

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



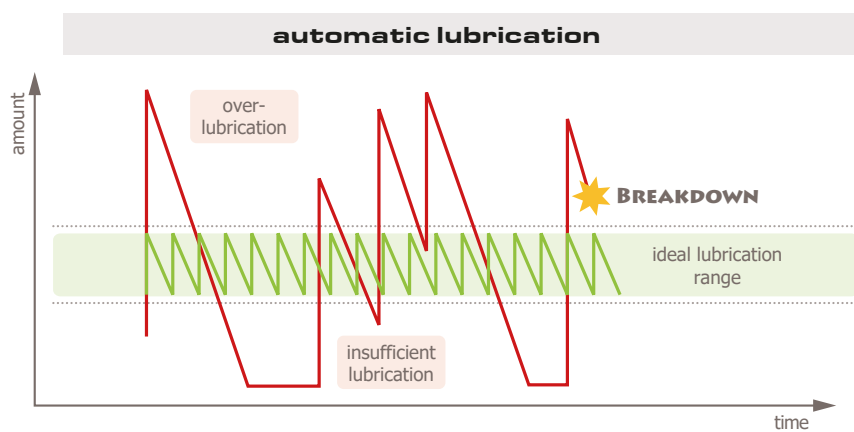
Costs

- 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



	G LUBE	SOLOLUBE	G LUBE EM OIL	G LUBE EM B	G LUBE EM V LUBE EM D	G LUBE VIB	LUB-S	LUBRICUS
Multiple lubrication points	X	X	✓	✓	✓	✓	✓	✓
Reusable drive	X	✓	✓	✓	✓	✓	✓	✓
Working voltage	Battery	Battery / 24 VDC	Battery / 24 VDC	Battery	9-36 VDC	Battery	Battery / 24 VDC	Battery / 24 VDC
Max. operating pressure	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
Max. tube length*	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
Max. run-time	12 months	12 months	24 months	12 months	12 months	12 months	24 months	36 months
Lubricating intervals (months)	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)
Operating temperature	-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
Self-filling possible	✓	✓	✓	X	X	X	X	X
Self-refilling	X	X	✓	X	X	X	X	X
Control	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:

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