For Safe Use of Products

1. Function and Performance
   - Do not use the belt for handling or moving equipment.
   - Do not use the belt to handle wet or abrasive materials.
   - Do not use the belt in hazardous environments.
   - Do not use the belt for conveying wireless transmitters.

2. Storage and Shipping
   - Store the belts in a dry, clean, and well-ventilated area.
   - Store the belts in their original packaging to prevent damage.
   - Do not store the belts near flammable materials.

3. Installation and Daily Use
   - Before maintenance, inspection, or replacement, be sure to turn off the switches and make sure the machine is stopped.
   - When cleaning the belt, do not use chemicals harmful to humans.
   - After replacing the belt with a new one, perform a full operation to ensure the belt is working properly.
   - Do not apply too much tension to the belt when installing it.
   - Do not move the belt by hand while it is running.

4. Installation, Endless Processing, etc.
   - When using solvent or adhesive, be sure to ventilate the area.
   - Do not use the belt in an environment with high temperature or humidity.
   - Do not use the belt in a static environment.
   - Do not use the belt in an environment with high pressure.

5. Handling Used Belts
   - Do not handle used belts with bare hands.
   - Do not use used belts in environments with high temperature or humidity.
   - Do not use used belts in environments with high pressure.

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http://www.connectconveying.com

The specification is subject to change for improvement without notice.
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.
For general paper manufacturing machinery Rough Top Belt RT series

For paper manufacturing machinery for specific use

Nitta PolyBelt™ RT-300

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

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.

---

### Belts for Specific Applications

<table>
<thead>
<tr>
<th>Belt Type</th>
<th>Products</th>
<th>Thickness (㎜)</th>
<th>Top surface</th>
<th>Bottom surface</th>
<th>Tension Member</th>
<th>Minimum pulley Diameter (㎜)</th>
<th>Tension standard elongation (N/㎜²)</th>
<th>Splice type</th>
<th>Temperature Range (℃)</th>
<th>Maximum Width (㎜)</th>
<th>Examples of major application</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT-22E70</td>
<td>PolySprint</td>
<td>7.0</td>
<td>NBR  abt.1.0</td>
<td>RT  Blue 0.2 ~ 0.25</td>
<td>Fabric White</td>
<td>PE 100 0.5</td>
<td>10 S/F/L</td>
<td>- 20 ~ +80</td>
<td>480</td>
<td>For general paper manufacturing machinery with high abrasion resistance.</td>
<td></td>
</tr>
<tr>
<td>RT-300</td>
<td>PolyBelt</td>
<td>6.5</td>
<td>NBR  abt.1.0</td>
<td>NRT Blue 0.2 ~ 0.25</td>
<td>Fabric White</td>
<td>PE 100 0.5</td>
<td>3 S/L</td>
<td>- 20 ~ +80</td>
<td>480</td>
<td>Designed for conveyor sections and paper carton making machinery with high abrasion resistance.</td>
<td></td>
</tr>
<tr>
<td>NRT-0</td>
<td>PolyBelt</td>
<td>5.5</td>
<td>NBR  abt.1.0</td>
<td>NRT Blue 0.2 ~ 0.25</td>
<td>Fabric White</td>
<td>PE 100 1</td>
<td>0.65 L/ST</td>
<td>- 20 ~ +80</td>
<td>480</td>
<td>For conveyors of spurting sections and paper carton making with a stable friction coefficient and abrasion resistance.</td>
<td></td>
</tr>
<tr>
<td>NRT-100</td>
<td>PolyBelt</td>
<td>4.5</td>
<td>NBR  abt.1.0</td>
<td>NRT Blue 0.2 ~ 0.25</td>
<td>Fabric White</td>
<td>PE 100 50</td>
<td>0.5</td>
<td>S/L</td>
<td>- 20 ~ +80</td>
<td>480</td>
<td>For conveyor sections of spurting sections and paper carton making machinery with a stable friction coefficient and abrasion resistance.</td>
</tr>
<tr>
<td>NRT-500</td>
<td>PolyBelt</td>
<td>6.0</td>
<td>NBR  abt.1.0</td>
<td>NRT Blue 0.5 ~ 0.6</td>
<td>Textured Surface Black</td>
<td>PA 90</td>
<td>1</td>
<td>3.8 S/ST</td>
<td>- 20 ~ +80</td>
<td>480</td>
<td>For conveyor sections of spurting sections and paper carton making machinery with high abrasion resistance.</td>
</tr>
<tr>
<td>CBE-20</td>
<td>PolyBelt</td>
<td>7.0</td>
<td>NBR  abt.1.0</td>
<td>RT Blue 0.2 ~ 0.25</td>
<td>Fabric Black</td>
<td>PE 100 50</td>
<td>0.5</td>
<td>S/L</td>
<td>- 20 ~ +80</td>
<td>460</td>
<td>For conveyor sections of spurting sections and paper carton making machinery with high abrasion resistance.</td>
</tr>
<tr>
<td>GRT-24AK</td>
<td>NLG</td>
<td>7.7</td>
<td>NR  abt.1.0</td>
<td>RT Brown 0.2 ~ 0.25</td>
<td>Fabric Brown</td>
<td>PA fabric 80</td>
<td>1</td>
<td>3 S/L</td>
<td>- 20 ~ +80</td>
<td>1800</td>
<td>Equipped with natural rubber Rough Top suitable for grip-enhanced sections.</td>
</tr>
<tr>
<td>VRT-20A</td>
<td>NLG</td>
<td>6</td>
<td>PVC  abt.1.0</td>
<td>RT Green 0.2 ~ 0.25</td>
<td>Fabric White</td>
<td>PE 60/100</td>
<td>0.5</td>
<td>3 F/ST</td>
<td>- 5 ~ + 70</td>
<td>2000</td>
<td>Cost-effective PVC Rough Top.</td>
</tr>
</tbody>
</table>

