



Technology  
you can  
rely on

## The Complete System Program for Agricultural Machines

Central Lubrication Systems    Compact Lubrication Systems    Chain Lubrication

# BEKA-MAX



## The Central Lubrication System for Agricultural Machines



### GIGA

The modular pump of the latest generation

- Powerful
- Precise
- Flexible
- Versatile
- Intelligent

**BEKA-MAX offers a broad range of central lubrication systems for all kinds of agricultural machines - from simple hand pump to fully automatic maintenance systems.**

The problem is well-known: During harvest time, each minute counts. The operational reliability of an agricultural machine depends on sufficient lubrication.

But manual greasing of 90 or even more lube points 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 BEKA-MAX 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 costs.

#### Electronic control

The electronic control of the central lubrication is adapted to the operating conditions of the vehicle and activates the pump in the fixed interval.

#### Desmodromic actuation of the pumping elements

The pumping elements are not driven by a simple return spring but have a desmodromic actuation.

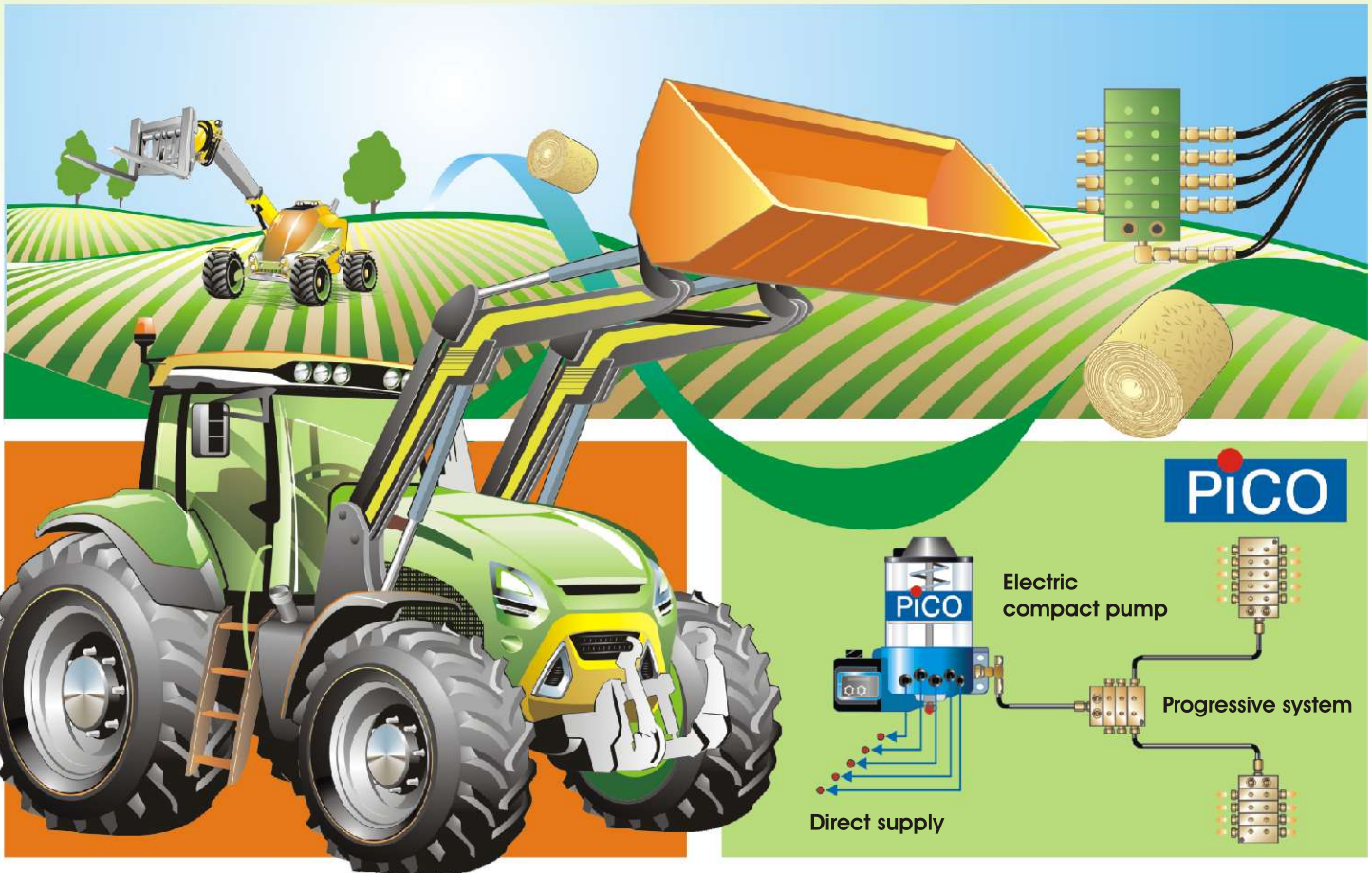
This guarantees a reliable functioning of the pump even by the use of rigid grease (up to NLGI 2) and very low ambient temperatures.



