







WHEEL FLANGE LUBRICATION Locomotive



-  Wear reduction of wheels and rails
-  Reduction of the drive power
-  Low Life Cycle Costs
-  Lubrication depending on time, distance or curves
-  Steady mixing of the lubricant
-  Spray nozzle with only one feed line

Wheel flange lubrication

FluiLub wheel flange lubrication systems reduce the wear of rail and wheel as well as the noise load in curves in a very efficient way. FluiLub wheel flange lubrication systems offer innovative technology with tried-and-tested components and best cost-benefit-ratio.

The FluiLub wheel flange lubrication system is designed as single line system. This means: Less wear, little maintenance requirements and therefore low life-cycle costs.

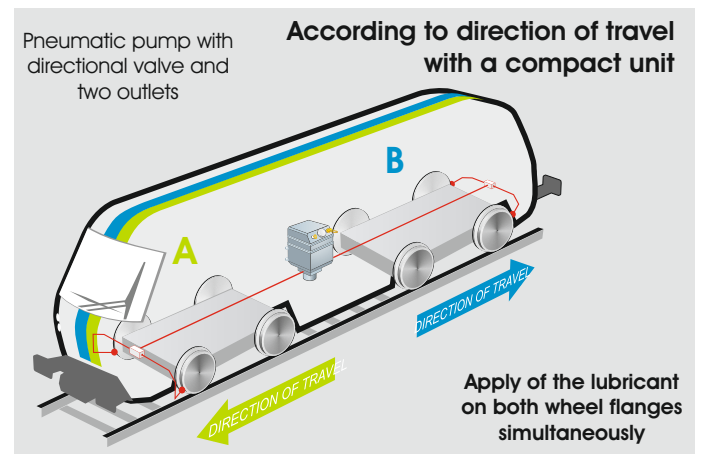
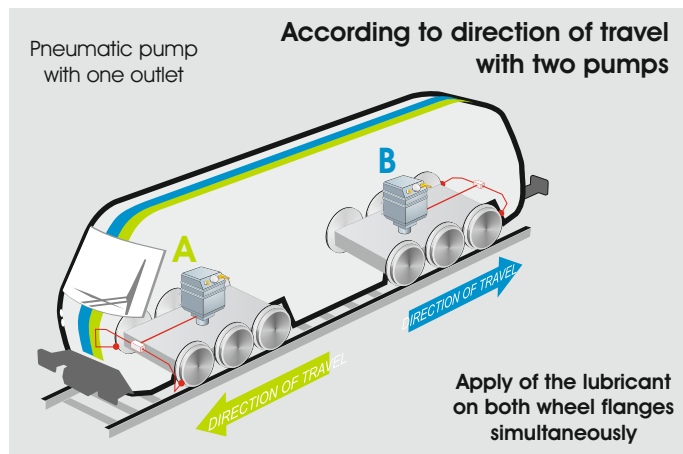
Operating principle: A 3/2-way control valve activates the pneumatic pump for a pre-selected spraying time. During this spraying time, a defined quantity of wheel flange lubricant is delivered by the pump and will be mixed with the spraying air.

Depending on the type of the locomotive, different systems are available:

Lubrication according to direction of travel with two pumps: The mixture of lubricant and compressed air is applied over a mixing distributor on wheel flanges according to the direction of travel.

Lubrication according to direction of travel with a compact unit: The mixture of lubricant and compressed air is spread over a directional valve and a mixing distributor on wheel flanges according to the direction of travel.