---

### Material Properties

<table>
<thead>
<tr>
<th>Member</th>
<th>Tension</th>
<th>Temperature Range (℃)</th>
<th>Maximum Width (㎜)</th>
<th>Examples of major application</th>
</tr>
</thead>
<tbody>
<tr>
<td>S: Skived splice</td>
<td>F: Finger splice</td>
<td>L: Lacing splice</td>
<td>ST: Step splice</td>
<td></td>
</tr>
</tbody>
</table>

---

### Friction Coefficient Chart

<table>
<thead>
<tr>
<th>Material</th>
<th>μ ※1</th>
<th>Shape</th>
<th>Color</th>
<th>μ ※2</th>
<th>Shape</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR</td>
<td>0.4 ~ 0.5</td>
<td>Flat</td>
<td>White</td>
<td>0.2 ~ 0.25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PolyBelt</td>
<td>0.5 ~ 0.6</td>
<td>Textured</td>
<td>Black</td>
<td>0.2 ~ 0.25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyester fabric</td>
<td>0.7 ~ 0.8</td>
<td>Textured</td>
<td>Black</td>
<td>0.2 ~ 0.25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NBR(Rough Top, blue)</td>
<td>0.8 ~ 0.9</td>
<td>Textured</td>
<td>Black</td>
<td>0.2 ~ 0.25</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### Tension Values

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

---

### Specification

- PA fabric: Polyamide fabric

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### Notes

- Nitta PolyBelt™
- Hole punching example
- Artificial leather used as surface material. Excellent abrasion resistance. Exhibits high anti-tear strength. Longitudinal crack resistance and cut resistance, even after punching holes in the belt. Excellent heat resistance. Maintains a stable friction coefficient and durability.

---

### Lower feeding belts

- For lower feeding belts and cutoffs.
- For lower feeding belts and cutoffs.
- For lower feeding belts and cutoffs.

---

### Higher feeding belts

- For higher feeding belts.
- For higher feeding belts.
- For higher feeding belts.
Nitta PolyBelt™, PolySprint™ Belts for Folder gluers (sack machines), 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.

