

perma Lubrication Systems for

Quarrying Industry

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The Expert in Lubrication Solutions

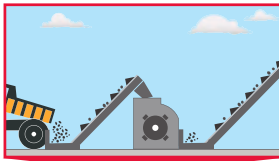
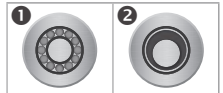
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perma Lubrication Systems for Quarrying Industry

The quarrying industry puts men and machines under enormous strain. Spread out equipment, insufficient staff, rough operating conditions and cost pressure continuously challenge quarrying operators and employees. Automatic lubrication with perma lubrication systems can tremendously increase equipment availability and safety.

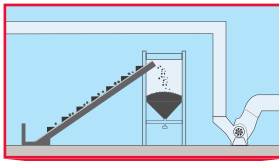
Lubrication points

❶ Roller bearings ❷ Sliding bearings / Sliding guides



Raw material processing

→ Crushing	Jaw-, cone-, roll crushers	✓	✓
→ Transport	Conveyor systems	✓	



Endproduct processing

→ Screening	Grit and sand screens	✓	
→ Sorting and cleaning	Conveyor systems	✓	
→ Dust removal	Dedusting equipment, fans	✓	
→ Transport	Conveyor systems	✓	



Storage and packing

→ Packing	Conveyor systems	✓	
→ Filling	Silo discharge	✓	

Challenges



→ Hard-to-reach and dangerous lubrication points



→ Extreme operating conditions (sludge, dust, dirt, temperature changes and vibrations)



→ High personnel costs from spread out and complex equipment

Advantages of automatic lubrication

- ✓ Remote installations of lubrication systems **reduce the time that workers have to spend in dangerous areas.**
- ✓ Continuous relubrication at short intervals **reduces wear** and **seals lubrication points against contamination.**
- ✓ **Scheduled exchanges** on running equipment **reduce personnel- and material costs** and increase economic efficiency.

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

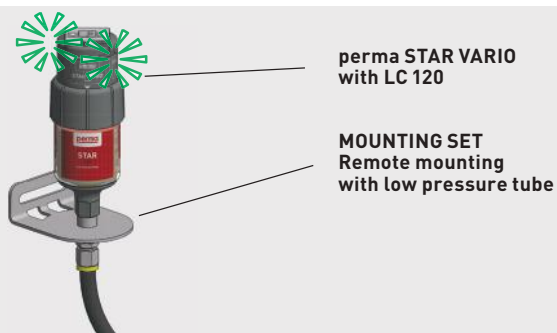
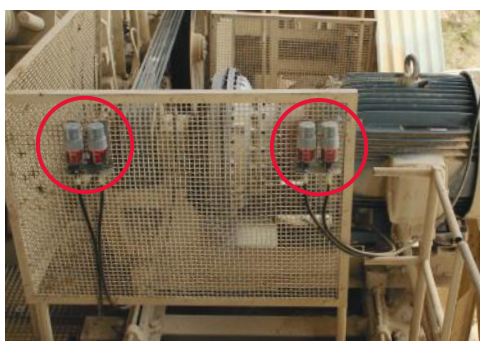


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Remote mounting to lubrication point: e.g. perma STAR VARIO

- 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**

Applications



Lubrication of pillow block on a pressure pulley



Lubrication of pillow block on a drive pulley



Lubrication of pillow block on a tail pulley



Lubrication of pillow block on a conveyor



Lubrication of pillow block on a belt weigher



Lubrication of pillow block on a conveyor



Remote lubrication of an electric motor



Lubrication of pillow block on a conveyor



Lubrication of pillow block on a tail pulley

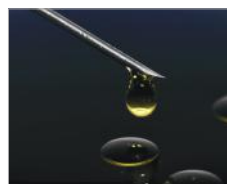
Individual solutions

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



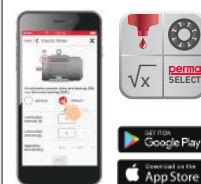
Extensive range of accessories and connecting parts for your equipment

perma SERVICE



Project planning, installation and maintenance

perma SOFTWARE



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