

Automatic lubrication systems for KOMATSU construction machinery



- Reduce downtime
- Reduce wear with automatic lubrication

Why use centralized lubrication on your KOMATSU machinery? Because you can save yourself a lot of trouble and cost!

A centralized lubrication system provides bearings with a continuous supply of lubricant at certain intervals. And it does so when the machinery is in operation with all the bearings moving.

Automatic centralized lubrication:

- Improves the machinery's availability!
- Significant increases bearing life!
- Enables significant cuts in maintenance and repair costs!
- Reduces expensive downtime in terms of both machinery and personnel!
- Saves as much as 40% on lubricant!
- Protects the environment!

Why SKF centralized lubrication? Because it is simply not centralized lubrication like the others!



The KFAS/KFGS generation of pumps with integrated control system. Robust design meets latest technology.

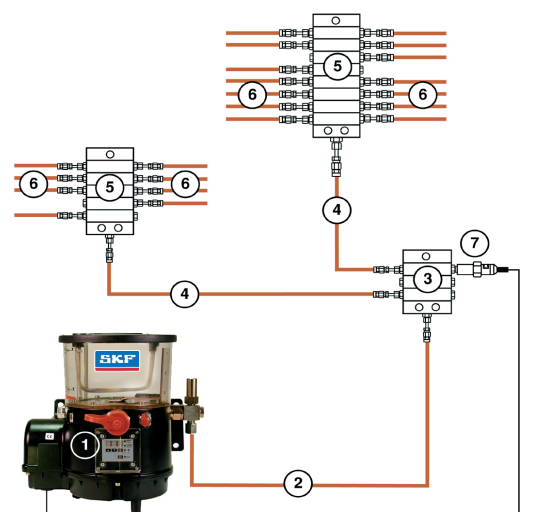
- **SKF uses proven, rugged components.**
- **Universal yet simple control concept**
 - Set by pushbuttons
 - Data shown on display
 - Elapsed-hours counter
 - Fault-hours memory
 - Filling level monitor (optional)
 - PIN code protection
 - No laptop needed for programming
- SKF has decades of know-how and experience in the construction-machinery sector.
- First-class installation quality – with attention paid to the machine manufacturer's technical specifications – helps to ensure high dependability.
- Our service, the way we understand it, results in optimum customer support – before and after the purchase!

And this is how it works

- The integrated control electronics switch on the lubricant pump at the end of the preset interval time.
- The pump delivers lubricant through the main line to the feeders for the duration of the preset contact time.
- The progressive feeders divide up the lubricant delivered by the piston pump in exactly the design ratio. So every connected bearing receives exactly the amount of lubricant it needs.
- Sustained forcing of the feeder helps to ensure the greatest possible dependability.

Diagram of a progressive centralized lubrication system

- ① Pump
- ② Main line
- ③ Master feeders
- ④ Secondary lines
- ⑤ Secondary feeders
- ⑥ Lines leading to the lube points
- ⑦ Cycle switch



Installation of components and laying of lines

- **All components installed to last!**

The lubricant pump together with its safety valve and integrated control unit is installed at a secure and easily accessible place on the machinery.

- **Professionals do the laying!**

Feeders and lines are installed on the machinery where they are well protected. The places at which the components are installed and attached are chosen so as to comply with the machinery manufacturer's technical specifications.

- **The universally applicable plug-in connector system – for plastic and steel tubing.**

Its novel seal and collet concept makes it insensitive to dirt, easy to install and detachable at the touch of a finger.

- **The system's functioning is displayed!**

A green illuminated pushbutton in the cab shows that the centralized lubrication system is functioning. The pushbutton can also be used if necessary to trigger additional lubrication.

- **Optional monitoring of the centralized lubrication system by a sensor!**

In this case, a cycle switch monitors the system. Malfunctions are shown by a yellow indicator light (optional feature) in the cab.



Pump unit with integral control electronics on a KOMATSU PC110.



Pump unit with integral control electronics on a KOMATSU PW95.

Installation of outside lines

Since machinery is exposed to the roughest and toughest environmental conditions in everyday use, the choice of the right material for the lines and optimal laying are especially important tasks!



Group VPM master metering device with integral check valves.

The integral cycle switch dependably checks whether the lubrication system is functioning properly. Every piston distributor is screwed onto a welding bracket.



With SKF centralized lubrication, your machinery should also achieve maximum performance figures, even when used for demanding load & carry operations.

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.

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