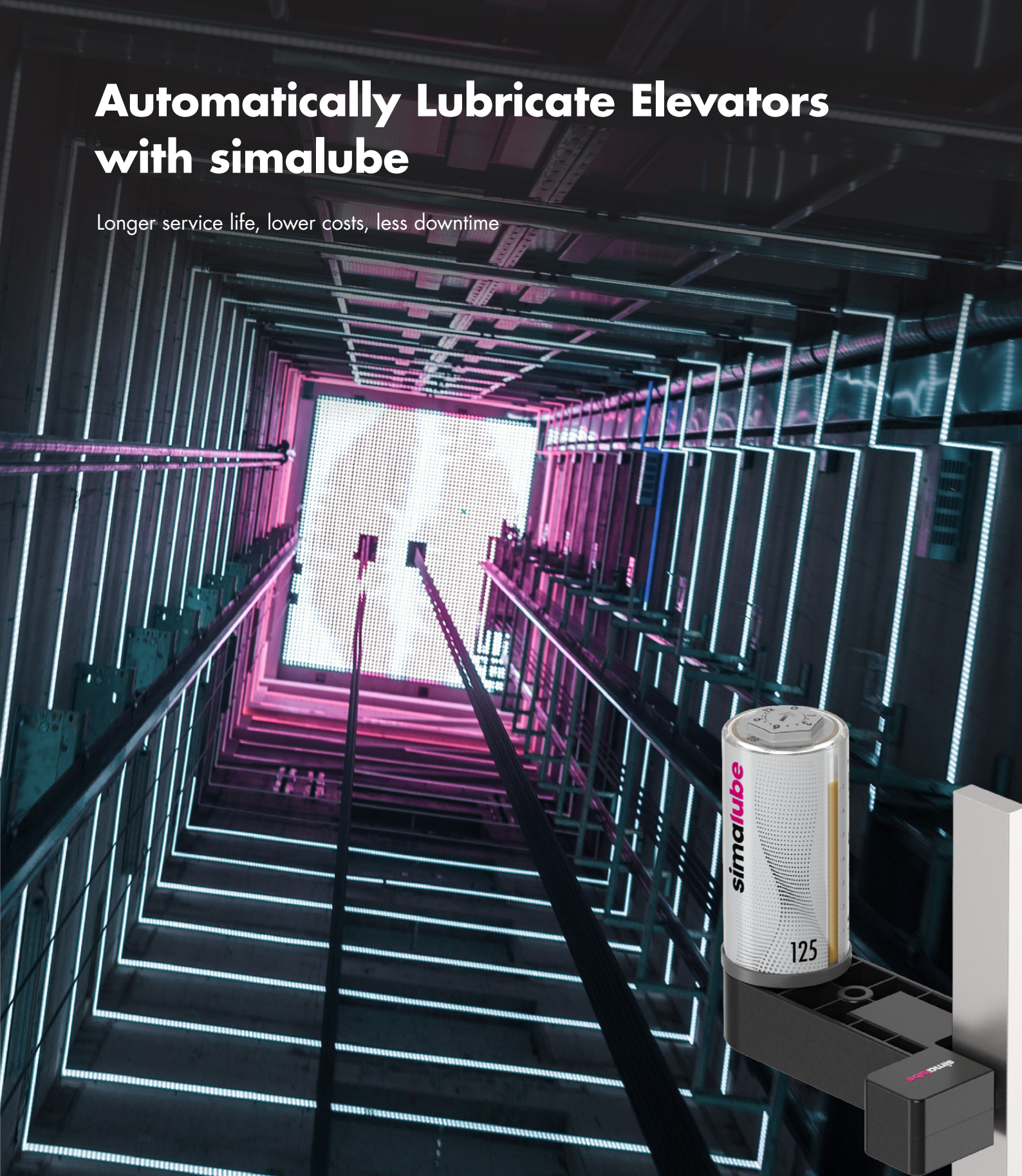


Automatically Lubricate Elevators with simalube

Longer service life, lower costs, less downtime



simalube

 SWISS MADE



Nicola Imbimbo

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Specialist at prysmian.com, Creator of @nictheelevatorguy

«Continuous lubrication of elevator ropes delivers significant long-term savings: less wear, fewer rope replacements, lower maintenance effort, and more efficient use of time, lubricant, and resources make the investment economically compelling.»



