



Technology
you can
rely on

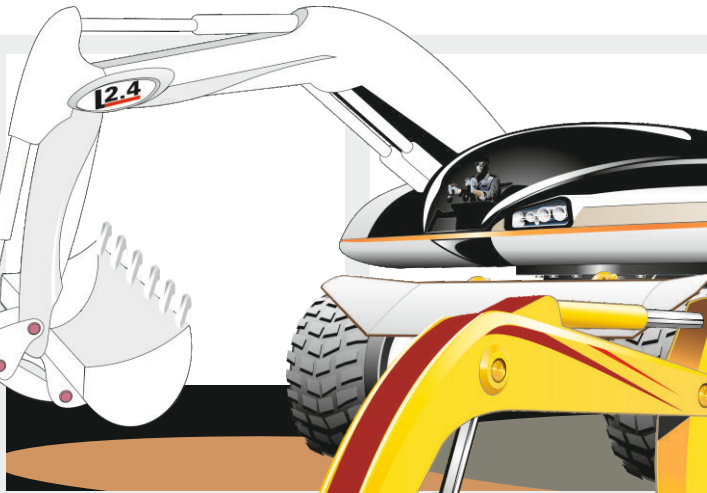
The Complete System Program for Construction Machines

Central Lubrication

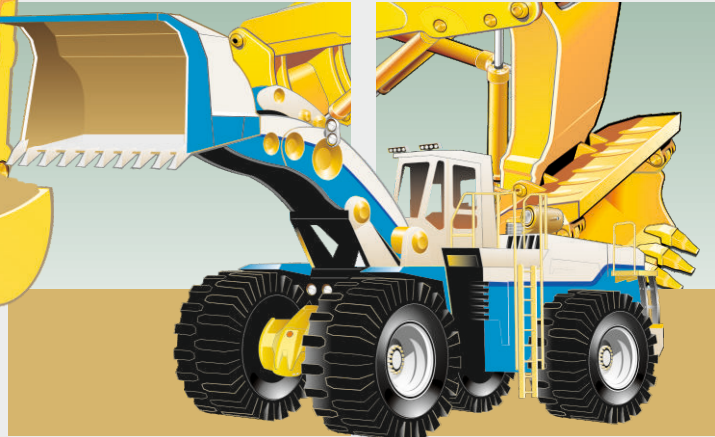
Breaker Lubrication

Control Systems

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!



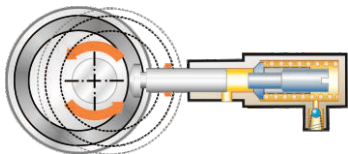
The easy way of maintenance

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.



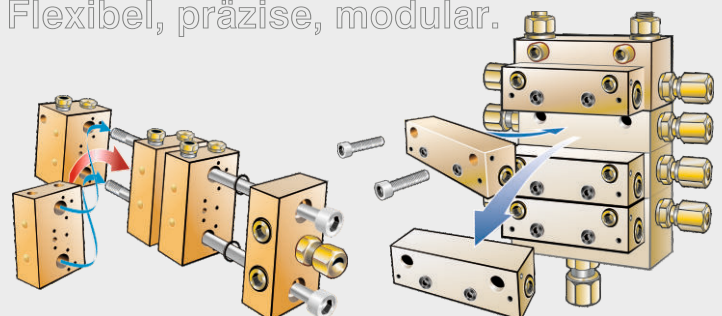
Desmodromic actuation of the pumping elements

