

The heart of your building™



LIFECYCLE MANAGEMENT FOR ELEVATORS AND ESCALATORS

KONE Care for Life™



The value of a new beginning

The purpose of KONE modernization solutions is quite simple: to increase the value of your building by keeping the elevators and escalators running safely and reliably for the lifetime of your building.

KONE is a world leader in people flow management and has built an impressive portfolio of tools and processes specifically for modernization. With KONE Care for Life™ service, KONE conducts a full analysis of the current installation and prepares a modernization plan to raise the elevator to modern performance, safety, aesthetics and accessibility standards. The KONE Care for Life™ plan evaluates

possible investment schedules and constraints and helps you both manage your investment and increase its value by offering the best modernization solution for your needs for the full lifetime of your building.

To suit the modernization needs identified by the KONE Care for Life™ service, KONE can offer modernization solutions ranging from individual elevator parts addressing individual deficiencies in the elevator through modernization packages consisting of larger functional solutions all the way to full replacement solutions for almost the entire elevator installation.

The value of thorough analysis

For users, modernization based on the KONE Care for Life™ analysis means reliability, safety and comfort, as well as the aesthetic appeal of modern design – particularly important when the elevator is in their residential building. For building and facility managers, it means minimum disruption and maximum availability of the equipment. And for owners, it means predictable elevator and escalator lifecycle modernization, and increasing the value of the investment they have made in the building.

1. Comprehensive assessment

The first step is a thorough evaluation of the existing installation, from the viewpoints of performance, safety, accessibility and aesthetics.

Performance

Reliable, efficient, continuous operation is important to ensure smooth people flow in the building. It also saves energy and makes maintenance costs more predictable.

Accessibility

Good accessibility makes the equipment safer and more convenient for all users, including people in wheelchairs, families with children, or people with large items. Leveling accuracy, automatic doors and a larger car increase accessibility.

Safety

Safety means more than conforming with local laws and norms – though that is important. Minimizing potential risks is the goal, and the end result is peace of mind for staff, tenants and visitors.

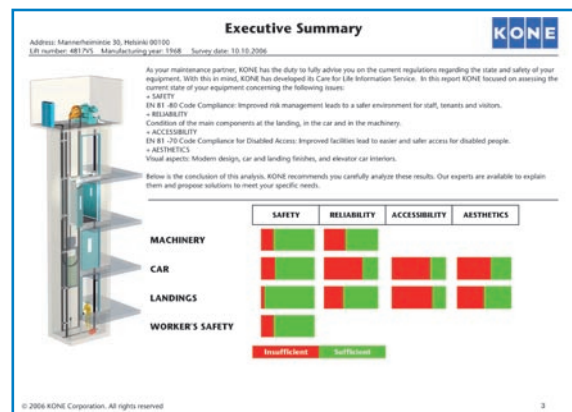
Aesthetics

First impressions matter – and the elevator or escalator is often the first thing tenants or customers see when they enter the building. Contemporary design, quality materials improve the image of the building.

2. Support for reporting and planning

The result of this assessment is a full report, divided into three clearly-defined sections. The executive summary is an excellent tool for decision-makers, containing the main characteristics of your installation and areas needing intervention. This is followed by detailed analysis of the results of the KONE Care for Life™ assessment, based on the criteria described above. The final section of the report compares the measured data to the hazardous situation description, as defined by the relevant norms.

Once the deficiencies have been identified, we create an action plan to bring your installation up to the required standard of aesthetics, safety, accessibility and performance.



3. Modernization solution

Finally, we present a series of solutions for achieving the required improvement in your installation. These can range from upgrades, to modular modernization, to full modernization or full replacement, in which case you gain all of the benefits of improved aesthetics, safety, accessibility and performance.

For the life of your elevator

Quite often an elevator's mechanical systems are still in good shape, but the car interior is worn and scratched. Or the car interior is in good shape, but the electrification and signalization are out of date. Thanks to the thorough KONE Care for Life™ analysis, you can replace individual modules and get an elevator that looks and works like new, without having to replace the entire installation.

