The powerful and flexible lubrication system
Automatic lubrication systems dispense small, precise amounts of lubricant at short, regular intervals. The amount of time and personnel required for large plants, and machines located in hazardous areas mean that manual lubrication is often dangerous, impractical and expensive. Automatic lubrication systems as part of maintenance can resolve this issue.

Automatic lubrication systems prevent under- and over-lubrication, thus enhancing the service life of your machines.

More than half of all unforeseen bearing malfunctions are lubricant related! In 75% of cases, automatic lubricant dispensers help prevent bearing malfunction.

The benefits of automatic lubricators

Automatic lubrication systems... ...reduces your costs
- saves time
- fewer machine breakdowns
- due to decreased wear
- lower lubricant consumption
- increased service life of bearings

...protects the environment
- needs-based lubricant dosage
- low risk of impurities and contamination

...improves work safety
...enables monitoring and provides an overview

Bearing damage and its causes

The pie chart shows the distribution of bearing malfunctions due to various causes:
- Old lubricant: 20%
- Not enough lubricant: 20%
- Unsuitable lubricant: 15%
- Solid impurities: 15%
- Liquid impurities: 15%
- Incorrect construction & assembly: 20%
- Consequential damage: 5%

In 75% of cases, automatic lubricant dispensers help prevent bearing malfunction.
Lubricus offers a new portal to the world of automatic lubrication. With the highly versatile Lubricus lubrication system, both single lubrication points and a whole group of varied points can be provided with lubricant continuously over a long period of time. Due to the compact dimensions, the Lubricus is optimally suited for upgrades or retrofitting. The large variety of models enable an individually optimized lubrication solution for almost every application.

**Lubrication of**
- bearings
- chains
- open tooth systems
- linear guides

### Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Lubricus 250 ml</th>
<th>Lubricus 400 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>Electromechanical</td>
<td></td>
</tr>
<tr>
<td>Operating pressure</td>
<td>Max. 70 bar (1015 psi)</td>
<td></td>
</tr>
<tr>
<td>Distribution period</td>
<td>1 – 36 months / pause time</td>
<td></td>
</tr>
<tr>
<td>Lubricant volume</td>
<td>250 ml</td>
<td>400 ml</td>
</tr>
<tr>
<td>Lubricating medium</td>
<td>Oils and greases up to NLGI 2</td>
<td></td>
</tr>
<tr>
<td>Operating temp.</td>
<td>-15 °C to +70 °C</td>
<td></td>
</tr>
<tr>
<td>Operational voltage</td>
<td>Li battery or 24 VDC</td>
<td></td>
</tr>
<tr>
<td>Weight without lubricant</td>
<td>1061 - 1524 g</td>
<td></td>
</tr>
<tr>
<td>Weight with lubricant</td>
<td>ca. 1294 - 1730 g</td>
<td>ca. 1461 - 1897 g</td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>112x165x94 mm</td>
<td>112x196x94 mm</td>
</tr>
<tr>
<td>Performance monitoring</td>
<td>Green/red LED</td>
<td></td>
</tr>
<tr>
<td>Outlet</td>
<td>hose 6/4 mm</td>
<td></td>
</tr>
</tbody>
</table>

- Running time 1–36 months or pause time
- Optical warning in the case of malfunction (LED)
- Fault/empty reporting
- Temperature-independent feed rate
- Special fillings available
**Independent thanks to battery power**
The battery-operated variant of the Lubricus lubrication system is always used when an autarchic operation is desired or necessary. The highly-efficient battery pack can optionally be set to empty the lubricant cartridge over a period of 1–36 months (or pause time).

- 1 or 2 outlets, 70 bar (1015 psi) supply pressure
- LCD display with LED
- Quick-check (back-pressure readings)
- 1 to 36 months / pause time

Art.no. **LUB-B-1 • LUB-B-2**

**Quick Check**
During operation Lubricus measures the back-pressure at the lubricating point. The result is output to the display in just a few seconds - simple and without any additional effort.

**Take a break**
The 24V variant of the Lubricus lubrication system is always the right choice when an external power supply can be simply attached. The LUB-V's strengths become particularly apparent during discontinuous operation.

- 1 or 2 outlets, 70 bar (1015 psi) supply pressure
- LCD display with LED
- Quick-check (back-pressure readings)
- Error readouts possible
- 1 to 36 months / pause time / pulse control

Art.no. **LUB-V-1 • LUB-V-2**
**Pulse control**

Lubricus D is particularly suited for units in which lubrication must be synchronised with the operating period of the machine, or where specific lubrication cycles at prescribed intervals are needed. The feed pump in the Lubricus D provides lubricant to the outlets via PLC according to the activation of pump outputs. In this way a highly precise dose amount of lubricant can be obtained. The user has the highest possible degree of control over the frequency of lubrication and the size of the lubricant dose.

