Single-Point Automatic Lubricators

MOVING YOUR WORLD

CASSIDA

FUCHS

*LUBRICANTS.
TECHNOLOGY.
PEOPLE.*

FUCHS Single-Point Automatic Lubricators

Easier, cost-effective and efficient service.

CASSIDA
Automatic Lubricators

CASSIDA automatic lubricators are devices that can be programmed to apply lubricant (grease or oil) automatically. In most cases, the equipment can continue to operate during lubricant application, which reduces downtime.

Investing in automatic lubricators always results in savings and reduced maintenance costs in the long run, because lubricant consumption is optimised. In addition, these devices eliminate the cost and risk involved in manually applying controlled amounts of lubricant to multiple sites at frequent intervals while the equipment is in operation. Hygienic design considerations are also improved by the use of automatic lubricators, as they provide a means of achieving clean lubrication, by preventing leaks and spills that might otherwise contaminate products. Automated lubrication provides constant protection against the ingress of contaminants through lubrication points, preventing water, dirt and dust ingress, which leads to longer equipment service life.

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
- Optimal and homogeneous lubrication guaranteed
- Reliable lubrication vs. human error when applying manually
- Improved hygienic design and food safety by minimising residue

To achieve all these benefits, FUCHS offers its customers the full CASSIDA product range in automatic lubricators for STAR VARIO BLUETOOTH, STAR CONTROL and FLEX systems.

STAR VARIO BLUETOOTH   STAR CONTROL   FLEX

CASSIDA STAR VARIO BLUETOOTH

CASSIDA 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 cm³, 120 cm³, 250 cm³ or 500 cm³ 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.

CASSIDA STAR CONTROL

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

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

In TIME mode, **CASSIDA 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
CASSIDA STAR VARIO BLUETOOTH with batteries
CASSIDA STAR CONTROL with external power: 9 - 30 V DC, Imax 0.5 A

Discharge time
1, 2, 3... 12 months for both devices
CASSIDA STAR CONTROL:
Time-based control (TIME)
Impulse-based control (TIME)

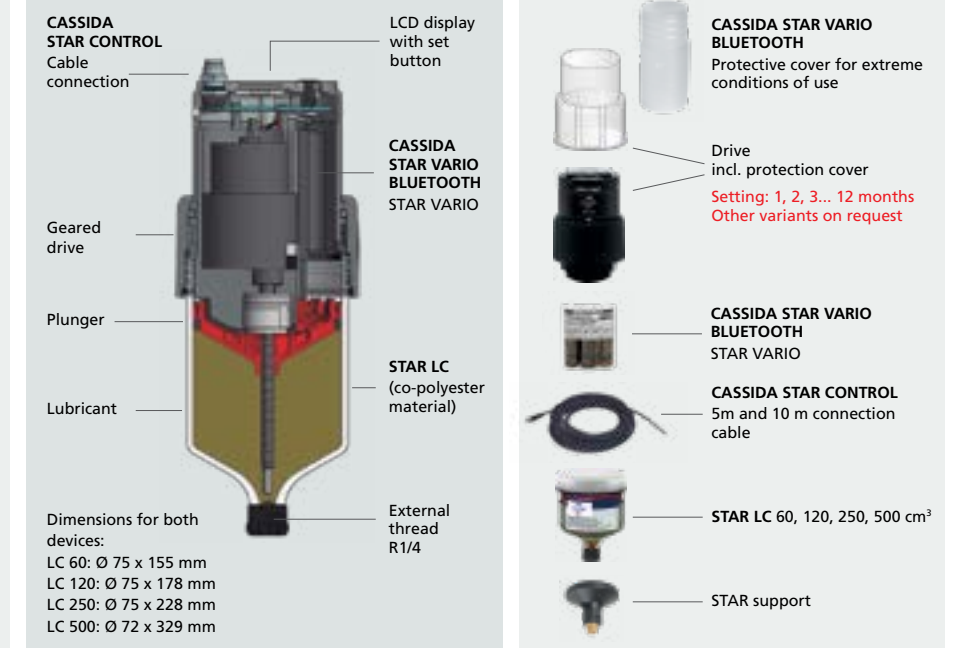**Lubricant amount**
60 cm³, 120 cm³, 250 cm³ or 500 cm³

Application temperature
CASSIDA STAR VARIO BLUETOOTH:
-20 °C to +60 °C
CASSIDA 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

CASSIDA STAR CONTROL
Cable connection

Geared drive

Plunger

Lubricant

LCD display with set button

CASSIDA STAR VARIO BLUETOOTH
STAR VARIO

STAR LC (co-polyester material)

