

# BEKA-MAX



The Central Lubrication.



Technology  
you can  
rely on

## The Complete System Program for Construction Machines

Central Lubrication

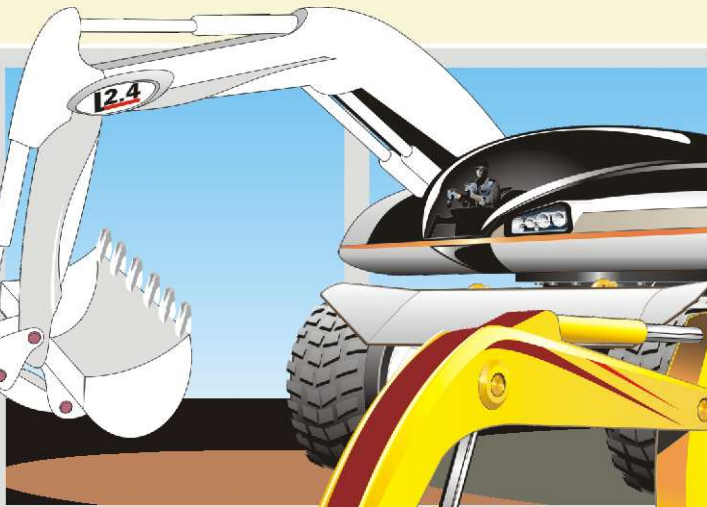
Breaker Lubrication

Control Systems

# BEKA-MAX



## The central lubrication system for construction machines



At a construction site each minute counts.

Construction machines have to work - they may not break down, least of all because of an avoidable defect, caused by a lack of lubrication. Highly loaded pins, bearings and joints need regular care. But manual greasing costs much time and money.

Maintenance works are expensive, but downtimes of a machine cost much more. You can forget all these problems with a BEKA-MAX central lubrication!



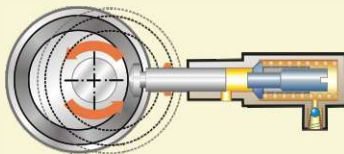
### The easy way of maintenance

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



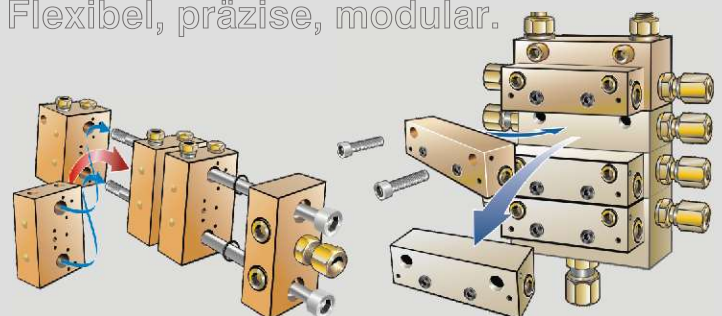
### Desmodromic actuation of the pumping elements

The pumping elements are not driven by a simple return spring but have a desmodromic push-pull 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!

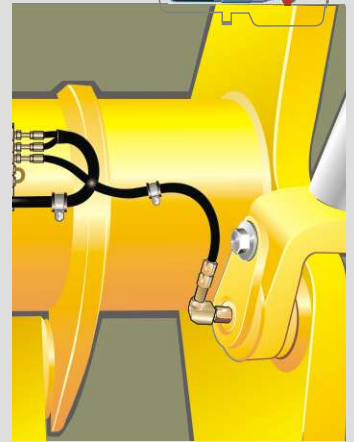
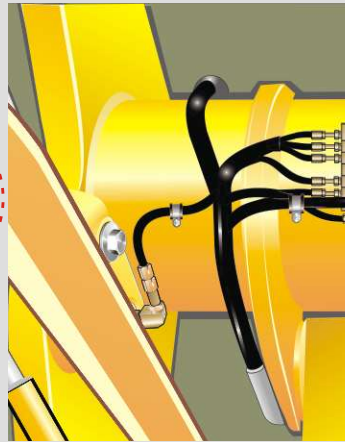
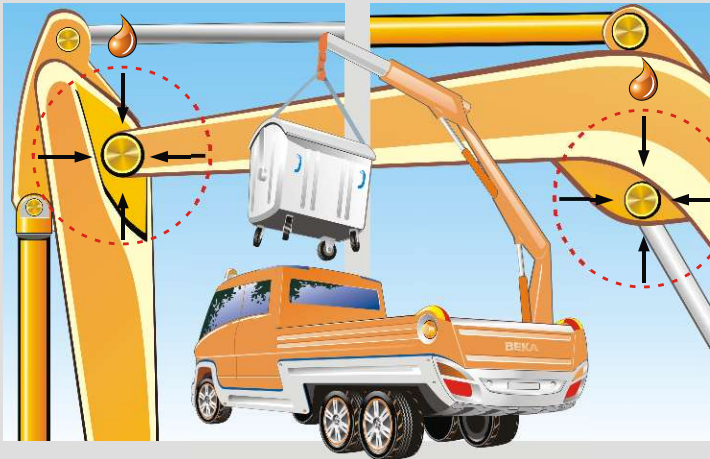
- Heavy duty components
- Suitable for all common lubricants (NLGI 000, 00, 0, 1, 2)
- Pump element with desmodromic drive for highest reliability
- Reservoir capacities: 1.9/ 2.5/ 4.0/ 8.0 kg
- Integrated control unit EP-tronic with
  - 3 operating modes: time, cycles or revolutions
  - electronic function monitoring
  - electronic choice of operating conditions EWP: easy, medium or heavy use
  - integrated data logger with diagnosis module
  - interface to the telemetric system BEKAtraX
- Perfectly matched installation kits in OE quality
- Used as initial equipment by leading manufacturers

Flexibel, präzise, modular.





