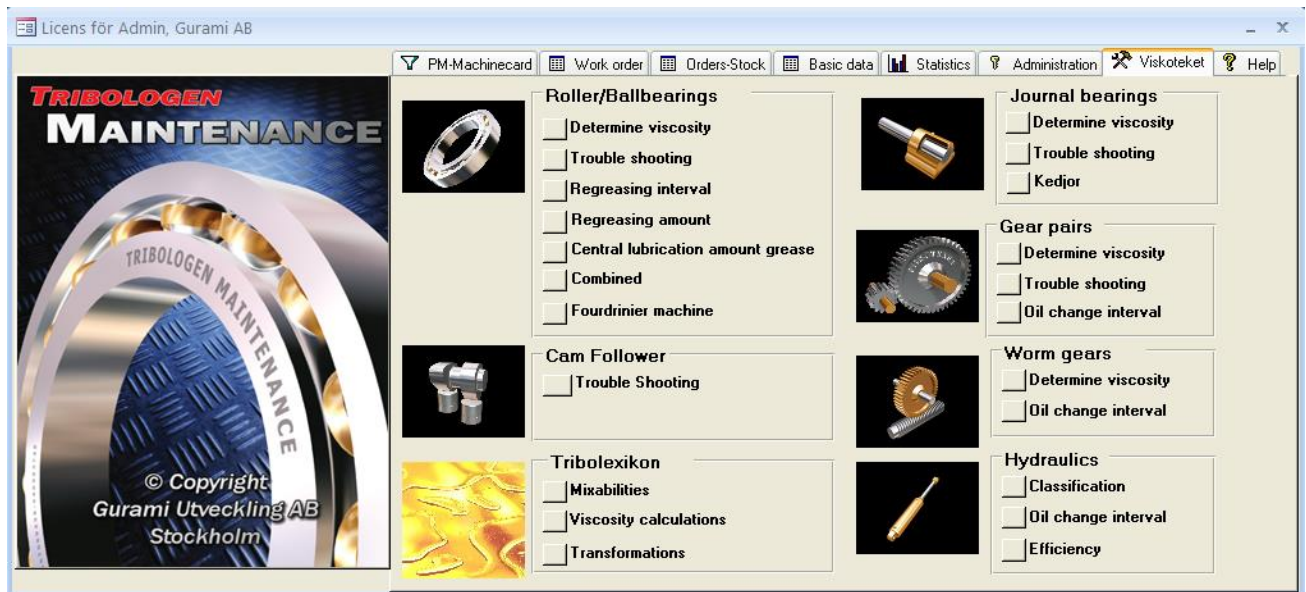


# VISKOTEKET DIMENSIONING

Viskoteket is a tool for selecting the right oil viscosity and grease, the correct amount of post lubrication, the optimal choice of intervals and the analysis of current lubrication. Calculations that previously took hours can now be made in a few minutes with Viskoteket Dimensioning.



## Dimensioning and Mathematics

To dimension the right lubricant can be compared with dimensioning the right material on machine axels, etc. With bad dimensioning the machine won't be able to carry the predicted load. In lubrication you have to dimension with the right viscosity, the right amount and the right intervals for the optimal life span and uptime.

To correctly evaluate a lubricant in use or to calculate which type of lubricant should be used has been a skill for the experts at oil companies, bearing manufacturers and technical universities. They often use very complicated mathematical calculations in their models.

Now you can use the same types of calculation models as the oil companies' engineers have been using for many years without having their mathematical expertise.

## Lubrication often is 60 to 70 percent

Lubrication often is the major quantity of maintenance points in a maintenance program. To set the intervals for thousands of lubrication points, to calculate the right amount of grease and to select the right base viscosity was almost impossible to do correctly in the past. Now you can quickly and easily get the correct answers to your questions - the weekly lists you print have all the information necessary for the correct execution of your lubrication maintenance system. This gives the machines a longer life span and better reliability in the long run.

