

BEKAMAX

The Complete System Program
for Construction Machines

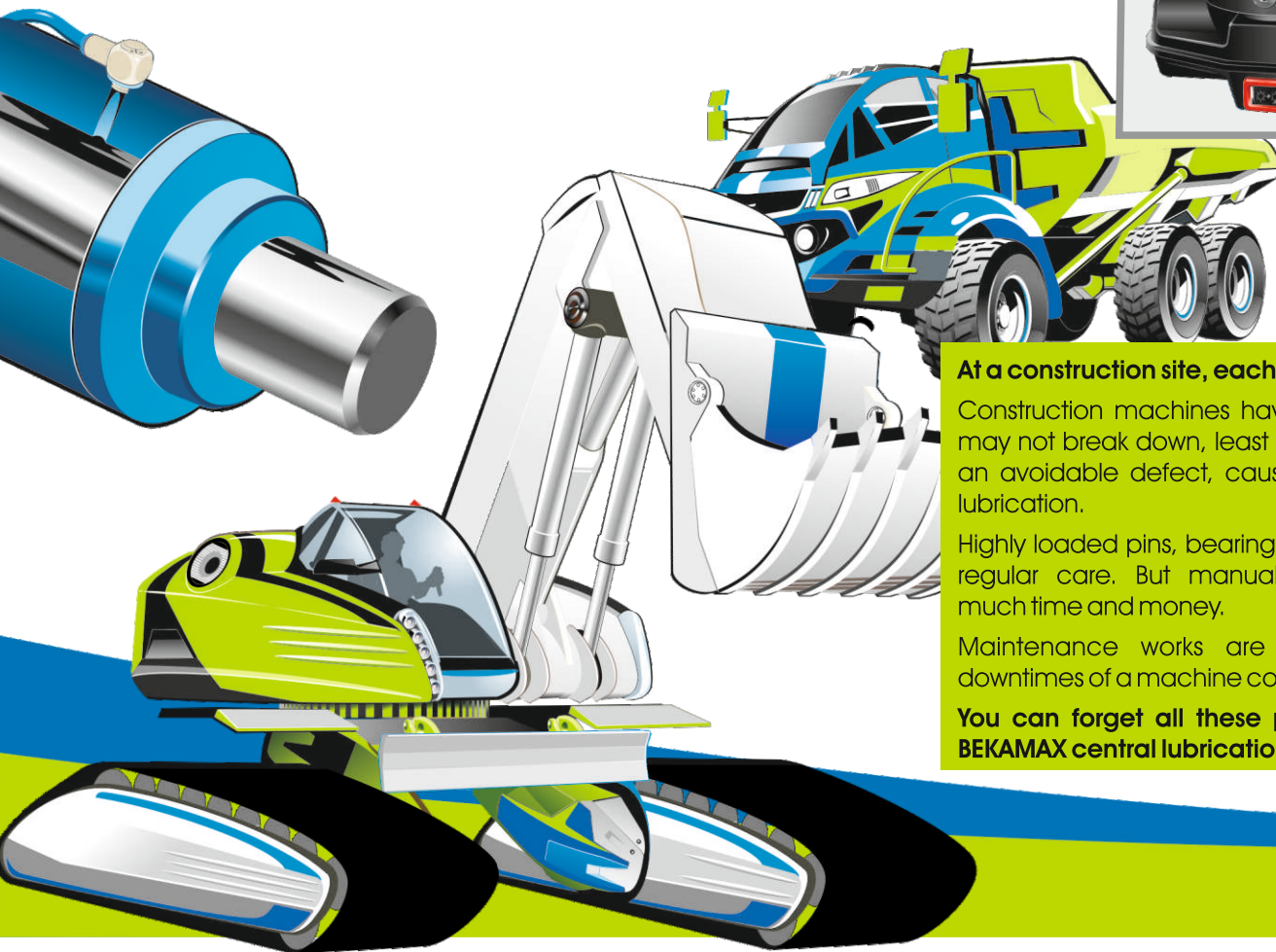


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BEKA
LUBRICATION

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 BEKAMAX central lubrication!

