

perma Lubrication Systems for

## Gypsum, Lime, Cement Plants

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**The Expert in Lubrication Solutions**

**perma**

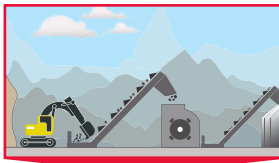
There are hundreds of rotating machine parts in gypsum, lime and cement plants. All of this equipment must function reliably under the most difficult operating conditions. 80% of the equipment fails due to mechanical wear caused by dust and dirt. perma Automatic lubrication systems ensure optimum lubrication and sealing to prevent the ingress of dirt.

## Lubrication points

❶ Roller bearings

❷ Sliding bearings / Sliding guides

❸ Chains



### Raw material processing

→ **Crushing**

Crusher

✓

✓

→ **Transport**

Conveyor systems

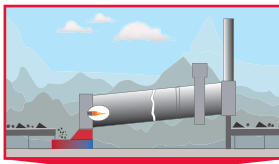
✓

→ **Drying and grinding**

Raw mill

✓

✓



### Processing to final product

→ **Heating**

Rotary kiln

✓

→ **Fine grinding**

Cement mill, fine screen

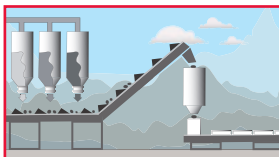
✓

✓

→ **Cleaning**

Dust removal equipment

✓



### Storage and packing

→ **Storage**

Conveyor systems

✓

✓

→ **Packing**

Palletizer

✓

## Challenges



- Dust, dirt, vibration
- High energy costs



- High maintenance costs, staff shortage, spread out equipment and lubrication points



- Hard-to-reach lubrication points
- High temperatures
- Safety hazards



## Advantages of automatic lubrication

- ✓ **Continuous relubrication** at short intervals **reduces wear** and **seals** lubrication points **to prevent contamination from dust and dirt**.
- ✓ **Scheduled exchanges** of lubrication systems while machines are running **reduces staff and material costs** and increases economic efficiency.
- ✓ Automatic lubrication away from dangerous areas **increases workplace safety**.
- ✓ Individual lubrication **reduces energy costs by up to 10%**.

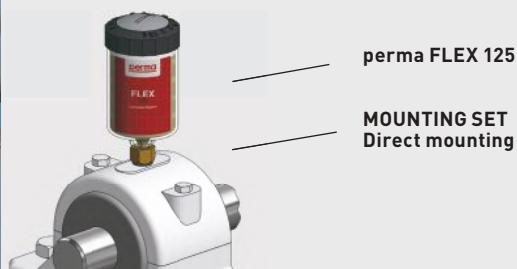
### Reference



## Solutions

### Direct mounting on lubrication point: e.g. perma FLEX

- Easy, quick mounting
- For lube-points with little vibration / shocks
- For easy-to-access and safe lubrication points

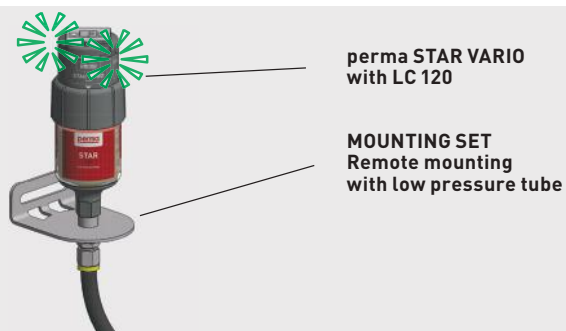


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### Remote mounting to lubrication point: e.g. perma STAR VARIO

- For lube-points with strong vibration / shocks (isolation of lubrication system)
- When workers' safety is at risk: Mounting in safe areas
- For hard-to-access lubrication points



Art. No. 101482



### Would you like more information on perma products?

- Detailed product information in our **perma Catalogue**
- Visit our website **[www.perma-tec.com](http://www.perma-tec.com)**

## Applications



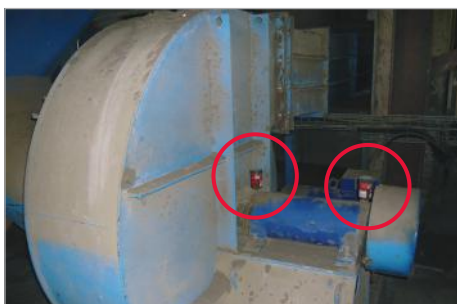
Lubrication of motor on a vibrating screen



Lubrication of pillow block bearing on a fan shaft



Lubrication of pillow block bearing on a rotary dryer



Lubrication of bearing unit on a fan



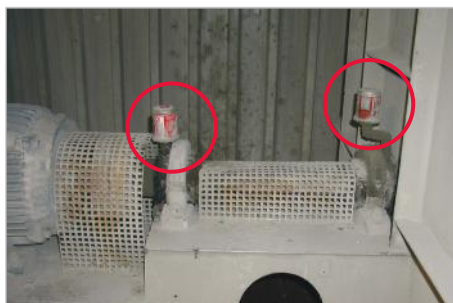
Lubrication of track roller



Lubrication on mixer shaft



Lubrication of shaft bearing on a conveyor belt drum



Lubrication of drive shaft on a blower



Lubrication of roller bearing on a mixer

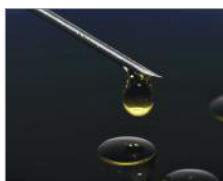
## Individual solutions

### perma Product portfolio



Solutions for all types of applications

### perma Lubricants



Large selection of high quality lubricants to meet the requirements of your equipment

### perma Accessories



Extensive range of accessories and connecting parts for your equipment

### perma SERVICE



Project planning, installation and maintenance

### perma SOFTWARE



Calculation of lubricant amount: • **perma SELECT**  
Maintenance Lubrication Program: • **perma MLP**