

Automatic lubrication in steel 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

In the steel industry the access to many lubrication points is burdensome or dangerous. Manual lubrication is inconvenient due to a large variety of different lubricants and applications. Extreme operating conditions such as high temperature, vibrations, shock loads, high loads and contaminants demand frequent and reliable lubrication in order to prevent costly downtime.

Advantages of automatic lubrication



Heat

- temperature-independent delivery rate
- operation at high temperatures possible



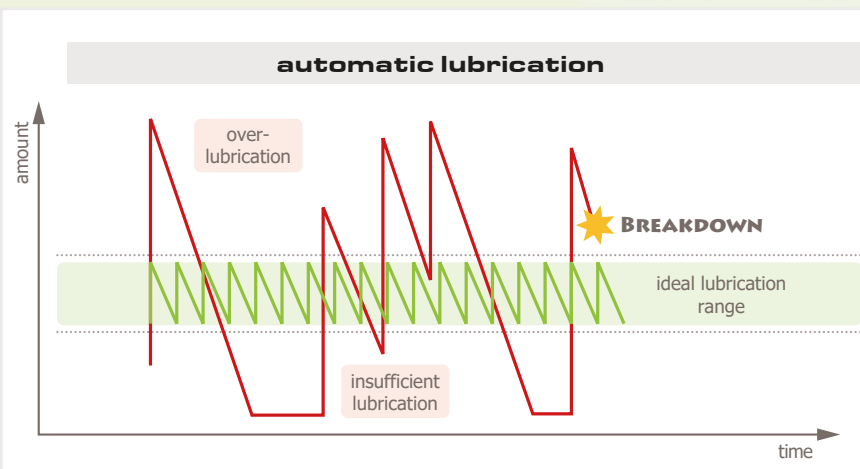
Costs

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



Safety

- indirect installation possible
- central controlling and monitoring in an user-friendly environment



Our solutions for automatic lubrication



| Specifications | G LUBE | SOLOLUBE | G LUBE OIL | G LUBE VIS | LUB-S | LUBRICUS |
|-------------------------|------------------------------------|------------------------------------|----------------------|---------------------|-----------------------------|-----------------------------|
| Lubrication points | Single | Single | Multiple | Multiple | Multiple | Multiple |
| Operating temperature | -20 °C to +55 °C | -20 °C to +60 °C | +5 °C to +60 °C | +5 °C to +60 °C | -15 °C to +60 °C | -15 °C to +70 °C |
| Working voltage | Battery | Battery/24V | Battery | Battery | Battery/24V | Battery/24V |
| Max. operating pressure | 5 bar (73 psi) | 7,5 bar (109 psi) | 10 bar (145 psi) | 60 bar (870 psi) | 35/50 bar (508/725 psi) | 70 bar (1015 psi) |
| Max. tube length* | Grease: 0,5 m Oil: 3 m | Grease: 1,5 m Oil: 5 m | Oil: 6 m | Grease: 6 m | Grease: 4 m Oil: 7 m | Grease: 6 m Oil: 10 m |
| Max. run-time | 12 month | 12 month | 24 month | 12 month | 24 month | 36 month |
| Lubricating intervals | 1/3/6/9/12 | 1-12 (steppless) | 0,5/1/2/4/6/12/18/24 | 1-12 (steppless) | 1-24 (steppless) | 1-36 (steppless) |
| Filling | By yourself or on customer request | By yourself or on customer request | By yourself | On customer request | On customer request | On customer request |
| Reusable drive | X | ✓ | ✓ | ✓ | ✓ | ✓ |
| Self-refilling | X | X | ✓ | X | X | X |
| Control | Empty time | Empty time | Empty time | Empty time | Empty time, pause time, PLC | Empty time, pause time, PLC |

* depends on lubricant and application

Scopes of application

- ✓ Cooling sections
- ✓ Coking plants
- ✓ Conveyors
- ✓ Continuous furnaces
- ✓ Fans