

# Single-Point Automatic Lubricators



**MOVING YOUR WORLD**





A photograph of two industrial workers, a woman on the left and a man on the right, both wearing white hard hats and high-visibility yellow-green safety vests. They are looking down at a tablet computer held by the woman. The background is a blurred industrial setting with a bright light source.

## FUCHS Single-Point Automatic Lubricators

Easier, cost-effective and efficient service.

FUCHS single-point lubrication systems are devices that can be programmed to supply lubricant automatically. In most cases, the equipment can continue to operate during lubricant application, which reduces downtime.

Investing in automatic lubricators has a direct impact on reducing long-term maintenance costs by optimising lubricant discharge. In addition, these devices eliminate the cost and risk of manually applying lubricating grease to multiple pieces of equipment at regular intervals.

Furthermore, these devices also provide clean lubrication, preventing leaks and spills that can contaminate products and foul the working environment. It is also important to note that automated lubrication protects against contaminants, such as water, dirt or dust, entering through the lubrication points and therefore extends the service life of the equipment.

In short, automatic lubricators simplify equipment lubrication and provide a level of homogeneity resulting in benefits that include:

- Reduced maintenance costs
- Improved labour efficiency and cost savings
- Greater safety for personnel during maintenance tasks
- Reduced equipment downtime
- Longer equipment service life
- Guaranteed optimal and homogeneous lubrication
- Reliable lubrication vs. human error when applying manually

To achieve all these benefits, FUCHS offers a wide range of lubricants supplied in automatic lubricators for the STAR VARIO BLUETOOTH, STAR CONTROL and FLEX systems.



STAR VARIO BLUETOOTH



STAR CONTROL



FLEX

## FUCHS STAR VARIO BLUETOOTH

**FUCHS STAR VARIO BLUETOOTH** operates fully automatically, regardless of temperature and back pressure, discharging with extreme precision.

The system consists of an electromechanical motor, an LC (Lubricant Cartridge) unit containing 60 cm<sup>3</sup>, 120 cm<sup>3</sup>, 250 cm<sup>3</sup> or 500 cm<sup>3</sup> of lubricant and batteries.

The desired discharge interval and LC size are easily selected via the set button and are immediately shown on the LCD display. The current operating status is always shown by an LED signal (green / red), which is visible even from a distance, and also on the LCD display.

This single-point lubricator can be controlled remotely via Bluetooth, using mobile device app.



## FUCHS STAR CONTROL

The main difference between the **FUCHS STAR CONTROL** and the **STAR VARIO BLUETOOTH** models is that the drive is powered externally via a connection cable and therefore no batteries are required.

**FUCHS STAR CONTROL** also has an electromagnetic drive with two built-in operating modes: TIME and IMPULSE.

In TIME mode, **FUCHS STAR CONTROL** applies lubrication according to the programmed discharge time (1, 2, 3 ... 12 months).

In IMPULSE mode, the device applies the exact amount of lubricant when power is detected on starting up the machinery. This mode is particularly recommended for machinery that operates intermittently.

A further advantage is that service status can be transmitted and assessed in a PLC.





## Technical information

Reusable electromechanical drive

**FUCHS STAR VARIO BLUETOOTH** with batteries

**FUCHS STAR CONTROL** with external power: 9 - 30 V DC, I<sub>max</sub> 0.5 A

Discharge time

1, 2, 3... 12 months for both devices

**FUCHS STAR CONTROL:**

Time-based control (TIME)

Impulse-based control (IMPULSE)

