

Application: Wood Sanding

Data

OEM: Timesavers (Model #:3300 Planner/Sander)

Environment: Indoor / abrasive, ambient temperature

Product on belt: Wood of varying sizes and the characteristics

Process description:

The piece of wood to be sanded is placed on a belt and inserted manually into the machine. The belt holds the wood in contact with the sanding heads, which are rotating at high speed, and moves the wood through the machine.

Belt requirement:

High coefficient of friction:

The belt must grip the wood firmly in order to move it through the sanding process with minimum slippage.

Endless:

All belts must be made endless. Laces or mechanical fasteners would damage the wood.



Current Belt Problem:

3-ply Natural Rubber Roughtop belt

There is not enough room to use a press to splice a belt on the machine, so replacing a belt requires dismantling the equipment to install a belt that has already been made endless. This process requires 8 hours of downtime, resulting in a loss of productivity and extra labor charges for the end user. In normal use, the belts require changing about every three months.

Solution:

*Chemprene ZipLink Natural Rubber Roughtop belt**

With ZipLink, a complete belt change can be made in less than 30 minutes. Furthermore the life of the ZipLink Natural Rubber Roughtop is 5 months, 2 months longer than with the old belt.

Belt Replacement Cost Savings Analysis:			
<i>ZipLink Natural Rubber Roughtop</i>		<i>3-ply Natural Rubber Roughtop</i>	
Lifetime	: 5 months	Lifetime	: 3 mnths
Down time (installation)	: 1 hour	Downtime (installation)	: 8 hours
Cost of 1 hour of downtime	: \$250	Cost of 1 hour of downtime	: \$250
Downtime cost	: \$ 250	Downtime cost	: \$2,000
Belt cost	: \$2,200	Belt cost	: \$1,400
Installation labor (in House)	: \$ 0	Installation labor	: \$ 700+
<u>Total Cost (5 months)</u>	<u>: \$2,450+</u>	<u>Total Cost (3 months)</u>	<u>: \$4,100</u>
<u>Total Cost (12 months)</u>	<u>: \$5,880</u>	<u>minus Total Cost (12 months)</u>	<u>: \$16,400</u>
= Yearly Savings using ZipLink: \$ 10,520			

Details:

- Minimum pulley diameter : 3" (76.2mm)
- Crown : 1%
- Center to center distance : 153.3" (3894mm)
- Belt width : 50" (1270mm)
- Speed : Varies
- Splice : ZipLink
- Support : Slider bed

Remark:

In this application there are no special standards required for this belt. Furthermore, the belt will not incline nor decline, has no knife edge, no crowning, no reverse bend, no scrapers, and is not troughed.

***Note:**

Depending on the application a customer may require a diamond top profile (with or without perforations), an oil resistant NBR roughtop or a smooth cover MOR belt (may require counter sunk perforations) all of which are currently available on the ZipLink fabric.

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