- Heavy duty components
- Suitable for all common lubricants (up to NLGI 2)
- Pumping elements with desmodromic actuation for highest reliability
- Modular reservoir sizes
- Integrated control unit with
  - 3 operating modes: Time, cycles or revolutions
  - electronic 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!**

# The Compact Lubrication System



## PICO - the innovative central lubrication system for compact vehicles, machines and trailers

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: Multi line and progressive technology.

The powerful PICO pump supplies up to 8 lube points directly. Without distributor! To feed more lube points, the system 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.

It is suitable for initial equipment (OE) or 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 three operating modes: time, cycles or revolutions
  - electronic monitoring
  - electronic choice of operating conditions EWP: easy, medium or heavy use
  - integrated data logger with diagnosis module
- Perfectly matched installation kits for each vehicle or machine in OE quality

## Flexible, precise, modular.

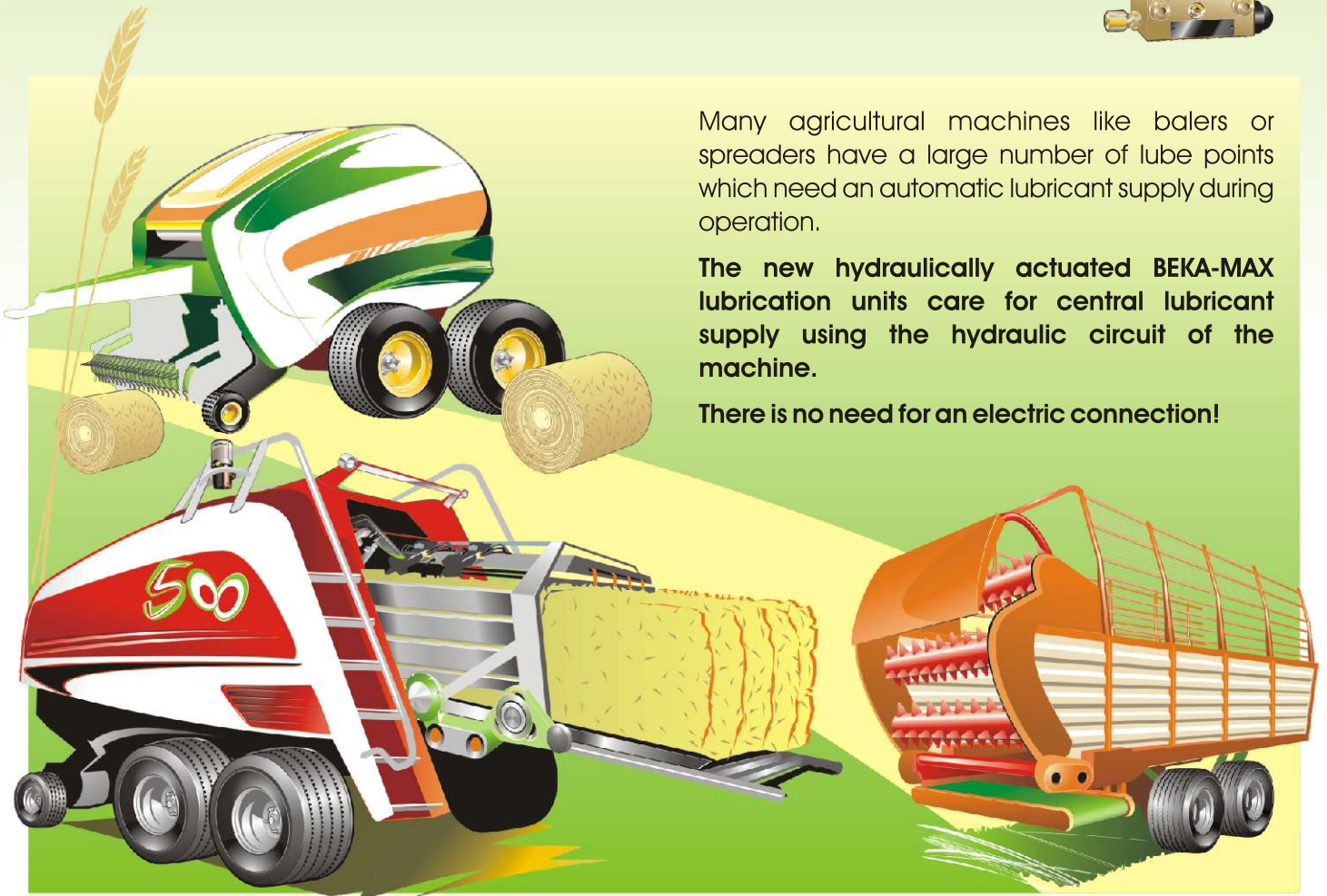


## BEKA-MAX progressive distributors

- Modular design for optimum feed rates
- Flexible extension possibilities
- Highest precision
- Comprehensive program of distributor types
- Optionally with monitoring and blocking control

