

The Expert in Lubrication Solutions





Recycling companies are faced with many challenges today: Huge price fluctuations, changing market demands and short contract periods with buyers of recycling products. In order to still operate profitably, it is important to rule out equipment failures which can cause unscheduled downtimes. This makes equipment maintenance and lubrication even more important.

Lubrication points

• Roller bearings

Sliding bearings / Sliding guides



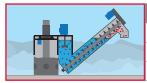




Preparation			
→ Milling	Hammer / impact mills	✓	✓
ightarrow Grinding	Granulators	✓	



Processing				
→ Screening	Vibrating screen	✓		
→ Screening	Air separator	✓		
ightarrow Dust extracting	Electric motors	✓		



Final processing				
→ Cleaning	Washers	✓		
→ Drying	Fans	✓		
\rightarrow Transport	Conveyors	✓		

Challenges



→ Harsh ambient conditions (dust, dirt and vibrations)



→ Hard-to-reach and dangerous lubrication points



→ Lack of staff and spread out, complex shredder-, separator and- conveyor systems

Advantages of automatic lubrication



Permanent lubrication over several months while machines are running.



Individual lubrication which meets the specific operational needs of each equipment (lubricant, lubricant amount, lubrication interval).



Simple installation and exchange of lubrication systems outside of dangerous areas **increases workplace safety**.



Solutions

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

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





Direct Mounting SolutionUse extensions, angles & reducers depending on the installation situation

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

- ightarrow 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





perma STAR VARIO with LC 120

Remote Mounting Solution Use extensions, angles & reducers depending on the installation situation

Would you like more information on perma products?

- → Detailed product information in our **perma catalog**
- ightarrow Visit our website ${f www.permausa.com}$

Applications



Lubrication of pillow block bearing on a conveyor



Lubrication of drive shaft on a pump



Lubrication of pillow block bearing on a conveyor



Lubrication of flange bearing on a conveyor



Lubrication of pillow block bearing on a conveyor



Lubrication of flange bearing on a conveyor



Lubrication of pump motor



Lubrication of flange bearing on a conveyor



Lubrication of flange bearing

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