# The compact lubrication system



Smaller construction machines like compact excavators or compact wheel loaders usually have only a little number of lube points. Apart from that, the installation of a central lubrication is difficult because of the restricted space. Especially for these applications, BEKA-MAX has designed the PICO compact lubrication system.

PICO - big performance with small dimensions.

## PICO - the innovative central lubrication system for compact vehicles and 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: 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.

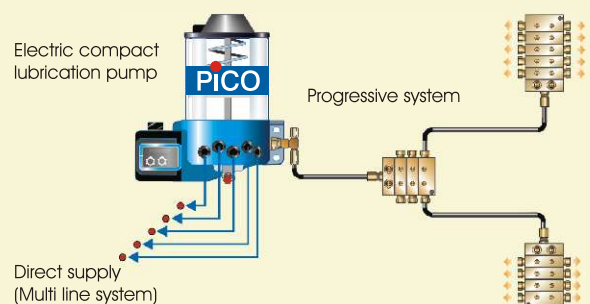
PICO is a modular system which can be used for all common vehicles and machines.

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 operation conditions EWP easy, medium or heavy use
  - integrated data logger with diagnosis module
  - interface to the telemetric system BEKAtraX
- Perfectly matched installation kits for each vehicle or machine in OE quality

## BEKA-MAX progressive distributors

- Modular designed distributor system for optimum lubricant feed rates
- Flexible extension possibilities
- Highest precision
- Comprehensive program of distributor types
- Optionally with monitoring and blockade control
- Also in stainless steel





## Lubrication systems for hydraulic breakers

Hydraulic breakers are highly-stressed add-on tools for construction machines. Caused by the high mechanical load, wear and tear of the chisel is very high.

To reduce wear and tear of the chisel, it has to be supplied with special lubricants.

BEKA HAMAX breaker lubrication systems guarantee the steady lubrication of highly loaded bearing points. Caused by the special design of the pumps it is even possible to deliver lubricants with high solids contents like copper chisel lubricant.

### No application is like the other.

That's why BEKA HAMAX offers no standard tools, but tailor-made solutions. This means: The ideal lubrication system for each application.

### Advantages BEKA HAMAX:

- Effective reduction of wear and tear
- Higher productivity without lubricating services
- Trouble-free operation with HD-components
- With hydraulic or electric drive
- Reliable even with low temperatures
- Suitable for special lubricants

## BEKAHAMAX<sup>1</sup> SYSTEM

### The universal and rugged breaker lubrication system

- Suitable for lubricants with solids
- Adjustable lubricant output
- Activation by impulse - therefore suitable for applications without steady hydraulic flow
- Only one hydraulic connection (no return flow)
- Various reservoir sizes

## BEKAHAMAX<sup>2</sup> SYSTEM

### The Heavy Duty lubrication system

- Installation at the breaker - ideal for the use with different machines
- Adjustable lubricant output
- Simple design for highest reliability
- Hydro drive for steady delivery rate
- Low operation costs by common cartridges

## BEKAHAMAX<sup>EP</sup> SYSTEM

### The electric operated lubrication system

- Protected installation at the excavator
- Large steel reservoir for long operating times
- Economic operation with grease from the barrel
- With electronic controller and optional level monitoring for highest security
- With push-pull pump elements



# The Telemetric Platform

## BEKAtraX

The multi-functional telemetric platform BEKAtraX combines localization, data collection, remote monitoring and communication in a compact unit.

BEKAtraX offers besides GPS localization any comfort to avoid theft and illegal use of machines and vehicles all around the clock and to monitor the degree of utilization and operating times.

All that with each PC or notebook with internet access - without need for any additional software.



- Visualization of position and routes
- Monitoring of operating hours
- Monitoring of technical parameters
- Automatic evaluations and reports
- Effective anti-theft protection
- Integrated maintenance data base

## X-LOADtronic 3

Modern wheel loaders and excavators are designed for highest productivity under all conditions. It is important not to lose this performance after installing a weighing system.

The X-LOADtronic 3 weighing system will never tell you to slow down. The weighing procedure happens without any standstill times. Even on rough surfaces. Because X-LOADtronic3 offers the highest dynamic.

X-LOADtronic 3 is very easy to use and offers an operator-friendly user surface with integrated help desk.

X-LOADtronic 3 is approved according to the latest European regulations. It can be calibrated and is suitable for legal trade, making it possible to sell products directly from the loader.



- Accurate under all conditions
- Easy handling
- Weighing without standstill
- Approved acc. to MID 006 OIML R 51
- USB data transfer to PC
- Calibration possible

# The Dynamic Weighing System