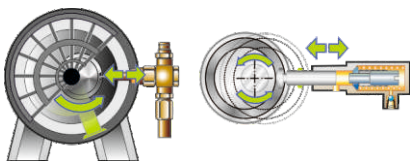
The easy way of maintenance

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 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.



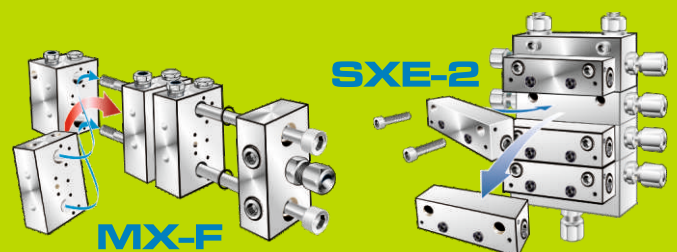
Desmodromic actuation of the pump elements

The pump elements are not only driven by a simple return spring but have also 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 at 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
- Perfectly matched installation kits in OE quality
- Used as initial equipment by leading manufacturers

Flexible, precise and 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 system is difficult because of the restricted space.

Especially for these applications, BEKAMAX has designed the compact PICO system.

PICO - high performance in a small space!



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.

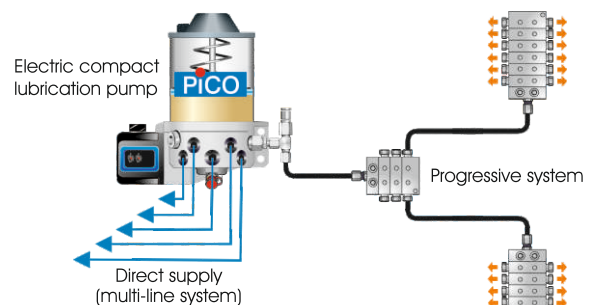
PICO is a modular system which can be used for all common vehicles and machines.

It is suitable for initial equipment (OE) or retrofitting.

- Very compact design
- Unique combination of two lubrication systems: Multi-line and progressive 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
- Perfectly matched installation kits for each vehicle or machine in OE quality

BEKAMAX progressive distributors

- Modular designed distributor system
- 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

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



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.

BEKA HAMAX breaker lubrication systems guarantee the steady lubrication of highly loaded bearing points. Due to the special design of the pumps, it is even possible to deliver lubricants with high solid 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.

The lubrication system installation directly at the breaker



- Suitable for lubricants with solids
- Adjustable lubricant output
- Activation by impulse - suitable for applications without steady hydraulic flow
- Just one hydraulic connection (no return flow)
- Various reservoir sizes (100 / 200 / 400 cm³)
- For the direct supply of lube points or to feed a progressive system

The heavy duty lubrication system for high demands



- 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

The strong solution with compact dimensions



The system for excavators which are usually operated with the same breaker



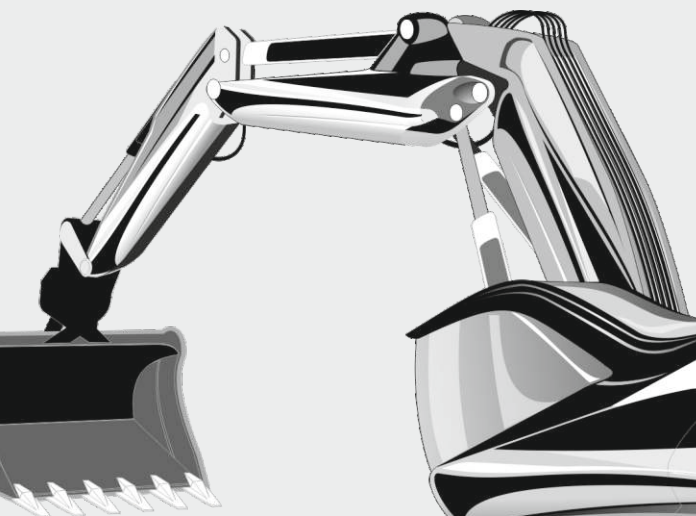
- Protected installation at the excavator
- Large steel reservoir for long operating times without refilling
- Very economic operation with grease from the barrel
- With electric (EP) or hydraulic (HP) drive
- Reliable BEKAMAX technology

