

More harvest, less maintenance

Achieve these goals with automated
centralized lubrication systems from SKF





Already harvesting, or still lubricating your machinery?

Automated lubrication provides significant benefits over manual lubrication. Manual lubrication, which is time-consuming and prone to errors, is a thing of the past.

High-tech automated lubrication is the modern solution.

For expensive farm machinery, there is no practical alternative to automated lubrication systems.

SKF centralized lubrication systems supply lubricant to each lubrication point in the best possible way!





Bring in the harvest before the winds change

Achieving high yield with less work is critically important for companies in the agricultural sector.

The machinery used in modern farming shows just how advanced these operations have become.

Also, the weather has greater influence on the success or failure of a season in agriculture than in almost any other industry.



What happens if the crops are ripe but cannot be harvested because your machinery has broken down due to an insufficiently lubricated bearing?

The problems pile up quickly and put the fruits of months of hard work at risk.

This can be avoided by using an SKF centralized lubrication system, an investment which can pay for itself after only two years!



High-efficiency, customized solutions

Centralized lubrication systems are as varied as the farm machinery in which they are used.

SKF, which has over 80 years of experience in the field of lubrication technology, utilizes mature technology and extremely sturdy components in its centralized lubrication systems. This results in high operational reliability for these systems, even in the harsh conditions encountered in agriculture.

In SKF's customized system solutions, the bearings are continuously lubricated at intervals. This lubrication is performed when the machinery is being used and all bearings are in motion. SKF's automated centralized lubrication systems are equipped with a universal but simple control system which provides optimum lubrication to each lubrication point on the farm machinery.



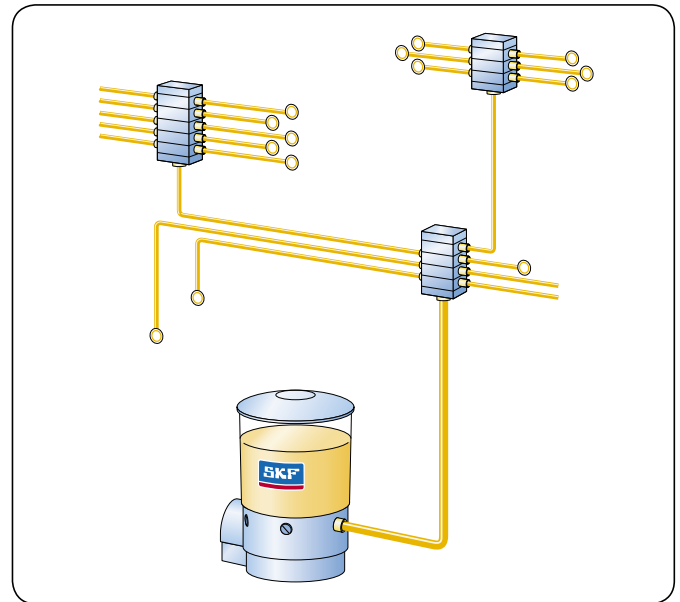
The results achieved by using automated centralized lubrication systems instead of manual lubrication are clear:

- Increased operational reliability of farm machinery.
- Significant increase in bearing service life (4 x or higher).
- Dramatic reduction in maintenance and repair costs.
- Reduction in farm machinery downtime, with resulting savings in personnel costs.
- Up to 40% lower lubricant usage.
- The technology is more environmentally friendly.



Simple operation

- The integrated control electronics turn on the lubrication pump after the set time interval.
- The pump delivers lubricant to the feeders through the main lines for the set contact time.
- The progressive feeders accurately divide the lubricant delivered by the piston pump according to the designed ratio, so each connected bearing receives the exact amount of lubricant required.
- The feeder's forced feeding function ensures the highest level of operational reliability possible.





Equipped for any task

SKF provides lubrication solutions which are customized to individual customer requirements by drawing on its comprehensive range of pumps and feeders in numerous performance and design versions for progressive centralized lubrication systems.

Electrically driven KFAS and KFGS piston pump units are the most commonly used in centralized lubrication systems for farm machinery.

The KFAS pump is equipped with a reservoir for 1 kg of lubricant and is used in applications requiring low quantities of lubricant, while the KFGS pump can be supplied in different reservoir sizes for 2, 6 or 10 kg of lubricant.

Both pumps are suitable for standard greases up to NLGI Grade 2 and can be used in low-temperature environments.

The KFGS pump can supply over 100 lubrication points.