1 Hoisting equipment

This includes all the components needed for the physical lifting of the elevator – the hoisting machine itself, brakes, ropes, counterweight, even the shaft and machine room. With a new KONE hoisting unit, you can not only increase reliability, safety and accessibility, but also improve the comfort of passengers.

When modernizing the hoisting unit, KONE can either replace it with one having similar characteristics, or it can apply the latest KONE EcoDisc™ or KONE PowerDisc™ hoisting technology while modernizing the electrification system. The gearless KONE EcoDisc™ and KONE PowerDisc™ solutions provide lower energy consumption, improve ride quality, reduce demands on building space, and give greater reliability.

2 Electrification

This includes all electrical components needed to operate the elevator, the electronics controlling and monitoring the hoisting machine and doors, and the switches and contacts needed to ensure safe and smooth operation.

The best way to increase the performance and reliability of an elevator is to modernize its electrification system. One visible result is improved floor leveling, which increases the safety, accessibility and convenience of passengers.

3 Signalization

This consists of all components needed for passengers to use the elevator, including disabled passengers, so that buttons are accessible for people in wheelchairs, for example. KONE can provide surface- or flush-mounted signalization solutions for a full range of elevators.

For passengers' safety and peace of mind, whenever the signalization is modernized, it comes equipped with KONE Remote Monitoring Services™. This gives passengers round-the-clock, two-way voice communication with a KONE Customer Care Center™. The location is transmitted automatically, so the operator can dispatch a service technician immediately and inform passengers when KONE service will arrive on the site.