Dimensions for both devices:
LC 60: Ø 75 x 155 mm
LC 120: Ø 75 x 178 mm
LC 250: Ø 75 x 228 mm
LC 500: Ø 72 x 329 mm

External thread R1/4

CASSIDA STAR VARIO BLUETOOTH
Protective cover for extreme conditions of use

Drive incl. protection cover
Setting: 1, 2, 3... 12 months
Other variants on request

CASSIDA STAR VARIO BLUETOOTH
STAR VARIO

CASSIDA STAR CONTROL
5m and 10 m connection cable

STAR LC 60, 120, 250, 500 cm³

STAR support

Product features and benefits

The LCD display with set 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 long-term 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

CASSIDA Cartridges

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 CASSIDA STAR VARIO BLUETOOTH devices.
Change with each lubricant cartridge replacement (LC).

Retail packaging:
Pack of 3 batteries.

CASSIDA STAR LC 60

Description:
60 cm³ Replacement Lubricant Cartridge (LC).

Items included:
STAR LC 60.

Retail packaging:
Box of 10 pcs.

CASSIDA STAR LC 120

Description:
120 cm³ Replacement Lubricant Cartridge (LC).

Items included:
STAR LC 120.

Retail packaging:
Box of 10 pcs.

CASSIDA STAR LC 250

Description:
250 cm³ Replacement Lubricant Cartridge (LC).

Items included:
STAR LC 250.

Retail packaging:
Box of 10 pcs.

CABLE FOR STAR CONTROL

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

Retail packaging:
1 pc.

CASSIDA FLEX

CASSIDA 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 applied to the lubrication point throughout the selected discharge interval.
CASSIDA FLEX is available in 60 cm³ and 125 cm³ sizes.

Features and Benefits

	Complete system with rotary timer to adjust the discharge interval: 1, 2, 3... 12 months	• The system is delivered fully assembled and ready for immediate use • Easy setting and activation via rotary timer • Discharge time adjustable from 1 to 12 in monthly intervals
	The system operates reliably between -20 °C and +60 °C.	• Flexible use in various temperature ranges • Can be used outdoors all year round
	Ex protection approval **FM approval** **IP 68**	• Safe and permanent lubrication in explosion-hazard areas • Can be used in high-humidity or dusty environments • Increased safety at work

Technical information

Operation

**Electrochemical reaction.
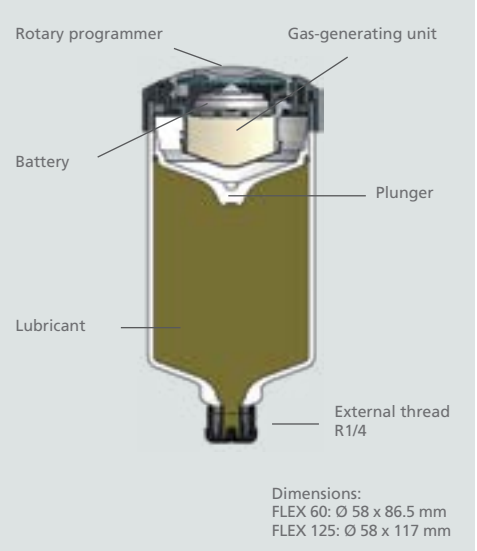Gas generation.**

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

**Lubricant volume
60 cm³ or 125 cm³**

**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**

Rotary programmer   Gas-generating unit

Battery

Plunger

Lubricant

External thread
R1/4

Dimensions:
FLEX 60: Ø 58 x 86.5 mm
FLEX 125: Ø 58 x 117 mm

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.

OFF

	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	-	-

CASSIDA automatic lubricators

CASSIDA FLEX 60

Description:
60 cm³ automatic lubrication system.

Retail packaging:
Box of 10 pcs.

CASSIDA FLEX 125

Description:
120 cm³ automatic lubrication system.

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 ℃), inaccessible areas or where there is a high risk of accidents (vibration, shocks, cuts, etc.).

The following accessories are required to install CASSIDA 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 remote installation of automatic lubricators containing oil
(CASSIDA STAR LC or CASSIDA 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 ℃	3 m	
90° elbow G1/4e x G1/4i, brass	1 pcs	
Oil check valve G1/4e xG1/4i Up to 60 ℃ (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 remote installation of automatic lubricators containing grease
(CASSIDA STAR LC or CASSIDA 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 ℃	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	

CASSIDA

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Developing custom lubrication solutions for the most demanding challenges

Our international team of experts from all sectors and industries works 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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