<table>
<thead>
<tr>
<th>Belt Type</th>
<th>Products</th>
<th>Thickness (㎜)</th>
<th>Material</th>
<th>Top surface</th>
<th>Bottom surface</th>
<th>Tension Member</th>
<th>Minimum Splice Value</th>
<th>Splice type</th>
<th>Temperature Range(℃)</th>
<th>Maximum Width</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>XH-500-3</td>
<td>PolyBelt</td>
<td>3 NBR 0.8 ~ 0.9</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>0.7 ~ 0.8</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>PA</td>
<td>50</td>
<td>1</td>
<td>3.8</td>
</tr>
<tr>
<td>XH-500-3.5</td>
<td>PolyBelt</td>
<td>3.5 NBR 0.8 ~ 0.9</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>0.7 ~ 0.8</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>PA</td>
<td>55</td>
<td>1</td>
<td>3.8</td>
</tr>
<tr>
<td>XH-500-4</td>
<td>PolyBelt</td>
<td>4 NBR 0.8 ~ 0.9</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>0.7 ~ 0.8</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>PA</td>
<td>60</td>
<td>1</td>
<td>3.8</td>
</tr>
<tr>
<td>XH-500-5</td>
<td>PolyBelt</td>
<td>5 NBR 0.8 ~ 0.9</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>0.7 ~ 0.8</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>PA</td>
<td>70</td>
<td>1</td>
<td>3.8</td>
</tr>
<tr>
<td>XH-500-6</td>
<td>PolyBelt</td>
<td>6 NBR 0.8 ~ 0.9</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>0.7 ~ 0.8</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>PA</td>
<td>80</td>
<td>1</td>
<td>3.8</td>
</tr>
<tr>
<td>XH-750-3</td>
<td>PolyBelt</td>
<td>3.25 NBR 0.8 ~ 0.9</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>0.7 ~ 0.8</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>PA</td>
<td>60</td>
<td>1</td>
<td>5.6</td>
</tr>
<tr>
<td>XH-750-4</td>
<td>PolyBelt</td>
<td>4.25 NBR 0.8 ~ 0.9</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>0.7 ~ 0.8</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>PA</td>
<td>75</td>
<td>1</td>
<td>5.6</td>
</tr>
<tr>
<td>XH-750-6</td>
<td>PolyBelt</td>
<td>6.25 NBR 0.8 ~ 0.9</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>0.7 ~ 0.8</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>PA</td>
<td>90</td>
<td>1</td>
<td>5.6</td>
</tr>
<tr>
<td>XH-8E30</td>
<td>PolySprint</td>
<td>3 NBR 0.8 ~ 0.9</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>0.7 ~ 0.8</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>PE</td>
<td>40</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>XH-8E40</td>
<td>PolySprint</td>
<td>4 NBR 0.8 ~ 0.9</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>0.7 ~ 0.8</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>PE</td>
<td>50</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>XH-8E55</td>
<td>PolySprint</td>
<td>5.5 NBR 0.8 ~ 0.9</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>0.7 ~ 0.8</td>
<td>Textured Surface</td>
<td>Blue</td>
<td>PE</td>
<td>80</td>
<td>1</td>
<td>8</td>
</tr>
</tbody>
</table>

The Nitta 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.

The PolySprint™ XH Series is a type that can be used for simplified endless use. It has excellent dimensional stability, perfect for use with small pulleys and allowing for faster folder gluer operation.

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

- 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).