Lubricant amount

60 cm<sup>3</sup>, 120 cm<sup>3</sup>, 250 cm<sup>3</sup> or 500 cm<sup>3</sup>

Application temperature

**FUCHS STAR VARIO BLUETOOTH:**

-20 °C to +60 °C

**FUCHS STAR CONTROL:**

-40 °C to +60 °C

Operating pressure

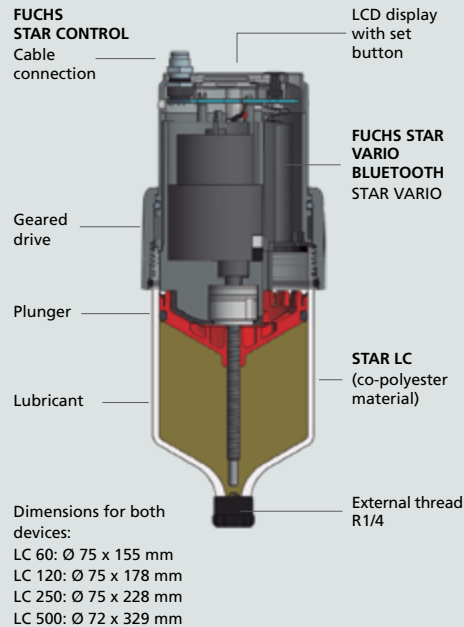
7.5 bar

Protection class

IP 65 for both devices

Lubricant up to NLGI 2 / oils

For both devices



## Product features and benefits



**The LCD display with setting button** shows discharge interval, LC size and operating status

**Setting:** 1, 2, 3... 12 months and LC size

- Simple and intuitive handling
- Precise, customised adjustment avoids under- or over-lubrication
- Changes to the settings can be made at any time.
- Can be switched off in the event of a prolonged plant shutdown



**Reusable electromechanical drive STAR VARIO BLUETOOTH with batteries**  
**STAR CONTROL cable connection**

**Always-visible LED (green/red)** shows operating status and incidents

- Reliable and precise lubrication, regardless of room temperature and back pressure
- One-time acquisition cost
- Quick operation control through LED signals saves time and makes maintenance easier
- **STAR VARIO BLUETOOTH** can be controlled remotely with a mobile device
- **STAR CONTROL** can be connected to a PLC



**The 7.5 bar pressure generated allows for mounting at a distance of up to 5 m**

**Additional manual discharge at the push of a button (purge)**

- Mounting outside hazard areas or in easy-access areas increases safety at work
- Increased availability of the equipment, as the LC change can be carried out smoothly during service
- If necessary, the lubrication point can be purged to remove blockages

Lubricator accessories can be ordered separately according to your needs.

## Accessories



### DRIVE

**Description:**  
Geared drive.  
5 years' service life.

**Retail packaging:**  
1 pc.



### SUPPORT FLANGE

**Description:**  
Lubricator support for first  
installation.  
5 years' service life.

**Retail packaging:**  
1 pc.



### BATTERY PACK

**Description:**  
Battery pack for power supply in  
FUCHS STAR VARIO BLUETOOTH  
devices.  
Change with each lubricant cartridge  
replacement (LC).

**Retail packaging:**  
Pack of 3 batteries.



### CABLE FOR STAR CONTROL

**Description:**  
4-wire connection cable for FUCHS  
STAR CONTROL devices.

**Retail packaging:**  
1 pc.

## FUCHS Cartridges



### FUCHS STAR LC 60

**Description:**  
60 cm<sup>3</sup> Replacement Lubricant Cartridge (LC).

**Items included:**  
STAR LC 60.

**Retail packaging:**  
Box of 10 pcs.



### FUCHS STAR LC 120

**Description:**  
Replacement Lubricant Cartridge (LC)  
120 cm<sup>3</sup>.

**Items included:**  
STAR LC 120.

**Retail packaging:**  
Box of 10 pcs.



### FUCHS STAR LC 250

**Description:**  
Replacement Lubricant Cartridge (LC)  
250 cm<sup>3</sup>.

**Items included:**  
STAR LC 250.

**Retail packaging:**  
Box of 10 pcs.

## FUCHS FLEX

FUCHS FLEX is a compact, ready-to-use lubrication system delivered as a complete unit. It can be used in a wide range of applications at temperatures from -20 °C to +60 °C. The discharge interval can be freely selected from between 1 and 12 months.

The required pressure is achieved by means of an electronically controlled chemical reaction. Fresh lubricant is continuously supplied to the lubrication point throughout the selected discharge interval.

FUCHS FLEX is available in the sizes of 60 cm<sup>3</sup> and 125 cm<sup>3</sup>.



