Lubrication solutions from SKF
Helping your business run more smoothly

The Power of Knowledge Engineering
Discover what SKF lubrication solutions can mean for your business

The true potential of lubrication is often overlooked. This applies across industries and in countless applications, from machine tools and off-highway to pulp & paper and wind turbines. What if the right lubrication solution opened up new opportunities to improve profitability by reducing costs and boosting reliability? What if it allowed you to design a machine that offers your customers more value, while being more cost-effective to manufacture? With the right lubrication partner, it just might.

Keeping you at the forefront
SKF has more than 100 years of experience with rotating equipment. We understand the challenges and know how to meet them. Now more than ever, the right lubrication solution involves the capability to integrate technologies and combine knowledge and experience in the areas of bearings, seals, services, mechatronics and lubrication systems.

What’s more, SKF has pursued advanced research and development in tribology, the combination of friction, wear and lubrication science. As we see it, knowledge is a key success factor – and we’re looking forward to sharing it with you.

Meeting your exact requirements
At SKF, we have the commitment and the global resources to support the unique requirements of your operation. We can now offer a complete range of lubrication solutions, from specialized lubricants and manual lubricators to the most innovative automatic and centralized lubrication systems on the market. Not to mention a growing range of services, including oil analysis, installation assistance and training. Working together with SKF, you can rely on receiving the right lubricant, in the right amount, with the right lubrication system, at the right lubrication point. Wherever your machine runs.

Optimizing your designs
Even small design improvements can make a big difference. The fact is that the earlier you involve SKF as an engineering partner in the planning and design process, the bigger the benefits. SKF application engineers can work with your team to optimize designs for long life and reliability.

With SKF, you will be better able to offer your customers a more compact, energy efficient and cost-effective solution that is also easy to use and maintain. Equally important, we can work together to develop designs that help reduce the time and cost of production, providing a sharper competitive advantage.

Sustainability at work
When you partner with SKF, you are doing both the environment and the workplace a favour. An SKF lubrication solution is designed to optimize the amount of lubricant required in the first place. Less lubricant is better for the environment. What’s more, an optimally lubricated machine is a more energy efficient machine. You can also expect minimal leakage and less friction, resulting in reduced noise levels. All in all, you can rely on an SKF solution to contribute to a safer, healthier work environment.
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At SKF, we apply the power of knowledge engineering to meet your specific lubrication requirements. You can look forward to a cost-effective lubrication solution designed for high reliability and improved energy efficiency. By identifying ways to extend both machine uptime and service intervals, we can help reduce maintenance and operating costs, while helping lower handling costs from greater ease of use. We can show you how. Let’s discuss your specific lubrication demands and opportunities – and calculate your return on investment.

Extending service intervals
According to industry averages, 10% of turbine servicing time is spent on relubrication. The SKF WindLub, centralized automatic lubrication systems for wind turbines, reduces the time required for servicing and extends service intervals for lower total operating costs. It also contributes to increased operational security and limits the environmental impact by effectively collecting used grease.

Reducing oil requirements
Pulp and paper machines need huge amounts of oil. The SKF Flowline Pumping Unit for circulating lubrication systems can reduce the amount of oil required by up to 50%. High operational efficiency and superior separation of air bubbles and water mean better oil condition with less oil, while helping to reduce energy and cooling water consumption.

Improving machine availability
Construction machines must offer high reliability despite harsh operating conditions and complex designs with numerous, hard-to-reach lubrication points. An SKF Centralized Lubrication System with specially developed piston pumps from the KFG series supplies the right amount of grease during every lubrication cycle while the bearings are in motion. This helps improve lubrication efficiency, reducing service and repair costs by up to 25%, and increasing machine availability.

Less water, less lubricant
The beverage industry uses high volumes of water and lubricant mixture. At one plant, the SKF Dry Lubrication System for Conveyors had reportedly saved more than 1,000 m³ of water per production line annually. It also reduced the amount of lubricant needed by 95%. Less risk of lubricant leakage on the floor contributes to a safer working environment.

Reducing operating costs
Large 2-stroke crosshead diesel engines on container vessels, oil & gas tankers and bulk carriers require huge amounts of lubricating oil, resulting in high operating costs and emissions. To meet this challenge, SKF has developed the fully electronically controlled SKF Cylinder Lubrication System CLU 4. It offers efficient, load-dependent lubrication of the cylinders, reducing lubricating oil consumption by one-third, while cutting costs and harmful emissions.

Boosting machine tool efficiency
When it comes to machine tools, reliability, precision and efficiency are crucial. To help meet these demands, SKF has developed centralized, multi-point lubrication systems that help machines run more smoothly, while also extending the service life of linear guides and bearings.

