



CASE STUDY: READY MIX CONCRETE SUPPLIER

APPLICATION: CONCRETE PLANT AUTOLUBE SYSTEM

This plant had many conveyor and vat bearings that were being greased manually with a grease gun. This required operators to actually have to climb over the belts to grease hard-to-reach bearings, or climb several hundred feet to get the top points, so safety was a major concern. In addition, during busy season, the plant was operating 12-16 hours a day, during which time it could not be greased. The end result was it was not getting greased properly. FLO was approached by the customer to automate the greasing of 30 point on their concrete plant.

THE FLO SOLUTION

FLO installed a Lincoln Centro-Matic® Lube System - a single-line system, consisting of a gear pump package with 8L grease reservoir and follower plate, and parallel type injectors.



Pump Package:

- The 120-volt AC pump package with integral timer provided a complete stand-alone system controlled by the cement plant start-up switch. No additional air or hydraulic hook-ups required, giving long-term installation dependability.
- A timer with easily adjustable "OFF" time of 5-80 minutes combined with the monitored "ON" time of 2-30 minutes allows maximum flexibility to adapt to changing work conditions.
- A grease pressure switch allows for system monitoring of each lube event. If the system does not reach/maintain grease pressure for the duration of the lube event, a "Lube Failure" alarm will be indicated on the pump display board.
- Includes a low level switch with indication on the pump display board, and a manual run switch.
- Dry contact connections available to connect the Pump Package to remotely monitor the system for alarms from the plant PLC.
- A grease pressure gauge on the main supply line provides visual indication a successful lube event has occurred and aids in trouble-shooting and system diagnostics.



Distribution:

- There is one SL-32 injector per lube point, each with its own Cycle Indicator Pin (CIP). When the system cycles, the CIP on each injector moves, giving operators a quick and easy monitor of system performance.
- Servicing or adjusting the volume of individual injectors can be done quickly without dismantling injectors or removing grease lines, using the output adjustment nut of each injector. This doesn't affect the output of the other injectors in the system.
- SL-32 injectors dispense on the "pressure" side of lube event, with a max. pressure of 3,500 psi, giving them the ability to supply grease to tight bearings and lube points.
- The system was designed to use 3/4" hydraulic steel tubing with compression fittings for the one main supply line, due to the distance between injectors and the harsh environment within which the system will operate. This allowed for a more secure and durable overall installation. All hose and fittings for feedlines from the injectors were standard hydraulic hose ends and adapters, making them readily available and easily field replaceable.



FLO RESULTS

FLO's completely reliable automatic lubrication system greases the plant bearings as the plant operates, reducing maintenance costs and significantly reducing safety issues associated with manual lubrication.

**For Total Lube Solutions,
GO WITH THE FLO!**

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