ESCALATORS & MOVING WALKWAYS

perma lubrication systems in operation

The Expert in Lubrication Solutions

perma

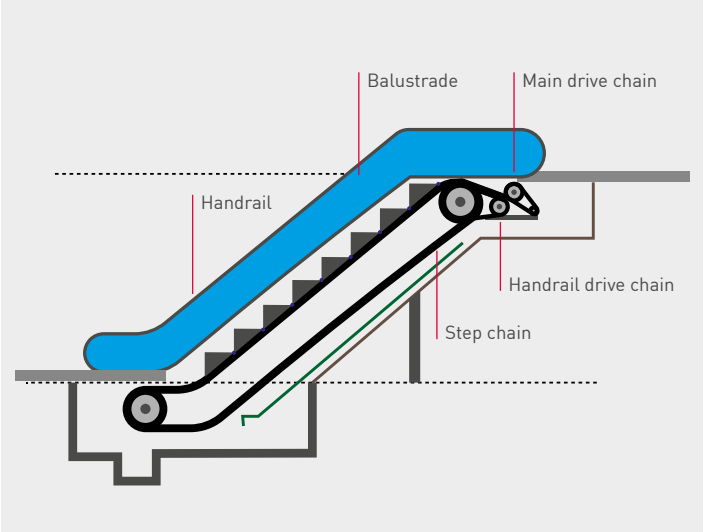
Challenges

The oil-lubrication system perma ECOSY is a preventive maintenance method for escalators and moving walkways. It connects to the escalator control and provides exact and individual chain lubrication. The result is maximum escalator and walkway availability and prevention of unnecessary downtime.

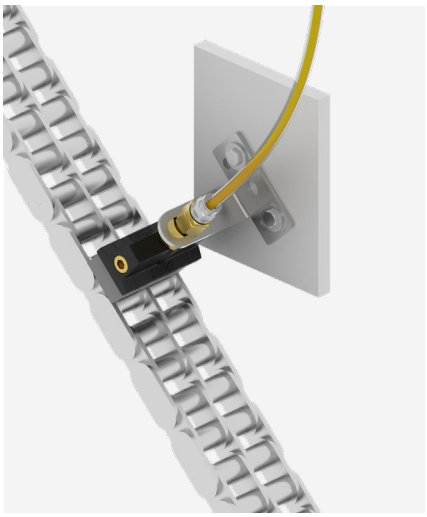
- → Over-lubrication of chains can lead to oil leaking onto the steps and end platforms
- → Insufficient lubrication can be the cause of disturbing noises, unsteady operation of the entire escalator system and premature wear, which in turn leads to increased energy consumption
- → Access for equipment lubrication or cleaning is not always possible and | or desired

