Dedicated to People Flow™



HIGH-RISE ELEVATOR HOISTING AND ELECTRIFICATION MODERNIZATION

ReGenerate 800

It pays to make a good first impression

What are prospective tenants' first impressions when they enter your building? Is the lobby full of people waiting for the elevator, or are they moving efficiently to their floors? Is the elevator ride smooth and comfortable, or bumpy and noisy?

Your competitive edge

The KONE ReGenerate™ 800 modernization solution includes the main components of the elevator: the hoisting machinery, controller and electrification system. These can be supplemented with new elevator cars, signalization and landing doors, and a destination control system.

The result is an elevator group that operates reliably, energy-efficiently and smoothly. There are fewer people waiting in the lobby, even during peak periods. And they ride to their destination in comfort and safety.

The KONE ReGenerate 800 is a high-performance solution for elevators in high-rise buildings. It can help you maintain your building's status as a prime property within your market.

Addressing your concerns

Naturally, you may have concerns about disruption to your building operations during modernization. That is also our concern. Thorough analysis of your requirements ensures that you get the solution you require. KONE provides modernization solutions that integrate seamlessly with existing technologies to speed up installation. KONE project management ensures that the project is planned properly and implemented efficiently. When modernizing an elevator group, the KONE Modernization Overlay maintains or even increases traffic capacity during the project.

Before you begin a modernization project, it makes sense to see exactly what needs to be done. KONE Care for LifeTM is an analysis and report on the condition of your elevators, together with recommendations on how to improve their performance.





KONE ReGenerate[™] 800 raises your building's competitiveness



A stylish car interior, with award-winning KONE Design signalization, is an attractive feature in any building.

KONE ReGenerate 800	MX18 Machine		MX32 Machine		MX40 Machine	
	1:1	2:1	1:1	2:1	1:1	2:1
Max load (kg)	1150	2000	1600	3200	2000	4000
Max speed (m/s)	3.5	4.0	6	3.5	8	4
Max travel (m)	180	180	300	180	400	180
Max floors	63	63	126	63	126	63
Max elevators in group	8	8	8	8	8	8
Max starts/year	400,000	400,000	400,000	400,000	400,000	400,000
Leveling accuracy (mm)	+/- 3	+/- 3	+/- 3	+/- 3	+/- 3	+/- 3

Improved performance

The new electrification system in the KONE ReGenerate 800 package replaces outdated technology to improve reliability, safety and energy efficiency. It can interface with many types of existing elevator components, ensuring rapid, trouble-free installation. KONE regenerative drives can recover up to 30% of the elevator system's total energy consumption.

Less waiting

The KONE group control system, available as an option, efficiently manages traffic, minimizing passenger waiting and travel times. If required, KONE can install the KONE Polaris™ destination control system. This can significantly improve traffic handling – to the standard of a modern Class A building. It reduces waiting times in the lobby while reducing crowding in the cars, thus improving passenger comfort.

Greater safety

The KONE ReGenerate 800 complies with the most stringent safety norms. One important safety criterion is leveling accuracy. The closed loop drive control provides accurate floor leveling for improved passenger safety and accessibility. The re-leveling feature maintains the floor level within +/-3 mm during loading and unloading. Ascending overspeed protection and uncontrolled movement protection are also standard safety features of this solution.

Ride comfort

A smooth, silent ride creates a feeling of luxury as tenants rise to the upper floors. The powerful, highly-efficient KONE EcoDisc® permanent magnet motor provides a smooth, efficient ride. KONE drive systems ensure smooth acceleration and stopping. And KONE door systems provide fast and smooth door operation to improve traffic capacity and ride comfort.

Cut energy consumption in half

KONE is a pioneer in eco-efficiency, having introduced many innovations that have proved themselves in thousands of installations. The KONE EcoDisc®, introduced in 1996, has made energy-hungry hoisting units obsolete. It can reduce an elevator's energy consumption by as much as two-thirds.

In high-speed applications, where gearless hoisting units are already used, reductions in electrical loss are the main area of savings. This is mainly achieved because of the very high power factor of the permanent magnet design, together with zero slip losses.