Draka EHC is Prysmian's global Elevator & Escalator business unit, bringing together 80 years of vertical transportation expertise. The brand delivers integrated solutions and specialized components for elevators, escalators, and moving walks.



Its diverse portfolio spans high-performance traveling cables, suspension systems, and escalator handrails. Operating worldwide, Draka EHC supports both OEMs and independent contractors through new construction components, modernization kits, and technical field services.

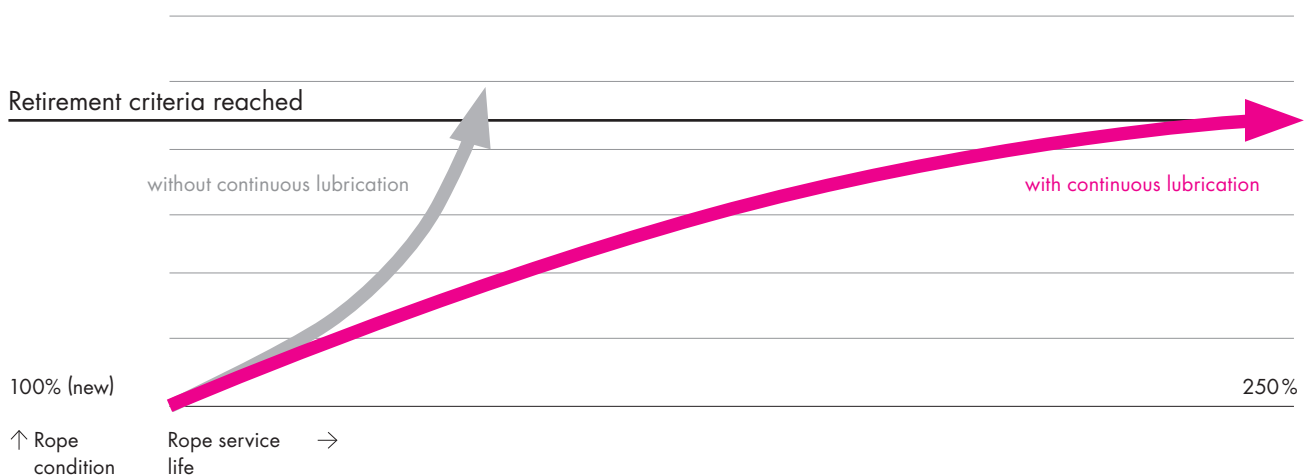
Benefits of Automatic Rope Lubrication

- ✓ **Rope wear remains predictable in the long term**
- ✓ **Reduced elevator downtime for maintenance work**
- ✓ **Safe, low-contact application of rope lubricant by maintenance personnel**
- ✓ **Cleaner application compared to manual lubrication using rollers or brushes**
- ✓ **Predictable and consistent lubrication**
- ✓ **Reduced maintenance effort**

NEW STUDY Consistent rope lubrication combined with the appropriate lubricant can extend the service life of elevator suspension ropes by two to three times.

The Institute of Materials Handling and Logistics (IFT) at the University of Stuttgart confirms that regular rope lubrication significantly extends the service life of elevator suspension ropes. This is particularly important in installations with more than approximately 10 landings, where frequent air movement within the hoistway causes ropes to dry out more quickly.

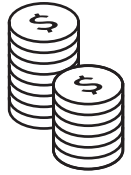
Continuous rope lubrication improves operational safety, reduces wear, and lowers life-cycle costs.



Source: Based on information from the University of Stuttgart and technical input from Nicola Imbimbo.