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

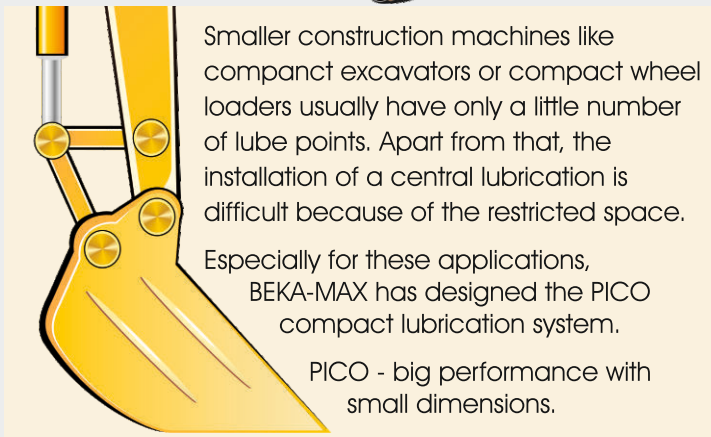
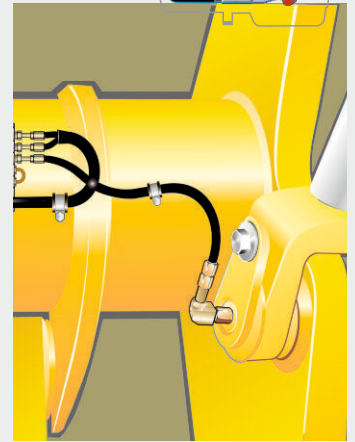
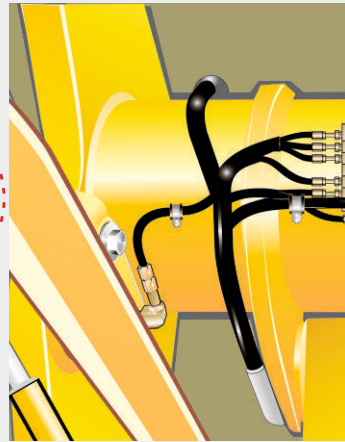
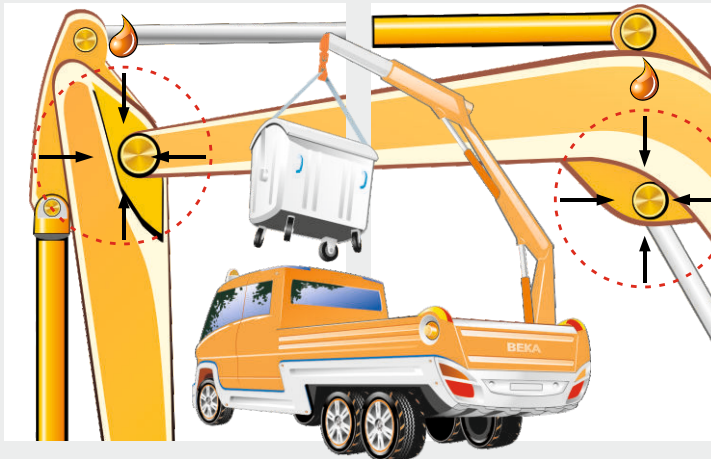
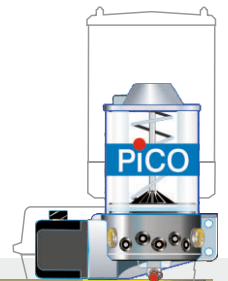
This guarantees a reliable functioning of the pump even by the use of rigid grease (up to NLGI 2) and very low ambient temperatures!

- 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: Multiline 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.

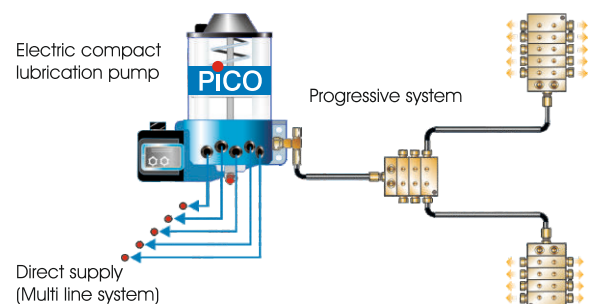
PICO is a modular system which can be used for all common vehicles and machines.

