

Solutions for innovative maintenance of electric motors

Industry specific information for electric motors



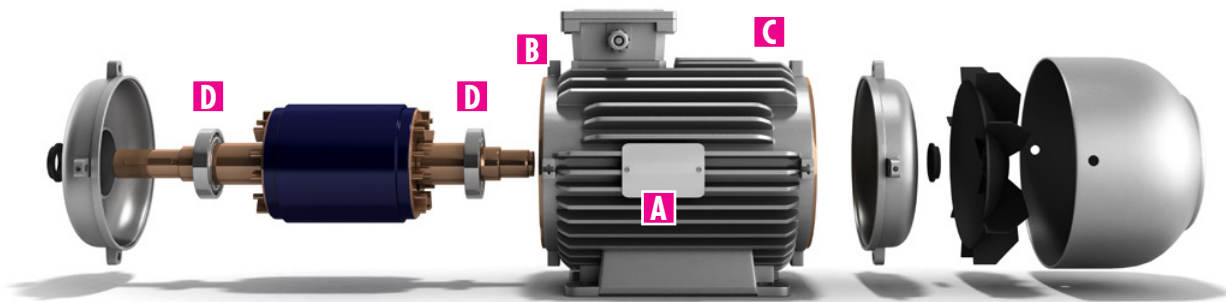
 SWISS MADE

simalube **simatool** **simatherm**

Maintenance of electric motors

Reduce costs and extend the service life of your motor

Using simalube lubricators significantly reduces maintenance costs of electric motors. Over 50% of electric motor failures are bearing related and the majority of those are due to improper lubrication or improper mounting. With the innovative simatool toolsets and simatherm induction heating devices, fast and safe mounting and dismounting of rolling bearings is also guaranteed.



A Electric motor reference tag

There are several factors that determine how often a bearing of an electric motor should be lubricated: hours of operation, RPM, bearing size, bearing type and the way the motor is mounted are just a few of them. For this reason, simatec has developed Calculation Pro for you, which helps you choose the right lubricator for your motor.



Calculation Pro
video

B C Non-drive end lubrication point and drive end lubrication point

The simalube automatic lubricator, available in five different sizes, supplies grease or oil to all types of lubrication points. simalube lubricators ensure a consistent supply of lubricant in the specified dosage. Downtimes are reduced and costs are significantly lowered compared to time-consuming manual lubrication. simalube lubricators can be attached to the lubrication point within seconds. The simalube is driven by a gas producing dry cell.



simalube
video

D Roller bearings and radial shaft seals dismounting with simatool

The Twin Puller TP 150 toolset enables the dismounting of deep groove ball bearings and radial shaft seals. A significant advantage is that the shaft does not have to be removed during the process.



Twin Puller TP 150
video

D Roller bearing mounting with simatool

The FT 33 mounting tool is used for the careful mounting of roller bearings and radial shaft seals.



Fitting Tool FT 33 &
VOLCANO IH 025

D Mounting roller bearings with simatherm

Inductive heating of rolling bearings and ring-shaped metal parts has proven to be a gentle and fast assembly method. An alternating magnetic field induces a high current in the workpiece in a targeted manner and brings it to the specified assembly temperature in an exact and controlled manner.



READY TO LIFT OFF TO THE WORLD OF MAINTENANCE



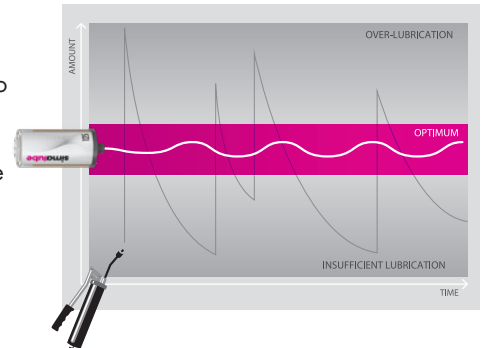
With the app «simatec world of maintenance», simatec ag has created a platform for easier and more efficient management of lubrication work. Calculation Pro helps to determine the following values for the automatic simalube lubricator:

- Size (15 to 250 ml)
- Time setting (1 to 12 months)



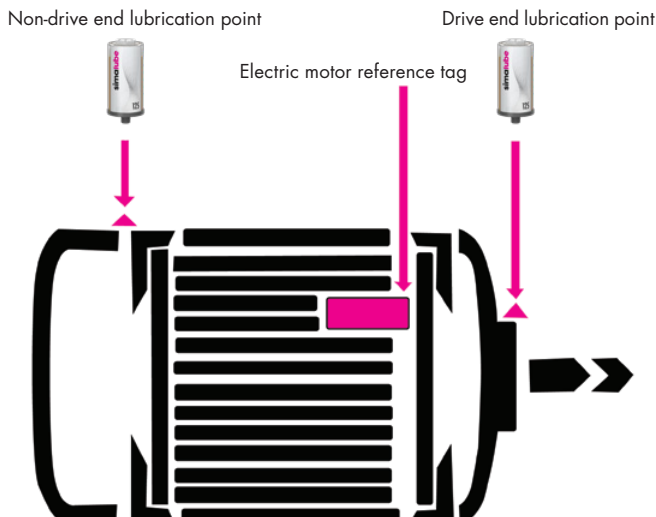
Common causes of errors

There are several drive problems that are not limited to one area of expertise - both mechanical and electrical errors can lead to failure. Around 50% of failures are due to defective bearings. 36% of bearing failures are due to insufficient lubrication or over lubrication. Analyses have shown that thanks to time savings, increased work safety and the longer service life of the bearings thanks to simalube, 30% of the costs can be saved.



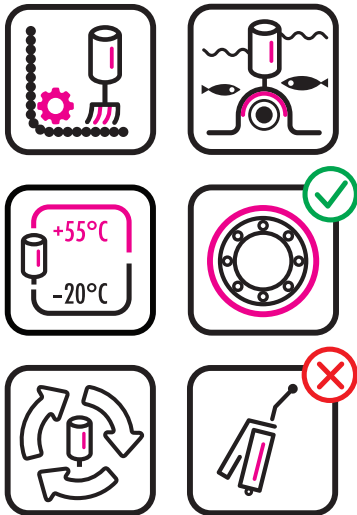
Electric motor reference tag

This label contains the information required for dimensioning the lubricator. Example: power, speed, grease quantity, bearing size.



«simalube lubricates continuously, **extends the service life of your electric motor** and **reduces maintenance costs**»

«simalube **replaces manual lubrication** with a grease gun completely»



Applications and advantages

Environments in which simalube can be used:

- Industrial fans and blowers
- Conveyors
- Turbines
- HVAC
- Pumps

Your benefits from automatic lubrication with simalube:

- Reduction of servicing and maintenance: no more lubrication by hand, this results in enormous time savings
- It is not necessary to switch off the machines while they are being serviced
- A longer service life of the systems thanks to continuous and precise lubrication
- Flexibility: The runtimes can be set over a continuously variable range of 1-12 months
- Only one type of lubricator is required per application. This makes it possible to reduce inventory costs
- Once installed, the lubrication points are reliably supplied with lubricant and cannot be forgotten
- Thanks to the transparent housing, the lubrication process can be monitored at all times (quantity control)
- Available in five sizes: 15, 30, 60, 125 and 250 ml
- Simple, ecologically friendly disposal (100% recyclable)
- The hermetically sealed system prevents the penetration of dirt (IP68)



For more information and applications, click on the simatec product images above. simatherm, simatool and simalube.