

BEKAMAX

The Complete System Program
for Agricultural Machines



AT0000000119 EN 1090200353



BEKA
LUBRICATION

The Central Lubrication System for Agricultural Machines

During harvest time, each minute counts. The operational reliability of an agricultural machine depends on sufficient lubrication. But manual greasing costs much time and money. Maintenance works are expensive, but a standstill of a machine costs much more.

The easy way of maintenance

During the machine is in operation, the BEKAMAX lubrication system supplies all lube points with the necessary grease. Absolutely reliable, electronically controlled and precisely metered.

Each bearing receives the right quantity of lubricant at the right time. Without any standstill times!

This improves the operational reliability of the machines and reduces maintenance.



EP1

The grease lubrication pump for all kinds of application:



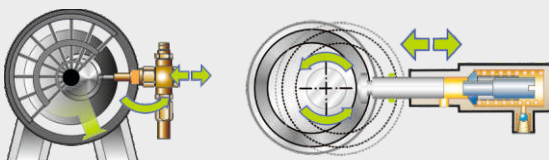
- Heavy duty components
- Suitable for all common lubricants (NLGI 000, 00, 0, 1, 2)
- Pump element with desmodromic actuation for highest reliability also at low temperatures
- Reservoir sizes: 1.9 / 2.5 / 4.0 / 8.0 kg with agitator blade
- Integrated control unit EP-tronic with
 - 3 control functions: time, cycle or revolution
 - electronic function monitoring
 - electronic selection program EWP for easy, medium or heavy use
 - integrated data logger with diagnosis module
- Perfectly matched installation kits
- Used as initial equipment by leading manufacturers

GIGA

The modular pump of the latest generation:



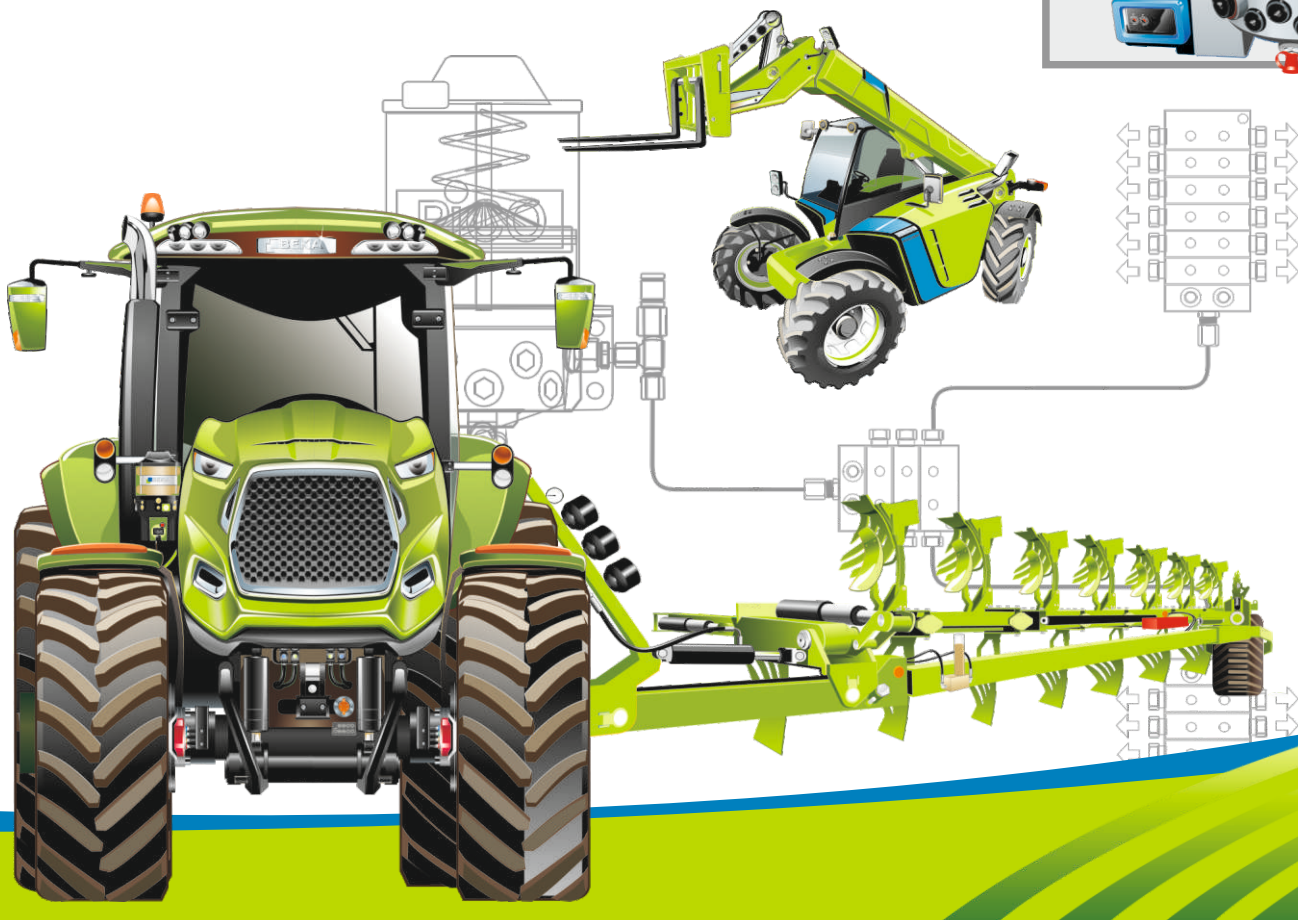
- High output up to 12,0 cm³/min
- 3 outlets
- Operating pressure max. 300 bar
- Suitable for all common lubricants (NLGI 000, 00, 0, 1, 2)
- Pump element with desmodromic actuation for highest reliability also at low temperatures
- Reservoir sizes: 4.0 / 8.0 / 16.0 kg with agitator blade
- Suitable for all lubrication systems: Single-line - Multi-line - Progressive - Sectional
- Various control unit types available: External - GIGA-tronic - GIGA-multitronic
- Monitoring of flow rate, pressure and grease level



