

Dedicated to People Flow™



COMPREHENSIVE MODERNISATION PACKAGE FOR ELEVATORS

KONE RePower™



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An investment in the future of your building.

An elevator, like any machine, eventually reaches the end of its lifecycle. Even with regular maintenance, after decades of constant operation - starting more than 100,000 times a year and travelling thousands of kilometres - it may need to be replaced or fully modernised.

Why modernise?

KONE modernisation solutions keep your elevators running safely, reliably and energy-efficiently for the lifetime of your building. For passengers, KONE modernisation solutions provide increased safety, accessibility and comfort and improve the aesthetic appeal of the elevator or escalator. For building managers, they mean minimum disruption and maximum availability of the equipment. For owners, they mean improved energy efficiency, reducing operating costs, as well as predictable elevator life-cycle management and budgeting.

Modernise once and for all

In the long run, it makes sense to modernise your elevator once and do a thorough job. That way you minimise disruption while getting an installation that will run reliably for decades.

KONE RePower™ is a modernisation package designed to be easy to order and quick to install. The basic package includes the hoisting, controller, electrification, car, car door and signalisation. This allows you to have the latest technology inside the shaft while keeping the existing shaft and landing doors, minimising disturbance to residents and the building.

KONE RePower is available in two versions: RePower R-Series, designed for residential buildings, and RePower C-series, for office buildings, hotels and other commercial premises.

KONE ReFine™

is a modular upgrade solution that enables you to replace individual components and systems.

KONE RePower™

is a comprehensive modernisation package designed to be easy to order and install.

KONE RePlace™

is a cost-effective full replacement solution that provides you with the benefits of a completely new elevator.

Three levels of modernisation

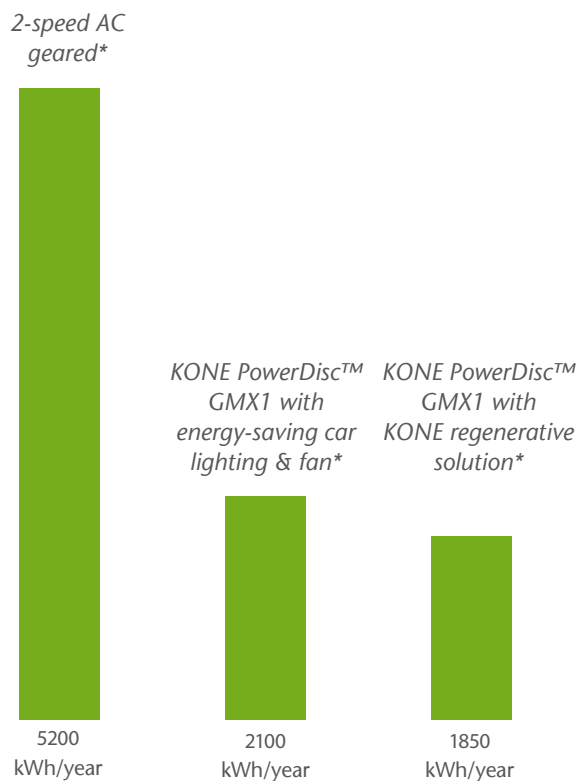
KONE provides three ways to modernise your elevator: KONE ReFine modular solutions, the KONE RePower modernisation package and KONE RePlace full replacement.

RePower your elevator.

More energy efficient

Elevators can account for 2-10% of a building's energy consumption. With KONE RePower modernisation energy-efficiency can be improved in several ways. For example, the KONE PowerDisc™ hoisting machine reduces energy consumption by as much as 50%. LED lighting also has an impact on energy savings. LED lights consume 80% less electricity than halogen lights. Savings are also achieved with standby operation, switching off lights, ventilation and signalisation when the elevator is not in use.

Average Energy Consumption*



A 2-speed AC geared elevator installed in the 1980s consumed 5200 kWh/year. Modernising it using the KONE PowerDisc with the GMX1 machine reduced electricity consumption to 2100 kWh/year. With energy-saving options, this was reduced still further, to 1850 kWh a year.

*Speed 1 m/s, load 630 kg, travel 21 m, 200,000 starts/year.

This consumption can be reduced still further by recovering energy. When an elevator is going down with a full load, it contains potential energy, which is usually lost through braking. The KONE regenerative solution recovers braking energy, which is converted into electricity. The KONE regenerative solution can significantly further reduce the total energy consumption of the elevator.

More reliable

KONE RePower uses award-winning KONE MonoSpace technology, which has proven its reliability in more than 200,000 installations. The long-lasting ropes are manufactured from high tensile strength steel, and the hoisting machinery is built for a typical lifetime of 25 years.

