



Quality is our Advantage

Lubricants ■ Lubrication Technology

Along with a wide lubricant portfolio, LUBCON offers innovative solutions in lubrication technology. This enables us not only to help you with the selection of the best suited lubricant for your application, but also to improve the optimization of your manufacturing process.

Among others, our product range includes:

### Greases and Pastes



High Temperature Greases



Greases for the Lubrication of Ball Screws



Assembly Pastes



Bearing Greases



Vacuum Greases



Transfer Greases



Gear Greases



Hydraulic Greases



Compressor Greases

### Oils



High Temperature Oils



Cutting Oils



Silicone Oils



Chain Oils



Vacuum Oils



Transfer Oils



Gear Oils



Hydraulic Oils



Compressor Oils



Sprays



Pastes



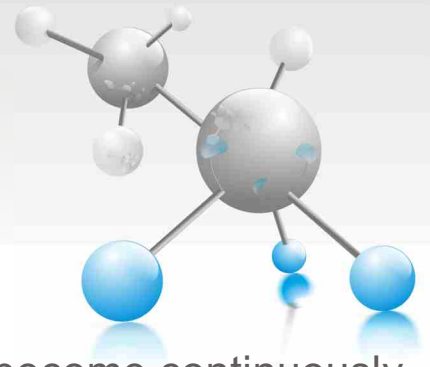
Dispersions  
Suspensions  
Emulsions



Powders

To simplify the maintenance and service of your machines, LUBCON offers a wide choice of packaging units and product designs.

# Lubricants and Lubrication Technology from **One** Supplier



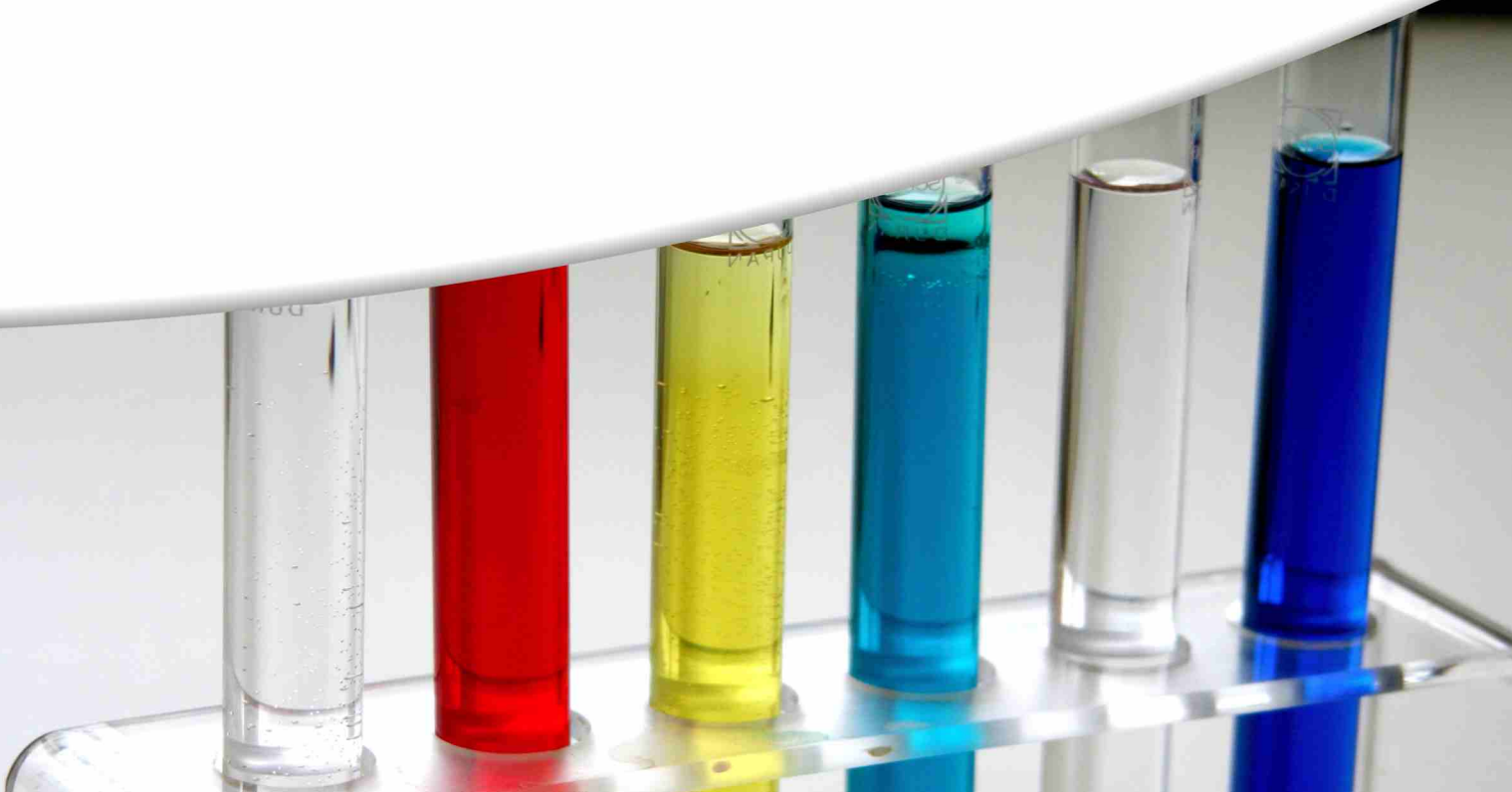
The requirements in modern production plants have become continuously more complex. Reducing production times and increasing service life of the machines require the highest precision and reliability. LUBCON is the partner by your side, worldwide.

