

SYSTEM PLAST® WEAR STRIPS

NOLU®-S WEAR STRIPS

APPLICATION

Spiral conveyor cooling hamburger buns.

SOLUTION TYPE

Improved production efficiency and increased wear life.

DESCRIPTION OF PROBLEM

A bakery facility produces 24,000 hamburger buns per hour, 24 hours a day, 6 days a week. A spiral conveyor is used to cool the buns for 20 minutes after the oven process. The size of the spiral and the continuous load on the chain made the chain and the wear strip combination crucial. Standard UHMW-PE wear strips made the chain pulsate and required lubrication at several points. The chain pull had to be continuously monitored and alarm protected.

SITUATION

Product: Hamburger buns

Capacity: 24,000 (prod/hr)

Line position: Cooling spiral

Temperature: 86°F

Lubrication: No lubrication

Special Conditions: Warm buns. Low maintenance and upkeep required.

Weight: 3.5 (oz./pc)

Speed: 16.4 (ft/min)

Size: Ø 4" x 2"

SYSTEM PLAST® PRODUCTS SOLUTION

The UHMW-PE bar cap underneath the chain was replaced by a System Plast brand Nolu-S wear strip. The low coefficient of friction from its lubricated material significantly reduced drag between the belt and wear strip.

KEY CUSTOMER NEED(S) AND BENEFITS FROM SYSTEM PLAST PRODUCTS

After the retrofit, the monitoring system showed a significant reduction in the chain pull. The chain pulsation was also reduced, improving product handling and increasing the wear life of the chain. The chain is now running more smoothly and is more efficient.



SYSTEM PLAST® WEAR STRIPS

NOLU®-S WEAR STRIPS AND GUIDES

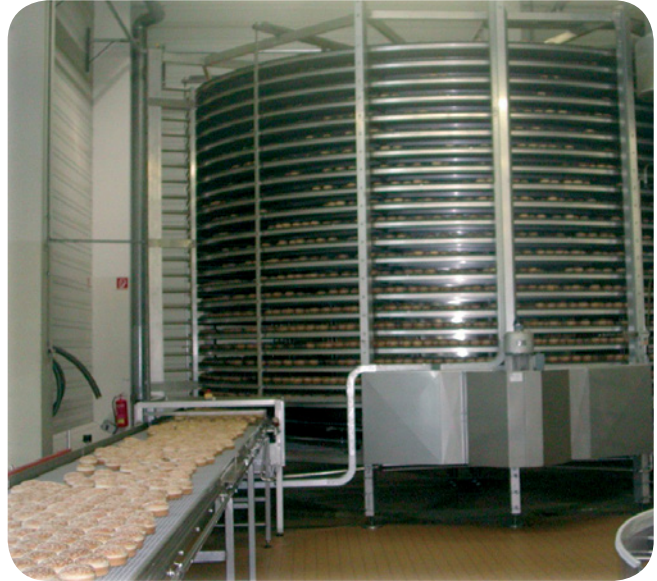
Regal offers a full range of System Plast® Nolu-S wear strips and guides that are made with a blend of UHMW and other dry lubricants. These maintain excellent wear characteristics while significantly reducing coefficients of friction. Its unique self-lubricating properties make it ideal for applications requiring reduced friction, noise reduction, and higher dry-running speeds.

FEATURES

- Extruded or machined
- Very low coefficient of friction - promotes material flow
- High-impact strength
- Chemical resistant with minimal moisture absorption
- FDA & USDA approved ingredients
- Noise suppressant
- Easy to machine – most general power tools are sufficient

BENEFITS

- Extended life of wear strip
- Reduces surface scratching and damage
- Reduces energy consumption
- Minimizes product pulsation on conveyors
- Reduces noise



SYSTEM PLAST®

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APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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