

Application Success Story

Machine Tools



Application Overview

Machine tools for steel mill roll shop. Products lubricate work roll bearings and roll line bearings.

Why Automatic Lubrication?

Large covers were in place over the \$10,000 bearings and hand greasing was never done on a regular basis. A failed bearing cost the customer two weeks down time on this roll grinder.

BDI Products

- + MultiPort Lubricator
- + M2500 Series Divider Valve
- + SS2200 Controller

Advantages

- + The lubrication system greases every point twice a week while running.
- + Manual lubrication was too time consuming and not being done on a regular basis.
- + Cost effective system
- + Longer maintenance intervals
- + Lower costs for repair parts
- + Local distribution and support
- + High level of reliability
- + All system components from one source

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

Products Utilized for Steel Mill Roll Shop

MultiPort Lubricator

- + **Description:** 110 VAC, 4 liter (8 lb) reservoir, grease, with low level switch

The MultiPort Lubricator is a rugged, motor-driven, electric lubricator, equipped with fixed output pumping elements to discharge grease over a wide operating range. Low level switches are standard on this compact unit. Up to three independent feed lines can be used with the MultiPort Lubricator. A selection of timers and controller/monitors are available to program MultiPort Lubricators.



M2500 Series Divider Valve

- + **Description:** Master valve with cycle switch

The M2500 Series Divider Valve Manifolds are the principal components of a progressive lubricating system. Modular construction makes these blocks easy to install, modify and maintain, without removing any tubing.



SS2200 Controller

- + **Description:** 110 VAC Voltage, NEMA 4X polycarbonate enclosure

The SS2200 Controller is a microprocessor-based programmable controller specifically designed to control single line and dual line centralized lubricating systems. The remote controller will operate on time or machine cycles and will control electric or motor-driven lubricators. The controller is housed in a NEMA 4X polycarbonate enclosure with a clear front cover. Precise LED indicators clearly display idle, lube or fault modes, and a three-digit numerical display used during both programming and lubrication system operation.



Typical System Layout

The Bijur Delimon distributor mounted the MultiPort Lubricator, SS2200 Controller & the M2500 Series Divider Valve on a plate. All was pre-wired and plumbed. This value added service allowed for a very quick and simple install with limited down time for the end user.

Background

The machine tools for the steel mill roll shop were previously manually lubricated. Hand greasing proved to be unreliable and caused bearing failure. The loss of a bearing and unscheduled machine down time was very costly to the mill's operation. A Bijur Delimon International distributor installed a reliable lubrication system that has freed up maintenance to work on other areas of the mill.

Refer to the following documents:

- + *Datasheet #35505: MultiPort Lubricator*
- + *Brochure #216: Modular Valves for Central Lubrication Systems*
- + *Datasheet #24735: SS2200 Controller (AC)*

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