

Application Success Story

Mining



Application Overview

Open gear spray lubrication system on Kiln/dryer for copper ore.

Why Automatic Lubrication?

Open gear spray lubrication systems are critical equipment to process copper ore.

BDI Products

- + LD-9327 Spray Lance
- + SS4500 Controller
- + DR4 Reversing Valve
- + DM Valve

Advantages

- + The open gear spray lubrication system provides an even coating of a NLGI grade 00 grease, sprayed on the gear flanks to reduce wear
- + Manual lubrication would be unsafe and not provide a consistent coverage of the gear face
- + Cost effective system
- + Longer maintenance intervals
- + Lower costs for repair parts
- + Improved operating time
- + Local distribution and support
- + High level of reliability

Please contact factory for additional information on this or any other application.

Products Utilized for Kilns/Dryers

LD-9327 Spray Lance

+ **Description:** Available with 1- 8 nozzles for gear width of 2" to 42"

LD-9327 Spray Lance includes nozzles in which air under pressure atomizes lubricant from the valves panels and sprays it onto the gear face.



SS4500 Controller

+ **Description:** Input voltage 90 to 250 VAC, 50/60 Hz

The SS4500 Multi-function Controller/Monitor is designed to operate, control and monitor a variety of lubrication systems. The unit is easily programmed by the customer via the controller's set-up mode (SS4500 Controller has been replaced by the SC400 Controller).



DR4 Reversing Valve

+ **Description:** Valve with limit switch, pressure gauges, mounting brackets and line strainer

DR4 Reversing Valves are activated by system pressure and are adjustable between 500 and 3500 psi. They control non-return and return systems using CS2000, DC36 and DC42 central stations. They are also used with air barrel pumps for spray and medium and large dualine systems.



DM Valve

+ **Description:** Basic valve without connectors

Dualine DM Valves are completely hydraulic in operation and will deliver either oil or grease. They are also fully and individually adjustable in regard to discharge quantity and are equipped with operational indicators. DM Series Valves always have one discharge port per valve section located on the bottom of the valve. DM Valves can be supplied in several basic discharge capacities and are available in blocks consisting of one, two, three or four valves.



Typical System Layout

Farval Dualine Spray Lance, SS4500 Controller, DR4 Reversing Valve (flow directional valve), 3 nozzle spray lance and heavy duty Farval DM Metering Valves for 3 lubrication points.

Background

The customers previous Farval lubrication system wore out after 20 years. The Farval distributor provided detailed custom lubrication panel assembly mounted in a stainless steel enclosure, to prevent snow & rain from getting inside. This made the installation much easier.

Refer to the following datasheets:

+ Brochure #DL29:
Farval Dualine Systems

+ Datasheet #35513:
DD & DM Valves

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