## Often old recommendations are used

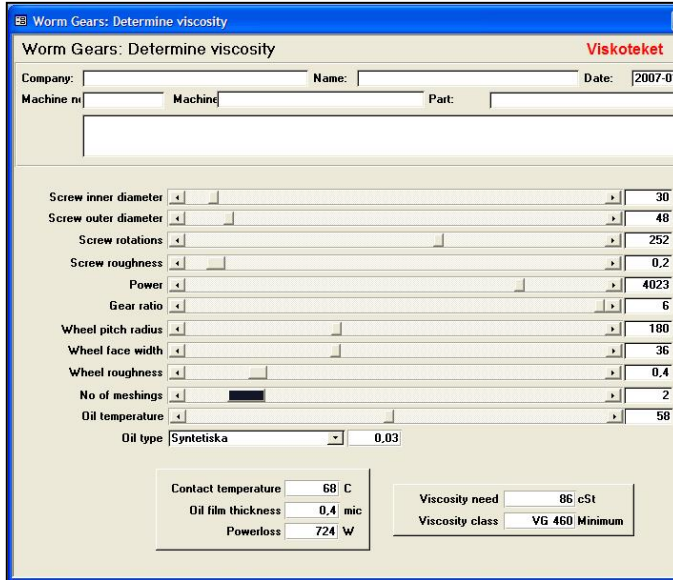
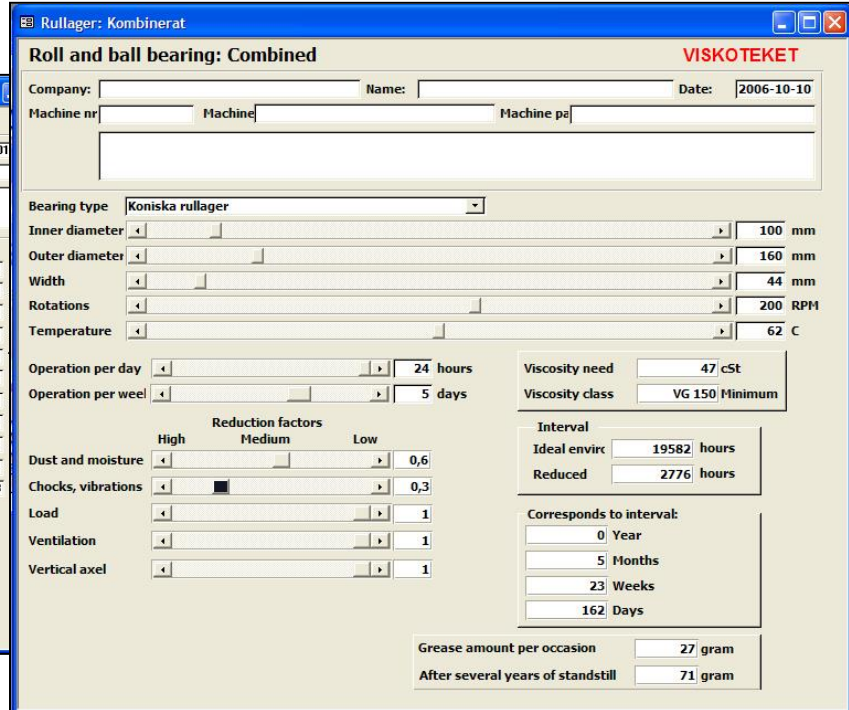
Decisions are all too often based on old lubrication recommendations from the machine manufacturer despite big changes in uptime and speed since the machine was installed some fifteen to twenty years ago. The environment may also be very different from what the machine manufacturer counted on in their basic recommendations. Since old recommendations are often used, incorrect base oil viscosity in greases and incorrect amounts are used. This may also, in some cases, lead to too long or too short intervals.

If the life span can be increased with 10 to 20 percent, a lot of time and money is saved (by using the right lubrication, the right amounts and the right intervals).

*VISKOTEKET Dimensioning - used today by several oil companys and manufacturers*

## You can gain by dimensioning correctly in the following cases:

- When building a maintenance and lubrication program
- At assortment cut backs with guaranteed delivery
- At increased levels of production, when machine manuals are no longer valid
- At uptime increases or decreases (i.e. introduction of more shifts)
- While evaluating a23 values on bearings (a23 SKF= life span)
- For crash and damage evaluations, and to prevent recurrences
- When determining safety margins for own constructions and guarantees
- At environmental quality controls
- When you want to know why a specific lubricant or interval is used

## Viskoteket Dimensioning includes:

### Roller/ballbearing

- Determine viscosity
- Trouble shooting
- Regreasing intervals
- Regreasing amount
- Central lubrication amount grease
- Combined (oil viscosity, amount and interval)
- Fourdrinier machine

### Cam Follower

- Trouble shooting

### Journal bearing

- Determine viscosity
- Trouble shooting
- Chains

### Gears pairs

- Choice of oil viscosity
- Trouble shooting
- Oil change interval

### Worm gears

- Determine viscosity
- Oil change interval

### Hydraulics

- Classification
- Oil change interval
- Efficiency

### Tribolexicon

- Mixabilities
- Viscosity calculations
- Transformations/translations



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