Lubrication points

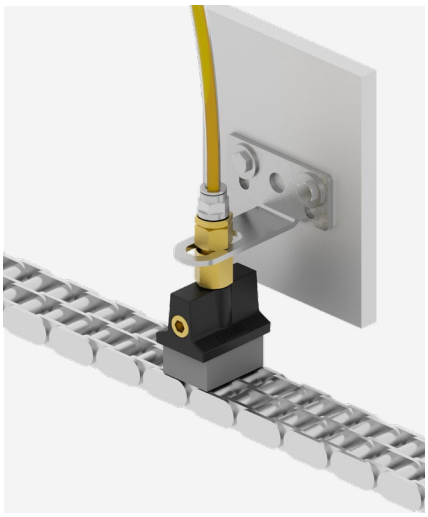
ESCALATORS & MOVING WALKWAYS



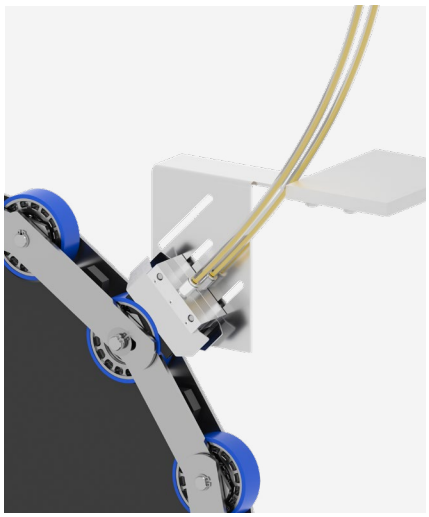
- → **Step chains**
  Lubrication of step chains is very important. Insufficient lubrication leads to increased wear which in turn leads to premature exchange of parts with high replacement part and maintenance costs and long downtimes.
- → **Main drive chain**
  The main drive chain drives the step chains and handrail drive chain and ensures smooth escalator operation. It is very important to continuously lubricate the main drive chain to minimise wear.
- → **Handrail drive chain**
  Lubrication starvation on handrail drive chains leads to premature wear. Accessing the manual lubrication points is often very time-consuming, requiring several steps to be removed.



Lubrication of the drive chain



Lubrication of the handrail drive chain



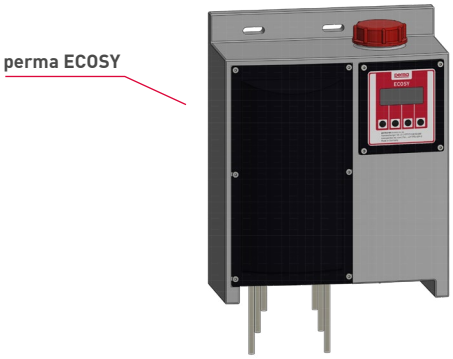
Lubrication of the step chain

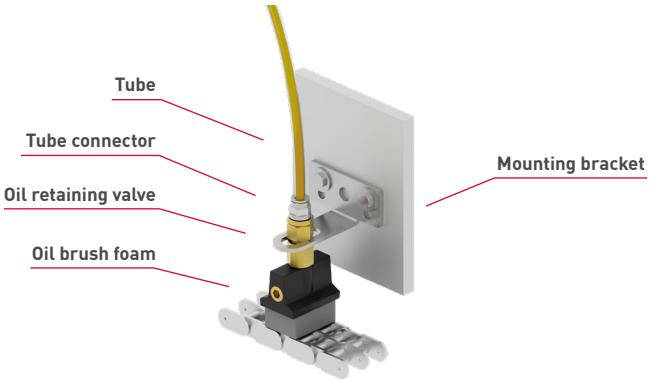
Solutions

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 is one proposed solution:

Remote mounting | e.g. with perma ECOSY

- → Easy, quick mounting
- → Long servicing intervals
- → Feedback and monitoring via escalator control (controller)





perma SERVICES

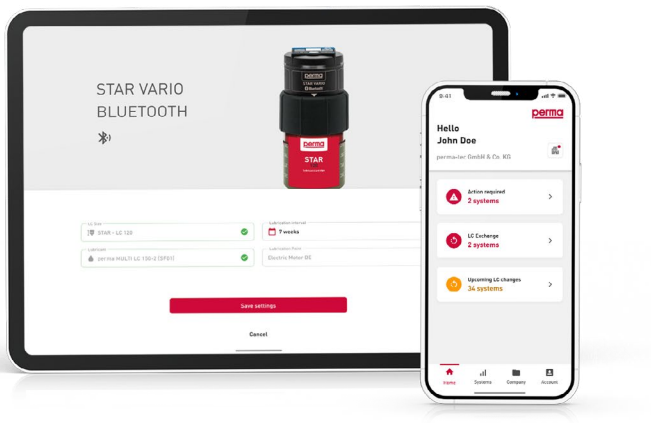
You have questions about our products or need assistance with the survey, system installation and maintenance of your equipment? The perma Services team has answers and is happy to assist!

Visit the perma website for an overview of our offerings.

EASY. SMART. CONNECTED.

Create your own network

- → Current overview of all lubrication points
- → Coordination of upcoming maintenance work
- → Reminders for pending exchanges
- → Central management of lubrication points in the web application
- → Recording of all on site maintenance and exchange tasks via the app



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