Lubricants have always been an integral part of mechanical components and have an essential influence on the function, performance and lifetime of equipment. Beginning at the machine design phase, lubrication has to be incorporated.

Today's machines must endure high temperatures, huge load capacities, aggressive environments, extreme speeds and extraordinary application demands. These machines require new and high-grade lubrication technologies to ensure economical and efficient production.

In order to substantially improve reliability and performance, LUBCON has developed and tested a wide product portfolio of high-tech special lubricants in close collaboration with machine equipment manufacturers.

LUBCON not only assists you in selecting the best lubricant, but also advises you regarding appropriate lubrication techniques. With expertise in both lubricants and application techniques, we are able to meet your individual requirements and offer innovative solutions for all your lubrication needs. From minimizing friction and wear up to the systematic application and supply of the lubricant, LUBCON is your full service provider.



# Quality Starts with the Selection of the Raw Materials



LUBCON's continuous scientific development and research in the fields of tribology as well as the close collaboration with our suppliers and OEM's ensures the highest quality of our products as well as new innovations.

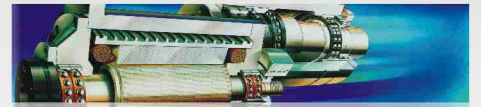
The utilization of specially selected high quality raw materials such as oils and additives, guarantee the continuous quality standards of our products worldwide and is the base for the excellent performance of LUBCON lubricants.

The quality of our raw materials is assured through careful scrutinisation and control from receipt and passes for further processing only after approval from our in-house laboratory. All steps during the manufacturing process are subject to stringent production controls, thus ensuring the highest quality standards.

The combination of the latest production technologies and the qualification of our staff, continuously secures and improves the quality of our products and processes. This enables us to attain our future goals.

We also emphasise great importance to the adherence of the quality and environmental standards DIN EN ISO 9001 and 14001 for the protection of environmental resources.





## High Performance Lubricants for Industry

Industrial applications require unique solutions. LUBCON offers a sophisticated product range, which has been developed and successfully tested in cooperation with machine equipment manufacturers over many years.

Lubricants carry loads and are directly exposed to thermal and mechanical operating conditions. Choosing an inappropriate lubricant or lubrication technique may considerably decrease the lubrication efficiency and even result in total failure of components. Premature breakdown and associated production losses are the consequences.

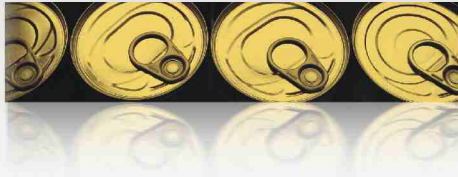
In order to avoid unnecessary costs and to improve the reliability of the machine components, modern lubricants as well as intelligent lubrication technologies are required. Lubricants produced by LUBCON, not only reduce friction and wear but also increase operational reliability. An optimum selection and application of lubricants can significantly contribute to the reduction of unexpected production breakdowns.