In addition, SKF LubriLean minimal quantity lubrication systems for machining processes can help reduce overall production time by up to 30% and significantly increase tool life. What is more, SKF lubrication solutions contribute to a more precise cutting process, better surface quality and a more environmentally friendly workplace.
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SKF Lubricants – setting the standard

SKF can recommend more than 1,000 lubricants for the large range of different applications and environments within the machinery industry. It is therefore important to choose the right lubricating solution for your specific equipment and environment.

The use of high-quality greases that can handle high temperatures, impurities, and heavy load conditions is essential, such as SKF MonoFlex systems. These systems are designed for oil, semi-fluid grease, and hard grease NLGI grades 0 to 3.

SKF Automatic Lubricators

SKF automatic lubricator solutions and manual lubrication technology are designed to provide the precise amount of control for over- or under-lubricating. With SKF automatic lubricator technology, you get reliable and systematic lubrication control for a wide range of applications. Whether you are looking for long-term or short-term lubrication solutions, SKF offers a variety of automatic lubricator systems to meet your specific needs.

The range of SKF lubricants includes oil, semi-fluid grease, and hard grease. The system shown below is for oil or semi-fluid grease. SKF MultiFlex systems are designed for automatic re-lubrication of critical equipment in heavy-duty applications, such as high-speed bearings, chains and special applications in the steel industry.

SKF Oil+Air lubrication systems are designed primarily for high speed bearings, chains and special applications. They provide a small, continuous stream of oil into the bearing, which keeps the bearing or chain with a small continuous stream of oil in a mixing valve. The system requires few main lines that are all supplied at very high pressure (up to 1,000 bars). SKF Oil+Air lubrication systems are very reliable and accurate, making them suitable for a wide range of applications, including extreme environments and high-performance applications. The system is designed to distribute oil to the bearing at the right intervals, ensuring the correct amount of lubrication is delivered, with minimal risk of over- or under-lubricating.

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SKF Lubricants – the setting the standard

SKF offers more than 45,000 different products for the platform to its global reach of over 6,000 locations and 150 countries. By working closely with customers, the lubricant is carefully formulated to meet the specific needs of application. The right lubricant for your application

The extensive line of SKF lubricants includes general purpose and extreme pressure and temperature conditions. Each individual lubricant is carefully formulated to meet a specific field of application. SKF’s vast experience developing rolling bearings forms the platform for the correct choice of bearing grease. This includes the high-quality lubricants that are optimal for their applications.

Thousands of lubrication needs, one source of lubrication expertise

When it comes to meeting the specific lubrication requirements of your application or process, you can rely on SKF. SKF一个多年来在研发高品质的润滑产品方面积累了丰富的经验，从而能够为您提供最合适的润滑解决方案。SKF自动润滑系统和手动润滑设备能够满足各种应用需求。以下是一些主要的润滑产品和解决方案:

**SKF MonoFlex**
- 单线润滑系统用于油、半流体润滑脂或硬脂。
- 适用于中小负荷和特殊应用。

**SKF DuoFlex**
- 双线润滑系统用于油、半流体润滑脂或硬脂。
- 适用于中等负荷和特殊应用。

**SKF MultiFlex**
- 多线润滑系统用于油、半流体润滑脂和硬脂。
- 适用于大负荷和特殊应用。

**SKF ProFlex**
- 弯曲线润滑系统用于油、半流体润滑脂和硬脂。
- 适用于大负荷和特殊应用。

**SKF MultiLine**
- 多管路润滑系统用于油、半流体润滑脂和硬脂。
- 适用于大负荷和特殊应用。

**SKF CircOil**
- 循环油润滑系统用于油。
- 适用于大负荷和特殊应用。

**SKF OilAir**
- 油气润滑系统用于油。
- 适用于大负荷和特殊应用。

**SKF SlowOil**
- 低速油润滑系统用于油。
- 适用于大负荷和特殊应用。

**SKF Streamline**
- 分流泵供油系统用于油。
- 适用于大负荷和特殊应用。

**SKF Streamline Pumping Unit**
- 分流泵供油系统用于油。
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**SKF Streamline Capabilities**
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SKF MonoFlex

