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Speciality lubricants with
***automatic
relubrication***



***THERE ARE MORE
IMPORTANT THINGS TO DO.***

ChronoLube

System

Speciality Lubricants
Maintenance Products

PREVENT DAMAGE – REDUCE COSTS

Electromechanical lubrication systems from OKS. Automatic and independent of temperature.



ChronoLube is the ideal combination of OKS speciality lubricants with an electromechanical lubricator. This enables the automatic supply of lubricating points with oil and grease. And that in the dosage you require and at the right time – without under or overlubrication.

Simply install the ChronoLube Drive together with the suitable ChronoLube Cartridge at the lubricating point and set the dispensing time (monthly steps) in accordance with your requirements.

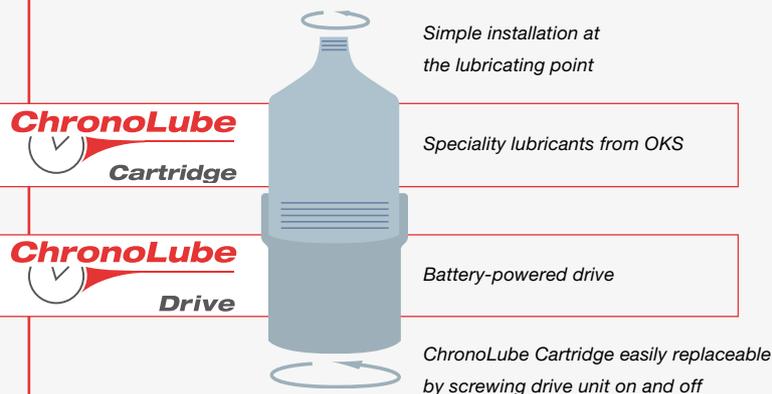
Whether it's a matter of a hard-to-reach lubricating point, heavy vibrations or extremely high ambient temperatures, OKS can provide you with the right accessories for trouble-free use of the ChronoLube System. We would be happy to advise you in more detail.

ChronoLube, the ideal lubrication system for:

- Roller bearings
- Plain bearings
- Chains
- Open gears
- etc.

Highlights

- Operating temperature -10°C to $+60^{\circ}\text{C}$
- Continuous fill level monitoring with transparent housing
- Dispensing time can be set in monthly steps
- Dispensing duration individually adjustable when changing cartridge
- Display of operating state with LCD display (e.g. operation, empty, fault)
- Reusable drive
- Replaceable battery set



After setting the dispensing time, an additional check of the operating state takes place with the integrated LCD display.

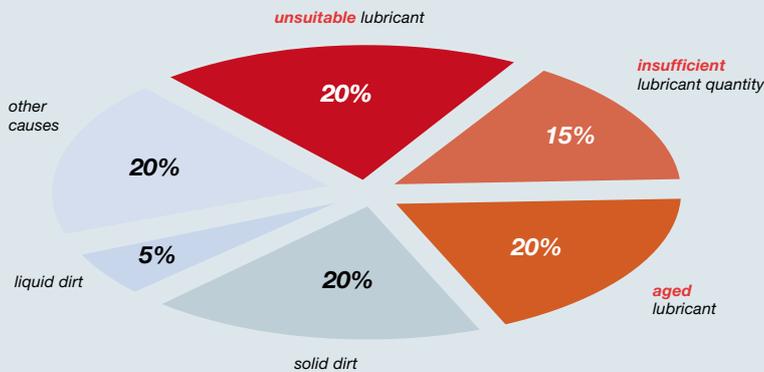


LONGER LIFE OF PRODUCTION SYSTEMS

With ChronoLube damage can be prevented which can otherwise result in extremely high costs.

