

Chain lubrication for farm machinery



Automated chain lubrication pays off

- Less wear
- Greater operational reliability
- Lower risk of failure



Chain lubrication

Chains are among the most important power transmission elements in farm machinery, and they must be carefully maintained. The traditional, manual method of lubrication carries a risk of inadequate lubrication. This results in premature wear and impairs the chain's operation.

The costs associated with a chain failing due to insufficient lubrication are both inconvenient and usually very substantial. It does not have to be this way, though. You are always on the safe side with automated SKF chain lubrication systems, which reliably provide driving chains with optimum lubrication.

Chains and chain wheels like it smooth

Automated systems periodically relubricate the driving chains while the farm machine is operating. Just how this works is shown using a hydraulically driven SKF chain lubrication system as an example. Our system utilizes the farm machine's hydraulic system to build up the pump pressure required for lubrication. Screw-in restrictors are optionally employed to divide the lubricant and can be used to regulate the flow rate.

The metered oil is fed directly to the chain through pipes which have lubricating quills or lubricating brushes at their end.

The lubricating brushes ensure that the lubricant is applied equally across the entire width of the roller, which provides an optimum supply of creeping lubricant to chain link plates and pins and chain rollers.

As soon as the chain drive is turned off, which also relieves the hydraulic system, the spring-loaded main metering piston of the hydraulically driven oil lubrication pump is pushed to its initial position. The metering chamber is prefilled with oil again and is thus ready for the next metering stroke.

All standard lubricating oils with a mineral or synthetic base can be used.

CAUTION

For all systems described in this brochure, see important product usage information on the back cover.

Fields of application

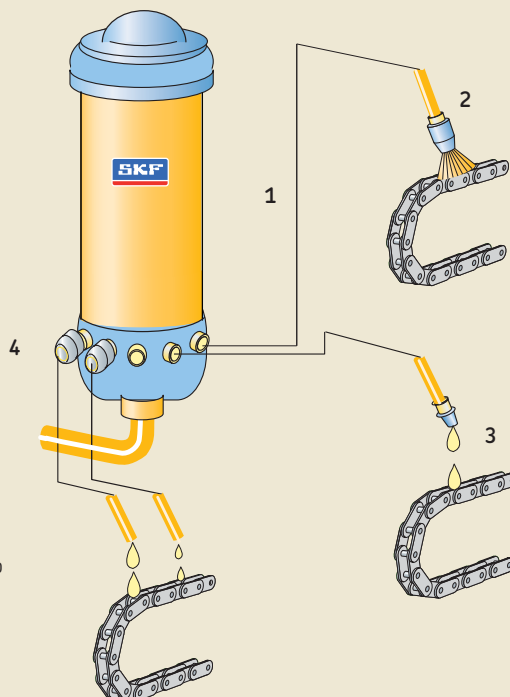
- Spreaders
- Loading wagons
- Self-loading forage wagons
- Silage wagons
- Tipper trailers with hydraulic tailgate
- Etc.

Advantages of automated SKF chain lubrication systems

- An economical system that pays for itself Efficient resource handling
- No unnecessary environmental pollution
- Exact adherence to lubrication intervals
- Exact metering of lubricant
- Extension of chain service life
- Increase in operational reliability
- Increase in wear resistance
- Reduction in risk of failure

SKF recommends that biodegradable oils be used for reasons of environmental compatibility.

Working example



- 1 SP/EY28 oil lubrication pump
- 2 Lubricating brush
- 3 Lubricating quill

Optional:
4 Flow rate-specific SKF VD1 screw-in restrictors

Two systems, one signature

You can select the SKF system which you want to use, depending on the design of your farm machine. Hydraulic or pneumatic operated oil lubrication pumps – all SKF systems have high operational reliability in common, even under extreme operating conditions and harsh ambient conditions.

There is a simple reason for this:

The mature designs, the compact forms, the materials used and the precision manufacture of the systems bear the signature of a company

with more than 80 years of experience in the field of lubrication. The sturdy and reliable systems from SKF are characterized by their excellent value for the money.

They are easy to operate, easy to install and, thanks to their compact construction, can be used in almost all farm machines. Our employees will be glad to help you find your individual solution for chain lubrication.

Hydraulic oil lubrication pump



SP/EY28

Pneumatic oil lubrication pump



POEP-15-1.0

Technical data

Order number	SP/EY28
Drive	hydraulic
Reservoir capacity	1,0 l
Drive pressure	60 to max. 200 bar
Drive volume	> 1,5 l/min.
Delivery volume per stroke	4,5; 6,0 or 7,0 cm ³ ¹⁾
Lubricant outputs	1 to 9
Pumped medium	mineral, synthetic and environment. compatible oils; operating viscosity 20 to 1.500 mm ² /s

¹⁾ Other specifications available on request

See brochure 1-5001-EN for information on metering using additional restrictors.

Technical data

Order number	POEP-15-1.0
Drive	pneumatic
Reservoir capacity	0,5; 1,0; 1,7 l
Drive pressure	3 to 10 bar
Delivery volume per stroke	15 cm ³
Pumped medium	mineral, synthetic and environment. compatible oils; operating viscosity 20 to 1.500 mm ² /s

See brochure 1-5001-EN for information on metering using external metering elements.

The Power of Knowledge Engineering

Combining products, people, and application-specific knowledge, SKF delivers innovative solutions to equipment manufacturers and production facilities in every major industry worldwide. Having expertise in multiple competence areas supports SKF Life Cycle Management, a proven approach to improving equipment reliability, optimizing operational and energy efficiency and reducing total cost of ownership.

These competence areas include bearings and units, seals, lubrication systems, mechatronics, and a wide range of services, from 3-D computer modelling to cloud-based condition monitoring and asset management services.

SKF's global footprint provides SKF customers with uniform quality standards and worldwide product availability. Our local presence provides direct access to the experience, knowledge and ingenuity of SKF people.

Important information on product usage

SKF and Lincoln lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1 013 mbar) by more than 0,5 bar at their maximum permissible temperature.

Additional brochures for further information

<i>1-0103-EN</i>	<i>Fittings and Accessories</i>
<i>1-1110-EN</i>	<i>Manually or pneumatically actuated piston pumps</i>
<i>1-5001-EN</i>	<i>Lubricant distributors</i>
<i>1-5006-EN</i>	<i>Circulating Lubrication Systems (Oil)</i>
<i>1-9201-EN</i>	<i>Transport of Lubricants in Centralized Lubrication Systems</i>

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