

FAG



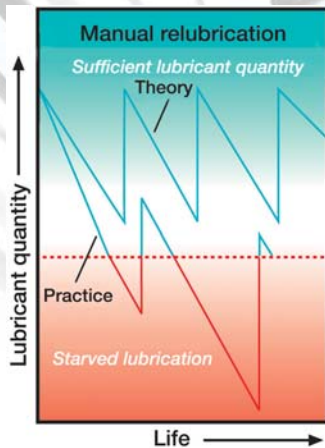
FAG Motion Guard – the intelligent lubricators

COMPACT, CHAMPION, CONCEPT 6

SCHAEFFLER GROUP
INDUSTRIAL

FAG Motion Guard – the intelligent lubricators

Correctly lubricated rolling bearings are very reliable machine elements with a long service life. Almost 50 % of all cases of bearing damage are caused by insufficient or incorrect lubrication. Bearing damage can be very costly. Whether in the steel industry, in wind turbines, in the paper industry, in the mining or in the automotive industry - bearing damage in motors, pumps, generators or rotor systems frequently causes unscheduled downtime. In many cases, this means production loss and repair costs that often amount to tens of thousands of euros.



Safety and economy – prevent damage with FAG Motion Guard

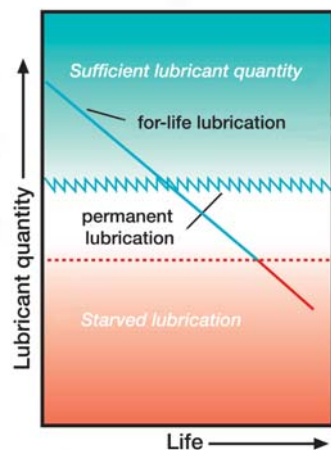
You can prevent such damage by using automatic lubricators from the FAG Motion Guard line.

Your advantages:

- Individual and precise supply to each bearing location with the lubricant most suited to your application
- No costly central lubrication system required
- Fully automatic, maintenance-free operation thanks to constant relubrication
- Longer bearing life and longer maintenance intervals
- Higher level of machine availability
- Considerable cost savings

Be on the safe side with FAG Motion Guard!

Depending on the application and cost situation, you can decide for yourself which lubricator from the FAG Motion Guard line is the most suitable and most economic one for your purposes. With FAG Motion Guard COMPACT, Motion Guard CHAMPION or Motion Guard CONCEPT 6 you are always on the safe side!



Always a good choice – with the FAG Motion Guard Select Manager

The new FAG Motion Guard Select Manager 2.0 makes it easier to select the lubricator most suited to your purposes. Simply order a free copy of the CD-ROM! With the Motion Guard Select Manager you can also select the Arcanol rolling bearing grease most suited to your application and determine the ideal discharge period.



Motion Guard line: maintenance-free, safe and economical

Robust and reliable – FAG Motion Guard COMPACT

This automatic lubricator has an electrochemical drive system. The electrolyte is environmentally friendly citric acid.

- Precise supply to each bearing location
- Maintenance-free and economical
- No manual relubrication required
- Electrochemical drive system
- Adjustable to 4 discharge periods
- Can build up a pressure of up to 4 bar
- Many accessories



The champ among the lubricators – FAG Motion Guard CHAMPION

The automatic lubricator Motion Guard CHAMPION has an electromechanical drive system. The robust, electronically controlled gear motor can be reused.

- Universal usability
- Individually adaptable to each bearing location
- Extremely robust thanks to effective protection from dust and splash water
- Continuous, automatic relubrication
- Electromechanical drive unit
- Electronically controlled gear motor, can be reused
- Battery set can be changed
- Can build up a pressure of up to 5 bar
- Suitable for grease canisters of different sizes and all Arcanol lubricating greases



FAG Motion Guard CONCEPT 6 – the intelligent lubrication system

This single- and multi-point lubrication system can supply up to six different lubricating points with grease – constantly, precisely and independent of temperature.

- Convenient top quality lubrication system
- For extreme applications, indoors and outdoors
- Discharges precise amounts of lubricant over extended periods
- Operating pressure of up to 25 bar for longer distances
- Easy, user-friendly, menu-guided operation
- High level of variability
- Exact, quick visual information on LED display

2 versions:

- CONCEPT 6: independent, battery-operated lubrication system
- CONCEPT 6 CONTROL: machine-controlled lubrication system; communication with PLC

Both versions are available as a single-point lubrication system and as a multi-point lubrication system.