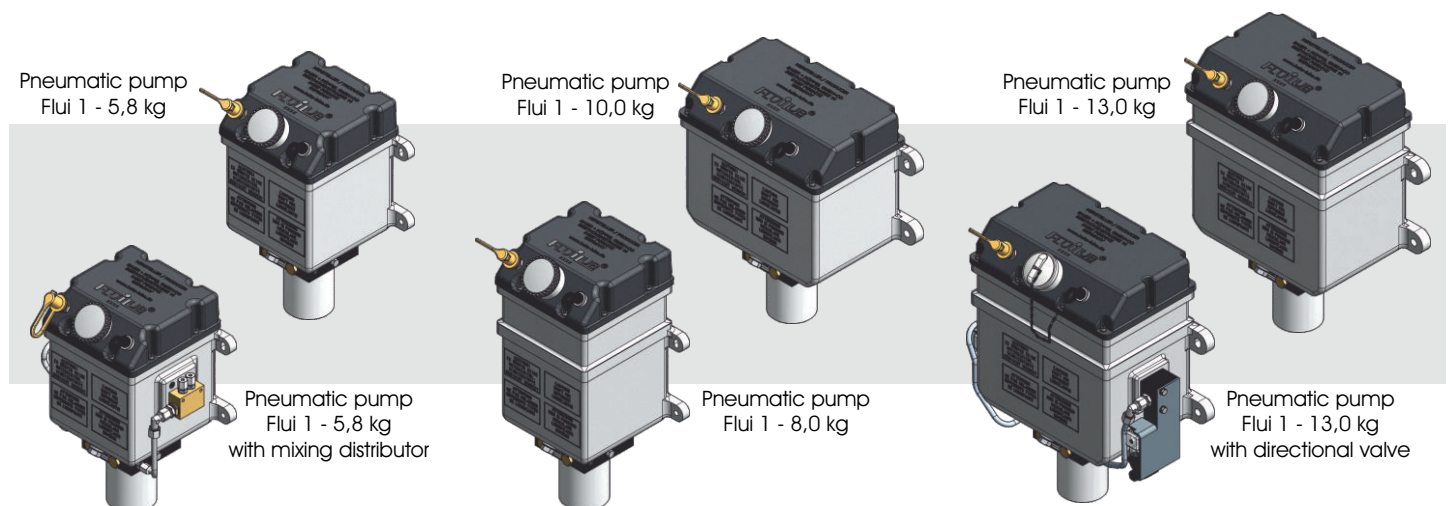
Further system designs are available depending on requirements like e. g. service life and wear pattern.



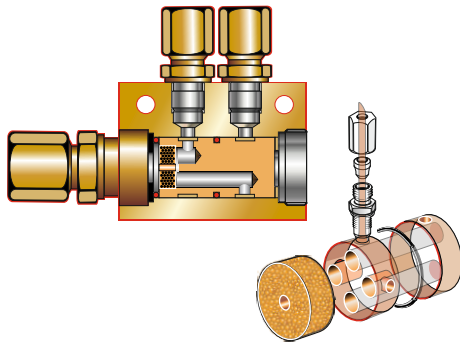
FluiLub pumps

- Extremely rugged pneumatic pump
- Admission according to DIN EN 61 373 cat. 2
- Reservoir made of aluminium, steel or special steel

- Level monitoring with dipstick, optional electronic
- Delivery rate 50 - 1000 mm³/stroke
- Special design possible



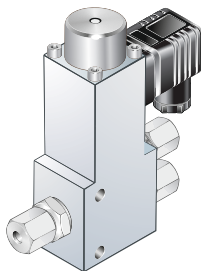
Excerpt from the FluiLub program



FluiLub mixing distributor

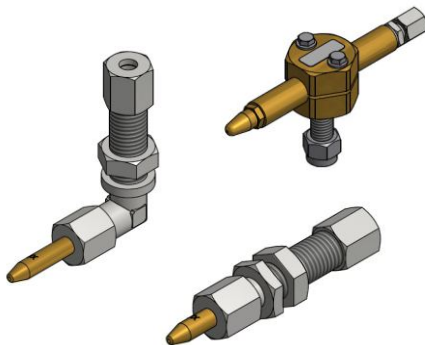
The splitting insert of the FluiLub mixing distributor cares for the division of the mixture of lubricant and compressed air. A porous insert collects the liquid particles and distributes them like a drizzle to the airstream.

This principle guarantees a homogeneous mixing ratio even with several spray nozzles.



FluiLub directional valve

The directional valve is required for the activation of the wheel flange lubrication system according to direction of travel. It can be installed directly at the pump reservoir or externally. With this option, both directions of travel can be supplied with one pump.



FluiLub spray nozzles

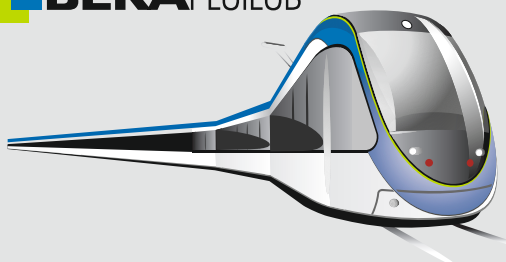
The FluiLub spray nozzles guarantee the lubrication of the wheel flanges even with very high velocities, without polluting other components like the brakes. The design of the spray nozzles depends on the application.