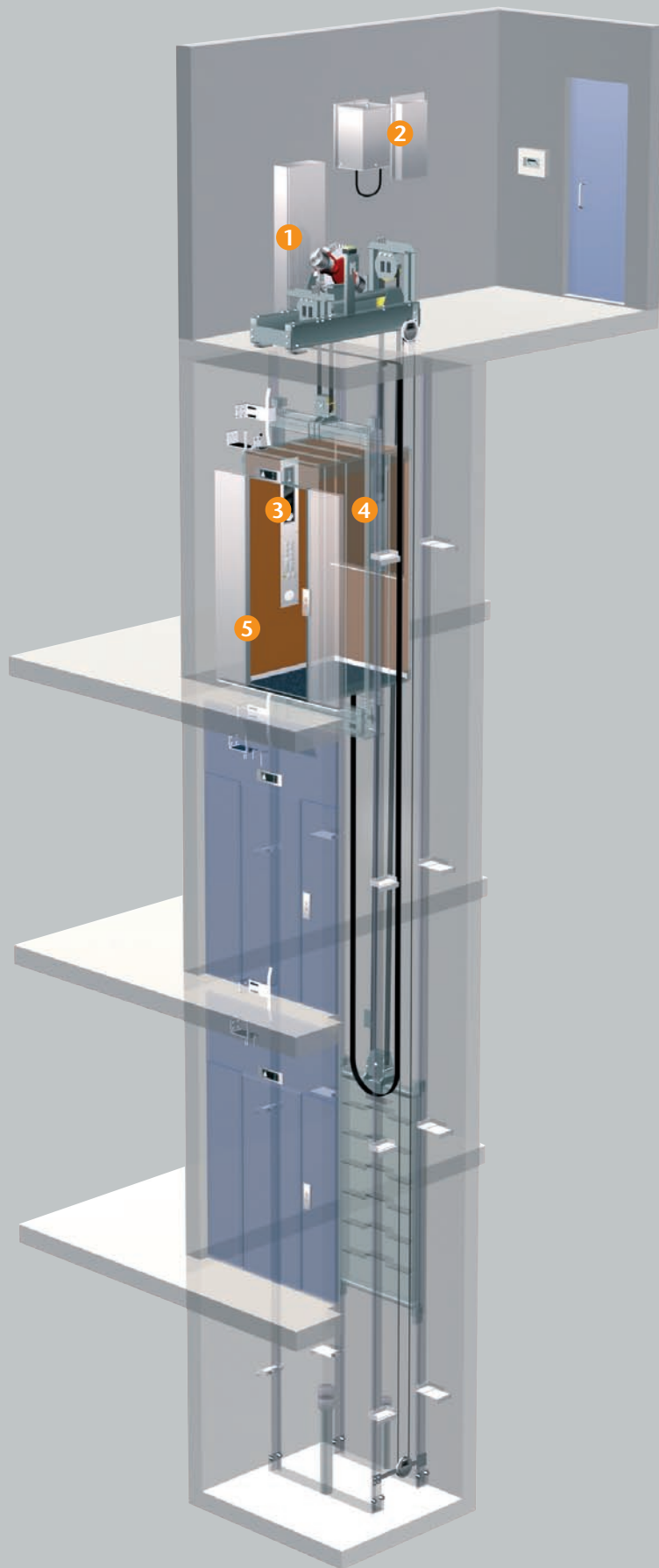
4 Car

KONE offers several solutions to improve the safety, accessibility and appearance of the car and car interior. For example, KONE cars are enclosed and meet the latest safety norms. KONE car interiors look fresh and modern – and with some solutions, you can change them with the seasons.

5 Doors

These are key safety devices, since they seal the car and protect passengers.

Usually, when a new door is installed, it adds weight and takes space. KONE door solutions are compact and lightweight, so the elevator can carry the same number of passengers as before – or possibly even more passengers. For increased accessibility, KONE doors open wider than normal doors. Depending on your current elevator size, it may be possible to accommodate wheelchairs.



For the life of your escalator

The escalator's truss can last for the lifetime of the building. But the mechanical and electrical components contained inside it wear out and become outdated.

The KONE EcoMod™ solution is based on modules that can be replaced individually or all together while retaining the supporting structure – the truss. This results in a new escalator with minimal disruption to the building and minimal disturbance to the passenger flow.

1 Mechanical

Replacing the old worm gear with the highly efficient KONE ECO3000™ Drive reduces energy consumption and increases performance. The chainless drive minimizes downtime and increases the availability of your escalators.

When you replace the old step chain with the unique lubrication-free KONE ECO3000™ Chain, you eliminate oil smell and the risk of oil leaks through the cladding. It also reduces the risk of fire. The entire installation is cleaner and safer and requires less downtime for maintenance.

2 Electrical

Replacing the old controller with a new micro-processor-based controller significantly improves safety and energy-efficiency. The state-of-the-art KONE ECO3000™ Controller connects to the latest safety monitoring systems. For example, handrail speed monitoring measures the difference

in speed between the steps and the handrail. If the speed variation exceeds a pre-defined limit, the escalator stops, assuring the safety of passengers. In order to minimize energy consumption, you can upgrade the escalator to standby operation.

