

RAW MATERIALS PROCESS

INDUSTRY



**LUBRILOG**  
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LUBRICATION ENGINEERING

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# OPEN GEAR DRIVES LUBRICANTS MILLS & ROTARY KILNS

.....  
High Viscosity and Adhesion  
= High Performance Lubricant

**Lubricants for all situations (Spraying - Bath - Circulation) :**  
**Priming - Running-in - Service - Cleaning - Repair**

		LUBRILOG LUBRICANTS			CHARACTERISTICS			
		Name	Graphite or MoS <sub>2</sub>	Without Graphite	Structure	Viscosity at 40°C. (mm <sup>2</sup> /s)/ consistency	4 balls weld test (daN)	Color
<b>BATH &amp; CIRCULATION LUBRICANTS</b>		GRAFOLOG R FLUID	●		grease	2,000 / 000	> 800	black
		GRAFOLOG M FLUID	●		grease	3,000 / 000	> 800	black
		GRAFOLOG MT FLUID	●		grease	7,500 / 000	> 800	black
		LUBRILOG L CC 1200 M	●		oil	1,200	400	black
		LUBRILOG L CC 1500 M to 3200 M	●		oil	1,500 to 3,200	400	black
		GEAR FLUID R		●	oil	520	> 980	brown
		GEAR FLUID 180		●	oil	4,600	> 980	brown
		GEAR FLUID 550		●	oil	17,000	> 980	brown
		GEAR FLUID 1000		●	oil	25,000	> 980	brown
<b>SPRAYING LUBRICANTS</b>		GRAFOLOG H 00 R	●		grease	320 / 00	> 800	black
		GRAFOLOG H 0	●		grease	500 / 0	> 620	black
		GRAFOLOG H 0 +	●		grease	1,100 / 0 - 1	> 700	black
		GRAFOLOG H 1500	●		grease	1,500 / 0 - 1	> 700	black
		GRAFOLOG H 2200	●		grease	2,200 / 00 - 0	> 700	black
		GRAFOLOG H 3000	●		grease	3,200 / 0	> 700	black
		INVERTA RUN PLUS		●	grease	1,000 / 0 - 1	> 700	brown
		INVERTA RUN HT		●	grease	460 / 00* - 12,500 / 0**	> 800	beige
		GEAR FLUID 550 D		●	oil	1,000* - 17,000**	> 980	brown
		GEAR FLUID 1000 D		●	oil	1,600* - 25,000**	> 980	brown

\* with solvent - \*\* without solvent

Approved by :







# VERTICAL MILLS LUBRICANTS GRINDING ROLLERS

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Full Range of Long Life Effective Lubricants

## Rotary Separator (Classifier)

Bearings :  
STARPLEX G 2  
LOGREASE M 2

Gearbox :  
LUBRILOG LY PAO 320 AW  
LUBRILOG LY PG 320 W

Motor :  
STARPLEX G 3

## Grinding Rollers

Bearings :  
LUBRILOG LY PG 680 W  
LUBRILOG LY PG 1000 W  
LUBRILOG L CC 320

Assembly :  
LUBRILOG LX 1225 M  
STARGREASE HEAVY

## Rocker Arm

Bearings :  
LUBRILOG LX 1225 M  
STARGREASE HEAVY

## Spring Assembly

Hydraulic Cylinder :  
LUBRILOG L HM 68  
LUBRILOG L HV 22

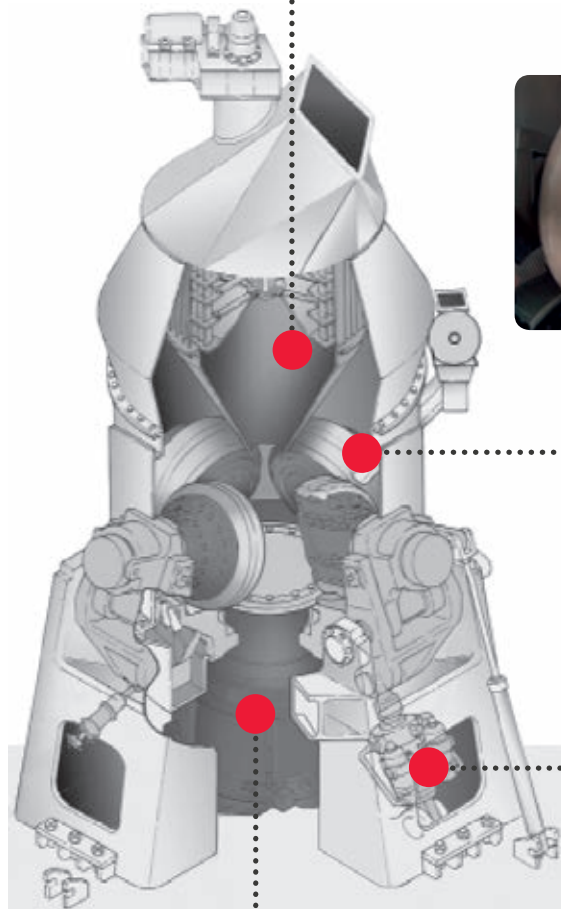
Bearings :  
LUBRILOG LX 1225 M  
STARPLEX G3

