

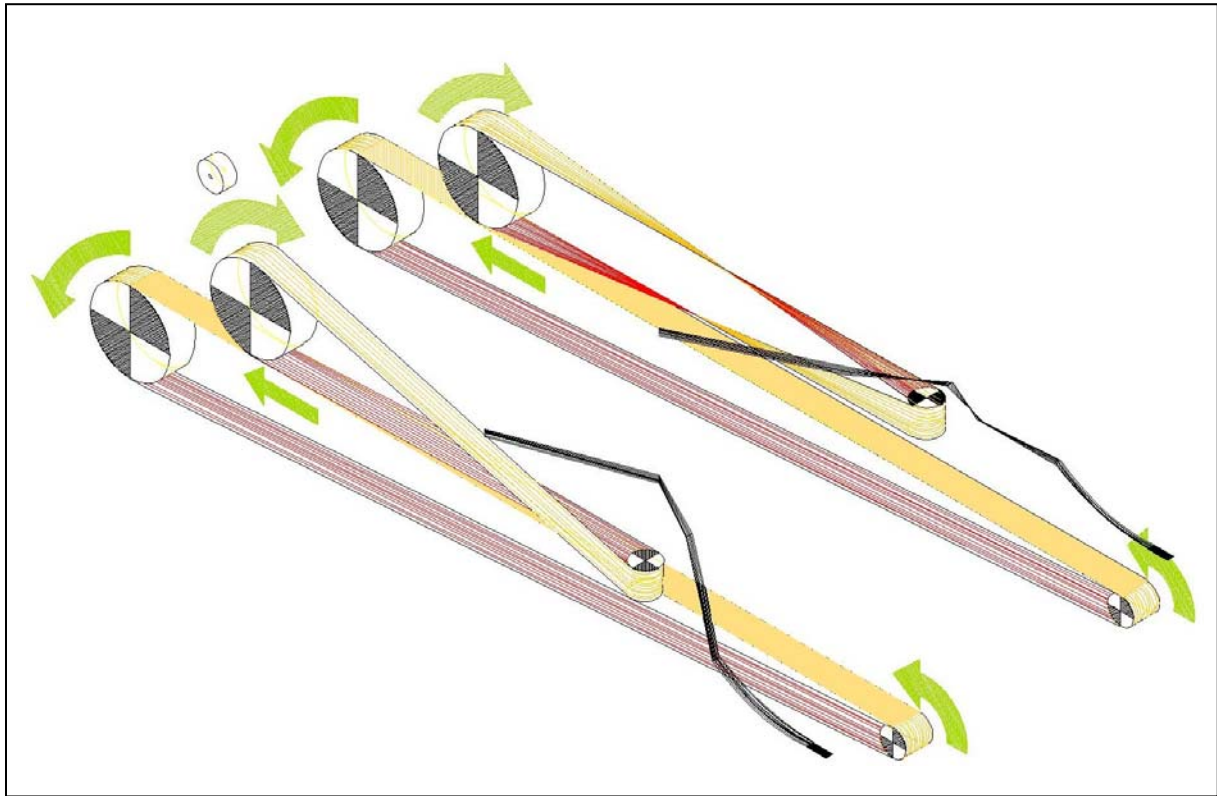
Application: Corrugated Container Plant - Folder-Gluer

Data

OEM : Langston
Environment : Indoor, ambient temperature
Product on belt : Flat board of varying sizes

Process description:

After exiting a dye cutter the flat board enters a folder gluer. In the folder-gluer the board is transported on two conveyor belts. The lower folding belts are next to each other with approximately a 25" (635mm) space in between. First glue is added on the board. The parts of the board that have to be folded to the middle, hit folding rails. These rails, together with a second pair of conveyor belts (the upper folding belts) are running in conjunction to perform the folding process. At the end a wheel is rolling between the two conveyors, this wheel presses the glue to the board.



Belt requirements:

Coefficient of friction:

The belt needs the proper coefficient of friction in order to grip the cardboard.

Non marking:

The covers of the belts may not discolor the board.

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Previous Belt Problem:

SBR rouhtop with mechanical lacing

Frequent production stoppages are common for relacing of the belts as they stretch or as the lacing pulls out due to the high tension the belts run at. Paired belts on the machine can stretch unevenly, as often happens, misfeeds can occur which also cause the machine to shut down. These belts lasted 45 to 60 days.

Solution:

Chemprene ZipLink XBNR belt

When the ZipLink XBNR belt is used, there is no lace that can pull out and stretch is minimal. Therefore the machines will not shut down due to stretch or re-lacing of the belt. Furthermore misfeeds are significantly reduced because the belts do not stretch unevenly. The belt lifetime of the belt is approximately 3½ months.

Belt Replacement Cost Savings Analysis:			
<i>Smooth Blue Carboxilated ZipLink</i>		<i>SBR Rouhtop</i>	
Lifetime	: 6 months	Lifetime	: 2 months
Belt cost	: \$ 3,360	Belt cost	: \$ 900
		Vulcanizing	: \$ 560
Installation labor	: \$ 192+	Installation labor	: \$ 400 +
Total Cost (6 months)	: <u>\$ 3,552</u>	Total Cost (2 months)	: <u>\$ 1860</u>
Total Cost (12 months)	: \$ 7,104	Total Cost (12 months)	: \$11160
= Yearly Savings using ZipLink: \$ 4,056			

Details:

- Minimum pulley diameter : 2" (50mm)
- Center to center distance : 65' (19.812m) or 80' (24.384m)
- Belt width : 3.5" (88.9mm) to 4" (101.6mm)
- Speed : not available
- Splice : ZipLink
- Support : none

Remark:

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