

Application: Lumber mill - Slowdown belts

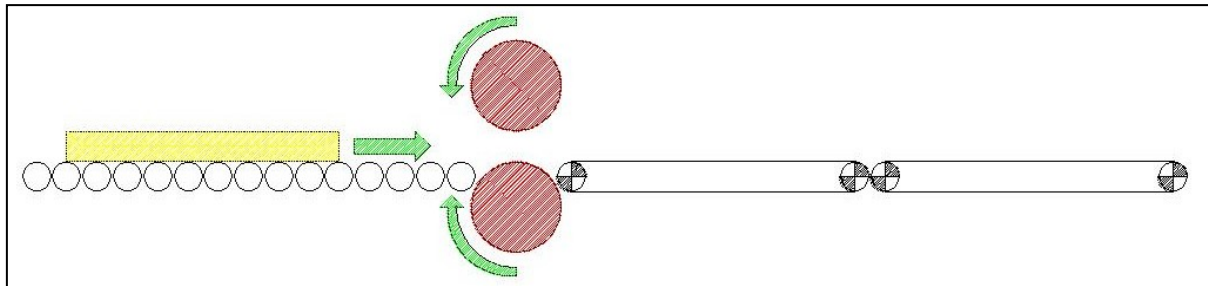
Data

Environment : Indoor, ambient temperature

Product on belt: Finished lumber board of varying lengths, 4" (101.6mm) wide, and height of 2" (50.8mm)

Process description:

The last process in creating dimensional lumber is the planing of the board. Boards are transferred on rollers to the planer that consists of two drums which are positioned above each other. The boards move through the opening between the two drums. The 18" (457.2mm) diameter drums, which have knives, plane the board on the top and the bottom side. The planing drums are turning extremely fast, which causes the boards to shoot out of the planer at high speed. The boards exit the planer to a series of moving belts. There are 4 or 5 conveyors inline with a total length of approximately 50' (15.24m). The first belt is running the fastest, the second a little bit slower, and so on. At the end of the last conveyor, employees sort the bars manually and insert them into the stacker.



Belt requirements:

Abrasion resistant:

Since the boards impact the belt hard, the cover needs to be very tough.

Non marking:

It is important that the boards remain clean. Therefore the belt may not mark the lumber.

Previous Belt Problem:

Tan-SBR Roughtop belt

The cover of this belt is only moderately impact and wear resistant. The service life in this very demanding application is one month.

Solution:

Chemprene Blue Carboxilated Roughtop belts

This belt has a very tough cover that lasts 2 to 3 months and does not mark the boards.

Details:

Minimum pulley diameter	: Varies
Center to center distance	: 13' (3.96m)
Belt width	: 30" (762mm)
Maximum Speed	: Varies*
Splice	: Mechanical lace
Support	: Slider bed
Maximum decline	: 10°
Number of belts	: 4 or 5

*The speed varies from manufacturer to manufacturer.

Remark:

In this application the belts have no knife edges, no crowning, no reverse bends, no scrapers, and are not troughed.