

# SILVERI ENGINEERING & TRADING PTY LTD



FUEL DELIVERY | LUBRICATION | FIRE SUPPRESSION | WORKSHOP EQUIPMENT

## GREASEMAX

## PRODUCT INFORMATION CATALOGUE

2021

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## GreaseMax® lubricators provide the important maintenance advantage of greasing bearings when they are moving rather than stationary

A simple maintenance improvement – greasing bearings when they are moving rather than stationary – can deliver important maintenance and productivity outcomes.

The importance of greasing bearings when they are moving is often not understood or overlooked. Possibly it is understood but is not done due to practical constraints such as moving machinery and safety regulations.

Grease introduced into a stationary bearing will take the path of least resistance. Many housings only have one grease entry point. Grease is typically pumped in by a high-pressure grease gun or lube system at a higher than necessary volume, in a short time period. It is hoped that the new grease will make it into the bearing and remove the older grease. Some of the grease may enter the bearing but if there is any sort of constraint to its entry it quite possibly may instead simply pass out through the closest seal.

Older grease in the bearing will tend to block the entry of new grease. This older grease is likely to be on the peripheries of the rolling surfaces, not on the areas of contact where lubrication is needed. This means that the older grease, which may be oil depleted, additive-depleted, contaminated or oxidized, remains. Not only is it limited as a lubricant, but its presence impedes the entry of new grease into the rolling elements.



The bearing may not have been lubricated even though grease has been added to the housing.

The optimal time to grease a bearing is when it is moving. A moving bearing has less resistance to grease input. Slow and progressive grease input at low pressure into a moving bearing allows the grease to be taken up into the moving bearing elements. Grease added slowly and regularly will provide continuous purging of grease that has reached the end of its useful life. Thus, older grease is prevented from

remaining in the bearing long enough to become depleted or contaminated, or worse, to harden and become a lubrication maintenance problem.

Correctly lubricating a bearing in this manner will also mean a reduced grease requirement as the grease is used more efficiently. The actual amount of grease needed to lubricate the contact surfaces is quite small, however, to achieve this better efficiency the grease must be introduced slowly and continuously. Lower grease use results in less contamination clean up and it's better for both the environment and costs.

The benefit of lubricating bearings slowly and continuously, when they are moving, can be meas-



001-01

(WHITE) GREASEMAX; 1 MONTH,  
MULTI-PURPOSE GREASE

Each or Packs of 20



001-03

(BLUE) GREASEMAX; 1 MONTH,  
MULTI-PURPOSE GREASE

Each or Packs of 20



001-06

(RED) GREASEMAX; 1 MONTH,  
MULTI-PURPOSE GREASE

Each or Packs of 20



001-012

(GREY) GREASEMAX; 1 MONTH,  
MULTI-PURPOSE GREASE

Each or Packs of 20



003-01

(WHITE) GREASEMAX; 1 MONTH,  
MULTI-PURPOSE + MOLY

Each or Packs of 20



003-03

(BLUE) GREASEMAX; 1 MONTH,  
MULTI-PURPOSE + MOLY

Each or Packs of 20



003-06

(RED) GREASEMAX; 1 MONTH,  
MULTI-PURPOSE + MOLY

Each or Packs of 20



003-012

(GREY) GREASEMAX; 1 MONTH,  
MULTI-PURPOSE + MOLY

Each or Packs of 20



100-01

(WHITE) GREASEMAX; 1 MONTH,  
FOOD GRADE GREASE

Each or Packs of 20



100-03

(BLUE) GREASEMAX; 1 MONTH,  
FOOD GRADE GREASE



100-06

(RED) GREASEMAX; 1 MONTH,  
FOOD GRADE GREASE



100-012

(GREY) GREASEMAX; 1 MONTH,  
FOOD GRADE GREASE



**GF10001**

**BRACKET PLASTIC**



**GF11040**

**EXTENSION, BRASS,  
40MM 1/4BSP M&F**



**GF11085**

**EXTENSION, BRASS,  
85MM 1/4BSP M&F**



**GF11125**

**EXTENSION, BRASS,  
125MM 1/4BSP M&F**



**GF12000**

**ELBOW, 90DEG, BRASS,  
1/4BSP M&F**



**GF13006**

**ADAPTOR, 45DEG,  
BRASS 6MM M**



**GF13014**

**ADAPTOR, 45DEG,  
BRASS 1/4UNF M**



**GF13018**

**ADAPTOR, 45DEG,  
BRASS 1/8BSP M**



**GF14006**

**ADAPTOR, BRASS,  
6MM X 1 M**



**GF14008**

**ADAPTOR, BRASS,  
8MM X 1 M**



**GF14009**

**ADAPTOR, BRASS,  
8MM X 1.25 M**



**GF14010**

**ADAPTOR, BRASS,  
10MM X 1 M**



**GF14011**  
ADAPTOR, BRASS,  
10MM X 1.5 M



**GF14014**  
ADAPTOR, BRASS,  
1/4UNF M



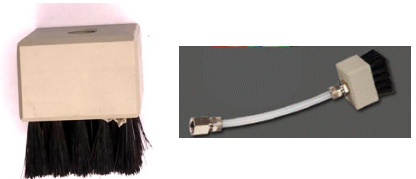
**GF14018**  
ADAPTOR, BRASS,  
1/8BSP M



**GF15000**  
TEE, BRASS,  
1/4BSP 1/4BSP F



**GF16000**  
CONTROL VALVE  
1/4BSP 1/4BSP F



**GF17000**  
BRUSH  
1/4BSP F



**GreaseMax** is a chemically operated automatic lubricator.

A chemical reaction commences when the activator cap is screwed into GreaseMax. Gas so generated expands a diaphragm, causing pressure on a piston, which results in the discharge of the lubricant. When the cartridge is empty the piston becomes visible in the transparent cone.

