Why Modernize?

More than one third of the world’s elevators and escalators are over 20 years old. In that timeframe, even the best maintained equipment can fall short of expectations. Your building is probably used differently today. Elevators and escalators that were state of the art can become unreliable and seem painfully slow. The efficient and smooth ride that people experience in newer buildings sets a new, higher standard. Additionally, today we are all more focused on the need to provide the safest environment and save energy.

WHAT TO CONSIDER:

- Improved equipment reliability and performance
- Enhanced safety and reduced liability
- New energy saving technology
- Refreshed aesthetic conditions
- Increased property value

You know you need to modernize your escalators but you don’t want to deal with the hassles of downtime and disruption. Not to worry. KONE has a solution to meet your needs.
Get a New Escalator. Skip the Construction.

KONE EcoMod is a complete modernization solution that offers an innovative and systematic approach to replacing the entire workings of your escalators. Brand new technology without expensive, disruptive truss removal.

The KONE EcoMod Solution is:

- A complete modernization
- Applicable in all market segments
- A complete duty range product
- An alternative installation method for a new escalator
- A 25–30 year life-cycle product

A KONE EcoMod complete escalator modernization begins with the removal of all existing mechanical and electrical components. Then the existing truss is modified to accept KONE EcoMod modules. This allows quick installation of the latest technology without major disruption.
KONE EcoMod—an ecoLogical Solution

More efficient and less wear

At the heart of the KONE EcoMod is the KONE EcoDrive™. Using a chainless design, this drive improves operating efficiency and reduces energy consumption. KONE EcoDrive is designed to run for 30,000 hours, twice as long as conventional drive systems, before it requires an oil change. The economic and environmental benefits demonstrate how KONE’s EcoMod is an ecoLogical solution.

FEATURES BENEFITS

New newel ends with roller bearing assembly. Modifications reduce handrail drag, extending handrail life and reducing downtime.

Floating lower reversing station with precision cast track system. Provides smooth operating step band and quiet operation.

Unique, positive-type, free-floating step guidance system. Delivers a smoother ride and enhances passenger safety.

Robust track designed for consistent narrow step-to-skirt gap. Meets the Escalator Step/Skirt Performance Index without skirt brushes and reduces exposure to liability.

A sophisticated microprocessor-based controller. Constantly monitors speed, direction, safety status and other key operating parameters, enhancing safety and simple diagnostics.

A closed-loop permanent magnet brake compensates for load, continually adjusting. Ensures smooth, constant deceleration improving passenger safety.

One direct drive machine that powers both steps and handrails. Improves the ride and passenger safety by providing a fully synchronized handrail and step movement.

Less energy and only when you need it

The KONE EcoStart® option combines proven energy saving technology with a solid state soft start. Tests conducted by electric utilities show typical savings of 20% – 40% on escalators. The KONE EcoStart saves energy while maintaining normal operating speed. It also reduces the operating temperature of the motor. The KONE EcoStart is the only energy saving technology of its kind that is engineered specifically for escalators and is CSA B44.1/ASME A17.5 certified.

KEY BENEFITS:

- Proven energy savings
- Reduces motor temperature
- Maintains normal RPM
- Protects the environment by reducing emissions
- Qualifies for utility rebates and incentives (consult your local provider for details)

Cleaning that doesn’t harm the environment

Traditional escalators have lubricated step chains that attract dust and dirt, requiring cleaning with solvents and strong detergents. KONE EcoChain™ step chain option is lubricated for life – chains require no oiling, which are safer, better for the environment and have lower life-cycle costs.
KONE EcoMod is Safer by Design

Safety and reliability are standards built within the KONE EcoMod. All major components undergo rigorous testing to assure proper application and operation. KONE EcoMod meets or exceeds worldwide escalator safety code requirements, including ASME, EN115 and B44.
KONE EcoMod Drastically Minimizes the Required “Work by Others”

New Installation
- Remove cladding and adjacent walls
- Remove sprinklers and water lines
- Remove all electrical
- Remove concrete and tile surrounding access covers
- Remove structural ties to truss and ceiling grids
- Remove ventilation and ducts
- Prepare site for access and weight of escalators
- Provide new disconnects, pit lights and outlets
- Provide new exterior truss cladding
- Provide structural modifications to wellways, if necessary
- Provide shoring for hoisting and removal of existing truss
- Provide access/egress to and from building
- Furnish and install fill and finish flooring

Note: For a full list of “Work by Others” for new installation please contact a KONE Sales Professional.

EcoMod Installation
- Access to the site must be available
- Working and storage areas stay clean, dry and protected from the weather
- Maintain existing permanent three-phase and single-phase power for escalator assembly and testing

KONE EcoMod is Logistically Easier to Install

Preservation of the existing truss delivers:
- A new escalator at a significantly lower total project cost than options involving truss removal
- Cleaner and less disruptive installation that doesn’t require special crane hoisting or building façade removal
- Elimination of costly structural modifications
- Preservation of existing building décor (floors, walls, ceilings, etc.)
- The ability to preserve existing escalator cladding and decking
KONE – Your Total Solution Partner

As a leading company in the elevator and escalator business, KONE offers its customers:

- Modernization solutions to upgrade and maximize the potential of the building.
- Reliable and elegant escalators to match any need, from retail to transit applications, with high levels of cost-effectiveness and performance.
- Elevators with the most innovative technology and exceptional performance.
- Online interactive tools to assist in the design of KONE elevators and escalators. These easy-to-use tools help you create 2D and 3D drawings as well as ready-to-use and downloadable specifications. Visit www.kone.com.
- Comprehensive maintenance solutions for the entire life-cycle of the product.
- Spare parts available globally within 24 hours.

With thousands of installations in over one hundred countries, KONE has accumulated the best industry know-how and expertise. The innovative design, reliability and quality KONE offers can be seen in every modernized location around the world.