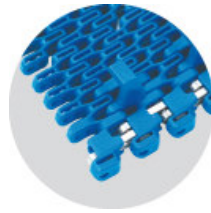


Solution Guide



uni Flex SNB WT
Sideflexing Belt



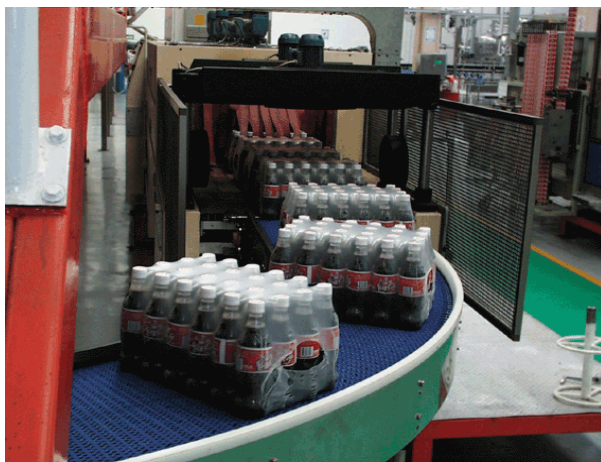
uni Flex ONE EO
Sideflexing Belt

Industry > **Beverage**

Application > **Case Conveyor**

Description > **This conveyor takes the cases from the packaging machines or shrink tunnels to the palletizing equipment**

It is often a 180 degree curve. In the past steel chains or plastic chains have been used. Today sideflexing plastic modular belts are being used mainly to maintain the orientation of products. This application typically runs at speeds up to 120 feet/min.



uni Flex SNB WT conveying shrink wrapped cases



uni Flex SNB conveying fridge packs

Problems

> Problem 1

If slat top chain is used, multiple lanes are required. These multi-lane chains run at the same speed but travel different distances which will cause the cases to rotate.

> Problem 2

Many times all-plastic sideflexing belts are not strong enough to pull full cases through a full 180 degree curve. For that reason many of these conveyors must be split into two 90 degree curves resulting in another transfer point and additional costs (drives etc.).

> Problem 3

The speed and load combination is often a limitation. Plastic has limits to how much pressure it can handle at certain speeds, and this sometimes requires the belt to be broken into two drives or the speed to be reduced.

Solutions

> Solution 1

A modular belt is a good solution since it can be made in one single lane. With uni Flex SNB or uni Flex ONE the correct orientation of the case is maintained and the need for another transfer point is eliminated.

> Solution 2

uni Flex SNB with SS reinforcement links has helped solve this problem because of its high tensile strength in the curve. Another solution is the pinless uni Flex ONE product that achieves high strength by sharing the load over many hinges.

> Solution 3

Both the uni Flex SNB and uni Flex ONE belts are available with Delrin-Kevlar O-Tabs and wearparts which have higher load and speed limits making it possible for higher speeds and loads on the conveyor.