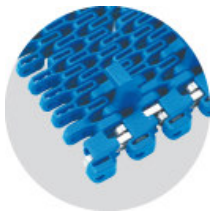
Solution Guide

uni Flex SNB CR
Sideflexing Belt



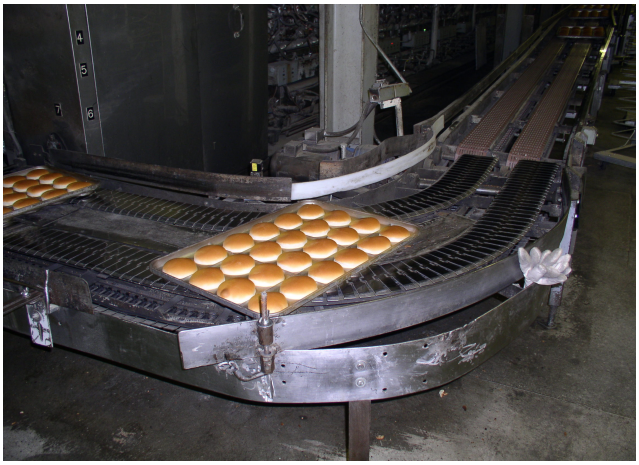
uni Flex SNB WT
Sideflexing Belt

Industry **> Bakery**

Application **> Pan conveyance sideflexing**

Description **> Sideflexing conveyor near oven discharge**

The conveyor can have a 90 degree curve as shown below. The pans will be guided by a rail so they do not rotate (unless the process requires the pans to turn) due to the different speed on the two chains (1 drive).



The picture above shows a traditional system using 2 lanes of steel chain. Today this will be made with uni Flex SNB with SS reinforcing links.

Problems

> Problem 1
Steel Chains are not available in sizes wide enough for the whole pan, so the system must be made with two lanes. Pans will turn on the chain and become stuck in the corners when using carbon steel chains.

> Problem 2
Noise is a problem due to steel pans on steel chain.

> Problem 3
Rotation of the pans can be a problem. With two lanes on a single drive the outside edge must travel further and lags behind since the speed is the same. The pans must be guided by a rail so they do not rotate.

> Problem 4
The cooling is slow due to the closed surface of the steel chains.

Solutions

> Solution 1
With the uni PA6.6 uni Flex SNB WT with steel reinforcement links the full width can be made with one lane. CR links can be added on the inside of the belt if a tight radius is required. Reinforcement links are needed for strength at the high temperatures near the oven.

> Solution 2
With uni Flex SNB WT noise is reduced and you can accumulate on the belt without damaging the pans.

> Solution 3
With the uni Flex SNB belt in a single lane the rotation of the pans is avoided.

> Solution 4
The open plastic belt will increase the cooling effect.