

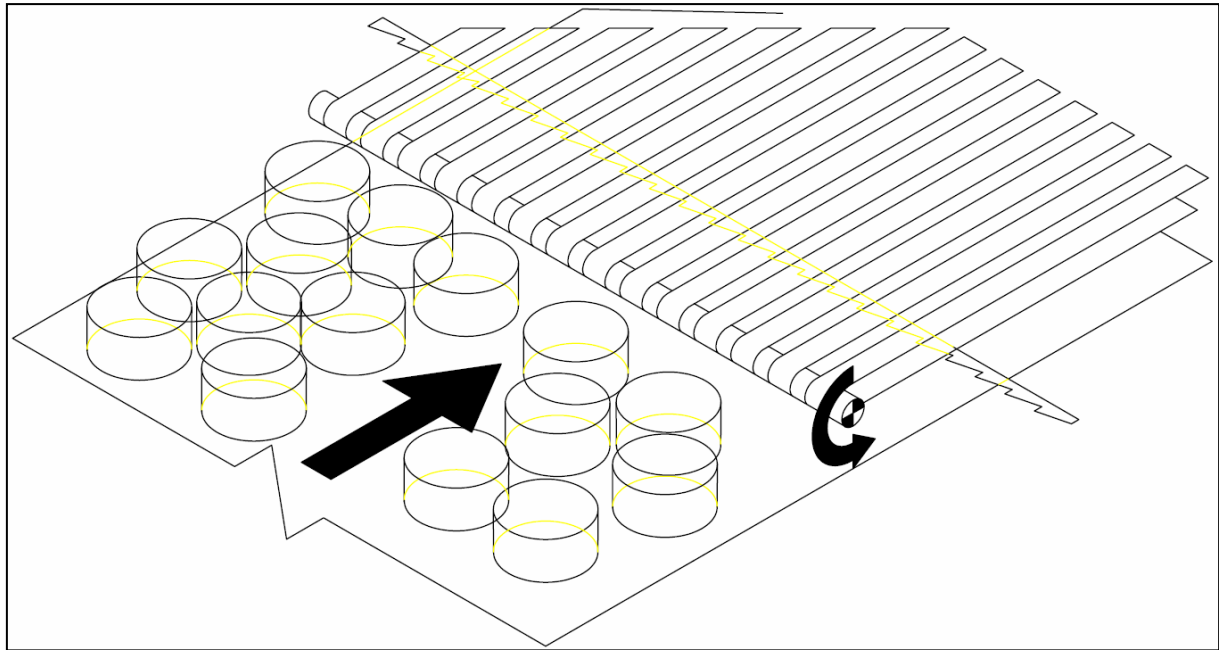
Application: Bun Slicer

Data

OEM: Lamatic
Environment: Indoor, temperature: 90° F (32.22° C) to 115° F (46.11° C)
Product below belt: Bread buns

Process description:

The buns are cut through the middle. This is done by the slicerhead, a knife that is hanging horizontally approximately one inch above the belt that transports the buns. In order to cut the buns in a consistent manner, the buns need to be held down on the belt. This is done with the 14 belts that are running in a gang above the buns. The average thickness of the buns is equal to the distance between the top and bottom belts. In order to maintain gentle pressure and minimize damage to the buns during slicing, the belts are unsupported, and have a moderate degree of vertical travel.



Belt requirement:

Soft top:

The gang belts must grip the buns and hold them in place, but must be soft enough to avoid tearing or otherwise damaging the tops of the buns during slicing.

Current Belt Problem:

3-ply Natural Rubber Roughtop belt

The fabric at the edges of a *3-ply Natural Rubber Roughtop* belt fray in this application. This causes the belt to be replaced every 8 weeks. Replacing this belt is very time consuming, especially since the belts are running in gang and therefore hard to reach.

Solution:

Chemprene ZipLink Brown Nitrile Roughtop belt

The edges of the *ZipLink Brown Nitrile Roughtop* will not fray, resulting in an expected lifetime of approximately 6 months. Furthermore, the *ZipLink Brown Nitrile Roughtop* is easy to splice, which results in a replacement time of only 5 minutes.

Belt Replacement Cost Savings Analysis:

<i>ZipLink Brown Nitrile Roughtop</i>		<i>3-ply Natural Rubber Roughtop</i>	
Lifetime	: >8 weeks	Lifetime	: 8 weeks
Down time (installation)	: 5 minutes	Downtime (installation)	: 2 hrs
Cost of 1 hour of downtime	: \$200	Cost of 1 hour of downtime	: \$200
Downtime cost	: \$17	Downtime cost	: \$400
Belt cost	: \$38	Belt cost	: \$25
Installation labor (in House)	: \$5 +	Installation labor:	: \$52 +
Total Cost	: \$60	minus Total Cost	: \$477
= Savings using ZipLink	: \$417		

Details:

Minimum pulley diameter	: 2" (50.8mm)
Center to center distance	: 40½" (1028.7mm)
Belt width	: 1½" (38.1mm)
Speed	: 90'/min (27.432 m/min)
Splice	: ZipLink
Support	: Unsupported
Number of belts	: 14

Remark:

Since the bread has been baked there are no special standards required for this belt. Furthermore, the belts will not incline nor decline, have no knife edge, no crowning, no reverse bend, no scrapers, and are not troughed.