### 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).**

### Application example

**Corrugator stacker section**

- **Application example**
- **Corrugator stacker section**

### Application example Folder gluers Press section

- **Application example**
- **Folder gluers Press section**

### Nitta PolyBelt™, PolySprint™ Conveyor belt for offset printing equipment

<table>
<thead>
<tr>
<th>Belt Type</th>
<th>Products</th>
<th>Thickness (㎜)</th>
<th>Top surface</th>
<th>Cover Material</th>
<th>Bottom surface</th>
<th>Tension Member</th>
<th>Minimum pulley Diameter (㎜)</th>
<th>Standard Longation (%)</th>
<th>Tension standard Elongation (N/㎜²)</th>
<th>Splice type</th>
<th>Temperature Range (℃)</th>
<th>Maximum Width</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGB-14A</td>
<td>NLG</td>
<td>2.7</td>
<td>PVC</td>
<td>1.0 or more</td>
<td>Longitudinal groove pattern</td>
<td>Green</td>
<td>0.2 ~ 0.25</td>
<td>Fabric</td>
<td>White</td>
<td>PE</td>
<td>50/80</td>
<td>0.5</td>
<td>2 F/S</td>
</tr>
<tr>
<td>MGC-14A</td>
<td>NLG</td>
<td>2.1</td>
<td>PVC</td>
<td>0.7 ~ 0.8</td>
<td>Glossy</td>
<td>Green</td>
<td>0.2 ~ 0.25</td>
<td>Fabric</td>
<td>White</td>
<td>PE</td>
<td>30/50</td>
<td>0.5</td>
<td>2 F/S</td>
</tr>
<tr>
<td>VMT-20A</td>
<td>NLG</td>
<td>2.7</td>
<td>PVC</td>
<td>0.6 ~ 0.7</td>
<td>SQPR</td>
<td>Green</td>
<td>0.2 ~ 0.25</td>
<td>Fabric</td>
<td>White</td>
<td>PE</td>
<td>50/80</td>
<td>0.5</td>
<td>3 F/S</td>
</tr>
<tr>
<td>BC-20A</td>
<td>NLG</td>
<td>2.8</td>
<td>PVC</td>
<td>0.7 ~ 0.8</td>
<td>Glossy</td>
<td>Green</td>
<td>0.2 ~ 0.25</td>
<td>Fabric</td>
<td>White</td>
<td>PE</td>
<td>50/80</td>
<td>0.5</td>
<td>3 F/S</td>
</tr>
<tr>
<td>BC-22A</td>
<td>NLG</td>
<td>3.8</td>
<td>PVC</td>
<td>0.7 ~ 0.8</td>
<td>Glossy</td>
<td>Green</td>
<td>0.2 ~ 0.25</td>
<td>Fabric</td>
<td>White</td>
<td>PE</td>
<td>60/100</td>
<td>0.5</td>
<td>3 F/S</td>
</tr>
<tr>
<td>CC-20A</td>
<td>NLG</td>
<td>2.8</td>
<td>PVC</td>
<td>0.7 ~ 0.8</td>
<td>Glossy</td>
<td>White</td>
<td>0.2 ~ 0.25</td>
<td>Fabric</td>
<td>White</td>
<td>PE</td>
<td>50/80</td>
<td>0.5</td>
<td>3 F/S</td>
</tr>
<tr>
<td>EC-20C</td>
<td>NLG</td>
<td>4.4</td>
<td>PVC</td>
<td>0.7 ~ 0.8</td>
<td>Glossy</td>
<td>Green</td>
<td>0.3 ~ 0.4</td>
<td>SQPR</td>
<td>White</td>
<td>PE</td>
<td>100/150</td>
<td>0.5</td>
<td>3 F/S</td>
</tr>
<tr>
<td>GU-21A</td>
<td>NLG</td>
<td>2.5</td>
<td>PU</td>
<td>0.5 ~ 0.6</td>
<td>Satin finish</td>
<td>Green</td>
<td>0.2 ~ 0.25</td>
<td>Fabric</td>
<td>White</td>
<td>PE</td>
<td>60/120</td>
<td>0.5</td>
<td>3 F/S</td>
</tr>
</tbody>
</table>

### SG-500

- PolyBelt
- Thickness: 1.1  NBR: 0.3 ~ 0.4  Weave: Green 0.3 ~ 0.4  Weave: Black

### FZ-SE12

- PolySprint
- Thickness: 1.25  Polyamide fabric impregnated with NBR: 0.6 ~ 0.7  Impregnation: Green 0.5 ~ 0.6  Weave: Blue

### Application example

- **Corrugator stacker section**
- **Folder gluers Press section**

---

**NBR**: Nitrile rubber  **NR**: Natural rubber  **PVC**: Vinyl chloride  **PU**: Polyurethane  **PE**: Polyester fabric  **PA**: Polyamide film  **PA fabric**: Polyamide fabric  **F**: Finger splice  **L**: Lacing splice  **ST**: Step splice

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

- 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.

### Features

- **Main features by type**
  - A-WN: White standard type focusing on feeding power.
  - A-GN: Standard type focusing on feeding power.
  - A-FGN: Type with high planarity focusing on feeding power.

### List of types and features

**Belt Type**

<table>
<thead>
<tr>
<th>Type</th>
<th>Appearance</th>
<th>Features</th>
<th>Marking</th>
<th>Breaking strength (N/㎜ width)</th>
<th>Mass (kg/㎡)</th>
<th>Standard elongation (%)</th>
<th>Coefficient of Friction</th>
<th>Minimum Pulley Diameter(㎜)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-NR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-WN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-GN</td>
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<td></td>
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### Commercial examples

- **Folder gluer Feeder section**
- **Application example**
- **Length of batch**
- **Application example**

### Other necessary tools

- **Presetter**
- **Clamps**

### PolySprint™ Endless splicing tool

- **Finger Puncher**
- **Cooling Press**
- **Heat (heating) Press**

### Poly Skiver: A tool to make skived splices.

- **Poly Press: A heat press tool for skived splices.**

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**Nitta PolyBelt™ Endless splicing tool**

- **Nitta PolyBelt™** Highly reliable tools exclusively designed for our popular Nitta PolyBelt™. Fixing an unexpectedly broken belt is simple. No need to disassemble the machine or worry about a long downtime.

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**PolySprint™ Endless splicing tool**

- **PolySprint™** Endless belts easy to set up in a short time (no adhesives required). Finger splice (no adhesive required). Fixing a broken belt is simple. No need to disassemble the machine or worry about a long downtime.