

Practices for Fiberglass-Reinforced Urethane Belts

Zebra Customer Application Notes

This application note is designed as a reference for the following audiences:

- Customers
- Zebra Authorized Service Providers
- Zebra Repair
- Zebra Technical Support

Overview

This application note explains and demonstrates the safe and unsafe practices for storing and handling fiberglass-reinforced urethane belts. Fiberglass-reinforced urethane belts are used for the drive system in Zebra industrial printers.




Requirements



Fiberglass-reinforced urethane belts require careful handling and storage. While the belts may not appear to be fragile, they contain fiberglass, which is a strong, yet brittle substance. Because of these properties, the belts must be handled with extreme care to prolong the life of the belt.


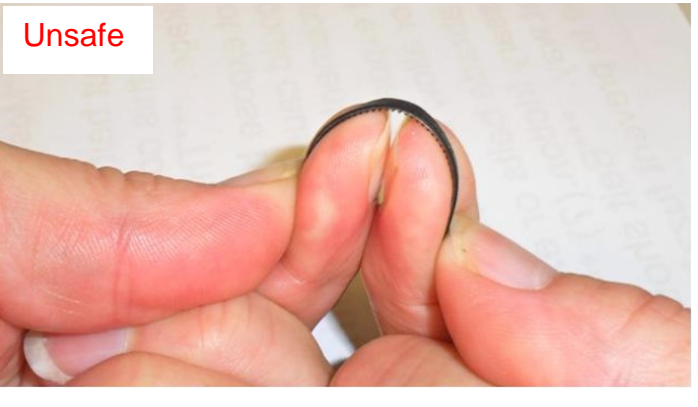
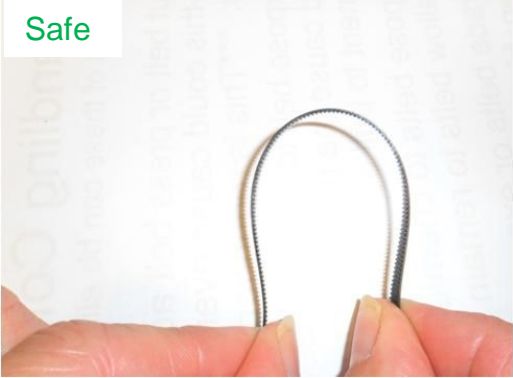
Whether you are handling the belts for manufacturing, inventory, repair, installation, or assembly, you must use safe practices with the belts.



Follow the recommended safe practices in the next section. Avoid the unsafe practices which can damage the belts.

Safe and Unsafe Practices

Description	Safe/Unsafe Identifier and Photo
<p>Avoid weight (or pressure) on the belt.</p> <p>Do not place anything on top of a belt!</p>	<p>Unsafe</p> 
<p>Avoid pulling on the belt to break the string securing the belts.</p> <p>Do not pull on a single belt or a group of belts!</p>	<p>Unsafe</p> 
<p>To release the belts:</p> <ol style="list-style-type: none"> 1. Gently grasp the belts in one hand. 2. Cut the string securing the belts with scissors. 3. Discard the string. 	<p>Safe</p> 

Description	Safe/Unsafe Identifier and Photo
<p>Do not pull a belt out of the middle of a group. This may cause twisting, crimping, or other permanent deformations to the belt.</p>	<p>Unsafe</p> 
<p>To remove a belt, select a belt from the top of the group.</p> <p>Avoid pulling on a belt!</p>	<p>Safe</p> 

Description	Safe/Unsafe Identifier and Photo
<p>Do not bend or fold the belt!</p>	<p>Unsafe</p> 
<p>Do not bend or stress the belt!</p>	<p>Unsafe</p> 
<p>To install the belt on a pulley:</p> <ol style="list-style-type: none"> 1. Using both hands, gently grasp the belt between your thumb and index finger approximately 6 inches apart. 2. Move your hands together until about an inch apart. 3. Wrap the belt around the pulley. 4. Ensure that the belt is not touching a flange. 	<p>Safe</p> 

Description	Safe/Unsafe Identifier and Photo
<p>Avoid placing the edge of the belt against the flange!</p> <p>This may cause undue rubbing and fraying of the belt and shorten its lifecycle.</p>	<p>Unsafe</p> 
<p>Adjust the belt so it is not touching the side(s) of the flange.</p>	<p>Safe</p> 

Additional Physical and Chemical Concerns

- Do not cut the belt or press the belt across a sharp surface.
- Avoid heat exceeding 70°C (158°F).
- Avoid exposure to chemicals or water. Do not allow the belts to remain wet!

Document Control

Version	Date	Description
1	April, 2017	Initial release.

Disclaimer

All links and information provided within this document are correct at time of writing.