Elevator Lubrication – keeping costs under control

Example: elevator with 10 landings



Rope costs
EUR 250.–



Labor costs
2 Persons
× 10h = 20h



Cost per rope
replacement
EUR 2,250.–

Rope replacement costs over the life cycle (30 years)

Unlubricated rope

(Typically 5 rope replacements at EUR 2,250 each)

EUR 11,250.–

With continuous rope lubrication

(Only 2 rope replacements)

EUR 4,500.–

✓ Cost savings: **EUR 6,750.–**

Comparison of annual lubrication costs

Manual lubrication

(Application of rope treatment using
a brush or roller)

2 service visits per year
2 technicians
2 hours of labor per lubrication

EUR 800.–

Automatic lubrication

(One-time installation – approximately
20 minutes)

15 minutes per dispenser replacement
2 service visits per year
4 lubricators (45.–)/4 brushes (30.–)

EUR 350.–

✓ Annual cost savings: **EUR 450.–**

Illustrative example based on statistical service-life assumptions for a low-rise, low-speed elevator operating under moderate traffic conditions.
Actual rope life depends on usage, installation characteristics, maintenance practices and operating environment.

Why Elevator Ropes are Lubricated:



Corrosion



Wear and
abrasion



Broken wires

The damage mechanisms listed above can be prevented or significantly reduced through proper rope lubrication using simalube automatic lubricators.

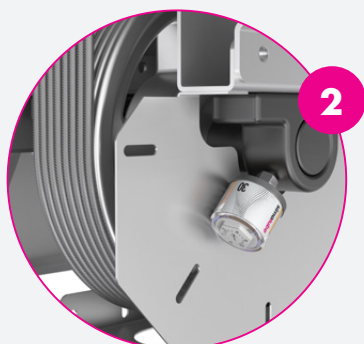


Continue to
detailed view.



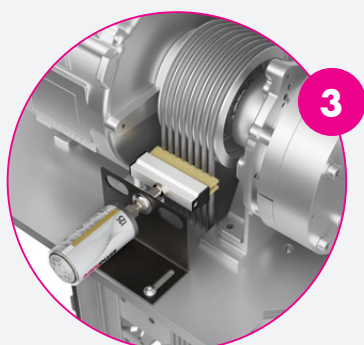
Guide rail

The simalube lubrication system provides optimal lubrication and conditioning of the guide rail. It protects the rail with a uniform oil film while simultaneously cleaning the surface. The simalube elevator brush is mounted directly on the car top or guide shoe.



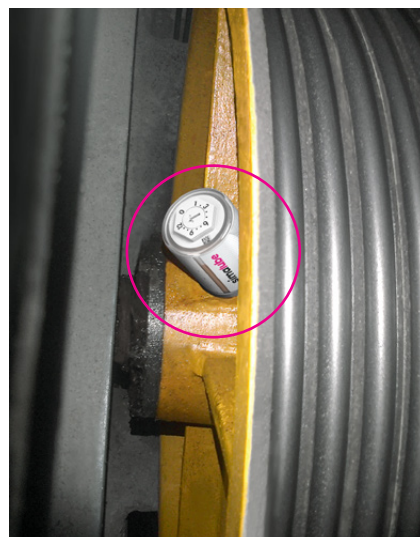
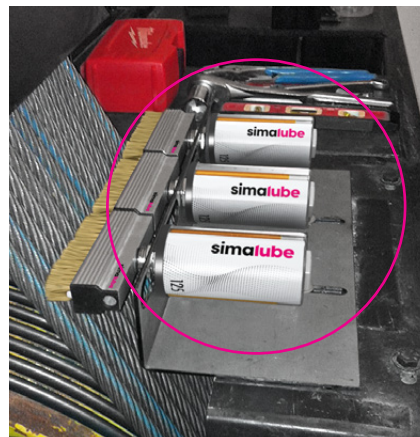
Deflector sheave

The simalube lubricator is used for bearing lubrication of the deflector sheave. Depending on the design, the lubricator is mounted directly on the sheave or on the bearing housing.



Suspension ropes

Elevator suspension ropes are continuously lubricated using simalube automatic lubricators. The rope treatment lubricant is applied evenly to the rope through a flat brush.



We would be pleased to provide you with further information on the use of simalube products for elevator lubrication.

Our highly qualified specialists possess extensive technical expertise and can demonstrate how automatic lubrication helps reduce costs while significantly extending the service life of elevator components.

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