**Also suitable in stainless steel!**

# Central Lubrication Systems with Hydraulic Actuation



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

The new hydraulically actuated **BEKA-MAX** 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

BEKA-MAX offers a broad range of different hydraulic pumps, like single or double-acting piston pumps, pumps with hydraulic motor, hydraulic feeders as well as different reservoir and cartridge systems.

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

### HAMAX11

- Suitable for lubricants with solids
- Delivery rate can be adjusted as required
- Activation of the delivery by impulse - suitable for applications without steady hydraulic flow
- Only one hydraulic connection no return flow necessary
- Various reservoir sizes (100, 200 and 400 cm<sup>3</sup>)
- To supply one lube point directly or to feed a progressive system with several lube points



### HAMAX 2

- Delivery rate can be adjusted by hydraulic input
- Steady supply with hydraulic motor
- Economic operation by the use of standard cartridges
- Visual indication of the lubricant level
- To supply one lube point directly or to feed a progressive system with several lube points

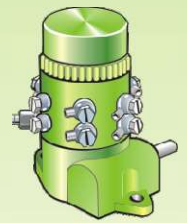


### HP-1

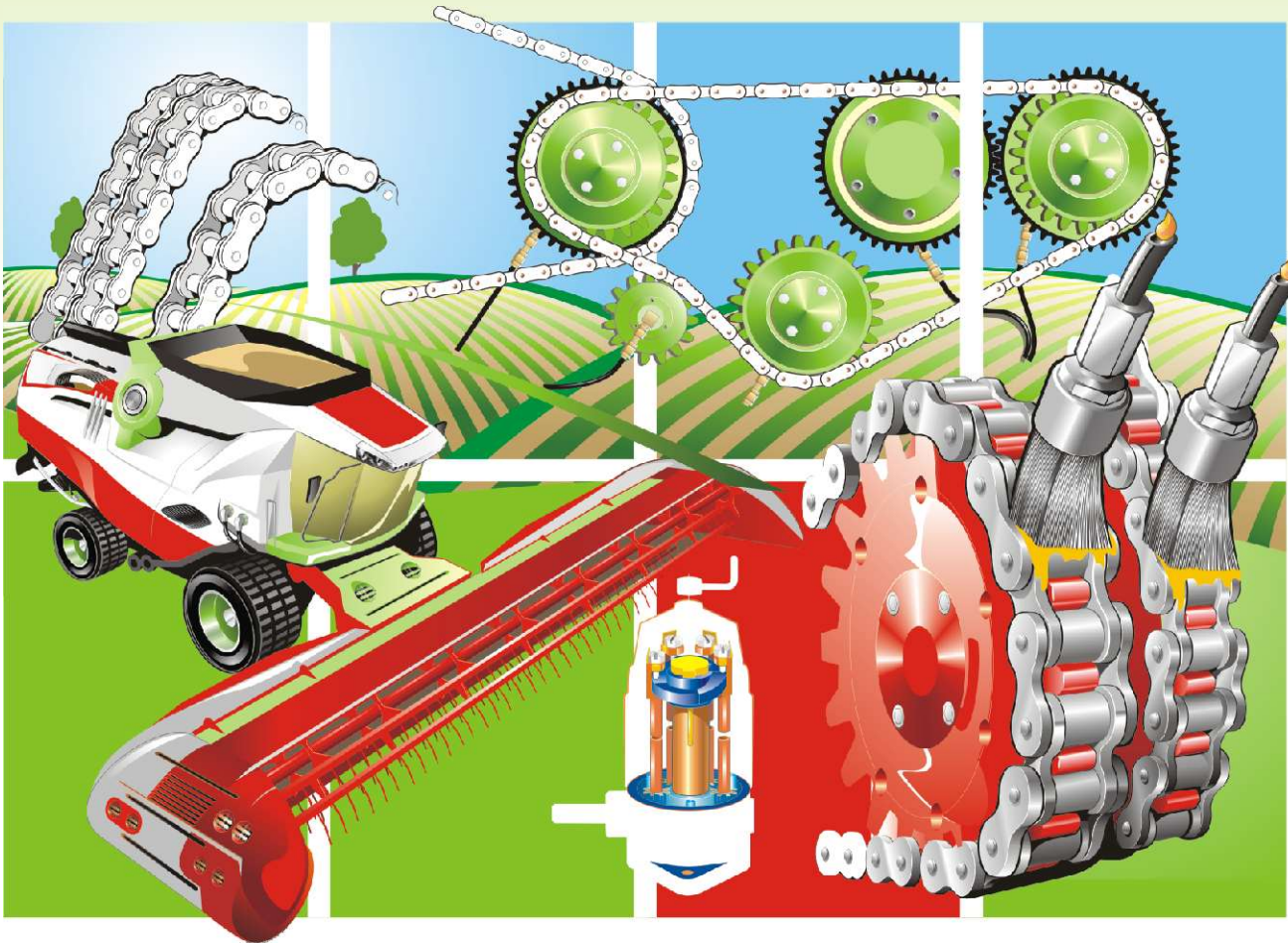
- Delivery rate can be adjusted by hydraulic input
- Steady supply with hydraulic motor
- Large reservoir sizes for long operation (1,9 - 8,0 KG)
- To supply several progressive circuits with different delivery rates
- Quick filling connector



