

WHEEL FLANGE LUBRICATION Light Rail



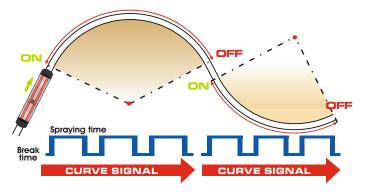
- Wear reduction of wheels and rails
- Reduction of the drive power
- Low Life Cycle Costs
- Lubrication depending on time, distance or curves
- Steady mixing of the lubricant
 - Spray nozzle with only one feed line

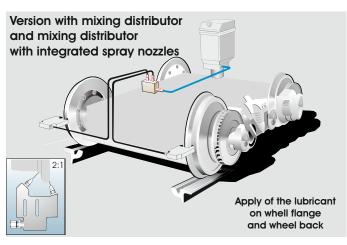


Wheel flange lubrication

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.





FluiLub pumps

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

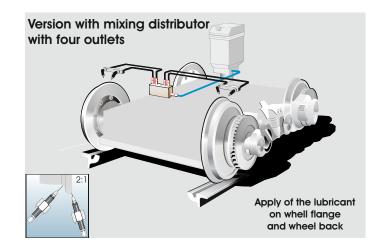
Operating principle: A 3/2-way control valve activates the pneumatic pump for a pre-selected spraying time. During this spraying time, a defined quantity of wheel flange lubricant is delivered by the pump and will be mixed with the spraying air.

Depending on the application, different systems are available:

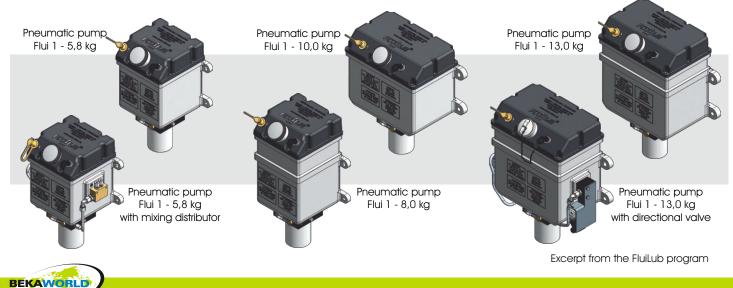
Version with mixing distributor with two outlets and mixing distributor with integrated spray nozzles: The mixture of lubricant and compressed air is applied over a mixing distributor with two outlets and mixing distributor with integrated spray nozzles on the wheel flange and wheel back of the respective wheel.

Version with mixing distributor with four outlets: The mixture of lubricant and compressed air is applied over a mixing distributor with four outlets on the wheel flange and whell back of the respective wheel.

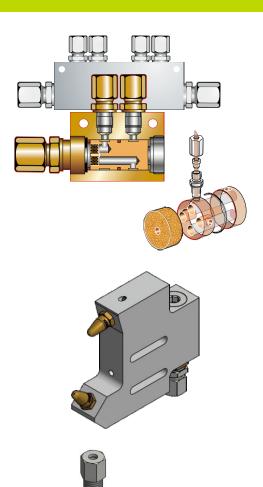
The activation of the wheel flange lubrication system happens depending on time, distance or curves.



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







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.

Mixing distributor with integrated spray nozzles

For mixing distributor with integrated spray nozzles, only one feed line from the mixing distributor is necessary. The position of the spray nozzles is adapted to the specified wheel profile.

During routine maintenance, spray nozzles shall not be adjusted separately. Because of the cramped space at the bogie, it is a great advantage.

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 °/sec.



The complete product program around rails:

Wheel flange lubrication systems for Light Rail and Heavy Rail, EMU, DMU and Highspeed

BEKAWORLD

- Rail Head Maintenance
- Special Lubricants



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fax

fon

fax

e-mail

e-mail

e-mail

FRANCE

89100 Paron

ITALY BEKALUBE s.r.l.

Via E. Rossi, 152

I-20862 Arcore (MB)

e-mail

CHINA BEKA Lubrication Systems Co., LTD

EAST TSANHAIR COMPANY LTD.

