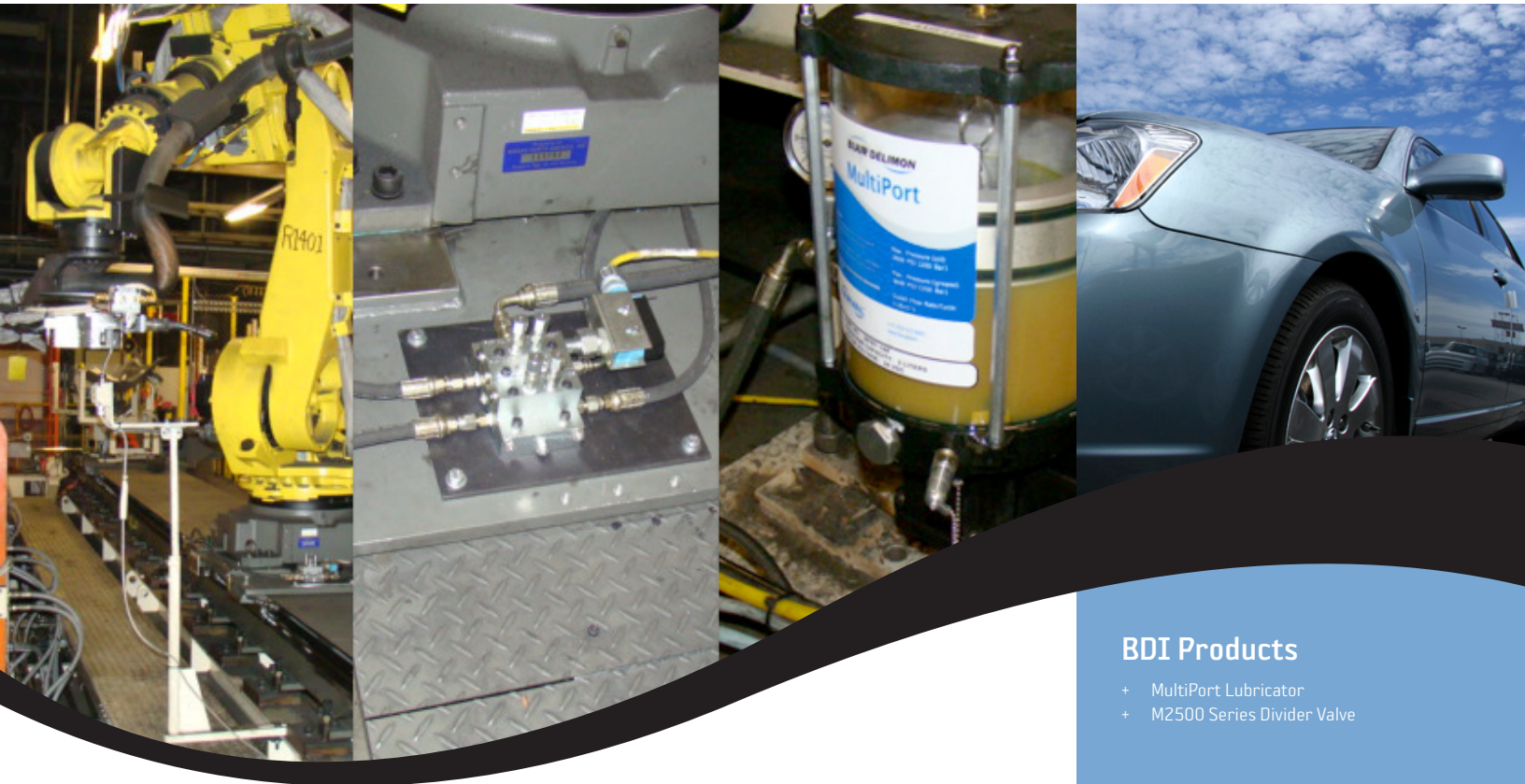


Application Success

Automotive



Application Overview

Automotive body fabrication robot.

Why Automatic Lubrication?

The automotive body fabrication robot is a critical operation and must operate 24/7. If a bearing fails the robot will become unstable, making a dangerous repair situation and require longer downtime.

BDI Products

- + MultiPort Lubricator
- + M2500 Series Divider Valve

Advantages

- + Reliable products
- + Maintain lubrication requirements
- + With labor being reduced, the bearings will always maintain the proper amount of lubrication.
- + Automatic lubrication reduces manufacturing costs allowing companies to increase profits and remain competitive in the marketplace.
- + An automatic lubrication system can be tied into customer's PLC for on-time feed-back.
- + Local distributor makes regular calls on this facility to assure that this and other lubrication systems are operating properly.

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

Products Utilized for Automotive Body Fabrication Robot

MultiPort Lubricator

+ **Description:** 24 VDC, 2 liter (4 lb) reservoir, grease

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.



Typical System Layout

The system includes a 24 VDC, grease MultiPort Lubricator controlled by the customers PLC. The lubricator feeds an M2500 master valve that proportions grease to two secondary M2500 valves. The system is cycled once per hour, lubricating a total of 16 points. A grease strainer is also supplied to insure only clean lubricant enters the bearings. A pressure gauge, installed on the pump outlet, inspects pressure during pumping mode at a glance.

Refer to the following documents:

- + *Datasheet #35505:*
MultiPort Lubricator
- + *Brochure #216:*
*Modular Valves for Central
Lubrication Systems*

Background

The robot was previously manually lubricated. This required planned down time and lost production. Bijur Delimon was able to supply an automatic lubrication system at a cost effective price which improved the overall reliability of the body fabrication robot.

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