Desmodromic actuation of the pump elements

The pump elements have a desmodromic actuation. This guarantees a reliable functioning of the pump even with rigid grease (up to NLGI 2) and at very low ambient temperatures!

The Compact Lubrication System



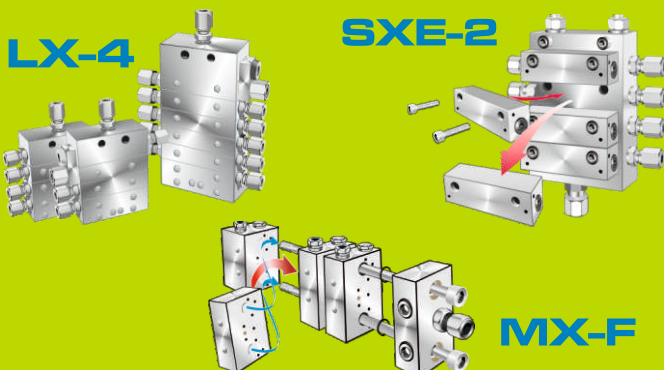
PICO - the innovative central lubrication system for modern agricultural machines

The PICO system is the ideal combination of functionality and flexibility with compact dimensions. The PICO system is the unique symbiosis of two lubrication systems: Progressive and multi-line technology.

The powerful PICO pump supplies up to 8 lube points directly. Without distributor! To feed more lube points, PICO can be extended with a progressive distributor. Even a second progressive circle is possible.

PICO is a modular system which can be used for all agricultural vehicles, machines or trailers - for both initial equipment (OEM) and retrofitting.

- Very compact design
- Unique combination of two lubrication systems: Progressive and multi-line technology
- Suitable for all common lubricants (NLGI 000, 00, 0, 1, 2)
- Reservoir capacity 1.2 kg with level monitoring
- Flexible extension possibilities
- Integrated control unit PICO-tronic with
 - 3 operating modes: time, cycle or revolution
 - electronic function monitoring
 - electronic selection program EWP for easy, medium or heavy use
 - integrated data logger with diagnosis module
- Perfectly matched installation kits for each vehicle or machine in OE quality



BEKAMAX progressive distributors

- Modular design for optimum feed rates
- Flexible extension possibilities
- Highest precision of delivery rate
- Comprehensive program of distributor types - also suitable in stainless steel
- Optionally with blockade control

