perma lubrication systems for
Blowers & fans

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Blowers and fans are used in almost all key industries. They provide adequate amounts of primary and secondary air. Flue gas fans remove air containing dust, gases and harmful substances. In primary air zones, induced draft fans are used such as in scrubbers, dust collectors, heat exchangers and desulfurisation plants.

The lubrication points [roller bearings] are located at the **drive shaft** between drive motor and fan impeller.

**Bearing and sealing of fan drive shaft** is normally done by means of a pillow block housing or a bearing unit. These must be permanently supplied with the specified amount of the right lubricant.

Fans and blowers are normally operated under **exceptional conditions**. **Contaminants** such as dust or pumped media are dispersed by operation of the ventilator. These can enter the bearing system, which leads to increased wear of individual components and a shorter service life.

- **Contaminants** [e.g. **dust**] raised in the air must not enter the lubrication points

Regular lubrication of bearings and seals is imperative. Lubrication points are often extremely dirty and hard to reach, which makes maintenance even more difficult. Specified lubrication intervals are neglected or not observed for this reason. The resulting **lubrication starvation** leads to increased wear and in extreme cases to failure of the blowers and fans.

- **Excessive overheating of bearing points** due to lubrication starvation
- **Lubricants** must cope with the **demands** made of it, e.g. in terms of vibrations or high speeds
- **Observation of relubrication intervals** depending on bearing type, bearing size and ambient conditions
Advantages of automatic lubrication

- perma lubrication systems seal lubrication points and protect against contamination
- Precise metering of lubricant amount reduces lubricant consumption
- Safe and reliable lubrication, also in areas with potentially explosive atmospheres
- Different lubricant volumes for exact adjustment to lubrication point

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: Waste incineration plant
- Industry: Quarrying
- Industry: Power plant
- Industry: Chemical processing
- Industry: Coating plant
- Industry: Quarrying

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