perma lubrication systems for
Pumps

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The Expert in Lubrication Solutions
Pumps are the core of many industrial applications. A failing pump can often interrupt the entire work or production process. All sorts of pumps are used in many fields and applications. Appropriate lubrication safeguarding the work and production process of the pump is a decisive factor of smooth operation.

Lubrication points (roller bearings) are located on the drive shaft between drive motor and pump body or in the pump housing.

Lubrication of packing gland and labyrinth seals prevents the ingress of dirt and/or pumped media. Bearings and bearing housing seals must be permanently supplied with the specified amount of the right lubricant.

Challenges

Pumps are often operated under extreme conditions, subjecting individual components to special wear. These can include heavy contamination from slurry or dust, as well as hazardous materials such as bases and weak acids.

Dirt, water or other contaminants must not enter the bearing points.

Lubrication points can often only be accessed using extreme protective measures (safety gloves and mask). This frequently leads to neglect of or non-compliance with the prescribed lubrication.

Lubrication starvation results in wear, which leads to failure of equipment components or pump leakages.

Optimal and regular lubrication with fresh lubricant during equipment operation.

Operation in potentially explosive areas.

Workplace safety must be ensured.
Advantages of automatic lubrication

- **Increased workplace safety** due to automatic lubrication of hard-to-reach lubrication points
- Precise lubricant discharge **lowers** lubricant consumption and thereby **environmental impact**
- **Fewer maintenance runs** minimise the time workers spend in dangerous areas
- Depending on the selected lubrication system, use may be possible **underground** or in **potentially explosive areas**

Solutions

**Direct mounting on the lubrication point:** e.g. with perma CLASSIC / FUTURA / FLEX / NOVA

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

**Remote mounting at lubrication point:** e.g. with perma STAR VARIO

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

Industry: Mining
Industry: Mining
Industry: Pulp and Paper

Industry: Power generation
Industry: Pulp and Paper
Industry: Quarrying

Industry: Wastewater
Industry: Mining
Industry: Mining

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