

ReliaMAX

Reliable Performance & Maximum Value

ReliaMAX™ ONBOARD AUTOMATIC LUBRICATION SYSTEMS



WHEEL LOADER HITACHI ZW-220

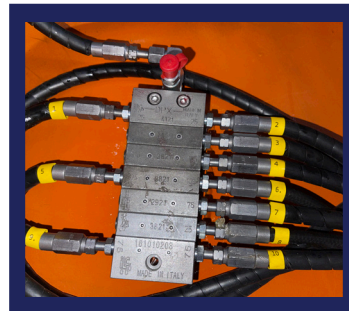
Lubrication systems should reliably and consistently deliver lubricant to all lubrication points. Our system has proven to do that better than competing systems. The end result brings a high confidence in the system such that, buyers of our systems consider their use as normal as lettering on the vehicle.

The ReliaMAX System dispenses the correct amount of grease to bucket pins, bell crank bushings, lift arm bushings, steering rod/cylinder pin bushings, articulation bearings, and oscillation pivot points (if so equipped). It does this consistently while the machine is working.



EXCLUSIVE UNITED STATES DISTRIBUTOR SERIES PROGRESSIVE LUBRICATION SYSTEMS EXPERTS

**AUTOMATICALLY DISPENSE
THE RIGHT AMOUNT OF
GREASE TO ALL CRITICAL
LUBRICATION POINTS
AT THE RIGHT TIME
WHILE IN MOTION**



Simple to use, competitively priced, extremely efficient and virtually maintenance free, you'll use less grease with precision application and avoid the "feast or famine" intervals common with manual application. Extending service intervals keeps your equipment on the job vs in the shop, thereby increasing profitability. Downtime is reduced and component life is dramatically increased. You'll eliminate the possibility of missing lubrication points, with the resultant failed components, equipment downtime, unscheduled overtime, lubricant waste, and lost profits.

ReliaMAX Pumps utilize a timer that provides field adjustable intervals and meters grease according to the specific requirements of each component. A gauge displays system pressure for easy monitoring and the pressure relief valve alerts personnel to protect both the pump and the elements.

Our Installation technicians treat your equipment as if it were their own.

We specialize in the design and installation of automatic lubrication systems on heavy equipment, trucks and trailers, crushers and sweepers.

We take great pride in the integrity of each installation and consider it our unique signature.



BENEFITS

Improve equipment reliability, reduce costly downtime and **eliminate lubricant-related failures**

Extend equipment and component life, prevent premature replacement of parts and machinery

Optimize manpower resources, reduce labor and unscheduled overtime costs

Reduce operating costs and increase company profitability

Generate less waste, reduce lubricant consumption



**DAILY, PRECISE, MANUAL
LUBRICATION IS DIFFICULT
TO ACHIEVE SAFELY...**



GREASES TO USE FOR CENTRALIZED LUBRICATION SYSTEMS



NON HARDENING - NON SEPARATING



CALCULATE YOUR ROI SEVERAL WAYS

- Average time to grease x man hour cost per year
- Average cost to replace bearings, bushings and other components during life of the asset
- Lost production while down for greasing/repair
- Cost of system divided by years of ownership

No matter how you look at it, the installation of LTI's Automatic lubrication system on your mixers provides considerable savings over the life of the vehicle.

Veteran users have us install a system on every new truck they buy and consider it an essential option they would not do without.



PRECISE AUTOMATIC LUBRICATION

- Dramatically reduced lubricant consumption and waste
- Dynamic lubrication ensures lubricant encompasses all load bearing surface areas
- Eliminates contamination as there is no pathway to introduce contaminants
- Ultimate life of components is realized especially when high performance Lubrication Engineers greases are utilized
- Each lubrication point receives specific and appropriate quantities of lubricant
- Frees up operator to be more productive
- Asset produces revenue that would otherwise be lost