Regardless of extreme cold, heat, humidity, load, aggressive media or extreme speed – our product diversity covers every demanding application. This results in optimum lubrication capabilities and therefore reliable performance of machinery at all times.

For application in the food industry or in areas where lubricants may come in direct contact with the food, LUBCON offers a wide range of food grade approved (H1) lubricants, which are recognized as physiologically harmless and meet the requirements of the NSF/InS.



# From Development Stage to the Final Product...

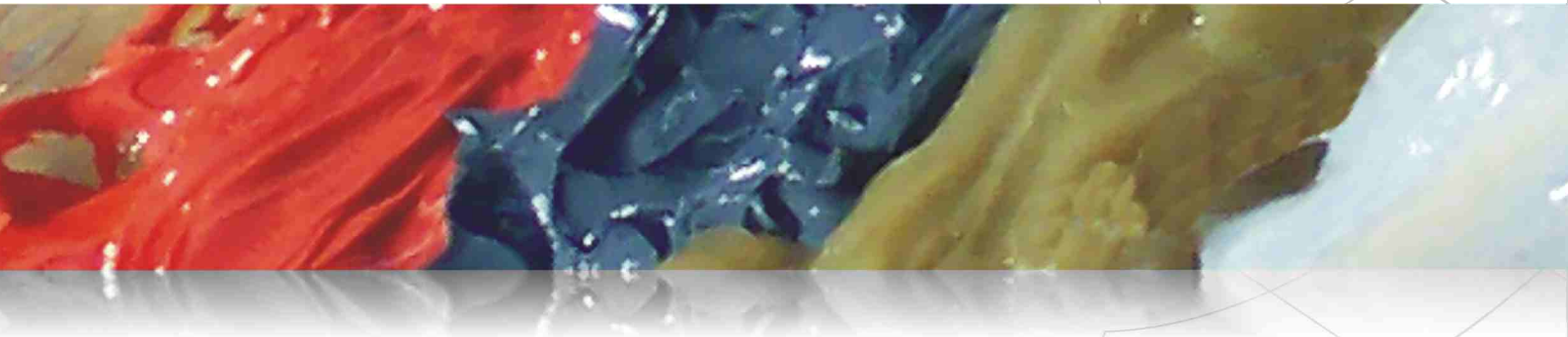


## ■ Corrugated Industry

The highly demanding production conditions in the corrugated industry require bearing lubricants which are designed for extreme operating conditions and which feature long lubrication cycles for high volume production. In addition to the wide range of food grade cutting, hydraulic, gear, cleaning and conservation oils, LUBCON offers a novel technology of bearing lubrication in case of high temperatures. The unique combination of perfluorinated polyether (PFPE) and lithium thickener, like our product Turmotemp LP 2502, offers optimum protection against corrosion and wear up to operating temperatures of 260 °C (482 °F).

## ■ Paper and Printing Industry

All of the machine parts in the printing and paper industry are continuously exposed to high loads. A few of the challenges for lubricants are extreme amounts of water and humidity when cleaning the wooden fibres, high temperatures in the drying ovens as well as the finest and abrasive paper fibres, which deposit on bearings, joints, cutting discs, chains, linear and ball guides. The complexity of every machine part and the extraordinary operating conditions were our incentive to develop sophisticated and high performance lubricants. LUBCON lubricants are custom engineered for the requirements of modern paper and printing machines and offer the required precision and operational safety.



## ■ Food, Beverage and Pharmaceutical Industry

Increasingly stringent health and safety regulations, the usage of partly aggressive media as well as the high performance requirements of the machine, place enormous strain on the lubricants for the food and beverage industry.

The odorless and tasteless greases and oils from LUBCON, which fulfil the requirements of NSF/InS, are applicable at all lubricating and friction points in the food processing industry. They support extreme operating conditions, increase the performance of the production equipment and are classified as physiologically safe – a precondition for application in food and beverage processing plants.

