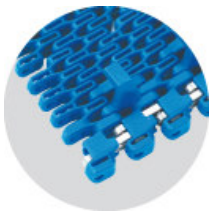
Solution Guide

uni Flex SNB L
Sideflexing Belt



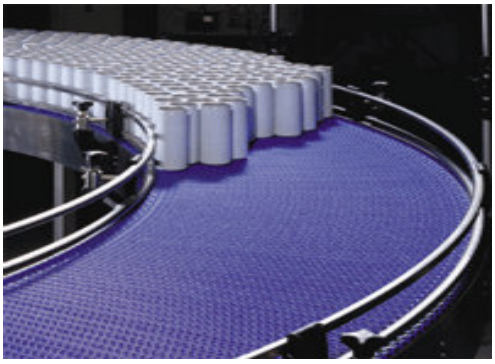
uni Flex SNB L
Sideflexing Belt

Industry **> Can Manufacturing**

Application **> Mass Handling (sideflexing)**

Description **> Cans are transported in many rows on wide belts, usually with accumulation.**

Mass handling applications are often straight running conveyors with a 90 degree transfer. With the uni Flex SNB product it is possible to make a long straight running and sideflexing conveyors with one drive. Accumulation will occur in many applications.



uni Flex SNB for sideflexing can accumulation

Problems

> Problem 1
If straight running belts are used they must utilize 90 degree transfers to convey the cans around corners. These dead plate transfer points can cause the cans to tip over and will cause the last cans on the line to stop on the dead plate requiring to be cleared by hand.

> Problem 2
Sideflexing belts are much weaker than straight running belts because the tension is concentrated on the outside edge rather than distributed across the width. Most sideflexing belts are not strong enough to do a complete 180 degree curve in a single drive so they must be broken up with a transfer point.

> Problem 3
Plastic modular belts will stretch out due to pin and hinge wear. This will cause problems with sprocket engagement and is the typical reason that the belt will need to be replaced.

> Problem 4
Metal oxides from the bottom of the cans build up on the belt surface and cause friction to increase making accumulation difficult.

Solutions

> Solution 1
uni Flex SNB is a sideflexing belt that is able to run straight and turn around corners so the 90 degree transfer points can be avoided making the cans more stable and creating a self clearing system.

> Solution 2
uni Flex SNB W, WO and WT is available with SS reinforcing links on the outside edges for 3X the curve strength of the all-plastic version. This allows the conveyor to have more curves with a single drive and fewer transfer points for the cans.

> Solution 3
uni Flex SNB uses injection molded pins in nylon material. Compared to extruded pins, molded pins have a better roundness tolerance to give a better contact from pin to hinge and therefore better wear life. In some cases SS pins are used for even more wear resistance.

> Solution 4
The uni Flex SNB surfaces have radiused contact points for low contact that reduces friction and helps scrape the metal oxides off the bottom of the cans and allow them to pass through the belt.