

## Automatical lubrication - ***WHY?***

- More operational readiness and reliability
- Less wear and tear
- Less costs
- Optimization of maintenance
- Better working safety
- Higher market value of the machine



## Operational Readiness

The moving parts of a construction machine need fresh lubricant periodically.



## Operational Readiness

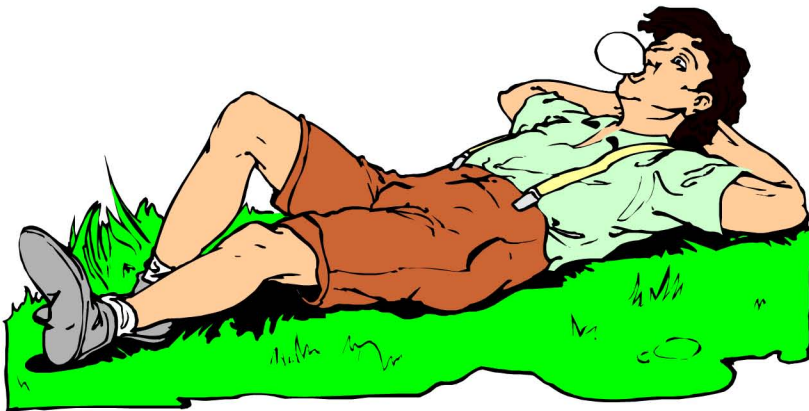
Without lubrication, expansive failures and repairs are the consequence!



## Operational Readiness

Beneath the repair costs, especially the breakdown times are very expensive.

**Only a working machine earns money!**



## Operational Readiness

With a reliable and periodical lubricant supply,  
these costs can be avoided easily!



## Operational Readiness

No breakdown times caused by  
time-intensive manual lubrication!



## Reduction of Wear and Tear

Manual lubrication means:

The bearing is filled with lubricant, till the grease pours out.



## Reduction of Wear and Tear

This grease package has to be sufficient until the next manual lubrication.





## Reduction of Wear and Tear

### **The problem is:**

The grease film directly at the friction point will soon be worn out.

**From this time on, wear and tear rise rapidly!**



## Reduction of Wear and Tear

A central lubrication renews the grease film permanently.  
With exactly metered, very small quantities of lubricant.



## Reduction of Wear and Tear

The automatic lubrication happens during the working of the machine.

This means: The lubricant will always be evenly distributed in the bearings.

The consequence is:

**Wear and costs are reduced drastically!**



## Optimization of Reliability

An automatic lubrication guarantees the periodical supply with lubricant.

This optimizes the reliability of a machine and protects the user from bad surprises!



## Optimization of Maintenance

A central lubrication makes maintenance much easier.

The time- and money-intensive manual lubrication will be cancelled!

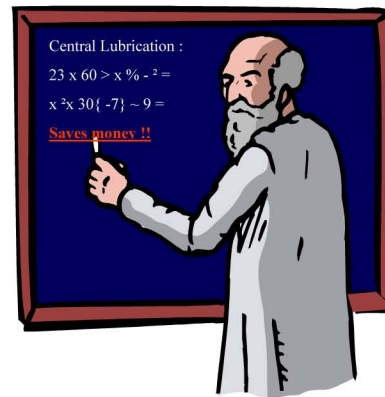


## Reduction of Costs

The use of a central lubrication reduces the operating costs of a construction machine in a considerable way:

### Example:

- Medium-size wheel loader
- 23 lub points
- approx. 1500 operating hours per year
- Period: 48 months



## Reduction of Costs

### Manual Lubrication

#### **Labour costs:**

Each 2. day = 120 x per year

Duration approx. 1/2 hour

60 hours per year

Labour costs 30,- per hour

1.800,- per year

#### **Lubricant costs:**

10cm<sup>3</sup> grease/lub point x 23 x 120 days

27,6 kg per year

27,6 kg grease (2,50 per kg)

69,- per year

Flat rate for repair/breakdown costs

because of insufficient lubrication

500,- per year

#### **Total costs:**

**2369,- per year**

**Note:** Above report is based on AVERAGE COST in EU (€) Currency

## Reduction of Costs

### Automatical Central Lubrication

|  |                          |
|--|--------------------------|
| Average price for a system<br>with 23 lub points<br>distributed on 48 months | 2500,<br>624,99 per year |
| Filling of the container<br>13 x per year, approx. 30 min                    | 195,- per year           |
| Lubricant costs:<br>32,5 kg grease   | 81,25- per year          |
| <b>Total costs</b>   | <b>901,25 per year</b>   |

**Note:** Above report is based on AVERAGE COST in EU (€) Currency



## Reduction of Costs

### Direct compare of the costs:

Manual lubrication

2.369,- per year

Central lubrication

901,24 per year

# Saving:



**1.467,76 per year!**

**Note:** Above report is based on AVERAGE COST in EU (€) Currency

## Working Safety

According to studies of the Professional Association, maintenance works with construction machines are the second most reason for work accidents.

Especially the lubricating service at bigger construction machines is dangerous, because of the height and accessibility of the lub points.



## Market Value of the Machine

It is no secret – a well-kept used car brings a better price than a run-down one.

Like a construction machine: A machine, which is in general good condition, brings more money than bad one.

A central lubrication helps you to stabilize the market value of your machine.



## A Central Lubrication...

- Pays off quickly



- Makes maintenance easier

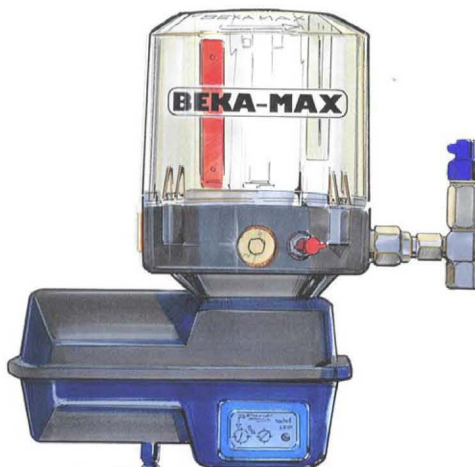


- Reduces costs



- Gives you security





**BEKA-MAX<sup>®</sup>** Central Lubrication  
Technology, you can rely on!