

your global specialist

Industrial sector

In the best possible taste

Speciality lubricants for the food-processing industry



Having the right lubricant pays off

Reduce operating costs, increase profitability

The manufacturers of food products and beverages have to make the most of their production machinery, including maximum food safety, maximum production output, minimal costs, with minimum labour. These goals can be reached in several ways. One of the major contributors, however, is often disregarded: the choice of

Speciality lubricants made by Klüber Lubrication help to reduce labour cost, spare parts cost and energy consumption.

the right lubricants and how they are applied.

Among plant operating costs, lubricants account for only about one per cent of the total budget. Yet they have a major influence on the total operating costs. Good lubri-

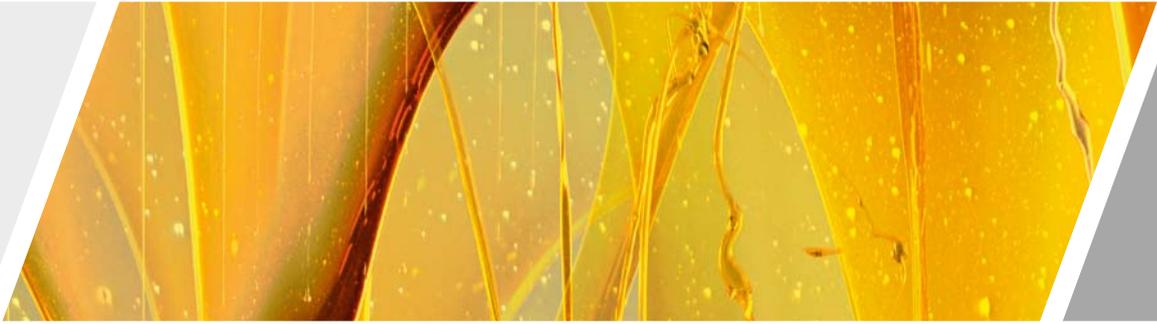
cation management will have a tangible effect on the three biggest items in operating costs:

- Labour (time) due to longer maintenance intervals
- Components (spare parts) due to longer component life
- Energy consumption due to a higher efficiency

When choosing your lubricants, consider more than just the actual purchasing costs. It's good to bear in mind how much lubricant you are going to need, how often you will have to re-lubricate, how much time relubrication will take and how often your machines will have to be stopped. If relubrication intervals become longer, you will consume less lubricant and have less to send for disposal. This will not only save you money but reduce your impact on the environment as well. The same applies to spare parts because special lubricants made by Klüber Lubrication make components last longer.

Of course, the right lubricants applied in the right quantity also ensure that machines run without problems. Some maintenance tasks including lubrication can be performed while machines are running, while for others they have to be stopped. Each time your machines stand still and you cannot produce results in a loss of revenue.





Increase food safety

The selection of the right lubricant can also play a major role in food safety. We have all heard through the press of product recalls costing the manufacturer enormous time and money – if not their reputation. Even a minor contamination of a food

Special lubricants from Klüber Lubrication make a major contribution to food safety.

product with lubricant, which cannot always be technically avoided, can have severe consequences.

Innumerable regulations have to be observed in the production of food: on hygiene, regarding the ma-

chines or the materials used. Maintenance technicians, production- and quality managers have to take all these regulations into account for the selection of lubricants. Global manufacturers, in particular, have to invest a lot of time in these matters as rules and regulations may vary from one country to another.

As a manufacturer of food products, you will not be content just to have lubricants that comply with legal regulations. You also expect them to be physiologically safe, neutral in taste and odour, they should reduce friction and wear, remove heat and seal components.

Professional lubrication solutions for complex requirements

It is especially for these requirements that Klüber Lubrication have developed a wide variety of special lubricants – for all sectors of the food-processing industry, for all components, for all tricky special applications. The range of lubricants that are registered for example under ISO 21469, as NSF H1, halal and kosher allows

Special lubricants made by Klüber Lubrication have numerous certifications relevant to the food-processing industry.

us to typically lubricate the complete production line with approved lubricants.

From several decades of close cooperation with food manufacturers, Klüber Lubrication knows this sector and its particular requirements very

well and uses this know-how for the development of lubricants as well as for customer consultation. With Klüber Lubrication as your partner, you can count on a lubrication expert who offers more than a standard range: if necessary, Klüber Lubrication will develop solutions tailored to your individual needs.

Better performance and higher product responsibility

NSF H1 special lubricants made by Klüber Lubrication offer technical performance that is at least as good as, sometimes even better than that of conventional industrial oils or greases. The core range of gear oils from Klüber Lubrication, for example, all offer higher efficiency, longer service life and more reliable operation than standard oils – and hence lower operating costs.

NSF H1 lubricants from Klüber Lubrication enable a maximum of technical performance combined with more reliable production processes.