**GreaseMax** steel body allows it to be used in hot applications and where pressure is needed, on long feed lines for example.

**GreaseMax** greases bearings and seals and is also excellent for purging and preventing ingress of contaminants.



Colour	Operating Period*
White	1 month
Blue	3 months
Red	6 months
Grey	12 months

\* at 25°C.  
For discharge periods at other ambient environmental temperatures, refer to the table below

GreaseMax Discharge Table

Average temp.	WHITE TYPE 1 1 month		BLUE TYPE 3 3 month		RED TYPE 6 6 month		GREY TYPE 12 12 month	
	Life in months	Grease supply / day grams	Life in months	Grease supply / day grams	Life in months	Grease supply / day grams	Life in months	Grease supply / day grams
55°C	0.3	12.0	1	3.6	2	1.8	4	0.9
45°C	0.5	7.3	1.5	2.3	3	1.2	6	0.6
35°C	0.7	5.2	2.5	1.5	4.5	0.8	9	0.4
25°C	1	3.6	3	1.2	6	0.6	12	0.3
15°C	1.5	2.3	4.5	0.8	9	0.4	18	0.2
5°C	2	1.8	6	0.6	12	0.26	24	0.13
-5°C	4	0.9	12	0.3	24	0.15	48	0.08

Average temperature is the average ambient air temperature

### Lubricants

GreaseMax standard lubricant:

Product Code	Thickening Medium	Base Oil Viscosity at 40°C	Temp Range 0°C	Application
001	Lithium / Calcium	150mm <sup>2</sup> /s	-30° - 120°	Normally stressed roller and plain bearings, normal to high speeds, dusty and moist operating conditions. Contains chemically active EP additives.

A range of lubricants are available. Contact your Distributor for full details. GreaseMax contains 125cc of lubricant.



### GreaseMax

- Provides continuous lubrication at a constant rate, for a set period
- Works without maintenance or adjustment
- Has no electrics or mechanical items for complete reliability
- Can be quickly and simply changed over at the end of its operating period
- Can be used on moving and vibrating applications, long feed lines and underwater
- Is self regulating. The rate of discharge is not affected by bearing condition, seal condition or grease-way resistance

### GreaseMax Advantages

- Better mechanical reliability. Less down-time from bearing failure and therefore lower maintenance costs, better production rates and lower cost of production
- Direct cost savings with lower labour requirements
- Proven in-service performance
- Reliability - based on a proven design and many years of in-service use
- A safe product. GreaseMax has safety certification from the German TÜV organisation
- Safety - there is no temptation to hand grease moving equipment when GreaseMax is installed
- Economical unit cost
- Product support - long experience in this market

### Site Benefits

GreaseMax can generally be set up to allow change-overs without the requirement for plant operations or equipment items to be isolated and shut down. This is expected to provide benefits in 2 areas:

- production improvements and ROI benefits as production equipment remains on-line
- a reduction in personnel time for the required management process to isolate and re-activate process equipment

### Safety – site exposure

Use of automatic lubricators reduces human resource requirements. With fewer people needed there is a lessened site personnel risk exposure

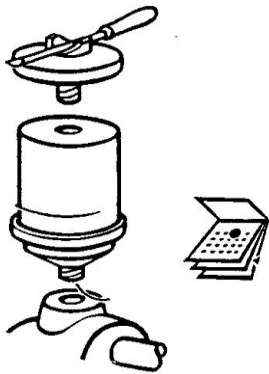
### Installation

GreaseMax is easily installed. Simply activate the GreaseMax unit by screwing in the activator cap and install the GreaseMax unit. Feed lines up to 2M can be used.

See GreaseMax Technical Notes at [www.dis.com.au](http://www.dis.com.au) for full details.



## INSTALLATION INSTRUCTIONS



1. Screw in the activator cap by hand  
(you will hear the seal break while doing this)  
**The activator cap must be tightened firmly**  
- use a screw driver or similar to do this
2. Record change over date
3. Pre-grease bearing before first installation
4. Install **GREASEMAX** hand tight into grease point

**DO NOT OPEN GREASEMAX**

**DO NOT REMOVE GREASEMAX until the change over date**

If **GREASEMAX** is to be installed with extension lines the maximum recommended length is 2 metres, 8mm ID tubing. Pre-fill all lines.

Allow 8-40 hours for operation to commence depending on **GREASEMAX** type

Dispose of used **GREASEMAX** in the industrial waste bin.

**COLOR CODES:** (Color of the activator screw in the base of **GREASEMAX**)

White	1 month unit (at 25 <sup>0</sup> C)
Blue	3 month unit
Red	6 month unit
Grey	12 month unit

⇒ **Note: color of starter cap must match color of activator in base of GREASEMAX**

**GREASEMAX** will operate for its normal life in an average environmental temperature of 25<sup>0</sup>C. Refer to brochure for information about using **GREASEMAX** at different temperatures.

Refer to **Technical Notes** or [www.greasemax.com.au](http://www.greasemax.com.au) for detailed information.

**WARNING:** GreaseMax uses a small quantity of potassium hydroxide UN1814 as part of its operation. If GreaseMax is opened or accidentally damaged and the liquid escapes onto the skin or eyes rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. Refer to MSDS.