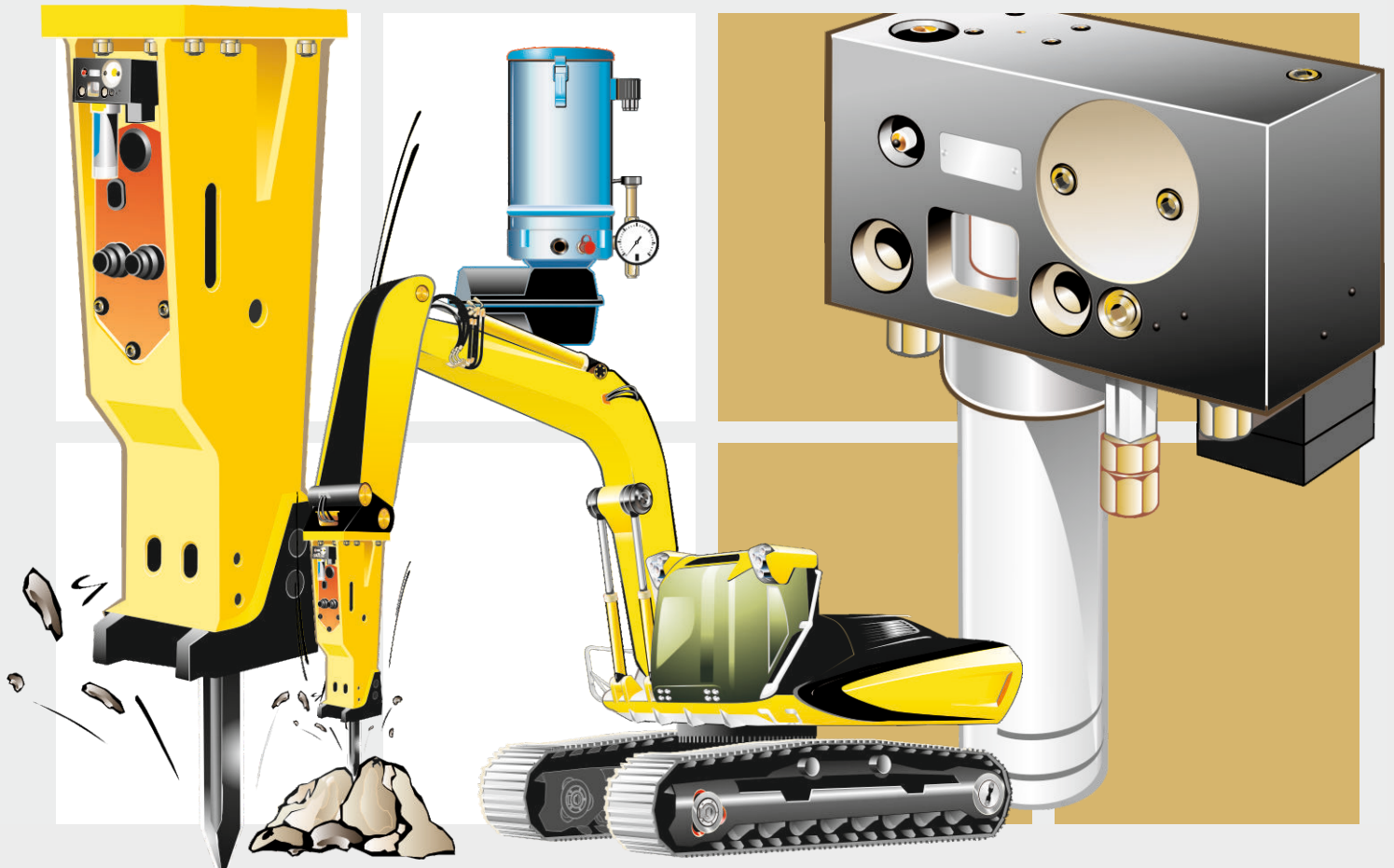
It is suitable for initial equipment (OE) or retrofitting.

- Very compact design
- Unique combination of two lubrication systems: Progressive and multiline 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

BEKAHAMAX¹ 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

BEKAHAMAX² 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^{EP} 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