Due to the high performance capabilities of our lubricants, we normally recommend customers in the food-processing industry to change over completely to NSF H1-registered lubricants in their plant – which is in fact what many food manufacturers have already done. This helps them to prevent industrial lubricants or H2 lubricants being used instead of H1 lubricants by mistake. In addition, they reduce the number of lubricants used in their plant with the resulting lower storage costs.

Klüber Lubrication stands for maximum product responsibility. As one of the first companies in Europe, and the first in North America, to have gained ISO 21469 certification by NSF, the leading global institution for certification programmes in the food and drinking water sectors, we have shown that we are capable of increasing the level of safety in your production process.





NSF H1 and H2 registrations and more

Lubricants registered for use in the food-processing industry are classified as either NSF H1 or H2 lubricants. H1 lubricants are intended for applications where incidental, technically unavoidable contact with the food product may occur. These lubricants are manufactured strictly in line with FDA 21 CFR § 178.3570 requirements. NSF H2 lubricants, on the other hand, are intended for use in the food- and beverage industry where any contact between the lubricant and the food product is excluded.

Additionally, we offer an NSF 3H product (release agent) and a surface cleaner registered as NSF K1 and K3.

Klüber Lubrication – utmost service

Klüber Lubrication is more than a manufacturer of speciality lubricants. We also offer our customers continuous support with our comprehensive range of services – the KlüberServiceSystem, which has a modular structure to enable a tailored service package to be created for each individual customer.

- KlüberConsult for all individual questions
- KlüberCollege for training your staff
- KlüberLubConcept for the creation of lubrication charts, the use of dedicated software and the labelling of lubrication points
- KlüberMonitor for monitoring the condition of the lubricants used and your machinery
- KlüberMaintain for the cleaning and relubrication of machines
- KlüberAssetSupport for the utilisation of potential for improvement

To keep customers up-to-date on, for example, new legal requirements, new developments or other important aspects concerning lubrication, Klüber Lubrication offers seminars and training programmes for plant operators and machine manufacturers.

We also provide training for your employees to learn how lubricants are best applied: when, where, how much and using which technique. This will save a lot of working time in the long term and reduce lubricant and maintenance costs. It also increases process reliability

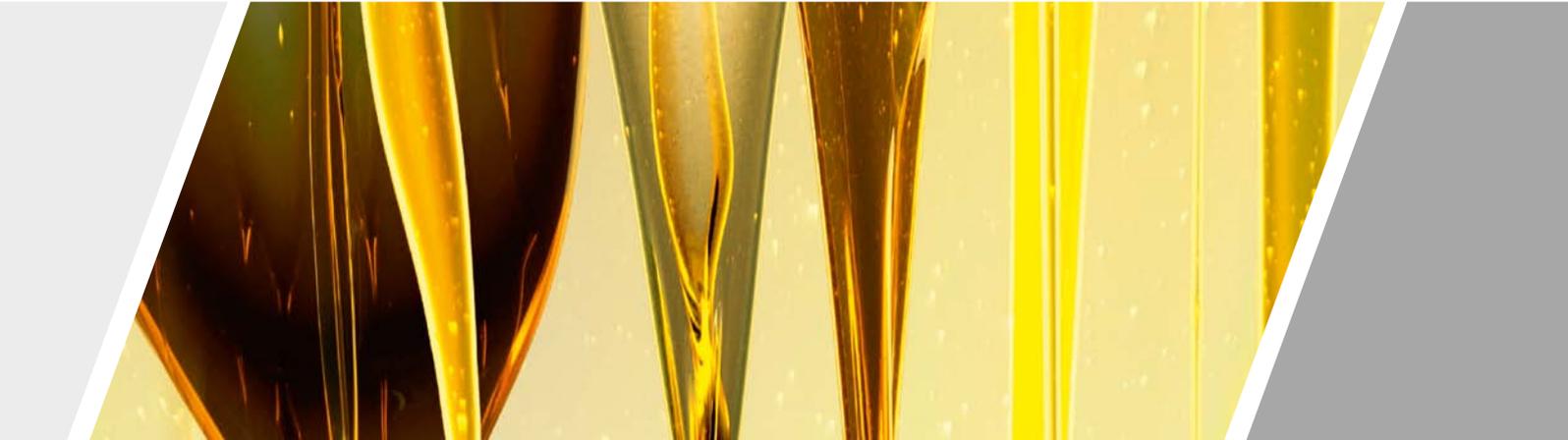
The KlüberServiceSystem helps you optimise processes and attain significant savings.

by avoiding mistakes in the first place.

Furthermore, Klüber Lubrication

offers KlüberAssetSupport, a programme aimed at supporting customers with bestpractice methods. Intensive consultation with customers on their premises can help them optimise lubricant consumption, relubrication intervals and hence the associated costs. Based on the information we obtain from you, we will develop a lubrication concept tailored to the needs of your plant – a concept destined to help you reach your goals.

In short, buying lubricants from Klüber Lubrication means buying excellent performance, comprehensive expertise and the satisfaction of advanced lubrication management for your operation.



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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 80 years.



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