Safer

KONE RePower includes a complete new electrification system, which ensures reliable operation, a smooth ride and accurate floor leveling. Doors in the elevator car also improve safety. Slim KONE doors enclose the car without taking up space in the cabin. KONE RePower complies with EN81-80 safety codes.

Comfort and convenient

The low noise level makes KONE RePower ideal for use in residential buildings. For an elevator group, enhanced group control maximises the traffic handling capacity.

Peace of mind

For passenger's peace of mind, the KONE RePower solution is equipped with KONE Remote Monitoring Voice Link, a two-way communication system in the car to provide an immediate connection with a KONE Customer Care Centre.

Enhanced aesthetics

The KONE RePower package comes with a choice of car interiors and signalisation in the car and landings to match the architecture of the building. The signalisation also provides improved access for passengers with disabilities.



KONE supplies a series of car interiors inspired by nature, with cosy and warm looks, soft lighting and earthy natural colours.

KONE RePower R-Series and C-Series

Application series	KONE RePower R-series	KONE RePower C-series
Load range	180 - 1000kgs	180 - 1150kgs
Speed	0.5 - 1.6 m/s	0.5 - 1.6m/s
Max travel	50	50
Max floors	16	18
Car width	650 - 1200mm	900 - 2150mm
Car depth	650 - 2100mm	750 - 2400mm
Max floor area	2.4 m ²	2.65 m ²
Max elevators in group	3	4
Max starts/year	200 000	300 000
Leveling accuracy	+/-5mm	+/-5mm
Typical lifetime of hoist	25 years	25 years

Package contents, KONE RePower R-Series and C-Series

	KONE RePower R-series	KONE RePower C-series
Car	KONE ReFresh R-series	KONE ReFresh C-series
Car Door	ReNova Slim or ReNova 200	ReNova 600
Control Panel	KSS ReVive 430	KSS ReVive 570
Landing Signalisation	KSS ReVive 430	KSS ReVive 570
Contents of both packages	LCE Control System Machine Room Electrification and Lighting Shaft Electrification Hoisting Machine (EcoDisc or PowerDisc) Bedplate and Supporting Beams Guarding for Rotating Pulleys Load Weighing Device Overspeed Governor and Tension Weight KONE Remote Monitoring Voice Link	

Relax. Your project is in good hands.



Every KONE modernisation project has an experienced Project Manager in charge. He or she is responsible for the entire project, making sure that it is completed on time and on budget. They provide information about the project for building residents, letting them know the scope of the modernisation, when it will start and precisely when it will be completed.

Start with a thorough reassessment

The KONE Care for Life™ service is a thorough analysis of the performance, safety, accessibility, eco-efficiency, and appearance of your elevator. This helps you determine exactly what needs to be done to your elevator.

Thorough planning

To help in planning, KONE can provide more information about regulations, permits and possible subsidies available from national or EU authorities. Before the project begins, the KONE Project Manager carries out a detailed site survey. This inspection takes into account the features of your building, access during the project, and protection of users, visitors and technicians. The purpose is to ensure a successful

installation, while minimising disruption for occupants. When a group of elevators is being replaced, at least one elevator is kept in service to avoid inconvenience to residents and visitors.

Protecting your building and the environment

During installation, the KONE technicians protect the floors, walls and walkways to ensure that no damage is caused to the building. They ensure that there are safe routes available for residents. During the installation, they keep residents informed about how the work is progressing. They also take responsibility for the safe, environmentally-friendly removal, disposal or recycling of the old equipment. When installation has been completed, KONE performs the final safety and performance inspections before the elevator is handed over to the client.

Preventive maintenance

In order to keep your renewed elevator running safely and reliably for decades, it needs regular maintenance. KONE maintenance is based on preventive maintenance, in order to detect and fix potential problems before they can lead to stoppage of the equipment.





KONE provides innovative and eco-efficient solutions for elevators, escalators, doors, loading bays and access. We support our customers every step of the way; from design, manufacturing and installation to maintenance and modernisation. 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 UniDrive™, KONE MonoSpace®, KONE MaxiSpace™, and KONE InnoTrack™. You can experience these innovations in architectural landmarks such as 30 St Mary Axe and Broadgate and 201 Bishopsgate buildings, BAA Terminal 5, Emirates Stadium, Brunel University, Citigroup, Jubilee Line and St. Georges Wharf.

KONE employs approximately 35,000 dedicated experts to serve you globally and locally in 50 countries.

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