Daxing District, Beijing 102600

BEKALUBE FRANCE 4, bis Rue de l'Artisanat

Room 1803. Building 1 Sandhill Plaza, No.2290 Zuchongzhi Road. Pudong New District, Shanghai 201210

+86 21 61462988 +86 21 61462989

7A Building, Medicine Valley No.1, No.9 Tianfu Street, Bio-Medicine Park, Zhongguancun Science Park,

+86 10 83 681 526 +86 10 83 681 520

+33 386 83 39 06 +33 386 65 52 24

contacts@bekalube.fr

+39 039 618 00 88 +39 039 61 75 23 servizioclienti@bekalube.it

beka-lube@bekachina.com

sales@bekaworld.cn

ALGERIA S BEKA LUBE ALGERIE Zone d'activité n°25 25140 Ain-smara / Constantine +213 31 97 51 00 +213 31 97 51 12 jet-services56@gmx.fr fon fax e-mail

AUSTRIA (\mathbb{S})

BEKA-Lube GmbH Rottweg 66 5020 Salzburg fon +43 662 43 84 40 +43 662 43 84 403 fax e-mail office@beka-lube.at

- BELGIUM (S) BEKA LUBE N.V.S.A. Demerstraat 32 BE 3200 Aarschot +32 16 64 09 26 +32 16 64 05 48 fon fax e-mail bekalube@skynet.be
- CANADA BEKA-LUBE Products Inc. 2830 Argentia Road, Unit 9 Mississauga ON L5N 8G4 S +1 905 821 10 50 +1 905 858 05 97 fon fax info@beka-lube.com e-mail

Agencies

- Argentinia Australia Belarus Bosnia Brazil Bulgaria Croatia Czechia Denmark Estonia
- Finland Great Britain Greece Hong Kong Hungaria India Indonesia Iceland Ireland Japan
- Latvia Lithuania Luxemburg Malavsia New Zealand Norway Poland Portugal Romania Russia

Serbia Slovakia Slovenia South Africa Sweden Switzerland Ukraine and others

NETHERLANDS S BEKA NEDERLAND B.V. Wagenmakerij 11 4762 AV Zevenbergen +31 168 37 15 38 +31 168 33 83 29 fon fax e-mail info@beka.nl

BEKAFLUILUB

BEKATRON

- KOREA R BEKAWORLD Seoul Rep Office A-1406, Sunyudo Woolim Lions Valley Yangpyeong-dong 5-ga Yeongdeungpo-gu, Seoul (150-984) +82 2 2038 0988 +82 2 2038 8934 fon fax e-mail sales@bekaworld.kr
- P BEKA AHWON 326-1 Danggung Dong Gunpo Si Kyungki Do Korea +82 31 451 0628 +82 31 451 0974 fon fax jhleeahwon@yahoo.co.kr e-mail
- (5) SPAIN BEKA-LUBE IBERICA S.L.U. C/Albasanz 14 Bis, 2ª J 28037 Madrid +34 91 440 26 56 +34 810 520 178 fon fax e-mail beka@beka-lube.es

SINGAPORE BEKAWORLD Singapore PTE. LTD. 51 Changi Business Park Central 2 #07-10 The Signature S Singapore 486066 +65 6538 9418 +65 6538 9428 fon fax e-mail sales@bekaworld.sg

BEKATRAX

TURKEY BEKAMAKS MAKINA SANAYI ve TICARET LTD, STI. Kucukyali Ticaret Merkezi B Blok No. 7 Girne Mah. P 34852 Maltepe / Istanbul +90 216 367 34 00 +90 216 367 33 85 fon fax e-mail info@bekamaks.com

- USA BEKAWORLD LP Atlanta 2775 North Hills Drive NE S Atlanta, GA 30305 +1 404 841 1133 +1 404 968 9433 fon fax e-mail info@beka-lube.com
- (5) BEKAWORLD LP Buffalo 258 Sonwil Drive P.O. Box 234 Buffalo, NY 14225 +1 905 821 1050 fon +1 905 858 05 97 fax e-mail info@beka-lube.com

