Application: Metal Stamping Whirlpool

Data

OEM: Rowe
Environment: Indoor
Product on belt: Flat metal sheet - painted one side

Process description:
The flat metal sheet is feed through a cutter head (painted side up) onto the belt and cut to length. No cutting is being performed on the belt itself. The cut sheet is then transported to a second belt of the same type and size which moves the sheet to a stacker. The end product is a refrigerator.

Belt requirements:
Endless:
All belts must be installed endless or have a covered lace to avoid marking the sheets.

Oil resistant:
The cutter heads are sprayed with a fine mist of Mineral Spirits which can be transferred to the belts.

Abrasion resistant:
The impact of the sheet on the conveyor and the abrasion of the metal on the belt require a solid wear surface.

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Current Belt Problem:

4-ply tan SBR transmission

The problem is splice failure; the flap covering the lacing comes loose, exposing the lacing to the finished sheets. This maybe caused by the mineral spirits breaking the bond between the flap and the belt. Also there is a build up of rubber on the head pulley, being caused by the mineral spirits breaking down the friction on the covers of the transmission belt.

Solution:

Chemprene Blue Smooth Carboxilated ZipLink belt[*]

Using the unique splicing characteristics of ZipLink, a complete belt change can be made easily on location in less than 30 minutes. There is no extensive training required, and no additional equipment.

Belt Replacement Cost Savings Analysis:

Blue Smooth Carboxylated *ZipLink*			*4-ply Transmission*	
Lifetime	: 24mth		Lifetime	: 10mths
Belt cost	: $ 946		Belt cost	: $972
Installation labor	: $ 100+		Installation labor	: $ 250+
			Lap repair	$ 250
Total Cost (24 months)	: $2358		Total Cost (10 months)	: $1472
		minus	Total Cost (24 months)	: $3533

= Yearly Savings using ZipLink: **$1175**

Details:

Minimum pulley diameter	: 4” (102mm)
Center to center distance	: 112’’ (2845mm)
Belt width	: 50’’ (1270mm)
Speed	: 300’/min (91 m/min)
Splice	: ZipLink
Support	: Slider bed

Remark:
In this application there are no special standards required, has no knife edges, no crowning, no reverse bends, no scrapers, and is not troughed.

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