## Technical information

### Operation

**Electrochemical reaction.  
Gas generation.**

Discharge interval at +20 °C  
**1, 2, 3... 12 months**

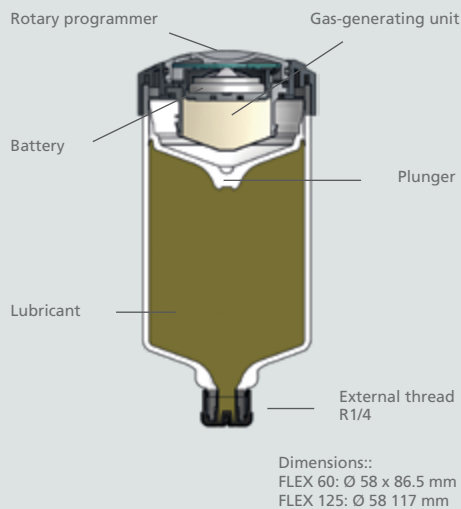
Lubricant volume  
**60 cm<sup>3</sup> or 125 cm<sup>3</sup>**

Application temperature  
**-20 °C to +60 °C**

Operating pressure  
**Max. 5 bar**

Protection class  
**IP 68**

Special and standard lubricants  
**Greases up to NLGI 2 / oils**



### Setting the discharge interval in months:

Guideline values for back-pressure free discharge with NLGI 2 lubricant.




At temperatures from > -60 °C and with discharge intervals of > 6 months, lubricant may remain undelivered.



	1	2	6	9	12
at -20 °C	2	5	10	13	15
at 0 °C	1.3	3.8	7.2	11	13
at +20 °C	1	3	6	9	12
at +40 °C	0.8	2.5	5.2	7.5	10
at +60 °C	0.6	2	4	-	-



## Features and Benefits

	<p><b>Complete system with rotary timer to adjust the discharge interval:</b></p> <p>1, 2, 3... 12 months</p>	<ul style="list-style-type: none"> <li>• The system is delivered fully assembled and ready for immediate use</li> <li>• Easy setting and activation via rotary timer</li> <li>• Discharge time adjustable from 1 to 12 in monthly intervals</li> </ul>
	<p><b>The system operates reliably between -20 °C and +60 °C</b></p>	<ul style="list-style-type: none"> <li>• Flexible use in various temperature ranges</li> <li>• Can be used outdoors all year round</li> </ul>
	<p><b>Ex protection approval</b></p> <p><b>FM approval</b></p> <p><b>IP 68</b></p>	<ul style="list-style-type: none"> <li>• Safe and permanent lubrication in explosion-hazard areas</li> <li>• Can be used in high-humidity or dusty environments</li> <li>• Increased safety at work</li> </ul>

## FUCHS FLEX Single-Point Automatic Lubricators



### FUCHS FLEX 60

**Description:**  
60 cm<sup>3</sup> automatic lubrication system.

**Items included:**  
FUCHS FLEX 60.

**Retail packaging:**  
Box of 10 pcs.



### FUCHS FLEX 125

**Description:**  
120 cm<sup>3</sup> automatic lubrication system.

**Items included:**  
FUCHS FLEX 125.

**Retail packaging:**  
Box of 10 pcs.

## Accessory kit for distance installation

Direct mounting is recommended in order to reduce lubricant pressure on the lubrication point. However, in many cases, remote installation is required, especially when lubrication points are located in high temperature zones (>60 °C), inaccessible areas or where there is a high risk of accidents (vibration, shocks, cuts, etc.).

The following accessories are required to install FUCHS automatic lubricators at a distance from the lubrication point. Please note that the maximum distance is 5 m for STAR VARIO BLUETOOTH and STAR CONTROL systems and 2 m for the FLEX system in order to keep the proper operating pressure.