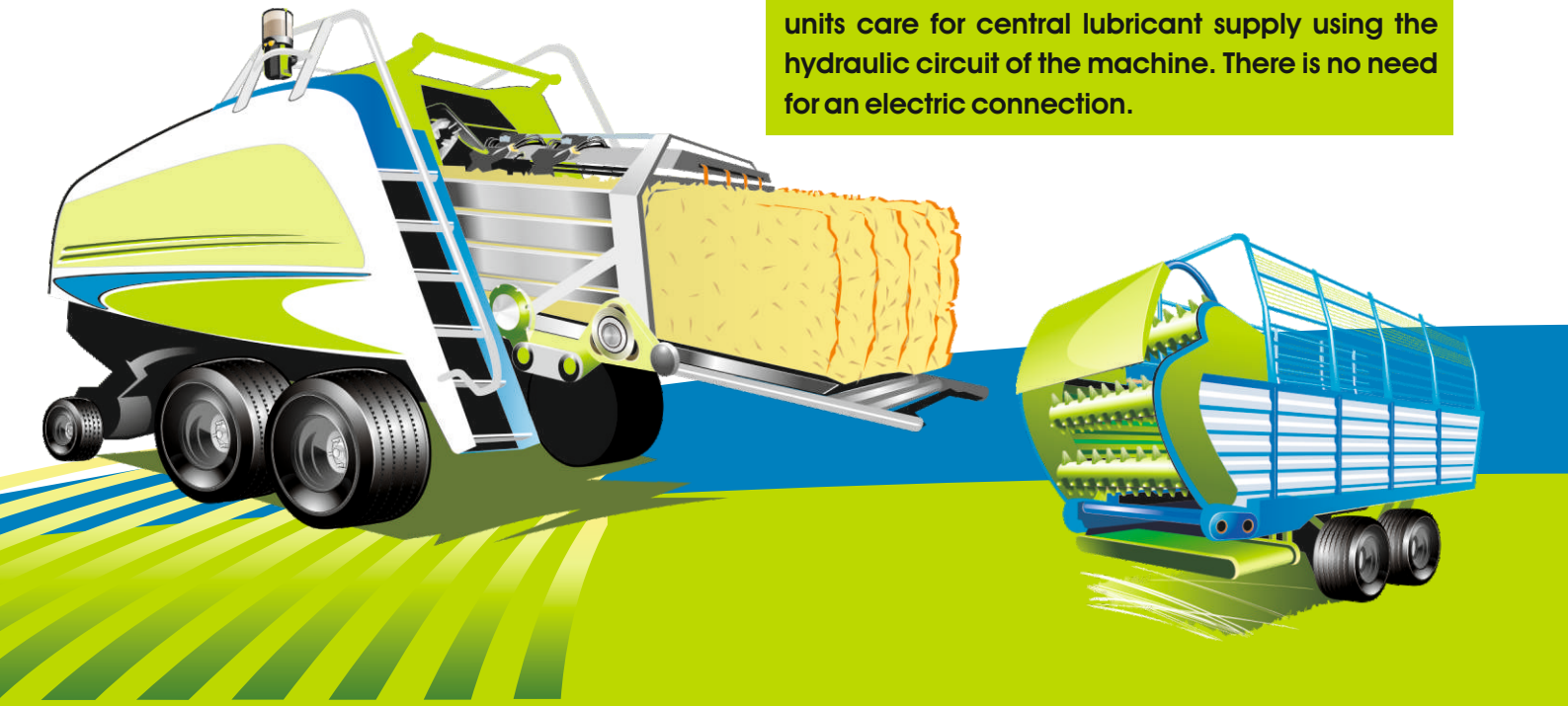
Flexible, precise, modular!

Central Lubrication Systems with Hydraulic Drive

Many agricultural machines like balers or spreaders have a large number of lube points which need an automatic lubricant supply during operation.



The hydraulically actuated BEKAMAX lubrication units care for central lubricant supply using the hydraulic circuit of the machine. There is no need for an electric connection.



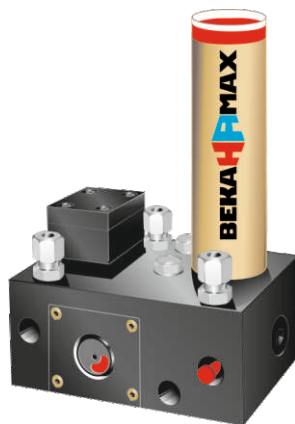
Central lubrication systems with hydraulic drive

BEKAMAX offers a broad range of different hydraulic pumps: pumps with hydraulic motor, pulse-lubricating pumps as well as different reservoir sizes and cartridge systems.

Some types are suitable for oil and grease up to NLGI 2.