BEKAtraX

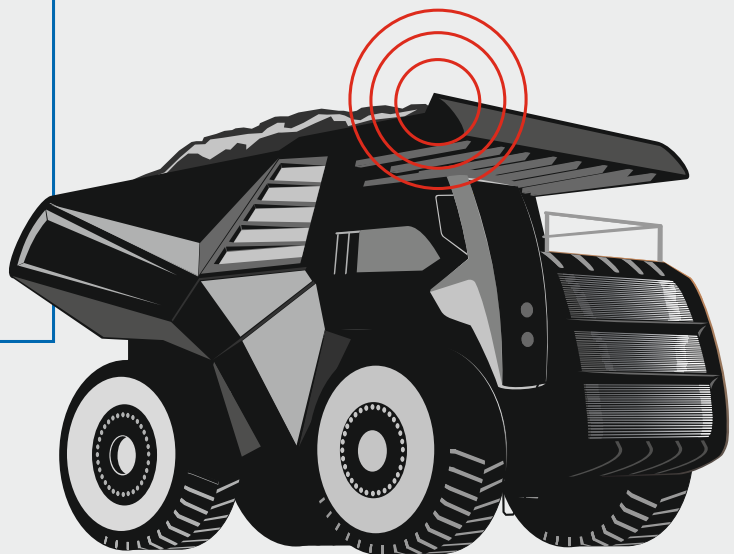
The multi-functional telemetric platform BEKAtraX combines localization, data collection, remote monitoring and communication in a compact unit.

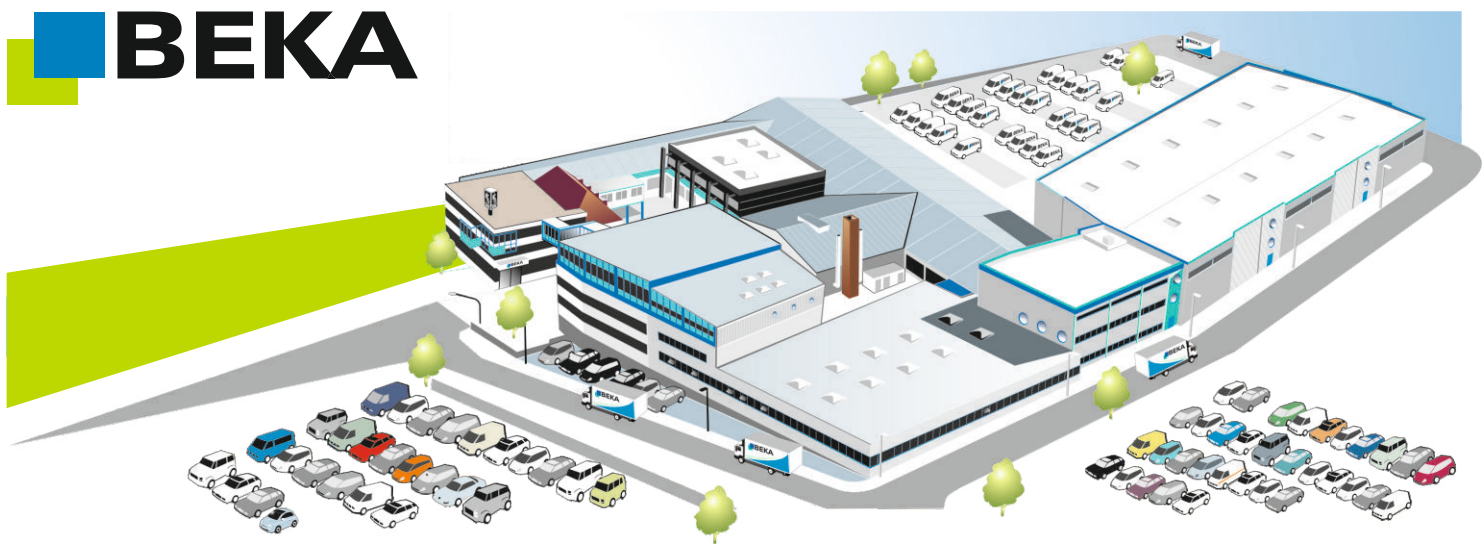
BEKAtraX offers besides GPS localization any comfort to avoid theft and illegal use of machines and vehicles all around the clock and to monitor the degree of utilization and operating times.

