

# PROBLEM SOLVER

## ALL THE LUBRICATION YOU NEED ...



**Problem:** Coca-Cola was operating with an external lubrication system on a 30,000 bottles per hour PET filling line. Coca-Cola were looking to streamline the operation to eliminate additional lubrication costs and extra maintenance intervals.

**Solution:** In 2010 Rexnord started a development project to find a new engineered plastic for conveyor chains, with the goal to make "dry running" with PET bottles possible. The development included an extensive test program and, next to internal laboratory testing, several field tests in a high-speed PET filling line at Coca-Cola Drongen, in The Netherlands.

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Food and  
Beverage



Ref: P3117

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In 2014 the best performing material in the tests was selected for a final validation test with the duration of one year. The line has been running without external lubrication for the complete duration of the validation test. Fixed measurement points in various positions in the line, showed the friction level of the **Rexnord Dry-PT™ Material** could be kept at a constant low level and, in case of conveyor contamination, a simple cleaning with water restored the original friction values. The constant low friction is important to maintain the optimal bottle flow and have minimal backline pressure on the bottles during accumulation.

The chains in Rexnord Dry-PT™ Material show minimal wear after more than one year of continuous use. No replacement is therefore required for the near future. This means costs for maintenance to the conveyors are not impacted, giving Coca-Cola the full benefit of the dry running solution and savings on expensive lubrication.

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