BEKAMAX SYSTEM KOMPAKT

- Delivery rate can be adjusted by throttle
- Steady supply with hydraulic motor
- Economic operation by the use of standard cartridges
- For supply of one lube point or of progressive system with several lube points



HP-1

- Delivery rate can be adjusted by throttle
- Steady supply with hydraulic motor
- Large reservoir sizes for long operation (1.9 - 8.0 kg)
- For supply of several progressive circuits with different delivery rates
- Clean filling with the help of filling connection (optional)

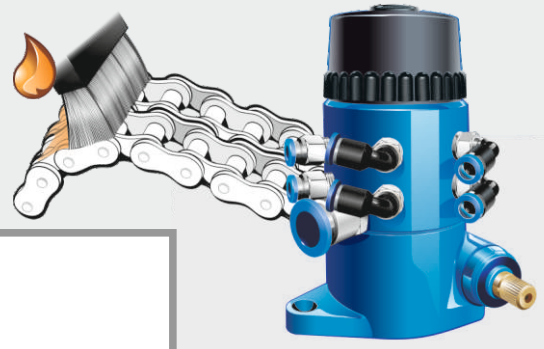


HPM-2 HPM-2S

- Robust and compact design
- Adjustable delivery rate
- Pulse lubrication
- Can be combined with progressive distributors
- Economic operation by the use of standard cartridges



The Chain Lubrication Systems

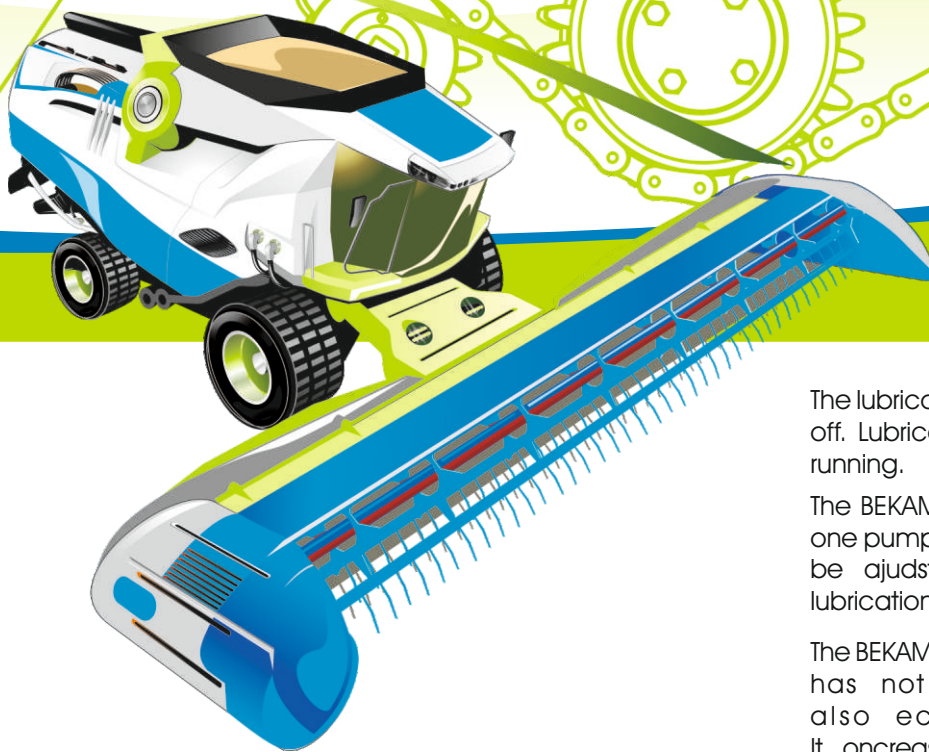


Drive chains of agricultural machines like combined harvesters, loading wagons, compost spreaders, round balers or square balers are subject to a very high wear and tear. They need intensive care to reduce replacement rates.

The BEKAMAX chain lubrication systems considerably improve the lifetime of drive chains and even protect the environment.

The advantages at one glance:

- Compact design
- Mechanical, hydraulic or electrical drive
- Individually adjustable lubrication circles
- Increased lifetime of drive chains
- Low lubricant consumption
- Only the running chains are lubricated
- Retrofitting kits in OE-quality



The lubricant is applied onto the chains and nothing drips off. Lubrication takes place only when the machine is running.

The BEKAMAX system provides up to 12 oil brushes with one pump. The feed rate of the different lube points can be adjusted individually. For precise and efficient lubrication.

