belt width (mm)	Maximum processing thickness (mm)	Size (mm)			Wt. (kg)	Finger Length x Pitch
					Width	Length	Height		
FP30-10-50N		Accurate finger splices can be easily performed with the single action punching system.	50	2.0	135	400	390	3.4	30x10
FP120-10-50		Punches are made in the width direction by pitch feeding for accurate finger splices.	50	6.0	180	600	250	9.0	120x10
FP120-10-100		Punches are made in the width direction by pitch feeding for accurate finger splices.	100	6.0	230	610	250	10.5	120x10

Endless belts easy to set up in a short time (no experience required).

Finger splice (no adhesive required).



Heat(heating)Press : A press tool to join belts by heating and pressurizing for a specific time. No adhesives are required.

Type	Appearance	Features	Marking	Max Belt width (mm)	Maximum processing thickness (mm)	Size (mm)			Wt. (kg)	Finger Length x Pitch	Power	Temp (°C)
						Width	Length	Height				
NPS-3050 H1		A heat press tool to make finger splices. Accurate construction is possible by setting the temperature.	PS E	50	2.0	84	250	100	1.5	30 x 10	100V	~200
NPS-3050 H2		A heat press tool to make finger splices. Accurate construction is possible by setting the temperature.	CE	50	2.0	84	250	100	1.5	30 x 10	200V	~200
NPS-1210A-1		A heat press tool to make finger splices. This single fully automatic machine heats and cools.	PS E	100	7.0	230	320	180	9.2	120 x 10	100V	~200
NPS-1210A-2		A heat press tool to make finger splices. This single fully automatic machine heats and cools.	CE	100	7.0	230	320	180	9.2	120 x 10	200V	~200

Cooling Press : A tool to cool splices after heating and pressurizing. No power is required.

Type	Appearance	Features	Max Belt width (mm)	Maximum processing thickness (mm)	Size (mm)			Wt. (kg)	Finger Length x Pitch
					Width	Length	Height		
NPS-3050C		A cooling press tool for finger splices.	50	2.0	80	224	92	0.6	30x10
NPS-0310C		A cooling press tool for finger splices.	100	2.0	102	311	102	2.4	30x10

Other necessary tools

Type	Appearance	Features
Presetter		A jig to temporarily hold the belts straight in place when pressing. Presetters are available in widths that match press type and belt width.
EB Presetter		Presetter has "extended base" design to help with keeping splice area centered.
Clamps (2 Pieces)		Clamps to hold the presetter.



Video demonstrating how to use PolySprint tool

Nitta PolyBelt™ Endless splicing tool

Nitta PolyBelt™

Highly reliable tools exclusively designed for our popular Nitta PolyBelt™.

Poly Skiver : A tool to make skived splices.

Type	Appearance	Features	Max Belt width (mm)	Maximum processing thickness (mm)	Size (mm)			Wt. (kg)	Power
					Width	Length	Height		
PS153		We manufacture skived splices with high reliability and abundant use experience.	150	3.0	400	380	435	33.0	100V or 200V

Poly Press : A heat press tool for skived splices.

Type	Appearance	Features	Marking	Max Belt width (mm)	Maximum processing thickness (mm)	Size (mm)			Wt. (kg)	Power	Temp (°C)
						Width	Length	Height			
PP051		A press tool for skived splices. Light, easy to use and popular.	PS E	50	2.5	112	160	90	1.3	100V or 200V	110
PP103		A press tool for skived splices with high reliability and abundant use experience.	PS E	100	5.0	140	295	150	3.1	100V or 200V	110

CBX-7S

NRT-100

RT-300

NRT-500

XH-500-3-F

XH-500-3

XH-500-4

XH-500-6

RT-22E70-2

XHTG-15E34-2

XH-8E-40

SE-A-NR

SE-A-WN-F

SE-A-GN

MGRB-14A

VMT-20A

BC-20A