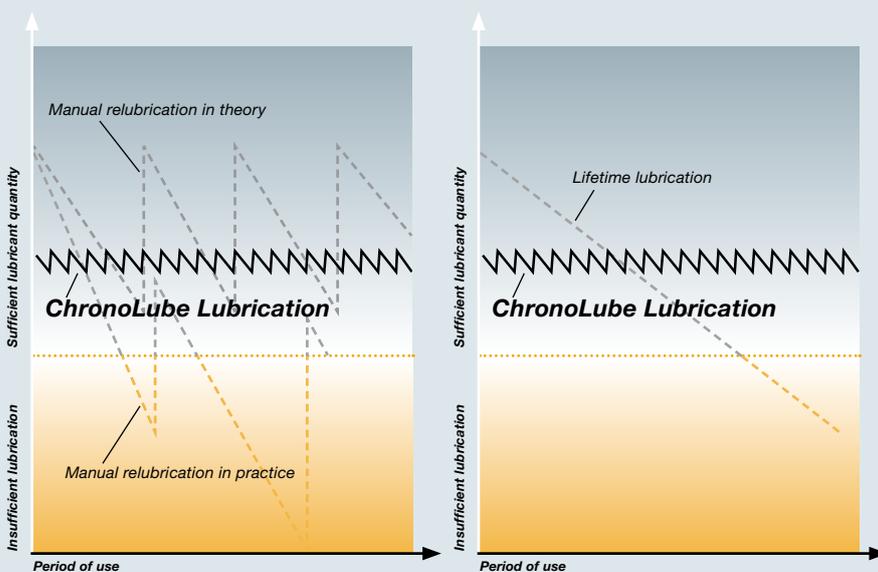


Causes of failure of roller bearings



Continuous, automatically controlled lubrication by ChronoLube mainly prevents: annoying, expensive production downtimes. Thanks to precise, individually adjusted lubricant dosage, a sudden standstill or frequent maintenance intervals due to poor lubrication are now a thing of the past.

Lubrication systems in comparison



ChronoLube is highly superior to manual relubrication and lifetime lubrication with regard to precision and reliability.

The OKS ChronoLube System at a glance.

Drive:	electromechanical via geared motor, reusable, battery set, replaceable ChronoLube Cartridge	
Operating periods:	in monthly steps	
Lubricant volume:	120 cm ³	
Operating temperature:	-10°C to +60°C	
Pressure build-up:	max. 6 bar	

Demanding users rely on the automatic lubrication systems from OKS:

- | | |
|--|---|
| <input type="checkbox"/> Automotive industry | <input type="checkbox"/> Metal-working industry |
| <input type="checkbox"/> Printing and paper industry | <input type="checkbox"/> Pharmaceuticals industry |
| <input type="checkbox"/> Basic industry | <input type="checkbox"/> Steel industry |
| <input type="checkbox"/> Power plants | <input type="checkbox"/> Textile industry |
| <input type="checkbox"/> Plastics industry | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Food processing industry | <input type="checkbox"/> etc. |