- 1, 2, 3 or 4 outlets, 70 bar (1015 psi) supply pressure
- Flexible, individual volume assignment
- Feedback to the connected unit
- Exact control and lubricant dosing

**Art.no.** LUB-D-1 • LUB-D-2 • LUB-D-3 • LUB-D-4 • LUB-D-1-1

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**Outsourced monitoring**

The Lubricus controller is used for external monitoring of the Lubricus, to which up to four Lubricus lubrication systems (4 outlets each = 16) can be connected. The connected Lubricus lubricating devices can be individually controlled and monitored using the Lubricus Controller. The dialogue takes place via a simple to operate LCD display.

- Lubricating units are attached close to the actual lubricating points
- Central monitoring is possible (e.g. PLC)
- Individual supply volumes possible
- Monitoring of up to 16 lubrication points

**Art.no.** LUB-C-1 • LUB-C-2 • LUB-C-3 • LUB-C-4 • LUB-C-1-1
The Lubricus Controller monitors and controls four Lubricus lubricating devices, which in turn supply a varying number of lubricating points. The paths that the lubricant has to travel along the lines can be kept simple and short; nevertheless central monitoring takes place via the Lubricus Controller. Installation and maintenance requirements are sustainably reduced.

<table>
<thead>
<tr>
<th>Art.no.</th>
<th>Designation</th>
<th>Application</th>
<th>Working voltage</th>
<th>Operating temperature</th>
<th>Connection for power supply</th>
<th>Output to Lubricus</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUB-CE</td>
<td>Lubricus Controller</td>
<td>System monitoring</td>
<td>24 VDC</td>
<td>−15°/+80°</td>
<td>M12 x 1</td>
<td>M8 x 1</td>
</tr>
</tbody>
</table>
Monitored lubrication of minimum volume

Lubricus S can be used as a single point lubricator or (by means of splitters or progressive distributors) as a multipoint lubricator. Due to its extremely compact pump unit and its low weight it especially suits applications with lacking space.

Two types of Lubricus S are available: **LUB-S-B** runs with a 4.5 V battery and operates at 15 or 35 bar (218 or 508 psi). **LUB-S-V** uses 24 VDC and can be connected to PLC optionally. Its higher delivery pressure of up to 50 bar (725 psi) enables even more possible applications. Besides a 125 ml cartridge a 250 ml cartridge can be screwed on.

The built-in display allows you to keep track of all functions anytime.

- Compact dimensions
- Switchable delivery pressure
- Easy to operate
- Fault/empty reporting
- Suitable for splitters / progressive distributors (LUB-S-V)

### Design & technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>LUB-S-B</th>
<th>LUB-S-V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>electromechanical</td>
<td></td>
</tr>
<tr>
<td>Operating pressure</td>
<td>15 / 35 bar (218 / 508 psi) (switchable)</td>
<td>15 / 50 bar (218 / 725 psi) (switchable)</td>
</tr>
<tr>
<td>Distribution period</td>
<td>1-24 months time mode</td>
<td>1-24 months time mode or pulse control</td>
</tr>
<tr>
<td>Lubricant volume</td>
<td>125 ml</td>
<td>125 or 250 ml</td>
</tr>
<tr>
<td>Lubricating medium</td>
<td>oils and greases up to NLGI cl. 2</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>Al battery: +15 °C to +60 °C</td>
<td></td>
</tr>
<tr>
<td>Li battery: -15 °C to +60 °C</td>
<td>-15 °C to +60 °C</td>
<td></td>
</tr>
<tr>
<td>Working voltage</td>
<td>4.5 V</td>
<td>24 VDC</td>
</tr>
<tr>
<td>Weight</td>
<td>~ 360 g (without cartridge)</td>
<td></td>
</tr>
<tr>
<td>Dimensions (height x Ø)</td>
<td>152 x 83 mm</td>
<td></td>
</tr>
<tr>
<td>Performance monitoring</td>
<td>display &amp; LED</td>
<td></td>
</tr>
<tr>
<td>Outlet</td>
<td>M16 / M10x1</td>
<td></td>
</tr>
<tr>
<td>Splitter possible</td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>
Gruetzner GmbH is your specialist for automatic lubrication systems since 1993. Our user-friendly lubrication solutions are used in almost all areas of maintenance in every industry across the globe.

As an international established, family-owned enterprise flexibility and outstanding service are our core competencies. An individual, custom-built lubrication concept which is adjusted to your machines and constructions will gladly be developed by our experts.

We additionally take on responsibility for the environment with our modern lubrication solutions. By reducing lubricant and energy consumption as well as extending the service life of wear parts we achieve a significant reduction in CO₂ emissions in factories and plants all over the world.

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