Progressive feeders should preferably be used in block construction or as sectional feeders. Both types operate according to the same principle, have a sturdy construction and are easy to install. The operation of the progressive feeders can be monitored electrically and visually.





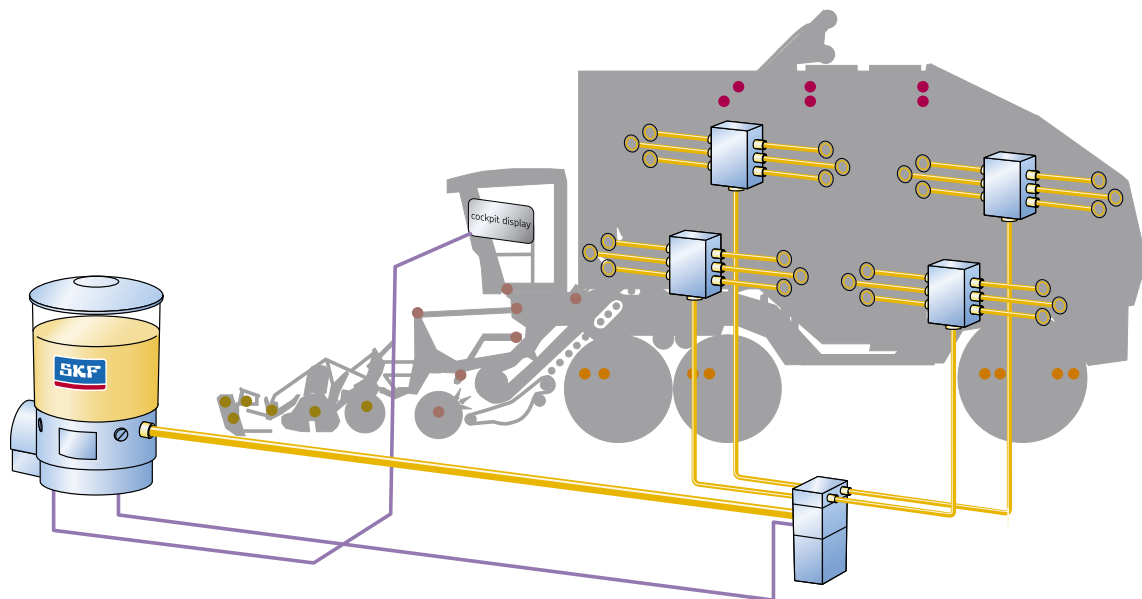
Automatic lubrication on demand with the highest level of reliability

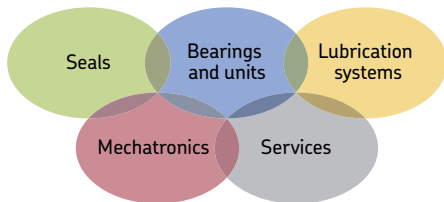
With the CAN bus technology used at SKF, a farm machine's lubrication system can be divided into up to four independent zones that are all fed by a single pump unit. The individual zones are controlled using electronic valves and functional monitoring is carried out using sensors (cycle switches). These immediately detect and notify of possible malfunctions long before the lack of lubricant results in bearing damage.

The electronic control and monitoring system communicates with the farm machinery's on-board computer via the CAN bus so as to fully integrate lubrication in the on-board service and status monitoring system. The system can be configured via the on-board display, and detected errors are displayed precisely.

The SKF system is well-suited for all manufacturers who want to equip their machines with an optimized centralized lubrication system which is fully integrated into the on-board system. The CAN bus technology is perfect for those who lease out farm machinery, as it can document negligent usage of the machine.

Controlling four independent lubrication sections on a sugarbeet harvester.





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 systems. A global presence provides SKF customers uniform quality standards and worldwide product availability.

Further brochures:

- 1-0103-EN *Fittings and Accessories*
- 1-0107-6-EN *Accessories for Progressive Systems*
- 1-0974-EN *Chain lubrication for farm machinery*
- 1-0995-EN *Automatic Lubrication System with CAN control*
- 1-1700-2-EN *Control Units for Progressive Systems*
- 1-8029-EN *Centralized Lubrication for Commercial Vehicles*
- 1-9201-EN *Transport of Lubricants in Centralized Lubrication Systems*
- 1-9420-EN *Single-line Systems for Commercial Vehicles*
- 1-9430-EN *Progressive Systems for Commercial Vehicles*
- 6408 EN *SKF Multilube*

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