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CONSULTING AND SALES

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For a world in motion

Product	Designation	Technical data	Colour, composition	Characterisation	Examples of use
OKS 352	High-Temperature Oil, light-coloured, synthetic DIN 51 502: CLP E 320	<ul style="list-style-type: none"> Operating temperature: -10 °C to +250 °C Density (20 °C): 0.90 g/ml Viscosity (40 °C): 270 mm²/s Four-ball test rig (welding load): 2,400 N 	<ul style="list-style-type: none"> yellowish ester 	<ul style="list-style-type: none"> Synthetic high-temperature oil Good wear protective through EP additives Excellent oxidation protection, therefore resistant to ageing Low tendency to drip at high temperatures Good water and steam resistance 	<ul style="list-style-type: none"> Lubrication of chains, hinges, joints, clamping and drying frames or slide-ways at higher temperatures For conveying systems in painting, stoving, drying and cooling bed installations in the textile, glass and ceramics industries, in brickworks and steelworks
OKS 400	MoS ₂ Multipurpose High-Performance Grease DIN 51 502: KPF2K-30	<ul style="list-style-type: none"> Operating temperature: -30 °C to +120 °C NLGI grade: 2 DN factor (dm x n): 300,000 mm/min Base oil viscosity (40 °C): 100 mm²/s Four-ball test rig (welding load): 3,600 N 	<ul style="list-style-type: none"> black MoS₂ mineral oil lithium soap 	<ul style="list-style-type: none"> High-pressure grease for universal use For heavily loaded or impact-loaded rolling and friction bearings, spindles and joints Forms an MoS₂ sliding film for emergency running properties Reduces wear Resistant to ageing and oxidation 	<ul style="list-style-type: none"> Lubrication of parts subject to high levels of stress and/or impacts such as plain, roller and rod-end bearings, splined shafts, knockout spindles, threaded spindles and sliding surfaces of all kinds
OKS 404	High-Performance and High-Temperature Grease DIN 51 502: KP2P-30	<ul style="list-style-type: none"> Operating temperature: -30 °C to +150 °C NLGI grade: 2 DN factor (dm x n): 350,000 mm/min Base oil viscosity (40 °C): 100 mm²/s Four-ball test rig (welding load): 2,800 N 	<ul style="list-style-type: none"> light-coloured EP additives mineral oil polyalphaolefin (PAO) lithium-complex soap 	<ul style="list-style-type: none"> Modern universal grease with a wide range of applications for lubricating high pressure loaded rolling and friction bearings in a wide temperature range. Reduces wear Good resistance to pressure and water Resistant to ageing and oxidation Good corrosion protection 	<ul style="list-style-type: none"> Lubrication of friction, rolling and pivoting bearings, splined shafts, knockout spindles and sliding surfaces of all kinds under heavy loads and a broad temperature range, as well as all sliding speeds permissible for grease lubrication
OKS 420 	High-Temperature Multipurpose Grease DIN 51 502: KP1-2P-10	<ul style="list-style-type: none"> Operating temperature: -10 °C to +160 °C NLGI grade: 1-2 DN factor (dm x n): 300,000 mm/min Base oil viscosity (40 °C): 490 mm²/s 	<ul style="list-style-type: none"> beige Mo_x-Active mineral oil polycarbamide 	<ul style="list-style-type: none"> Rolling and friction bearings of slow-running gears and chains at high temperatures, impact and pressure loads or water influences Extremely impact and pressure-resistant Good wear protection Highly adhesive For universal use at increased requirements 	<ul style="list-style-type: none"> Chain lubrication of hollow-pin chains in the conveyance and transport sector Bearing lubrication at annealing yards, drying systems, manipulators and robots, cooling-bed and conveyor systems Machines in food packing industry, steam sterilisers
OKS 422	Universal Grease for Long-Life Lubrication DIN 51 502: KPHC2N-40	<ul style="list-style-type: none"> Operating temperature: -40 °C to +140 °C NLGI grade: 2 DN factor (dm x n): 800,000 mm/min Base oil viscosity (40 °C): 50 mm²/s Four-ball test rig (welding load): 3,400 N 	<ul style="list-style-type: none"> light-coloured EP additives polyalphaolefin (PAO) barium-complex soap 	<ul style="list-style-type: none"> For rolling and friction bearings and spindles at extreme temperatures or high speeds Extremely impact and pressure-resistant Excellent wear protection Long regreasing intervals Use outside normal performance areas 	<ul style="list-style-type: none"> For lubricating roller and plain bearings, also threaded spindles, gearwheels, worms and similar components exposed to high pressures and extreme temperatures Spindle bearing lubrication at machine tools
OKS 433	Long-Acting High-Pressure Grease DIN 51 502: KP2K-20	<ul style="list-style-type: none"> Operating temperature: -20 °C to +120 °C NLGI grade: 2 DN factor (dm x n): 400,000 mm/min Base oil viscosity (40 °C): 185 mm²/s Four-ball test rig (welding load): 2,600 N 	<ul style="list-style-type: none"> red-brown EP additives mineral oil lithium soap 	<ul style="list-style-type: none"> For friction and roller bearings at high pressures EP additives Good wear protection Good resistance to oxidation and ageing 	<ul style="list-style-type: none"> Friction and rolling bearings of all kinds at all permissible speeds and subject to high pressure loads, in particular of heavily loaded rolling and taper roller bearings, e.g. on rolling stands, hot and cold shearing systems, sliding blocks and spindles.

