



Beka-Max
OF AMERICA INC.
LUBRICATION. PROTECTION. SERVICES.

MULTI-POINT GREASING SYSTEM WITH SINGLE-POINT MANUAL LUBRICATION FROM BEKA-MAX OF AMERICA INC. REDUCES MAINTENANCE COSTS.

All maintenance personnel know that consistent lubrication is the key to long machine life and maximum productivity. Automated lubrication systems are the ideal solution but, for many operators, the cost of installation is a significant barrier.

Recent solutions implemented by Beka-Max of America Inc. show how a planned, progressive approach can make lubrication systems practical and affordable.

By phasing in the installation of multi-point distribution blocks, maintenance planners can begin to reap the benefits of improved lubrication immediately, while working toward a fully automated lube system for the future.

Whether the machine you are lubricating is a haul truck, an excavator, a saw mill or food processing plant, the steps toward your ideal solution are the same.

A middle ground for service costs

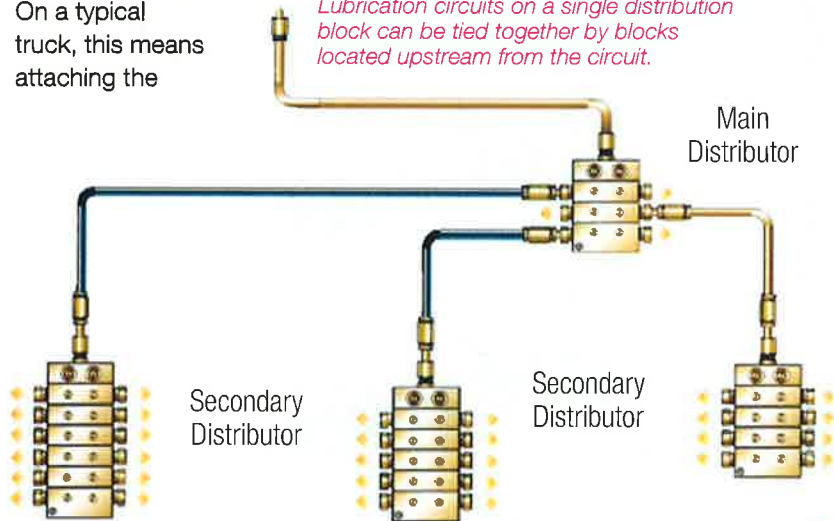
The most traditional lubrication system is simply a service technician with a grease gun. To service a Class 8 vocational truck, for instance, the truck comes into the service bay and the technician dispenses a shot of grease to each service point individually. On a typical truck, this means attaching the

grease gun to each of about 50 service points and squeezing in the grease by hand; over, under and around the vehicle.

Contrast this with an automated system for a large production facility. It begins with a distribution block dispensing grease to multiple service points in the equipment. A series of these blocks is then connected upstream to additional blocks connected to the grease supply. The upstream blocks tie together the various branches of grease lines until they come together at a single point. Here, a pump with a reservoir of grease feeds the complete system. Hundreds of service points on the equipment receive continuous, accurate lubrication with no manual servicing required.

In between is the solution from Beka-Max of America Inc. that lets planners improve their operation at less cost: a combination of multi-point greasing circuits with manual servicing.

Lubrication circuits on a single distribution block can be tied together by blocks located upstream from the circuit.



1.888.862.7461
www.beka-lube.com

Multiple stages for multi-point systems

Beginning with some basic multi-point circuits, a fully automated system can be installed in stages. Each circuit is still serviced manually by a technician, but the service time is significantly reduced by dispensing grease to multiple service points at once. Adding an automatic pump will be the final step in the evolution of the system.

Time saving is just one of the immediate benefits of utilizing multi-point distribution blocks. These blocks are more than a bank of simple ports for attaching grease lines – each port is engineered to dispense a measured dose of grease matched to the needs of the service point. Each block is built with the right mix of ports required for the service points on its circuit. Every service point receives the exact amount of lubrication it needs, with no waste or spillage.

Once a service point is attached to the circuit, it requires only periodic inspection of hoses and connections along the equipment's other planned maintenance procedures. The entry point for the grease circuit can be installed in any convenient location for safety and ease of access. This means:

- a) No service points are ever missed or overlooked, no matter how hidden or dirty its location may be; and
- b) There's no need for the technician to enter a hazardous area to access the service point.

Beka-Max of America Inc. offers the right tools for manual servicing

To complete the servicing, technicians have a wide range of tools at their disposal. A new line of professional grease guns by MATO GmbH available from Beka-Max of America Inc. (www.beka-lube.com) offers a full selection designed to support varied operating conditions. Along



Distribution blocks located outside the safety fence for process equipment keep technicians out of hazardous areas while providing convenient access for one-point servicing.

with familiar pistol-type and side-lever grease guns that provide up to 800 bar psi, MATO's Lube-Shuttle line-up includes a battery-powered model and a pneumatic model delivering up to 480 bar of pressure. The choice for any application will depend on. The distance the grease must travel in the circuit, which will determine:


- The amount of pressure needed to dispense the required volume of grease
- The number of points to be serviced and total volume of grease needed for each application
- Portability to access equipment and its grease circuits
- Personal preference

By adding more circuits to reach more service points, then tying circuits together with upstream distribution blocks, the manual single-point system begins to take the shape of a fully automated system. The system can also be enhanced with auxiliary features such as stroke monitors and proximity switches. Each step represents a valuable improvement in maintenance practice. Eventually, all circuits can come together at one central point.

A dynamic result

When the equipment in a production process is serviced from a single accessible point, dynamic lubrication becomes practical. A technician can service the process machinery from a safe location while the line is running. Compared to greasing while the machines are static, dynamic lubrication ensures a more thorough coating of all wear surfaces on the moving parts. Meanwhile, routine maintenance is performed quickly and conveniently with no downtime in production.

1.888.862.7461
www.beka-lube.com



The final step is to replace the manually operated grease gun with a Beka-Max automated pump. The automated system will use the same distribution blocks and circuits that are already installed. The primary difference is that, instead of servicing the equipment periodically, the pump will dispense grease dynamically on a predetermined and timed schedule. The quality and consistency of lubrication is maintained at the optimum level through all the time the equipment is operating – the key to extended life and improved efficiency.

Stretching the maintenance budget

A phased program for developing a lubrication system with multi-point distribution blocks opens numerous options for maintenance planners to manage their budgets. The total cost of the system can be amortized over several budgets. Each phase of the program can be timed to suit the availability of resources. The actual installation of new circuits can be

completed by in-house maintenance staff or contracted out to the Beka-Max of America Inc. dealer network. In either case, Beka-Max of America Inc. provides complete drawings, guidelines and troubleshooting for every system.



Once a multi-point circuit is in place for all service points, only the pump and grease reservoir are needed to turn it into a fully automated lubrication system.

Most important, each phase of the program begins to earn savings that contribute toward implementation of the next phase. The lubrication system ultimately pays for itself with:

- Reduced time for planned lube servicing
- Reduced waste of lubricants
- More complete, consistent servicing to all wear components
- Less planned downtime for servicing
- Less unplanned downtime due to equipment failures
- Extended life for wear components
- Increased return on total equipment investment
- Improved safety for employees
- Reduced liability costs



Beka-Max
OF AMERICA INC.
LUBRICATION. PROTECTION. SERVICES.

1.888.862.7461
www.beka-lube.com