



Application **SOLUTIONS** for Food & Beverage

**SYSTEM
PLAST**

Soft Drink Producer

Application

Air Conveyor for Soft Drink Bottles

Solution Type

Reduced Downtime
Increased Production Efficiency
Energy Savings

Description of Problem

The customer has an air conveyor line that uses a folded stainless steel neck guide. The guide caused irregular tilt and orientation of the bottles, resulting in blockage in the curves and inclines. Also, increased air pressure was necessary in order to keep the bottles flowing at all times.

Situation

Product: soft drink bottles	Packing: PET bottle
Weight: 1.23 (oz./pc)	Capacity: 60,000 (pcs/hour)
Speed: 656 (ft/min)	Size: Ø 2 x 6 (in.)
Line position: air conveyor	Temperature: 68° F - 104° F
Special conditions: Empty bottles in air conveyor; no cleaning	

System Plast™ Solution

The System Plast Nolu-S Neck Guides eliminated the bottle jams and excessive downtime. At the same time, the air pressure was reduced by 50%.

Product/Part Description

Nolu-S Neck Guide

Key Customer Need(s) and Benefits from Emerson Product:

The Nolu-S Neck Guides significantly reduced the coefficients of friction causing the bottle jams. Significant savings were made on power costs and the production efficiency was raised by as much as 75%. Also, the Nolu-S material stopped any scratches being made on the bottles, while allowing for faster production speeds.




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Features and Benefits

System Plast™ Nolu-S Neck Guides

Nolu-S Neck Guides are used to guide containers, especially PET, in applications such as air conveying. Many air conveyor users and manufacturers have found that brush guides tend to get contaminated with debris. This causes increased friction and marking of PET bottles. Also the bristles can wear quickly and/or fall out.

Nolu-S material is a blend of UHMW and other dry lubricants that 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

Benefits:

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



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APPLICATION CONSIDERATIONS

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