Single-line lubrication systems designed for oil, semi-fluid grease and hard grease. The system shown below is for oil or semi-fluid grease. SKF MonoFlex systems are designed for automatic lubrication in a wide range of applications, such as machinery with limited space, and extreme conditions and extreme operating pressures and temperatures. SKF MonoFlex systems are designed for pressures ranging from 0 to 250 bars and venting pressures from 2 to 70 bars back pressure. SKF MonoFlex systems are designed to withstand system pressures as high as 4000 bars. SKF MonoFlex systems include a wide range of multi-outlet pumps from 1 to 32 outlets, and are able to be used in nearly every environment. SKF MonoFlex systems include a wide range of multi-outlet pumps from 1 to 32 outlets, and are able to be used in nearly every environment. SKF MonoFlex systems include a wide range of multi-outlet pumps from 1 to 32 outlets, and are able to be used in nearly every environment. 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SKF Lubricants – setting the standard

SKF offers a wide range of oils, greases, bio-degradable and food compatible lubricants, and a complete range of application equipment. The SKF lubricants range includes a special range of lubricants designed for special applications, meets all international standards for quality and performance.

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SKF Automatic Lubricators

There is a variety of lubrication requirements, from very simple lubrication systems to very complex systems. The choice of lubrication system depends on the type of application, the environment and the cost and maintenance requirements.

The SKF lubrication systems range from simple, manual grease guns and pumps, to advanced, computerized systems that provide the most efficient and cost-effective lubrication solutions.

SKF offers a wide range of lubrication systems to meet the specific needs of each application. The range includes single-point systems, multi-point systems, and centralized systems. The systems are designed to provide the most efficient and cost-effective lubrication solutions.

SKF MonoFlex

Single-line lubrication systems designed for oil, semi-fluid and hard grease. The system shown below is for oil or semi-fluid grease.

SKF DuoFlex

Dual-line lubrication systems designed for oil, semi-fluid and hard grease. The system shown below is for hard grease.

SKF ProFlex

Progressive lubrication systems designed for oil, semi-fluid and hard grease. The system shown below is for hard grease.

SKF MultiFlex

Multi-line lubrication systems designed for oil, semi-fluid and hard grease. The system shown below is for hard grease.

SKF Streamline

Circulating oil systems designed for oil, semi-fluid and hard grease. The system shown below is for hard grease.

SKF Oil+Air

Oil and Air lubrication systems. The system shown below is for hard grease.

SKF Rail

Rail lubrication systems designed for oil, semi-fluid and hard grease. The system shown below is for hard grease.

At a glance:

- SKF lubrication systems range from simple, manual grease guns and pumps, to advanced, computerized systems that provide the most efficient and cost-effective lubrication solutions.
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Lubrication services – with a global commitment

Your success is our success. At SKF, we are determined to support you and your operation in every way possible. This means having the capability, the resources and the commitment to go the extra mile so that you can realize the true potential of lubrication.

Making the difference
Having the right lubrication partner can often be an important success factor. With SKF, you can rely on our engineers to provide leading technical support and services – when, where and how you need it. Our approach is to provide the best possible assistance for your specific requirements and challenges.

Lubrication software support
Applying the right lubricant in the right amount and at the right time, even in manual relubrication procedures, is crucial. To support you, SKF has developed software solutions like Lube Select, which can assist you in determining the most suitable grease for your bearings and working conditions. Another example is DialSet. It helps you establish the optimal relubrication interval and lubricant quantity for your application. You can of course also use it to determine the proper setting for your automatic lubrication systems – quickly and easily.

What is more, SKF Centralized Lubrication Systems can be easily integrated with condition monitoring solutions, providing operators with a complete overview of the lubrication system, including pump status and lubricant levels. For example, the SKF WindCon online condition monitoring system can be enhanced with WindLub – SKF’s centralized automatic lubrication system for wind turbines. SKF has also developed VisioLub, a condition monitoring software for the lubrication system of chain applications. This supports a proactive approach to maintenance that can help reduce operating costs.

Available for you – around the world
Product availability and reliability are crucial. From off-highway and machine tools to wind turbines and pulp and paper mills, time is money. When you choose SKF, you get a stable and secure global partner that is committed to supporting the success and efficiency of your operation. This means that you can expect the right SKF solution when you need it – wherever you are. Our lubrication applications centres, located on every continent, and our dedicated distributor network make it possible.

To discover how your operation can realize the true potential of lubrication, please contact your local SKF representative or visit skf.com/lubrication.
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The Power of Knowledge Engineering

Drawing on five areas of competence and application-specific expertise amassed over more than 100 years, SKF brings innovative solutions to OEMs and production facilities in every major industry worldwide. These five competence areas include bearings and units, seals, lubrication systems, mechatronics (combining mechanics and electronics into intelligent systems), and a wide range of services, from 3-D computer modelling to advanced condition monitoring and reliability and asset management services. A global presence provides SKF customers uniform quality standards and worldwide product availability.

Bearings and units
Seals
Lubrication systems
Mechatronics
Services

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