### INSTALLATION KIT FOR SINGLE-POINT LUBRICATORS WITH OIL

**Description:**









Accessory kit for distance installation of automatic lubricators containing oil (FUCHS STAR LC or FUCHS FLEX)

**Items included:**

8 accessories and spare parts

**Retail packaging:**

Box with accessory kit

Item name	Quantity	Image
STAR Bracket (inox.) G1/4	1 pcs	
Mounting Clamp 65 mm (inox.)	1 pcs	
Straight G1/4" nickel-plated brass connector for e8mm / i6mm hose.	2 pcs	
PA hose, 8 mm outside diameter, -40 a to +80 °C	3 m	
Codo 90° G1/4e x G1/4i latón	1 pcs	
Oil check valve G1/4e xG1/4i Up to 60 °C (brass / plastic)	2 pcs	
Brush bracket (stainless steel)	1 pcs	
Brush Ø20 mm G1/4	1 pcs	

### INSTALLATION KIT FOR SINGLE-POINT LUBRICATORS WITH GREASE

**Description:**

Accessory kit for distance installation of automatic lubricators containing grease









(FUCHS STAR LC or FUCHS FLEX)

**Items included:**

8 accessories and spare parts

**Retail packaging:**

Box with accessory kit

Item name	Quantity	Image
STAR Bracket (inox.) G1/4	1 pcs	
Mounting Clamp 65 mm (inox.)	1 pcs	
Straight G1/4" connector for e8mm / i6mm hose, nickel-plated brass	2 pcs	
PA hose, 8 mm outside diameter, -40 a to +80 °C	3 m	
90° elbow G1/4e x G1/4i, brass	1 pcs	
Pipe adaptor G1/8e x G1/4i, brass	1 pcs	
Pipe adaptor G1/M8x1e x G1/4i, brass	1 pcs	
Pipe adaptor G1/M10x1e x G1/4i, brass	1 pcs	

## A carefully selected range of lubricants for industrial maintenance

### EQUIPMENT AND MACHINERY ALWAYS READY FOR OPERATION

	Thickener Base oil	Grade NLGI	Base oil Viscosity at 40°C [mm²/s]	Temperature range [°C]	Main areas of application
<b>LAGERMEISTER XXL</b>	PU Mineral	2	160	-20 / 160	High-performance, long-life, all-round grease. Due to its broad spectrum of use, the number of different lubricants can be reduced and it is suitable even under severe conditions such as high loads, high temperatures or vibrations.
<b>URETHYN E 2</b>	PU Synthetic	1 - 2	100	-20 / 200	Grease with excellent lubricating properties and thermal stability over a wide temperature range.
<b>RENOLIT CSX 15</b>	CaSX Mineral	1 - 2	460	-20 / 180	Grease for very high-load and low-speed point lubrication, where anti-corrosion properties are required or where water, even salt water, is present.
<b>RENOLIT H 443-HD 88</b>	Li Mineral	2 - 3	100	-30 / 140	Lithium grease for multi-point lubrication. Very good performance in applications such as electric motors, points subject to vibration or points subject to specific high loads.
<b>RENOLIT LX-EP 2</b>	LiX Mineral	2	160	-30 / 160	High-performance lubricating grease, especially when high thermal and mechanical loads are required, also offering good corrosion protection.
<b>RENOLIN CHAINLUBE HT 5020</b>	Synthetic	-	220	-20 / 250	Fully synthetic lubricant oil for drive and transport chains with excellent wear protection, even at high temperatures.
<b>GLEITMO WSP 5040</b>	CaX Special	2	250	-20 / 1200	High performance paste based on a special calcium complex thickener in synergistic combination of highly effective white solid lubricants. It is recommended for lubrication of all types of machine parts subjected to extreme pressures, impulse loads and/or vibrating or oscillating movements, especially if the environment is subjected to high humidity or the effects of splashing water. Due to the high proportion of solid particles, it should not be used to lubricate bearings.
<b>RENOLIT STCA 2</b>	Ca Special Mineral	2	120	-30 / 140	High performance multi-purpose grease based on mineral oil with a newly developed calcium thickener. It has a broad spectrum of use and is therefore recommended for all types of industrial applications.

PU - Polyurea; CaSX - Calcium Sulphonate Complex; CaX - Calcium complex; Ca - Calcium; Li - Lithium; LiX - Lithium Complex.



## Single-Point Automatic Lubricators

# Developing custom lubrication solutions for the most demanding challenges

Our international team of experts from all sectors and industries work solely on lubrication solutions so that our customers can focus on their business.

It is our mission to ensure that we deliver technology that provides them with benefits and improves the sustainability of their processes.

Our engineering team is at your service!



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