3 Aesthetics

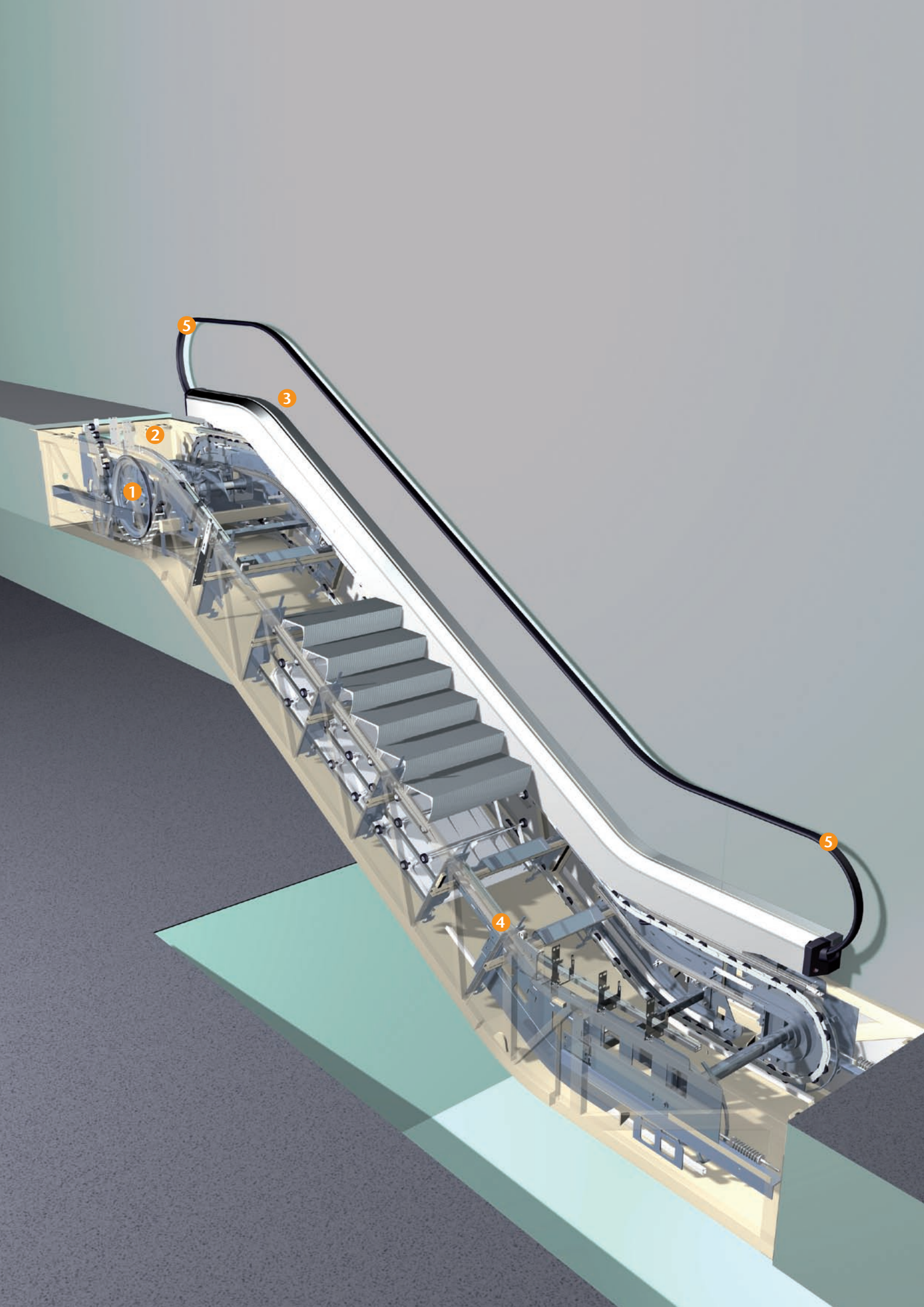
Improving the aesthetic appearance of the escalator can make it an eye-catching feature of the building. Numerous upgrade packages are available to integrate with the design of the building, and to look good for years to come.

4 Additional safety solutions

Safety requirements have changed a lot in the last 20 or 30 years. Upgrading the old escalator assures that it meets the latest safety standards. For example, a brush deflector system can prevent shoes and clothing from getting trapped between the steps and the skirting panels. Dynamic braking can be fitted to maintain the specified stopping distances under all load conditions. Additional safety signage on the steps is also available to ensure safe behavior on the escalator.

5 Accessibility

Good accessibility makes the escalator safer and more convenient for all users, especially for older people and families with children. Upgrade packages are available, for example for the entrance/exit areas, to provide visual and audible announcements as well as travel direction indication.



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KONE is a global leader in providing complete and innovative solutions for the design, installation, modernization and maintenance of elevators and escalators and the maintenance of automatic building doors. Our 29,000 dedicated employees serve you in 49 countries.

KONE cooperates closely with you from the earliest stages of a project in order to ensure the smooth flow of people and goods throughout your facilities for their entire lifetime. Life-cycle thinking underlies our commitment to proactive, reliable service and modernization solutions. KONE serves you locally as well as globally, for example in the Trump Tower in Chicago, Swiss Re in London and Beijing International Airport.

KONE Corporation
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