CONCEPT 6 and Easy Check – the ideal combination for even greater safety




Combined with the FAG EasyCheck rolling bearing monitoring system, the lubrication systems CONCEPT 6 and CONCEPT 6 Control make a complete, reliable safety package for critical

bearing locations, either as a single-point or multi-point lubrication system. These independent systems are compatible and can be connected directly to the lubricating point.



FAG Motion Guard – automatic lubricators

Designs, technical data

FAG Motion Guard	COMPACT	CHAMPION	CONCEPT 6
			
Construction	metal housing (COMPACT CLEAR has a transparent plastic housing)	transparent plastic housing	drive unit in a robust metal housing
Drive	electrochemical reaction	electromechanical drive unit with replaceable battery set	electromechanical
Discharge periods	1,3,6,12 months at 20° C (COMPACT CLEAR 1,3,6 months at 20° C)	1,3,6,12 months (individually adjustable)	discharge volumes can be set as required by entering individual discharge periods
Volume	120 cm ³ (COMPACT CLEAR 100 cm ³)	LC-unit (60, 120, 250 cm ³)	250 cm ³ /500 cm ³ canisters
Counter pressure	max. 4 bar	automatic pressure control at 5 bar	max. 25 bar
Operating temperatures	from 0° to + 40° C	from -10° to + 50°C	from -20° to + 60°C
Fields of application	rolling bearings, plain bearings, drive chains, guides, conveyor chains, open gears etc.	rolling bearings, plain bearings, drive chains, guides, conveyor chains, open gears etc.	rolling bearings, plain bearings, drive chains, guides, conveyor chains, open gears etc.
Safety requirements	explosionproof: Zone 1.2.; Group I; Group II. A.B.C GS (tested safety)	CE: Immunity to electromagnetic disturbance, protection against dust and splash water	
Special features	COMPACT CLEAR units have differently coloured activating screws with pink seals for the different discharge periods	LC–unit (lubrication canister) can be replaced on site, LC-unit can be recycled and is therefore environmentally friendly, corrosion-resistant, protected from dust and splash water; reusable drive motor	settings are made using 2 push buttons and a digital display, LED function light, lubricant level display;

FAG Arcanol lubricants

For a longer bearing life:

Arcanol – rolling bearing-tested grease

Arcanol rolling bearing greases ensure that bearings can be used to their full capacity. They ensure a good running behaviour, very safe operation and a long service life. Arcanol offers several times the safety of standard greases even though these special greases at first glance cost a little more. The new CD-ROM “FAG Motion Guard Select Manager 2.0“ makes it easier to select the optimal Arcanol grease for your specific application.

Arcanol	MULTITOP	MULTI2	MULTI3	LOAD220	LOAD400	LOAD1000	TEMP90
Typical applications for Arcanol rolling bearing greases	Universal grease for ball and roller bearings in rolling mills, construction machinery, motor vehicles, spinning and grinding spindles at high speeds, high loads, low and high temperatures	Universal grease for ball bearings (ØD ≤ 62 mm) in small electric motors, agricultural and construction machinery, household appliances	Universal grease for ball bearings (ØD > 62 mm) in large electric motors, agricultural and construction machinery, ventilators	Special grease for ball and roller bearings in rolling mills, rail vehicles at high loads, wide speed range	Special grease for ball and roller bearings in mining machinery, construction machinery at extremely high loads, medium temperatures, medium speeds	Special grease for ball and roller bearings in mining machinery, construction machinery, particularly suitable for shock-type loads and large bearings at extremely high loads, medium temperatures, slow speeds	Special grease for ball and roller bearings in couplings, electric motors, motor vehicles at high temperatures, high loads

Arcanol	TEMP110	TEMP120	TEMP200	SPEED2,6	VIB3	BIO2	FOOD2
Typical applications for Arcanol rolling bearing greases	Special grease for ball and roller bearings in electric machines, motor vehicles at high temperatures, high speeds	Special grease for ball and roller bearings in continuous casting plants at high temperatures, high loads	Special grease for ball and roller bearings in track rollers in baking machines, piston pins in compressors, kiln trucks, chemical plants at extremely high temperatures, chemically aggressive environments	Special grease for ball bearings in machine tools, instruments at extremely high speeds, low temperatures	Special grease for ball and roller bearings in rotor blade adjusters in wind turbines, packing machines at high temperatures, high loads, oscillating motion	Special grease for ball and roller bearings in environmentally hazardous applications	Special grease for ball and roller bearings in incidental food contact uses, USDA H1

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