



SKF Dry Lubrication System for Conveyor Lines

Benefits

- Cost savings by eliminating high volume of water and soluble lubricant
- Improved operator safety by reducing slip hazards
- Quality of packaging is maintained by elimination of moisture
- Reduced risk of product contamination by avoiding microbiological growth
- Enhanced line efficiency by avoiding replacement costs and associated unplanned production stops
- Reduced cleaning costs

Typical applications

- Conveyors in water and soft-drink, dairy bottling plants using PET, carton or can packages

Improve safety, quality and efficiency by eliminating water and soluble lubricants

Flat top conveyor chains used in bottling plants require constant lubrication to prevent high friction between packages and chains in accumulation areas. The typical solution is to apply high volumes of a water and soluble lubricant mixture, which can cause operator accidents due to slippery floors, or package quality issues resulting from organic development and moisture formation. The humid atmosphere can cause corrosion, which leads to replacement costs and reduced line efficiency. Additionally, organic development can cause lubrication system failure and leads to increased cleaning costs.

The SKF Dry Lubrication system eliminates the need to spray thousands of litres of water and soluble lubricant. Instead, this flexible and completely automated system applies a small amount of SKF Dry Film Lubricant (NSF H1 certified) on the conveyor chains and guides. As a result, the floors are dry, the lubricant consumption is minimal, and



Photo courtesy of Krones Inc.

SKF Dry Lubrication System reduces waste of water and enhances operator safety

there is no more waste water, no moisture on packages and no corrosion.

A complete solution, the SKF Dry Lubrication System includes: the dry film lubricant; a central unit, pipes, and stainless steel dosing units for delivering the lubricant to the chains; and installation services. With the capability to serve up to 200 lubrication points, systems are available for all bottling line sizes.



Self-contained central unit protects the piston pump, the reservoir and the programmable control unit

For more information about SKF products and solutions for the food and beverage industries, contact your SKF Authorized Distributor or local SKF representative.



Increase the return on your maintenance investment with SKF

The whole idea behind the SKF 360° Solution programme is to help you get more out of your plant machinery. Whether your goals include lowering maintenance costs, raising productivity, or improving safety, hygiene and sustainability, SKF can assist. Following is an example of the SKF 360° Solution programme at work in the food and beverage industries.

Manufacturer improves safety, line efficiency, reduces waste in water bottling lines

A manufacturer operating water bottling lines using PET packaging, lubricated the line's conveyors by spraying large volumes of water mixed with soluble lubricant. This created a highly humid environment and caused related problems including slippery floors, foam formation, plant inefficiencies, energy waste, the potential risk of organic growth, and the need for frequent

cleaning. The customer wanted to enhance operator safety, improve plant efficiency and reduce waste.

The SKF Dry Lubrication System provided a highly effective solution, while delivering additional benefits in cost savings. Over a five-day planned shutdown, the SKF Dry Lubrication System was installed. The system was set up to lubricate 90 flat top chains, with 200 lubrication points. In one lubrication line alone, the system resulted in savings of € 15 700 per year in lubricant and water costs, and cleaning expenses.



Photo courtesy of Sidel Group

The SKF Dry Lubrication System reduces friction in accumulation areas

Summary*

Monthly savings in soluble lubricant	320 litres
Monthly savings in water	90 m ³
Monthly savings in cleaning (man hours)	12 hours
Total cost savings (one conveyor line, per year) . . .	€ 15 700

Including cost of SKF Dry Film Lubricant

Additional benefits were realized in enhanced packaging quality, and in operator and product safety.

* All figures are rounded off and based on customer estimates

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