KLÜBER LUBRICATION

your global specialist

Greater efficiency for your filling line.

A new conveyor lubrication solution for the food industry

Greater efficiency for your filling line

Conveyor belts – a challenge for efficient lubrication

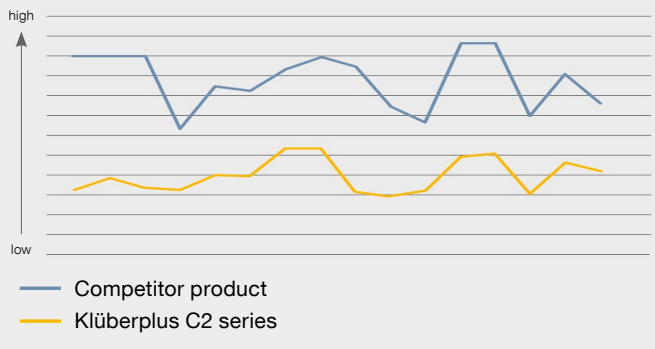
Lubrication of belt conveyor systems is one of the critical challenges you as a beverage producer face in improving operational efficiency. Other, equally important objectives include saving water and meeting sustainability objectives. The challenge for conveyor lubrication is posed by three application points which need to be lubricated effectively. Friction occurs **between the packing material and conveyor belts, between the chain joints and between the conveyor chain and conveyor support slide bar.** A lubricant should prevent wear in these three areas and also minimise the coefficient of friction.

Your solution for optimal lubrication

The **Klüberplus C2 series** of conveyor lubricants has been developed for carton, PET and metal can lines. All challenges which customers currently face and which are not addressed by existing conveyor lubricants were taken into account during product development. As a result, we have a product concept that has proven its worth both on test rigs and in field tests. The product has shown excellent performance in its core task as a lubricant, which is to reduce friction and wear.

The product also provides:
- Optimised wetting – consistent lubricant films on the conveyor
- Extremely low lubricant consumption
- Less residue formation on chains – better hygiene
- Cleaning effect – less additional cleaning required

Reduced coefficient of friction throughout filling line



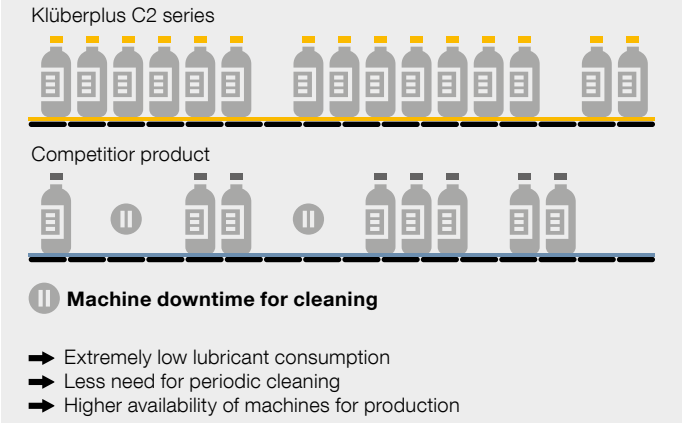
Measured at different points on the production line at a mineral water producer's facilities in Germany

Operational cost and productivity – what a conveyor lubricant can contribute

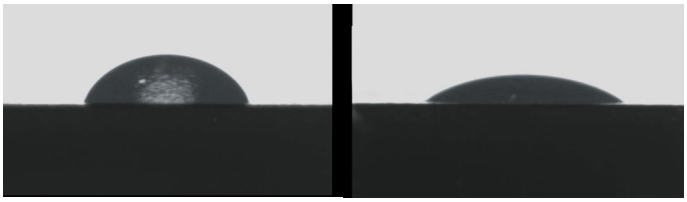
Conveyor lubricants also need to minimise residue formation and ensure chains run cleaner. As a result, the overall need for periodic cleaning and, consequently, water usage can be reduced considerably. This, in turn, contributes to an overall improvement in operational efficiency and a sizeable reduction in operational costs.

If you want to improve your operational efficiency, you need to ask yourself this question: does my current conveyor lubricant meet this challenge?

Potential to increase your productivity



This diagram is not the accurate depiction of a field application

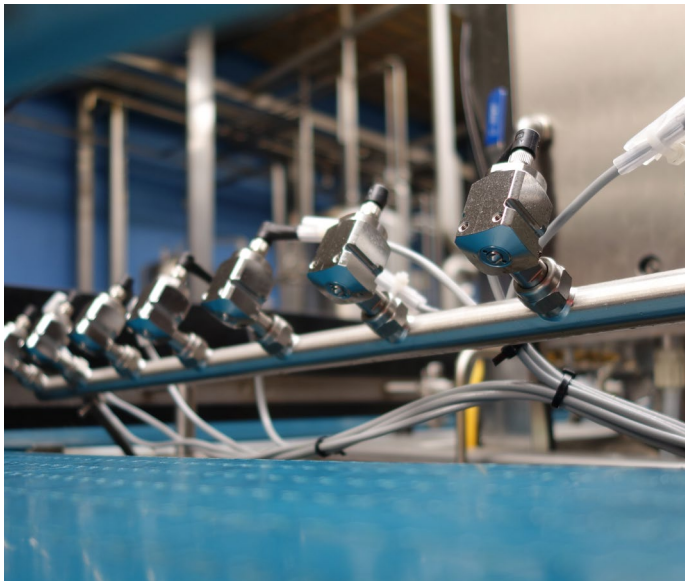


Wetting properties of a competitor product (left) and Klüberplus C2 series (right). The silicone-based competitor product does not spread well, so a great deal of lubricant is spilled on the floor. Klüberplus C2, on the other hand, spreads quickly, so less lubricant is wasted.

Lubricant and spraying system – a perfect team

The current dosing systems on the market have one major limitation: they cannot dose a precise quantity for each chain track. This results in over- or underdosing, leading to a higher coefficient of friction. Klüber Lubrication has teamed up with spraying system specialist Löhrke to offer you a specialised spray nozzle for very fine, precise and efficient lubricant application. The lubricant quantity and intervals can be adjusted individually for each chain track.

- Special nozzles ensure conveyor belt is wet across its entire width
- Quantity applied can be adjusted as required. Nozzles can be controlled individually
- Conveyor can be divided up into sections for separate control
- Existing systems can be retrofitted with ultra-dry nozzles to combine with existing standard technology in critical areas such as buffering tables
- Conveyor belt performance can be optimised, bringing an increase in production



Four areas of impact and improvement – benefits from the Klüberplus C2 series

Lubrication

- Minimal lubrication leads to less residue formation
- Less wear on the conveyor chains – leading to longer chain life and potential energy savings
- Consistent lubricant film on conveyor belts and excellent lubricant wettability produce higher operational reliability

Cleaning

- Reduced cleaning effort due to less residues building up
- Lower water consumption, leading to better sustainability results

Operational cost

- Lower lubricant consumption, less product needs to be kept in stock
- Longer chain component life, fewer spares needed
- Availability of working capital
- Longer cleaning intervals leads to reduced downtime, lower cleaning agent consumption and better machine availability

Hygiene & Safety

- Less residues on chains, resulting in better hygiene
- Less lubricant and water on the floor leading to better work safety

The description refers to a standard application, where migration of lubricant through packing material is excluded and recirculation of food material is prevented. Please contact our experts for more information.

www.klueber.com

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 85 years.

a brand of FREUDENBERG

F110000702 / Edition 09.17
Publisher and Copyright:
Klüber Lubrication München SE und Co. KG
Geisenhausenerstraße 7, 81379 München, Deutschland, HRA 46624
www.klueber.com