*Lubricant selection based on the lubrication list of the vertical rollers mill manufacturer*

## Mill Drive

Main Gearbox :  
LUBRILOG L CC 220  
LUBRILOG L CC 320

Motor :  
STARPLEX G 3





# ROTARY SYSTEMS LUBRICANTS KILNS

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*High Temperatures Lubricants*



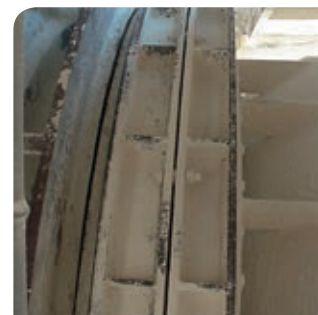
## Grate preheater bearings

(SEMI-DRY WAY)  
STARPLEX G1



## Internal face of floating kiln tyres

GRAKOTE FLUID  
GRAFOLOG 1278 S



## Inlet seal of rotary kiln

STARPLEX G2



## EXCLUSIVE ! LUBRICLEAN EP FAST CLEANING OF OPEN GEAR DRIVES IN-SERVICE

LUBRILOG has developed a green solvent to clean Open Gear Drives without stopping the production

Now LUBRICLEAN EP saves a lot of time and costs by fighting against ABRASIVE wear in less than one hour cleaning process

Biodegradable and without V.O.C.





# OPEN GEAR DRIVES EXPERTISE TECHNICAL DEPARTEMENT

.....  
*Control of Wear and Longer Life  
of Open Gear Drives*

## A full range of technical expertise to increase performance and productivity of rotary drums



### Lubricants

All of our lubricants are designed and manufactured in our plant in Romans-sur-Isère with choice of components and additives for different applications



### Open gears

Knowledge of gears is imperative to ensure effective lubrication (choice of suitable lubricant, assistance from the open gear drive erection, expert's report)

## Preventive Maintenance : Expert's Report



### On-Stop

The open gear drives are checked on-stop: Wear, Damages and Lubrication



### In-Service

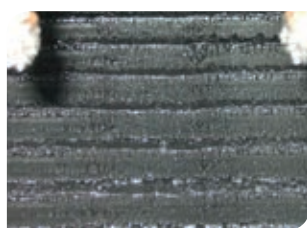
The open gear drives are checked in service: Service conditions of the gear set and lubrication



### Technical Reports

Complete technical reports: Prevention, Suggestions, Improvements and Repairs

## Specialized repair On-Site



### Chemical Lapping

Chemical surfaces improvement, in service, to obtain a perfect distribution of transmission loads



### Repair Lapping

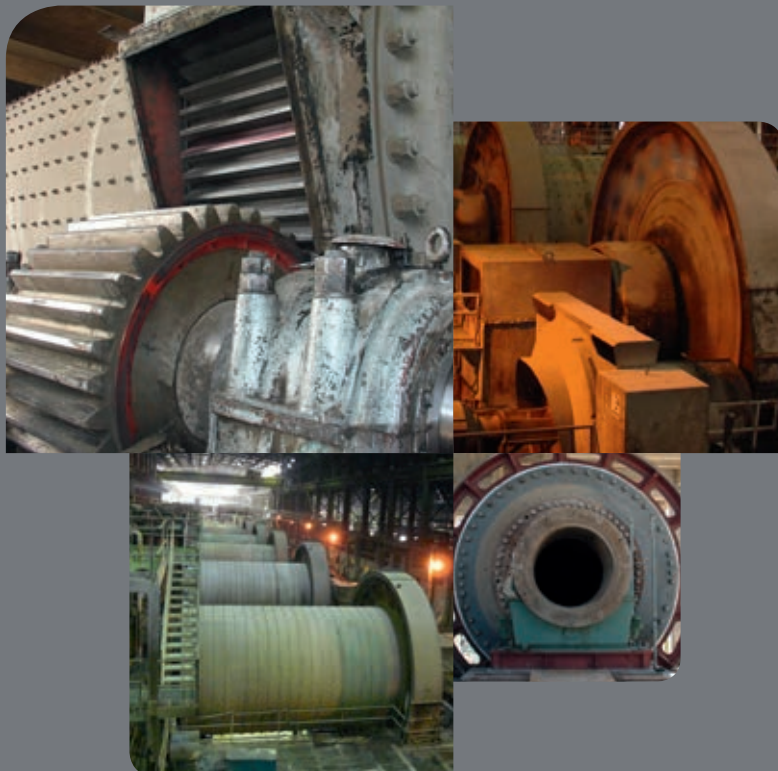
Fast Repair improves the contact between active flanks. This process is done by our specialist when Mill or Kiln is in service



### Grinding

Manual mechanical grinding repair of the open gear set working flanks, on-site (burr, pitting, profile)

# LUBRICATION ENGINEERING



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