## ■ Machine Tool Industry

The constant increase in productivity, in combination with high safety standards and environmental protection, requires high reliability and precision of modern tool machines. In order to secure optimum production, safety and process stability, even under critical conditions, LUBCON offers a very wide spectrum of greases, oils and pastes as well as technical support. Over many years of cooperation with manufacturers of tool machines and spindles, we were able to create a range of highly sophisticated products, which meet the performance requirements of modern machinery. Excellent wear protection, noise reduction, adhesion and pressure absorption as well as excellent media resistance allow a huge increase of lubrication intervals while increasing efficiency.



# ... We Are There at All Stages

## ■ Wood Working Industry

High speeds and high temperatures generated by moving components create huge demands on lubricants in modern production plants and especially in the wood working industry. The increase in quality standards and productivity and the decrease of operating costs are the most prevalent demands of machine manufacturers and end-users. In order to meet these requirements, LUBCON high performance lubricants not only fulfil the application specifications but also help machine users to considerably reduce operation costs. Lower friction values reduce the oil consumption and evaporation losses while maintaining constantly high efficiency levels.

## ■ Textile Industry

Our lubricants for the textile industry have been especially developed for long-term and lifetime lubrication. Our product portfolio contains efficient lubricating greases, oils and pastes for numerous applications in cotton or synthetic fibre machines, knitting and weaving as well as textile finishing machines to reduce significantly friction and wear. The latest technologies improve bearing service life and reduce residue formations, thus allowing reduced heat generation and permitting energy cost savings. The excellent adhesion properties as well as the high wear protection of our lubricants considerably extend lubrication intervals and increases operational safety.



## ■ Bearing Industry

In order to achieve long-life operation as well as high safety and bearing efficiency, three important parameters have to be satisfied: temperature, load and rotational speed.

LUBCON high performance lubricants successfully surpass various qualification testing of well-known bearing manufacturers, in the laboratory as well as in practice. This is achieved by reaching excellent running capacities and speed values up to 3.0 Mio. nxd<sub>m</sub>.

Our highly sophisticated temperature and load resistant lubricants are specifically tailored to the application requirements. They offer excellent lubricating properties for any bearing type and application.

## ■ Vacuum and Nuclear Industry

Modern industry is difficult to imagine without vacuum technology which applies to numerous applications in different areas. The impact of various processing media as well as extraordinary operating conditions have placed high demands on lubricants. Therefore the lubricants should be matched to specific processes. Besides an optimum lubrication capability, LUBCON lubricants show good sealing behaviour, significantly reduce heat at the friction points and offer excellent corrosion protection over long periods. Regardless whether fittings, seals, bearings or gears: Our special lubricants are applicable within the vacuum range up to 10<sup>-9</sup> mbar. They considerably extend the oil change intervals and offer high oxidation stability as well as high pressure, vacuum and media resistance.

# Optimum Maintenance – More Important than Ever...



Our experienced and qualified staff makes LUBCON your competent partner for customer-oriented solutions in all lubrication techniques. Not only do we offer efficient automatic lubrication but also integral solutions in maintenance.

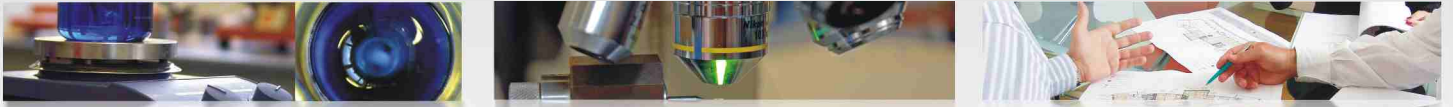
Maintenance quite often results in compromises, which are not always beneficial to operational safety. Thorough maintenance requires well-trained staff and seems to be in conflict with production capacity. Experience shows that lubrication is often being handled under time constraints and results most often in over or under lubrication which can cause premature bearing failures. More than 60% of all early bearing failures can be attributed to insufficient maintenance.

Automatic, user-friendly lubricating devices enable an optimum lubrication of rolling bearings and other machine components. They considerably extend maintenance intervals and permit a performance oriented and cost-efficient operation.

