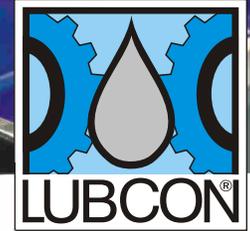


Partner for Reliability and Performance



# Total Lube Management

Total Lube Management starts at the design phase of machines and ends with reliable every day lubricant organizations, supply, application and technical support. LUBCON has a long history of supporting the OEM's in the right choice of lubricant and lubrication method. In close cooperation with the OEM the lubricants are then optimized for best performance, lowest friction, best wear protection, thus durability and reliability of machines. The availability of LUBCON lubricants is guaranteed throughout the world wide network of LUBCON representatives and certified distributors.



## Maintenance, Planning and Execution

Complex machinery like printing presses are supposed to perform 24/7 over many years of operation. In order to achieve such a reliable performance the lubrication condition of all moving components is of utmost importance. However, lubricants when exposed to mechanical and thermal conditions are subject to ageing and require regular refreshment. In printing presses, this applies to main shaft bearings as well as to gripper bars, pin chains, joints and numerous other lubrication positions. Reliable machine performance is thus strongly related to a well organized and executed maintenance procedure.

In close cooperation with printing press operators, lubrication charts were developed to enable quick reference to the actual maintenance procedure. This provides condensed guideline to maintenance staff and for documentation and traceability of the lubrication history.

Well documented and referenced lubrication positions as well as the corresponding lubricants enable the maintenance staff to always select the right product for the right application. The completion of maintenance is then documented by the operator and stored in the maintenance manual. The maintenance schedule is used to determine the lubricant consumption and to plan for optimum lubricant inventory.

## Reduce Your Stocks Reliable Just in Time Lubricant Delivery

LUBCON supplies the full range of approved lubricants for the printing industry. From transmission oils to bearing greases and chain lubricants as well as cleaning and preservation media are available from one source. All lubricants are kept in stock and available for direct delivery.

The maintenance schedules are utilized to determine the lubricant need of individual customers. Stocks at customers can thus be kept at a minimum levels, just to cover the immediate need. Advanced planning enables lubricant availability on customers work floor when needed.

LUBCON lubricant packaging has been optimized for the application requirements in order to avoid overstock on the work floor.

Various lubricants are available in aerosol cans, cartridges, pails and 55 gal drums, depending on the actual consumption of customers machinery.



## Advanced Labeling Information

LUBCON product labeling contains the KBA machine and application for the lubricant. This provides the maintenance personal with continuity between the company KBA and LUBCON.

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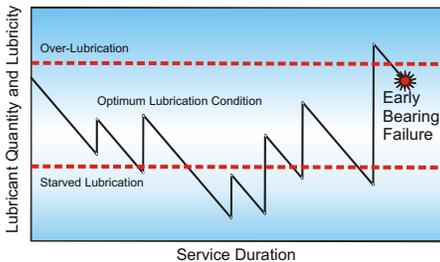
Lubrication Charts - Guideline and Documentation of Maintenance

# Total Lube Management

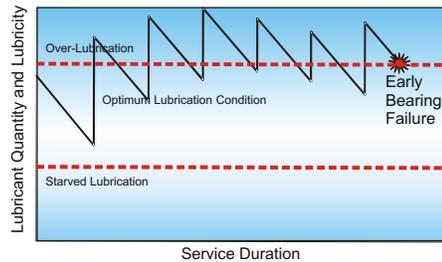
Partner for Reliability and Performance



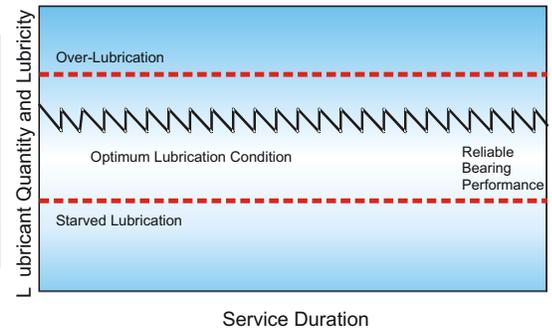
## Under-Lubrication



## Over-Lubrication



## EasyMatic



Good performance and thus productivity can only be achieved if all machine elements like electrical motor, support bearings, joints, conveyor chains etc. operate with high precision over long periods of time. To maintain the precision of such components, it is of utmost importance to eliminate wear and to maintain a good lubrication condition under all circumstances. The quality and accuracy of the actual lubrication process determines the reliability and productivity of such machines.

In practice, lubrication of machines is combined with reasonably irregular quantity of lubricant as well irregular lubrication periods. As a consequence this may result in frequent starved lubrication operating conditions where damage is initiated. Eventually it will result in early and unpredictable bearing failure. Over-lubrication of the bearings is no option either. Too much grease causes higher friction, heat, vibrations and thus tougher bearing operating conditions. Eventually this results as well in an early bearing failure.

The solution to this problem is a well trained maintenance staff, well organized maintenance procedures and well documented maintenance process. This applies for manual as well as to automatic lubrication. Planning, execution and traceability are the key parameters for a reliable operation. LUBCON contributes on all levels to make this a success.



## LUBCON Lubrication Systems



**TLB 2000** - The automatic pin chain lubricator supplies accurate lubricant quantities with precise timing to conveyor chains. Optimum lubrication with Lubcon chain oils and accurate minimum oil quantities extends the chain life up to factor 3.



**EasyMatic** - The smart automatic lubricator for oils and greases for up to 22 lubrication positions (44 with two pump elements). This is designed for automatic long term lubrication of machinery in industrial environments.



**MicroMax 120** - Single point lubricator for automatic lubrication up to a maximum of 3 years. It can be used for any individual bearing, ball screws, gears, etc with a large variety of long life greases.



**DuoMax 160** - Double point lubricator for maintenance free operation of e.g. electrical motors up to a maximum of 3 years. This also can be used for fan shaft bearings and many others with a large variety of long life greases.



**QuattroMax 30** - The minimum quantity lubricator for high speed spindle lubrication is the only unit that can supply grease to grease lubricated spindles during operation. Lubrication of linear guides, high precision ball screws etc.

LUBCON Turmo® Lubrication, Inc.  
Lubricants · Lubrication Engineering

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Toll Free: 877-887-6658 · inquiry@lubconusa.com · www.lubconusa.com

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