Typical KONE EcoDisc® energy savings:

- Up to 60% against Ward Leonard motor generator sets
- Up to 50% against AC geared units
- Up to 35% against AC gearless units
- Up to 30% further energy savings with regenerative drive after hoisting upgrade with KONE EcoDisc®

These savings also reduce the machine room riser capacity requirements, emergency power generators and fuse sizes. The lower thermal losses also result in reduced requirements for machine-room air-conditioning.

100

Experience based on thousands of modernization projects

Based on its long experience, KONE has developed a systematic modernization process that ensures that you get precisely the solution you require, and that the project is completed on time and on budget, with minimum disturbance to building tenants and visitors.





STEP 1: Assess your requirements

The first step is an evaluation of your business targets and opportunities for improved competitiveness.

STEP 2: Evaluate your equipment

Analysis of the existing systems is needed to understand how efficiently your current people flow solution is working.

KONE provides industry leading solutions to help you determine the opportunities for improving your building's competitiveness. For example, the KONE QuickTraffic tool compares different types of control systems to see how they influence traffic capacity. The KONE QuickEnergy tool compares the amount of electricity consumed by different elevator solutions, so you can see where the greatest energy savings are possible in your building.

KONE Care for LifeTM is a thorough analysis and report covering the main characteristics of your equipment and identifying areas needing improvement. Based on this assessment, together we can agree on an action plan to raise your installation to the required standard.

Decision-making services

- KONE QuickEnergy to calculate and compare the amount of electricity consumed by different elevator solutions.
- KONE QuickTraffic to compare traffic capacity between destination control systems (DCS) and conventional control systems.

Analysis and planning services

- KONE Care for LifeTM assessment to analyze the performance, safety, eco-efficiency, aesthetics and accessibility of your elevator and compare solutions.
- KONE Building Traffic Simulator a powerful tool for before-and-after analysis to simulate energy consumption, passenger service times and elevator performance in customer-defined building surroundings.





STEP 3:
Minimize downtime during installation
KONE Project Managers plan the details

KONE Project Managers plan the details with you to ensure smooth and hassle-free modernization

STEP 4: Maximize reliability for a lifetime

Maintenance capabilities after modernization are of great importance so that the new equipment can run reliably for decades.

KONE Project Managers plan the details and discuss with you how to ensure smooth and trouble-free modernization. During installation, the KONE technicians protect the floors and walls and provide safe routes for building users. To maximize handling capacity during the project, the KONE Modernization Overlay is a temporary group control that combines the old and new systems. Upon completion, KONE takes responsibility for the safe removal, disposal or recycling of old equipment. KONE then does the final safety and performance inspections before handover.

Implementation services

- KONE Modernization Overlay a temporary modernization time group overlay which maximizes traffic handling capacity during modernization.
- KONE project planning and control procedures

 a global tool to plan and control the project and ensure that delivery and installation progress as planned.

To ensure reliable operation during modernization, KONE maintenance training programs focus on equipment from all manufacturers. After completion of the project, KONE can provide KONE Care™ maintenance packages that can be tailored to the requirements of your particular building and equipment. KONE Care is based on KONE Modular Based Maintenance™, a preventive maintenance method that ensures the appropriate level of service and fixes problems before they lead to downtime.

Maintenance services

- KONE Care KONE creates a unique KONE maintenance plan for each site and piece of equipment. The KONE Care offering enables you to choose the level of service you need.
- KONE Customer Care CenterTM a 24/7 helpdesk for reporting technical failures and requesting assistance. Two-way voice communication with elevator passengers via KONE Voice LinkTM.



KONE provides innovative and eco-efficient solutions for elevators, escalators, automatic building doors and the systems that integrate them with today's intelligent buildings.

We support our customers every step of the way; from design, manufacturing and installation to maintenance and modernization. KONE is a global leader in helping our customers manage the smooth flow of people and goods throughout their buildings.

Our commitment to customers is present in all KONE solutions. This makes us a reliable partner throughout the life cycle of the building. We challenge the conventional wisdom of the industry. We are fast, flexible, and we have a well-deserved reputation as a technology leader, with such innovations as KONE MonoSpace®, KONE EcoModTM and KONE UltraRopeTM.

KONE employs on average 40,000 dedicated experts to serve you globally and locally.

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