

CHEMICAL & PHARMACEUTICAL

perma lubrication systems in operation



Challenges

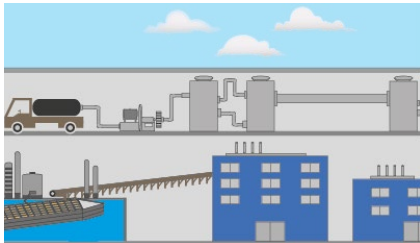
Almost no other industry features such a concentration of machines and automation. Maintenance is therefore one of the major controllable cost factors in both industries. perma automatic lubrication systems are reliable partners when it comes to correct lubrication of equipment and machine elements. They increase equipment and machine element availability significantly, thus having a sustainable positive effect on the net operating profit.

- Hard-to-reach and dangerous lubrication points
- Extreme operating conditions (temperature fluctuations)
- Stringent standards for hygiene and cleanliness, extending to cleanroom conditions, or production areas with limited accessibility
- High occupational safety requirements
- Precision and accuracy
- Lubricant compatibility with pharmaceuticals and chemicals



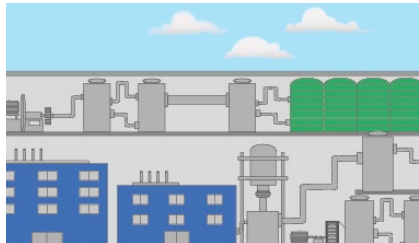
Lubrication points

1 | DELIVERY & DRYING



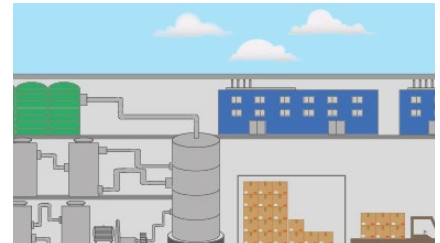
- **Transporting**
Conveyors & screw conveyors
- **Pumping**
Process pumps & electric motors
- **Unloading**
Blowers & fans, electric motors

2 | FINAL PROCESSING



- **Drying**
Hot-air blowers & electric motors
- **Heating, mixing**
Batch mixers & process pumps
- **Cooling, transporting**
Blowers & fans, feed pumps

3 | PACKING, LOADING & DISPATCH



- **Packing**
Conveyors & palletisers
- **Loading**
Screw conveyors & pumps
- **Transporting**
Chain conveyors



Bearing lubrication for electric motors



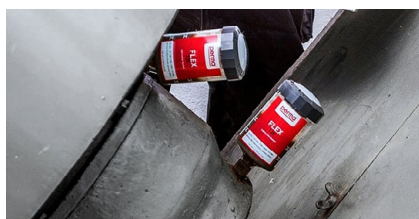
Bearing lubrication on a pump



Bearing lubrication on Blowers & fans



Bearing lubrication for electric motors



Bearing lubrication on a pump



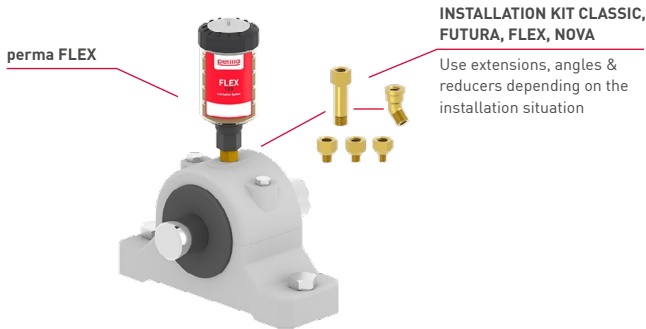
Bearing lubrication on Blowers & fans

Solutions

The selection of the ideal lubrication solution requires the consideration of various factors, including the specific type of application, operating speed and load of the machine, and the ambient temperature. Below are some proposed solutions:

Direct mounting | e.g. with perma FLEX

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



Remote mounting | 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



perma SERVICES

You have questions about our products or need assistance with the survey, system installation and maintenance of your equipment? Your perma contact has answers and is happy to assist!

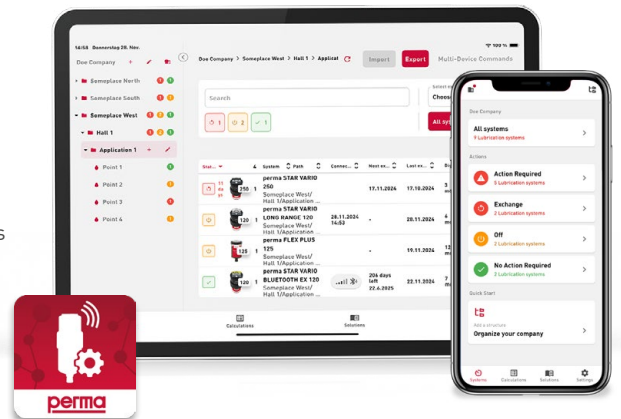


Visit the perma website for an overview of our offerings.



EASY. SMART. CONNECTED.

- Maximum efficiency through centralized control of your maintenance
- Comprehensive overview of all lubrication points
- Convenient remote control and configuration of your lubrication systems
- Precise calculation of relubrication amounts and discharge periods
- Notifications allow for prompt responses



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To quickly get started with perma CONNECT, a range of step-by-step tutorial video is available.

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