Practice oriented educational seminars for maintenance staff, which are held in our facilities as well as at the customer's location, contribute to better understanding of lubrication technology. In close cooperation with the customer and consistent with the Total Lube Management (TLM) we organize the customers' lubricant stock and handling upon request. This enables just-in-time delivery of our products and assures the proper utilization of the lubricant for the right application.







## Our **Experts** are at your Side at Any Time

Customer satisfaction is our top priority. Along with a well equipped laboratory for research and development LUBCON established a worldwide distribution network with qualified partners. This network allows flexibility, customer proximity and professional service.

Specialists from different industrial areas are working intently to satisfy the individual requirements of our customers – an important prerequisite for lubricant development and optimum lubricant selection.

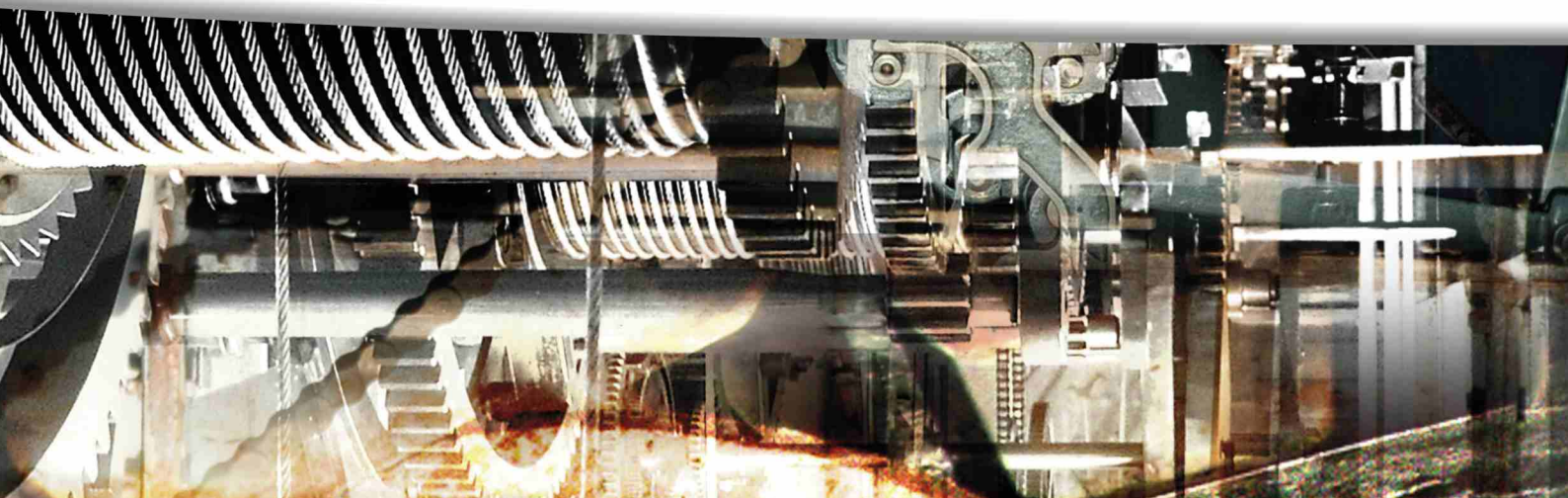
LUBCON gives you the needed support, whether you are designing a new production line, converting your existing machines, need support to optimize your lubricant supply or if you simply decide to organize your lubricant stock.

Our worldwide networked team of experienced chemists, technicians and engineers assists you with every lubrication inquiry, starting from the appropriate lubricant selection up to the proper utilization and storage of the products.

Advanced calculation methods, an extensive test field and an innovative team are available for you at any time. We will consult with you on every application and type of bearing as well as lubrication techniques to ensure optimum efficiency.

The consolidated knowledge of our experts in analyzing bearing failures is also at your service. Sophisticated analysis methods of bearing components, lubricant analysis as well as systematic survey of operation conditions are utilized and well documented.

With your collaboration we get to the root cause of damage, compile solutions and support you throughout the entire improvement process.



# Together we make Plans for the Future



From development and design up to worldwide distribution: Our work is the foundation for the confidence placed by our customers and sales partners in the performance of our first-class products. This has been our mission for over 30 years.