Product	Designation	Technical data	Colour, composition	Characterisation	Examples of use
OKS 479 NSF	High-Temperature Grease for Food Processing Technology Analogue DIN 51 502: KPHC1K-30	<ul style="list-style-type: none"> Operating temperature: -35 °C to +120 °C (briefly up to 160 °C) NLGI grade: 1 DN factor (dm x n): 500,000 mm/min Base oil viscosity (40 °C): 360 mm²/s NSF H1 Reg. No. 135675 	<ul style="list-style-type: none"> beige polyalphaolefin (PAO) aluminium-complex soap 	<ul style="list-style-type: none"> Lubrication of rolling and friction bearings under increased operating temperatures Good adhesive strength on metal surfaces Resistant to hot and cold water, water vapour, watery-alkaline and acidic disinfectants and cleaning agents High resistance to oxidation and ageing, reduces wear For all sections of the food processing, beverage and pharmaceutical industries. 	<ul style="list-style-type: none"> Lubrication of rolling and friction bearings, joints, linear drives, chains, fittings, seals, moulded parts and elements of elastic rubber materials in the hot- and cold-water segment Sanitary fixtures and machines in dairies, breweries, slaughterhouses, bakeries
OKS 480 NSF	Waterproof High-Pressure Grease for Food Processing Technology DIN 51 502: KPHC2P-30	<ul style="list-style-type: none"> Operating temperature: -30 °C to +160 °C NLGI grade: 2 DN factor (dm x n): 400,000 mm/min Base oil viscosity (40 °C): 100 mm²/s NSF H1 Reg. No. 148971 	<ul style="list-style-type: none"> cream-coloured polyalphaolefin (PAO) calcium-sulfonat-complex soap 	<ul style="list-style-type: none"> For heavily loaded rolling and friction bearings in food processing technology Excellent resistance to hot and cold water as well as disinfectants and cleaning agents Excellent corrosion protection High shear, temperature and oxidation stability 	<ul style="list-style-type: none"> Lubrication for bearings with contact to cleaning agents or disinfectants For mechanical units such as levers, joints and hinges, also under strong water effect
OKS 3570 NSF	High Temperature Chain Oil for the Food Processing Industry ISO VG 320 DIN 51 502: CLP E 320	<ul style="list-style-type: none"> Operating temperature: -10 °C to +250 °C Density (20 °C): 0.87 g/ml Viscosity (40 °C): 300 mm²/s NSF H1 Reg. No. 145347 	<ul style="list-style-type: none"> yellowish-red synthetic oil 	<ul style="list-style-type: none"> Synthetic high-temperature oil with a wide range of applications in the food processing industry Good adhesion on metal surfaces Excellent water resistance Excellent oxidation properties 	<ul style="list-style-type: none"> Lubrication of chains, hinges, joints, clamping and drying frames or slide-ways at high temperatures in the food processing industry Packaging industry, pharmaceuticals industry, paint workshops Conveying systems, painting, stoving and drying systems
OKS 3720 NSF	Gear Oil for Food Processing Technology ISO VG 220 DIN 51 502: CLP HC 220	<ul style="list-style-type: none"> Operating temperature: -30 °C to +120 °C Density (20 °C): 0.86 g/ml Viscosity (40 °C): 220 mm²/s FZG damage level: Power level >12 NSF H1 Reg. No. 135752 	<ul style="list-style-type: none"> colourless synthetic oil mixture 	<ul style="list-style-type: none"> Fully synthetic Long operating times due to high temperature and oxidation stability Good wear protection Resistant to steam, alkali and acid disinfectants and cleaning agents Also for the lubrication of rolling, friction bearings, chains and other lubricating points 	<ul style="list-style-type: none"> Closed toothed gearing, liquid lubrication of chains and joints, fittings, rolling and friction bearings in the complete food processing and beverage industry as well as in breweries, when physiologically harmless lubricants are required
OKS 3760 NSF	Multipurpose Oil for Food Processing Technology ISO VG 100 DIN 51 502: HLP HC 100 DIN 51 502: VDL HC 100	<ul style="list-style-type: none"> Operating temperature: -35 °C to +135 °C Density (20 °C): 0.84 g/ml Viscosity (40 °C): 100 mm²/s NSF H1 Reg. No. 129964 	<ul style="list-style-type: none"> colourless polyalphaolefin (PAO) 	<ul style="list-style-type: none"> Fully synthetic multipurpose oil Also suitable as compressor- or hydraulic oil Long operating times due to high temperature and oxidation stability Good wear protection Resistant to steam, alkali and acid disinfectants and cleaning agents Tasteless and odourless 	<ul style="list-style-type: none"> Multipurpose oil for bearing, lever and joint lubrication Hydraulic oil for use in all areas in which physiologically harmless are required Compressor oil for piston compressors for prescribed oil ISO VG 100