# Contamination-Free **Food Production** with RotaLube

# Case Study

## Challenge

A leading chip manufacturer faced reliability issues with their two-line dryer, causing increased downtime and production losses. The primary issue was excessive lubrication on the chain rails, leading to product contamination and frequent maintenance.

Losses were estimated at £2,500 per hour due to cleaning, product waste, and excess lubricant use. The company used an automated spray lubrication system, but it was ineffective. Poorly positioned nozzles led to inconsistent lubrication, causing both under- and over-lubrication.

Additionally, the system dispensed more lubricant than necessary, leading to waste, environmental concerns, and further contamination. The manufacturer needed a more precise lubrication solution to improve reliability and reduce costs.

- A chip manufacturer faced downtime and contamination from excess lubrication on their line 2 dryer, leading to costly cleaning, maintenance, and £2,500 per hour losses.
- The previous spray lubrication system was ineffective, causing inaccurate application, over-lubrication, waste, environmental contamination, and higher maintenance.

## Solution

For precise and reliable lubrication, we suggested the Stainless-Steel RotaLube for the food industry. Featuring a stainless-steel hub and sprocket, bronze lining, and Viton seals, ensuring durability and accuracy in harsh conditions.

Resistant to washdowns, chemicals, and high heat, it delivers dependable performance. Its GX pump, with a 6L reservoir and 24V DC motor, efficiently supplies lubricant, while an air solenoid and mixing valve regulate airflow and oil distribution for accurate application. This minimises waste, extends chain life, and reduces downtime.

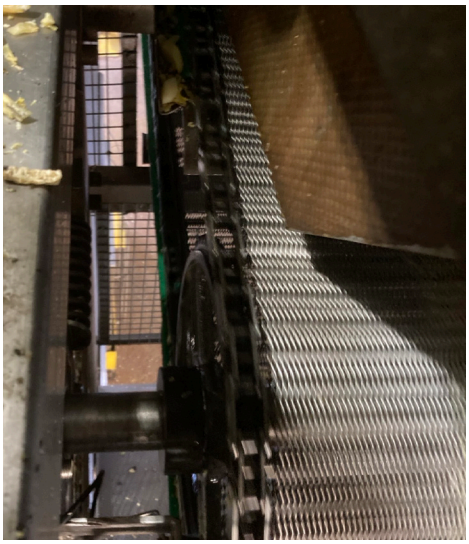

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*Photo: Newly installed RotaLube System.*

*Photo: Stainless Steel RotaLube.*

## Results

After the installation of the system, the customer experienced significant improvements in their operations. The downtime was dramatically reduced, saving the customer approximately £2,500 per hour, the system also reduced issues caused by excessive lubrication and contamination on the chain rails.

The new system, designed specifically for stainless steel environments, also helped with accurate lubrication delivery to the chain. This helped to maintain a consistent performance by preventing blockages and improving the nozzle efficiency.

As a result, the customer saw an increase in uptime, reduced maintenance costs and a more reliable production process, allowing them to operate at full capacity with fewer interruptions.

The new system cut downtime, saving £2,500/hour and preventing contamination from over-lubrication.

Designed for stainless steel, it ensures precise lubrication, prevents blockages, and improves nozzle efficiency.

Increased uptime, lower maintenance costs, and smoother, more reliable production with fewer interruptions.

## Line Dryer

A line dryer is a drying unit in an industrial process, particularly in manufacturing methods like food processing. In these industries, the dryers are used to remove moisture from materials or products, ensuring that they meet quality standards for further processing or packaging.

The two-line dryer is usually the second drying stage in a production line, they are often fitted with technology to control temperature, air circulation and humidity.

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