



Kobelco® and Lincoln Industrial® are pleased to announce a new factory-fit, automatic lubrication system that is available on Kobelco's ED195 and SK Series excavators.

What The System Does

- Substantially increases pin and bushing life through improved lubrication methods.
- Components are lubricated every 12 minutes while the excavator is in use. This allows grease to be evenly distributed to cover all wear surfaces.
- Purges the pins and bushings of contamination and maintains a seal against rock dust, dirt, sand and water.
- Proportions different amounts of grease to each component, based upon size, loads and location.
- Actually cuts grease consumption by delivering exact amount required for each bearing.

Kobelco has made buying the Lincoln Quicklub® system easier by simply specifying it on your new excavator purchases. Contact your local Kobelco dealer for more information.

How The System Improves Productivity:

- 30 to 40 minutes a day of productivity is gained by eliminating daily manual lubrication.
- Labor cost for daily lubrication is eliminated.
- Downtime from component related failures caused by inadequate or missed lubrication are eliminated.
- Safety is improved by eliminating personnel climbing over machinery for manual lubrication.
- Resale value of the excavator can be increased.

What The System Includes

- The Lincoln Quicklub 233 24 VDC electric pump, specifically designed to pump/meter standard NLGI #2 grade greases. 4,000 psi capability ensures grease flows to bearings that are under load.
- An 8-liter reservoir, pump and control system with an alarm system to monitor proper system operation and detect low grease levels. A full reservoir typically lasts 100 to 150 hours between refills.
- One primary and four secondary valves, specifically configured, to ensure the proper amount of lubrication is delivered to each point.
- High pressure hose for supply and feed lines with custom guarding packages for protection in the "impact zones".

RELIABILITY

PRODUCTIVITY

QUALITY

Daily Manual Lubrication Is Not Easy Due To:

- Bad weather conditions and safety issues
- Production demands
- Logistics with Lube truck schedules
- Buckets and some linkages need more frequent lubrication in severe applications
- Manpower issues – not all employees perform lubrication properly

The Cost Of Improper Lubrication Is High

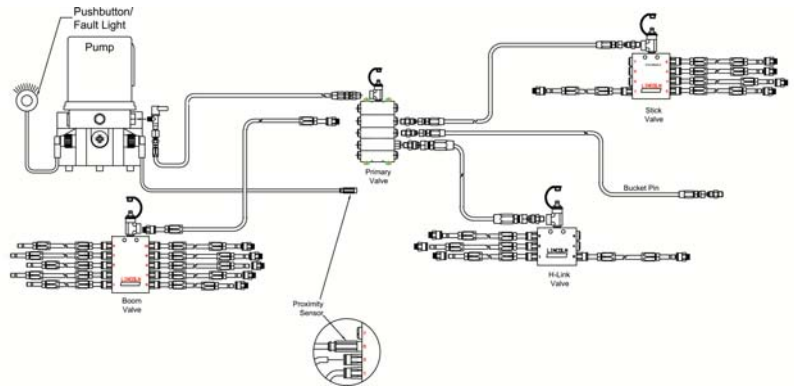
- Increased spending for repairs
- Lost production due to daily lubrication (30 to 45 min. per day) and unexpected repairs
- Contamination – wearing down the pins, bushings and other components
- Waste of lubricant
- Lower resale value

Dynamic lubrication protection in the harshest operating environments



System Operation

- 1 The Quicklub Pump is actuated automatically by an internal adjustable timer (typically every 8 to 12 minutes).
- 2 Grease flow starts and lubricant is delivered to the “Primary Divider Valve” through the supply line hose.
- 3 The primary divider valve distributes grease in measured amounts to the secondary valves.
- 4 The secondary valves proportion the grease and deliver exact measured amounts to the bearings according to their specific needs through feed line hoses.
- 5 The pump shuts off after receiving a signal from a proximity switch located on a secondary valve. The proximity signal indicates a successful lube cycle.
- 6 The system can also be manually cycled with a grease gun if the pump is damaged.



Lincoln Automated Lubrication Systems are now available for the following equipment:

Model No.	Kobelco Sales No.	Description
SK170LC	Sales Code 745	Kobelco Full Size Standard Excavator
SK210LC	Sales Code 745	Kobelco Full Size Standard Excavator
SK260LC	Sales Code 745	Kobelco Full Size Standard Excavator
SK295LC	Sales Code 745	Kobelco Full Size Standard Excavator
SK350LC	Sales Code 745	Kobelco Full Size Standard Excavator
SK485LC	Sales Code 745	Kobelco Full Size Standard Excavator
ED195	Sales Code 745	Blade Runner Excavator
SK210LC	Sales Code 746	Kobelco Long Reach Excavator
SK295LC	Sales Code 746	Kobelco Long Reach Excavator
SK290LC	Sales Code 746	Kobelco Long Reach Excavator