LUBCON produces more than 2500 different products and offers the perfectly suited lubricant for every application in nearly every industrial area. The comprehensive stock and the just-in-time production system secure a quick and on-time delivery of the required product all around the world. LUBCON lubricants are available in various packaging sizes, which enable us to supply the customer with the correct and most suitable quantity.

The handling of lubricants requires appropriate equipment and qualified staff; from the oil dispenser to complex central lubrica-

tion systems, from the dispatch of data sheets to the technical training of your local maintenance staff. All factors that we contribute can help you achieve an optimum lubricant supply that will lead to increased performance for your processing plant.

We can help you organize and rationalize your lubricant stock, create demand planning and secure long-term availability of the required lubricants.

[Contact us to experience our expertise first-hand!](#)



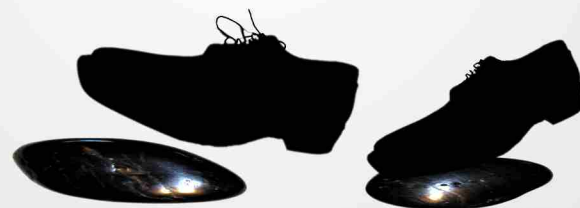
Implementation



Development



Optimization

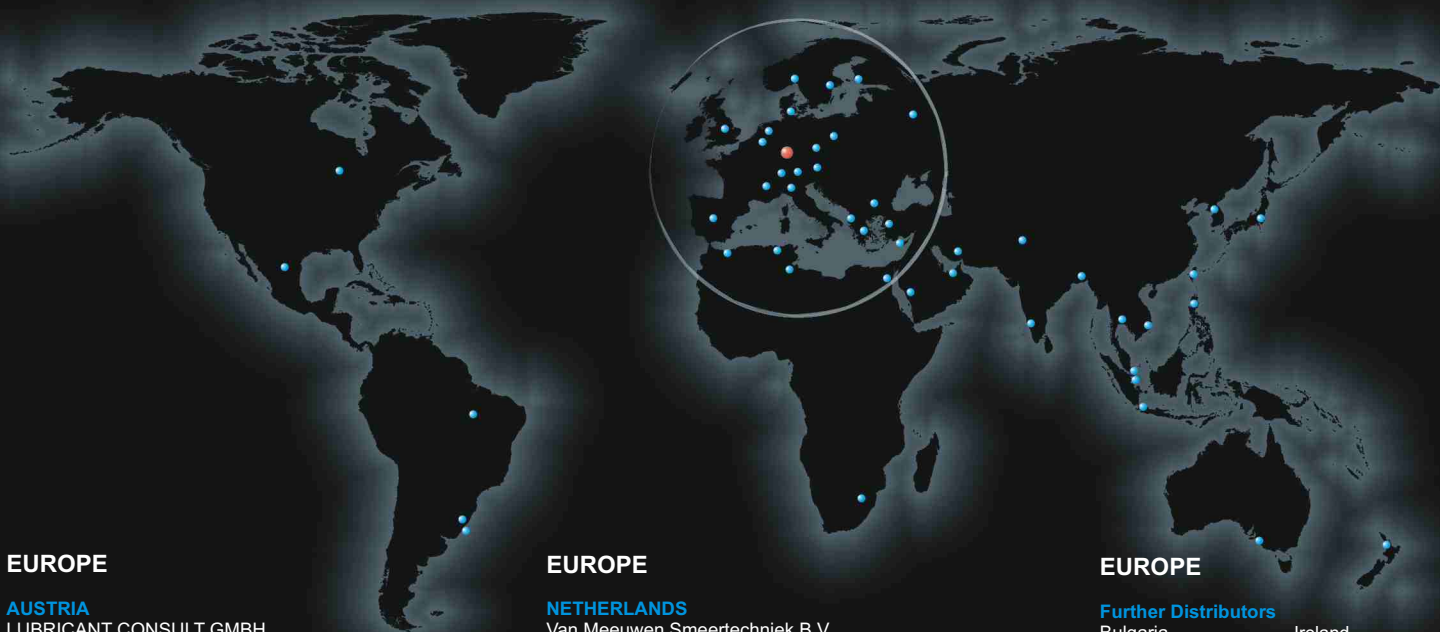


Concept

Analysis



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