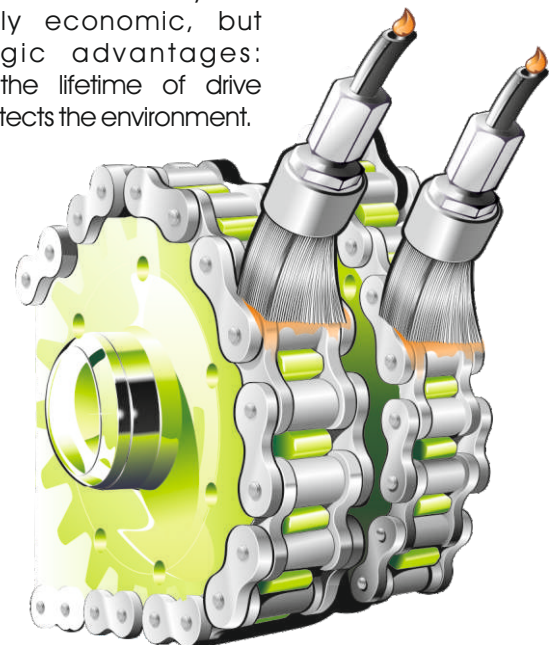
The BEKAMAX chain lubrication system has not only economic, but also ecologic advantages: It increases the lifetime of drive chains and protects the environment.

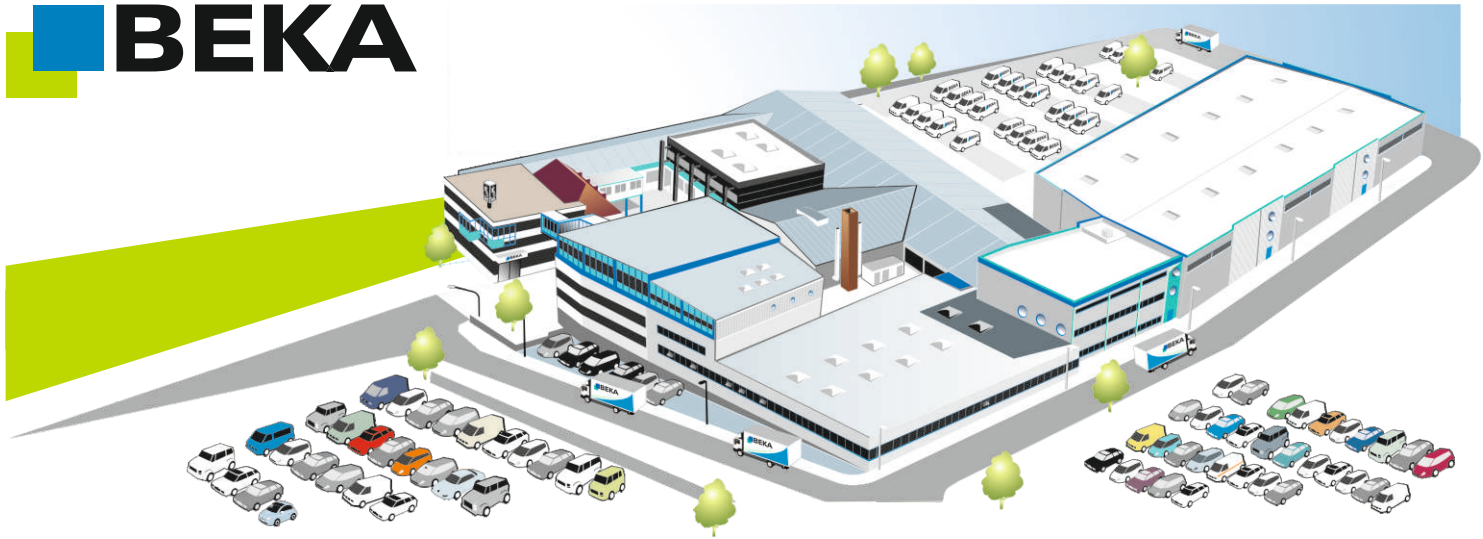
Lubrication by chance?

Conventional chain lubrication systems have one big disadvantage: In most cases, the lubricant is applied while the chains are standing still. Besides, the metering of the lubricant is not very precise in many cases. Some parts of the chains receive far too much lubricant, while others stay dry. Constant over-lubrication will lead to lubricant leakage and dripping.

BEKAMAX: The better solution

The BEKAMAX operating principle is different. The chains are supplied steadily with very small oil quantities while they are running.





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