# BEKA-MAX



## The Effective Chain Lubrication System



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 BEKA-MAX chain lubrication system considerably improves the lifetime of drive chains and even 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. 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. The steady over-lubrication leads to a dripping off of the lubricant into the soil and thus to an avoidable environmental pollution.

### BEKA-MAX: The better solution

The BEKA-MAX operating principle is different. The chains are supplied steadily with very small oil quantities while the chains are running.

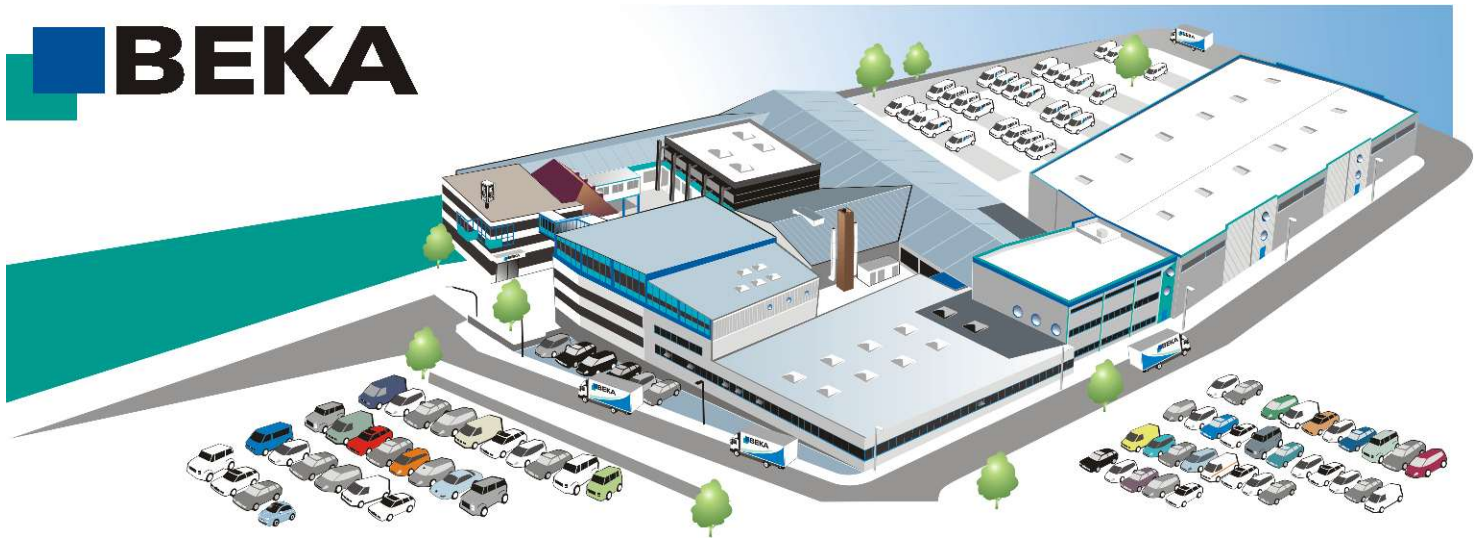
The lubricant is applied onto the chains and nothing drips off.

The BEKA-MAX 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 BEKA-MAX chain lubrication system has not only economic, but also ecologic advantages: It increases the lifetime of drive chains decisively and protects the environment - a real good combination.

### The advantages at one glance:

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



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PRÄZISIONSAPPARATEFABRIK

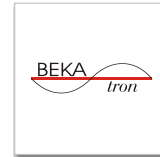
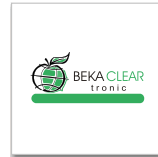
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