

ARIBELT CASE STUDY

How SkyLift Modernized a Residential Elevator with ARIBELT and Gearless Technology



Project Overview

SkyLift, a leading elevator maintenance provider in the Netherlands, sought a modernization solution that would enhance ride comfort, reduce maintenance requirements, and improve energy efficiency for a residential elevator system. To achieve this, SkyLift partnered with Aritec New Materials Group AG and Alberto Sassi S.p.A. to install the ARIBELT elevator belt system alongside the Sassi G-180BS gearless machine.

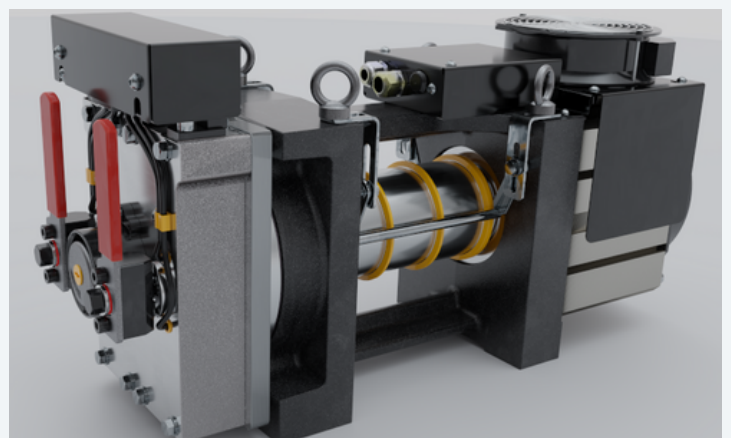
Challenges

- Provide a smoother, quieter ride experience for residents
- Fit within a limited shaft space without requiring extensive modifications
- Reduce installation time and long-term maintenance efforts
- Improve sustainability through energy efficiency and minimal resource use

Solution

The ARIBELT elevator belt system was selected for its ability to meet these modernization challenges. Unlike traditional steel-reinforced ropes, ARIBELT offers:

- Reduced stiffness, ensuring smoother acceleration and deceleration
- A lightweight, lubricant-free design, making installation cleaner and easier
- Fewer belts required, simplifying installation and reducing long-term maintenance
- Compatibility with small traction diameters, enabling seamless integration into existing systems



Implementation

SkyLift's team, led by Project Manager Sander Snijder, installed the system in just half a day, a significant reduction compared to traditional elevator rope replacements. "Not having to deal with lubrication made the installation much cleaner and faster," said Snijder. "It was great to work with clean hands throughout the process."



Results & Benefits

Following the installation, residents immediately noticed a smoother, more comfortable ride, typically associated with premium elevator systems. "They barely even feel when they arrive at their floor," noted Jessica Gamper, responsible for Aritec's elevator business segment.



GIOVANNI BADALATI

Product Manager, Modernization at SkyLift

"ARIBELT is an innovative product that improves sustainability thanks to its lightweight design and reduced energy consumption during operations," added Giovanni Badalati, Product Manager, Modernization at SkyLift.

Long-Term Benefits

- Reduced energy consumption, thanks to the lightweight belt and optimized traction system
- Lower maintenance costs, with no need for lubrication or frequent belt replacements
- Space optimization, as the ARIBELT allows for a true machine-room-less setup

Conclusion

The SkyLift modernization project demonstrates the immense potential of combining gearless machines with advanced synthetic belt technology. As more buildings seek sustainable, space-saving, and energy-efficient elevator solutions, the integration of gearless systems with synthetic belts like ARIBELT is set to shape the future of vertical transportation.