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





BAIER + KÖPPEL GmbH + Co. KG

BEETHOVENSTRASSE 14
91257 PEGNITZ/BAVARIA
GERMANY

PO BOX 13 20
91253 PEGNITZ/BAVARIA
GERMANY

fon +49 9241 729-0
fax +49 9241 729-50

e-mail beka@beka-lube.de
web www.beka-lube.de

BEKA INDUSTRIAL
BEKAMAX
BEKAMINING
BEKAFLUILUB
BEKAFOODLINE
BEKAWIND
BEKAWOOD
BEKACLEARTRONIC
BEKATRON
BEKATRAX



BEKA International

- ALGERIA**
 BEKA LUBE ALGERIE
 Zone d'activite n°25
 25140 Ain-smara / Constantine
 fon +213 31 97 51 00
 fax +213 31 97 51 12
 e-mail jet-services56@gmx.fr
- CHINA**
 BEKA Lubrication Systems Co., LTD
 Room 1803, Building 1 Sandhill Plaza,
 No.2290 Zuchongzhi Road,
 Pudong New District, Shanghai 201210
 fon +86 21 61462988
 fax +86 21 61462989
 e-mail sales@bekaworld.cn
- NETHERLANDS**
 BEKA NEDERLAND B.V.
 Wagenmakerij 11
 4762 AV Zevenbergen
 fon +31 168 37 15 38
 fax +31 168 33 83 29
 e-mail info@beka.nl
- SINGAPORE**
 BEKAWORLD Singapore PTE. LTD.
 51 Changli Business Park Central 2
 #07-10 The Signature
 Singapore 486066
 fon +65 6538 9418
 fax +65 6538 9428
 e-mail sales@bekaworld.sg
- AUSTRIA**
 BEKA-Lube GmbH
 Rottweg 66
 5020 Salzburg
 fon +43 662 43 84 40
 fax +43 662 43 84 403
 e-mail office@beka-lube.at
- EAST TSANHAIR COMPANY LTD.**
 7A Building, Medicine Valley No.1,
 No.9 Tianfu Street, Bio-Medicine Park,
 Zhongguancun Science Park,
 Daxing District, Beijing 102600
 fon +86 10 83 681 526
 fax +86 10 83 681 520
 e-mail beka-lube@bekachina.com
- KOREA**
 BEKAWORLD Seoul Rep Office
 A-1406, Sunyudo Woolim Lions Valley
 Yangpyeong-dong 5-ga
 Yeongdeungpo-gu, Seoul (150-984)
 fon +82 2 2038 0988
 fax +82 2 2038 8934
 e-mail sales@bekaworld.kr
- TURKEY**
 BEKAMAKS MAKINA SANAYI ve TICARET
 LTD. STI. Kucukyali Ticaret Merkezi
 B Blok No. 7 Gime Mah.
 34852 Maltepe / Istanbul
 fon +90 216 367 34 00
 fax +90 216 367 33 85
 e-mail info@bekamaks.com
- BELGIUM**
 BEKA LUBE N.V.S.A.
 Demerstraat 32
 BE 3200 Aarschot
 fon +32 16 64 09 26
 fax +32 16 64 05 48
 e-mail bekalube@skynet.be
- FRANCE**
 BEKALUBE FRANCE
 4, bis Rue de l'Artisanat
 89100 Paron
 fon +33 386 83 39 06
 fax +33 386 65 52 24
 e-mail contacts@bekalube.fr
- USA**
 BEKAWORLD LP Atlanta
 2775 North Hills Drive NE
 Atlanta, GA 30305
 fon +1 404 841 1133
 fax +1 404 968 9433
 e-mail info@beka-lube.com
- CANADA**
 BEKA-LUBE Products Inc.
 2830 Argenta Road, Unit 9
 Mississauga ON L5N 8G4
 fon +1 905 821 10 50
 fax +1 905 858 05 97
 e-mail info@beka-lube.com
- ITALY**
 BEKALUBE s.r.l.
 Via E. Rossi, 152
 I-20862 Arcore (MB)
 fon +39 039 618 00 88
 fax +39 039 61 75 23
 e-mail servizioclienti@bekalube.it
- SPAIN**
 BEKA-LUBE IBERICA S.L.U.
 C/Albasanz 14 Bis, 2ª J
 28037 Madrid
 fon +34 91 440 26 56
 fax +34 810 520 178
 e-mail beka@beka-lube.es
- BEKAWORLD LP Buffalo**
 258 Sonwil Drive
 P.O. Box 234
 Buffalo, NY 14225
 fon +1 905 821 1050
 fax +1 905 858 05 97
 e-mail info@beka-lube.com

Agencies

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