FluiLub controller

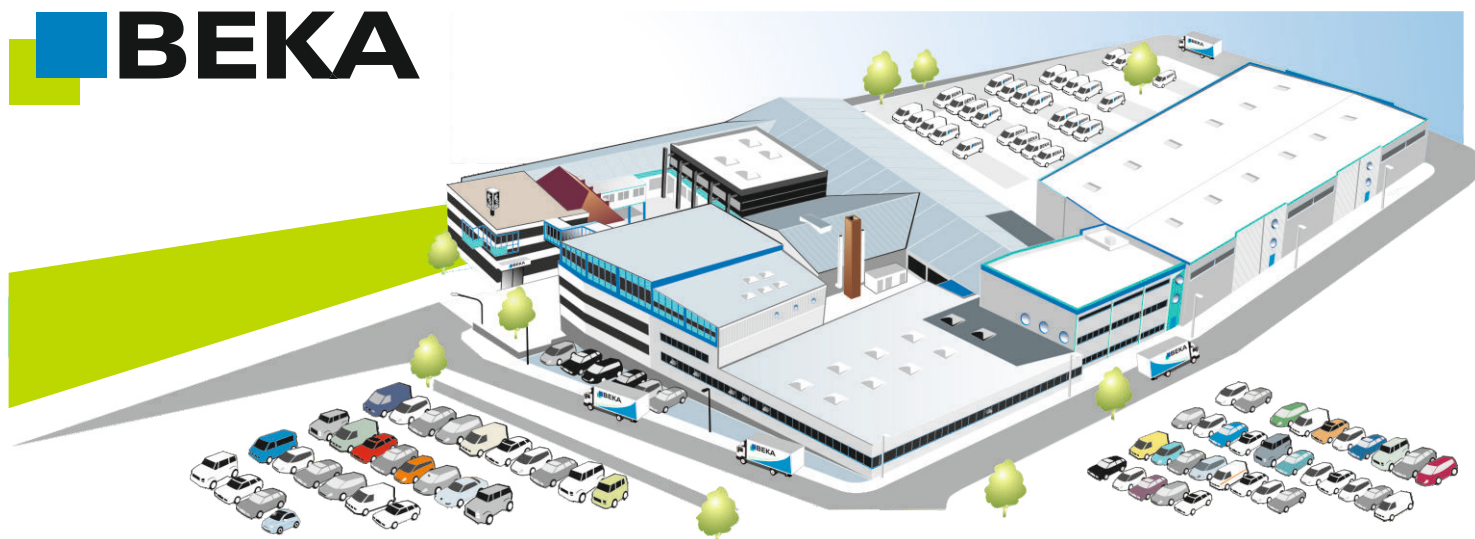
With the compact control unit Fluicontrol, the FluiLub wheel flange lubrication system can be operated best. Activation and evaluation of the system can be adapted to the required operating conditions.

The optional curve sensor allows the curve-dependant activation of the system. Conventional devices use inclination and centrifugal force, but the FluiLub sensor detects the effective rotary motion in $^{\circ}/\text{sec}$.



The complete product program around rails:

- Wheel flange lubrication systems for Light Rail and Heavy Rail, EMU, DMU and Highspeed
- Rail Head Maintenance
- Special Lubricants



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

BEKA MAX

BEKA MINING

BEKA FLUILUB

BEKA FOODLINE

BEKA WIND

BEKA WOOD

BEKA CLEARTRONIC

BEKA TRON

BEKA TRAX



BEKA International

ALGERIA

BEKA LUBE ALGERIE
Zone d'activité 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 Changi 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 SANAYİ ve TİCARET
LTD. ŞTİ. Kucukyali Ticaret Merkezi
B Blok No. 7 Gine Mah.
34852 Maltepe / İstanbul
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

BEKA AHWON

326-1 Dangguong Dong
Gunpo Si Kyungki Do Korea
fon +82 31 451 0628
fax +82 31 451 0974
e-mail jhleeahwon@yahoo.co.kr

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

Argentina
Australia
Belarus
Bosnia
Brazil
Bulgaria
Croatia
Czechia
Denmark
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