REDUCE WEAR + EXTENDS COMPONENT LIFE

- ReliaMAX pumps are equipped with an integrated controller complete with digital readout and audible low-level alarm. They are constructed of corrosion resistant materials.
- A paddle rotates at approximately 20 RPM and scrapes the inside of the acrylic reservoir. The lubricant is forced down into the cavity where the positive displacement pumping unit then meters it to the distribution system.
- Heavy duty ReliaMAX pumping elements utilize a "desmodromic" type design where a cam pushes and pulls the pumping element piston allowing reliable delivery as no return springs are required. The cam driven piston element is capable of pumping NLGI grade # 2 lubricants in sub-freezing temperatures.
- ReliaMAX pumps incorporate a pressure gauge which confirms pump operation and acts as a diagnostic tool.
- Pressure relief valves indicate blockage at any lubrication point by expelling lubricant that personnel can see.
- ReliaMAX DPX Divider valves are configurable to meet any component requirements. The modular element design allows for accurate metering to each point. We use the most appropriate configuration for each application.
- Each ReliaMAX DPX valve assembly has an in-line grease fitting enabling easy diagnostics of a system issue or manual lubrication in the unlikely event of a pump issue.
- Numbered tags on each end of tubing runs provide easy identification and correspond with a flow diagram provided for each system.
- Routing and attachment of hoses is consistent with OEM quality and designed to be user friendly while providing maximum durability of hose runs. Guarding is added where appropriate.
- We've built our reputation on professional installation. If we haven't installed a system on a machine before, we measure every lubrication point and perform surface area calculations to determine the optimum volume of lubricant to be metered to each point to ensure protection of the components with minimal lubricant waste. Even aesthetics matter. We know proper system design concepts.



CALCULATE THE RETURN ON YOUR INVESTMENT

A ReliaMAX Automatic Lubrication System Can Pay for Itself in Less than a Year!

Annual Costs to Manually Lubricate

Labor	Typical	Enter Your Own Numbers
30 minutes per 8-hour shift X \$35 hour X 250 days	\$4,375.00	
Lost Production		
30 minutes per 8-hour shift X \$35 hour X 250 days	\$12,500.00	
Total Manual Lubrication Cost	\$16,875.00	

Costs to Repair Failed Components

Replacement Pins and Bushings		Enter Your Own Numbers
2 Pins X \$500.00 each	\$1,000.00	
Repair Labor		
One Person X \$80/hour X 2 Repairs X 6 hours each	\$960.00	
Lost Production		
2 Repairs X 6 hours each X \$100/hour (Repair Cost)	\$1,200.00	
TOTAL Repair Cost	\$3,160.00	

Annual manual lubrication cost including cost to repair failed pins & bushings

\$15,625.00 + \$3,160.00 =	\$20,035.00	
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Enhanced Employee Safety

What is the Value to Your Company	\$\$\$???	
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ROI

Labor & Lost Production via Manual Lubrication	\$20,035.00	
Estimated cost of an <i>ReliaMAX</i> Centralized Lube System Installed	\$8,500.00	
TOTAL ANNUAL SAVINGS	\$11,535.00	

TOTAL ANNUAL SAVINGS Due to Safely Greasing Equipment ... **\$\$\$\$????**

System cost and return on investment

5-8 months ROI!

Typical installed *ReliaMAX* System cost for a Loader

Return on investment

$\$8,500 / \$11,535 \times 12 \text{ months} = 8.8 \text{ months}$

System cost will vary based on options, local labor costs, and location of installation.

*All numbers are rounded off and based on customer estimates. Your particular cost savings may vary.

NOTE: This is the first year savings. If the machine is kept for 10 years, the annual cost to lubricate is \$850.00 in this example.

WARRANTY

Lubrication Technologies, Inc. will warrant the lubrication system components for a period of two years from the date of sale or installation by Lubrication Technologies, Inc. against defects in materials and workmanship. Lubrication Technologies, Inc. warrants the installation (if applicable) for one year from date of the installation performed by Lubrication Technologies Inc. If components and/or the installation prove to be defective during this warranty period, it will be repaired, altered, or replaced without charge. In the event of a warranty claim, Purchaser must immediately notify Lubrication Technologies Inc, in writing, of system, component, installation, or performance defects. Lubrication Technologies, Inc. will make every effort to address warranty issues in a timely fashion. In no event shall Lubrication Technologies, Inc. be liable for incidental or consequential damages, lost production or downtime costs.

These warranties do not apply to the machine or any of the components lubricated by the system it is installed upon, or any other equipment or accessories, any installation labor or performance defects thereupon or damage from accident, overload, abuse, misuse, use of non-approved lubricants, negligence, abrasive or corrosive materials, or to equipment repaired or altered by anyone not authorized by Lubrication Technologies, Inc. to repair or alter the equipment.