

# Automatic lubrication in F&B industry

## Why automatic lubrication?

### ...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

## Challenges

Food and beverage manufacturers depend on an extremely hygienic working environment due to strict statutory provisions. Machines often run 24/7 and a mostly humid climate leads to an increasing wear of guides, chains and bearings. At the same time, operational costs should be kept as low as possible.

## Advantages of automatic lubrication



### Hygiene

- automatic lubrication lowers the risk of contamination
- filling with (own) food save greases and oils possible



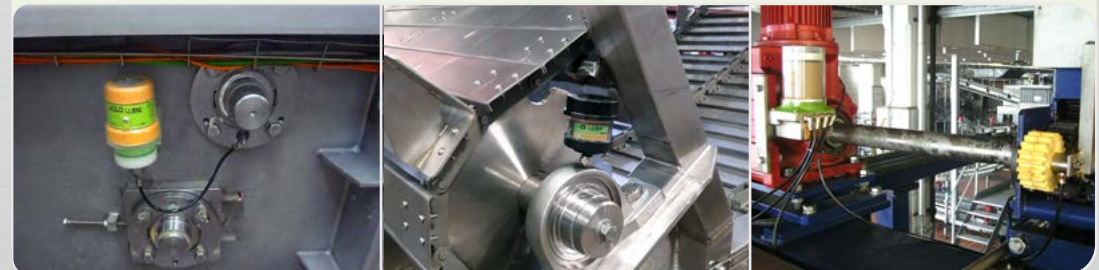
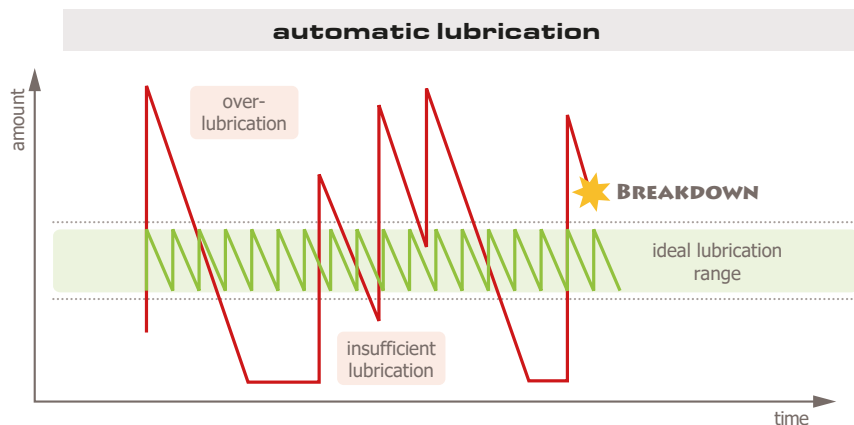
### Costs

- lower energy costs
- time saving
- sustainable by multiple refills
- increasing production efficiency



### Production efficiency

- less wear
- less machine downtime
- less maintenance effort
- precise control



## Our solutions for automatic lubrication



	<b>G LUBE</b>	<b>SOLOLUBE</b>	<b>G LUBE EM OIL</b>	<b>G LUBE EM B</b>	<b>G LUBE EM V</b> <b>LUBE EM D</b>	<b>G LUBE VIB</b>	<b>LUB-S</b>	<b>LUBRICUS</b>
<b>Multiple lubrication points</b>	X	X	✓	✓	✓	✓	✓	✓
<b>Reusable drive</b>	X	✓	✓	✓	✓	✓	✓	✓
<b>Working voltage</b>	Battery	Battery / 24 VDC	Battery / 24 VDC	Battery	9-36 VDC	Battery	Battery / 24 VDC	Battery / 24 VDC
<b>Max. operating pressure</b>	5 bar 73 psi	7,5 bar 109 bar	10 bar 145 psi	60 bar 870 psi	60 bar 870 psi	60 bar 870 psi	35/50 bar 508/725 psi	70 bar 1015 psi
<b>Max. tube length*</b>	Grease: 0,5 m Oil: 3 m	Grease: 1,5 m Oil: 5 m	Oil: 6 m	Grease: 6 m	Grease: 6 m	Grease: 6 m	Grease: 4 m Oil: 7 m	Grease: 6 m Oil: 10 m
<b>Max. run-time</b>	12 months	12 months	24 months	12 months	12 months	12 months	24 months	36 months
<b>Lubricating intervals (months)</b>	1/3/6/9/12	1-12 (stepless)	0,5/1/2/4/6/ 12/18/24	1-12 (stepless)	1-12 (stepless)	1-12 (stepless)	1-24 (stepless)	1-36 (stepless)
<b>Operating temperature</b>	-20 °C to +55 °C	-20 °C to +60 °C	+5 °C to +60 °C	-5 °C to +60 °C	-20 °C to +60 °C	+5 °C to +60 °C	-15 °C to +60 °C	-15 °C to +70 °C
<b>Self-filling possible</b>	✓	✓	✓	X	X	X	X	X
<b>Self-refilling</b>	X	X	✓	X	X	X	X	X
<b>Control</b>	Empty time	Empty time	Empty time, PLC	Empty time	Empty time, PLC	Empty time	Empty time, pause time, PLC	Empty time, pause time, PLC

\* depends on lubricant and application

### Scopes of application:

✓ Packaging machines   ✓ Palletizers   ✓ Conveyors   ✓ Filling stations   ✓ Fans