GIGA

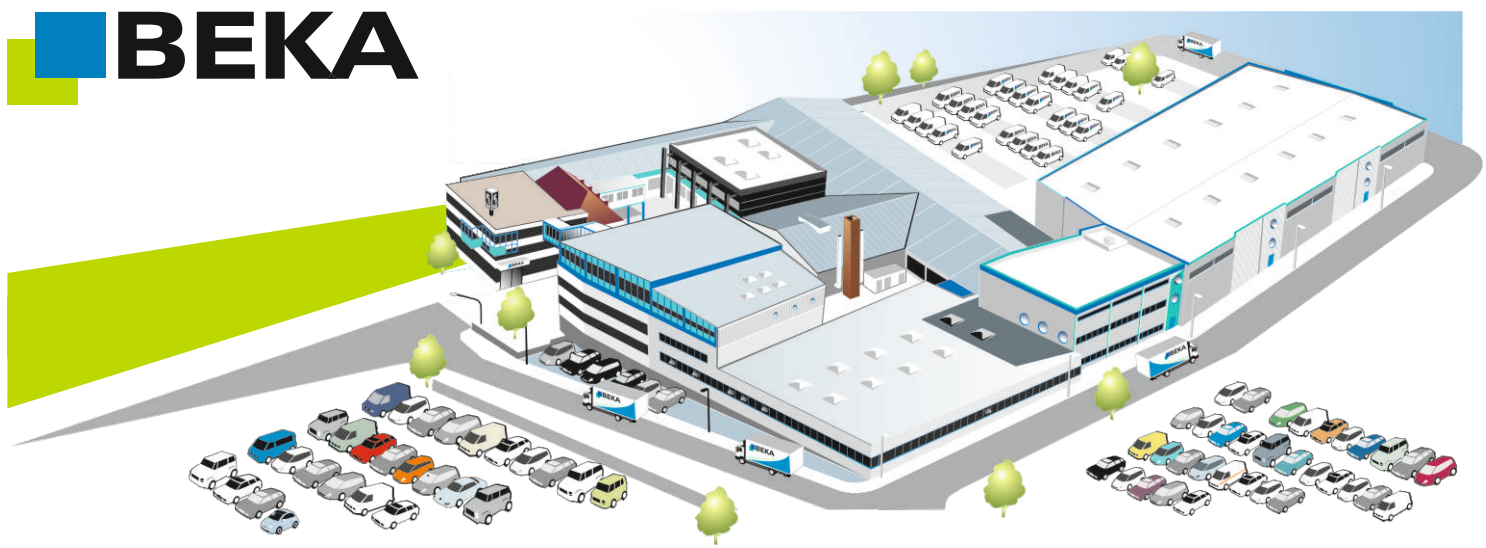
The modular pump of the latest generation



- **Powerful**
Output up to 12.0 cm³/min
- **Precise metering**
Always exactly the right delivery rate
even with different lubricants
- **Flexible use**
Suitable for all lubrication systems:
Single line - dual line - multi line -
progressive - sectional
- **Intelligent**
Various controller systems available:
External - GIGAtronic - GIGA-multitronic
- **Wide range of reservoirs**
Sizes 4 / 8 / 16 kg with agitator blade
- **Functional monitoring**
 - Flow meter
 - Pressure monitoring
 - Grease level monitoring



Suitable for all lubrication systems:
SINGLE LINE - DUAL LINE - MULTI LINE - PROGRESSIVE - SECTIONAL



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