Electrification package

Modular modernisation for escalators





Flexible modernisation that puts you in control

Boost the reliability and eco-efficiency of your escalator equipment - and bring it in line with the latest safety and accessibility standards - with our hassle-free modular modernisation packages. With modular modernisation you benefit from the latest in proven escalator technologies while minimising inconvenience to tenants and visitors. Our packages also give you the freedom to choose what to modernise and when.

Escalator electrification packages

Our electrification modernisation packages are designed for escalators in busy commercial environments such as retail centres and transit hubs, where smooth people flow is critical to business and long periods of downtime are simply not an option.

We offer both partial and full electrification modernisation for escalators. With full modernisation we replace the control system, install modern safety devices compliant with the EN 115-1 standard, and fit an inverter that enables energy-saving standby speed and on-demand operation. With partial modernisation only the inverter is installed.

Electrification package

Key benefits

- Improved reliability and availability
- Lower running costs due to reduced energy consumption
- Easier and more cost-efficient maintenance
- Improved safety and ride comfort

What's included?

The key safety-related and other upgrades in a full electrification modernisation are:

Safety upgrades:

- A handrail speed and breakage monitor that automatically stops the escalator if the handrail is running too slowly or if a breakage is detected
- An access-cover safety switch that stops the escalator and prevents it from being started if the maintenance access covers are not in place
- A missing step detector that monitors the step band and stops the escalator if a missing step is detected
- A current leakage protection device that automatically cuts the mains power if a leakage is detected
- A fire alarm interface and smoke detection devices that can be linked to the building's fire protection system, ensuring escalators power down in case of smoke or fire
- A comb plate impact device and handrail inlet switch that stop the escalator if foreign objects become trapped between the comb teeth and step band or enter the handrail inlets
- A step sag switch that stops the escalator if a step sags by more than 5 mm before it enters the comb segments; this can be caused by a damaged step or chain roller
- A broken step chain switch installed in the return station that stops the escalator if the chain either becomes elongated or fails completely
- A motor speed monitor that checks for overspeeding, underspeeding, unintentional reverse, and braking deceleration
- A new emergency stop button installed next to the key start switch

Other upgrades:

- A new KONE 501 control cabinet and escalator wiring loom
- An inverter cabinet that enables significant energy savings through smart star-delta operation and a standby step-band speed of 0.2 m/s
- A diagnostic display installed on the inner deck that makes it easier to identify faults and quickly get the escalator up and running if a service technician isn't needed – for example, in cases where someone has accidentally pressed the emergency stop button



Why modernise with KONE?

1

An investment that pays off

Improved safety, reliability, and energy efficiency.

2

Happier building users

Improved reliability, accessibility, and comfort - for the lifetime of your building.

3

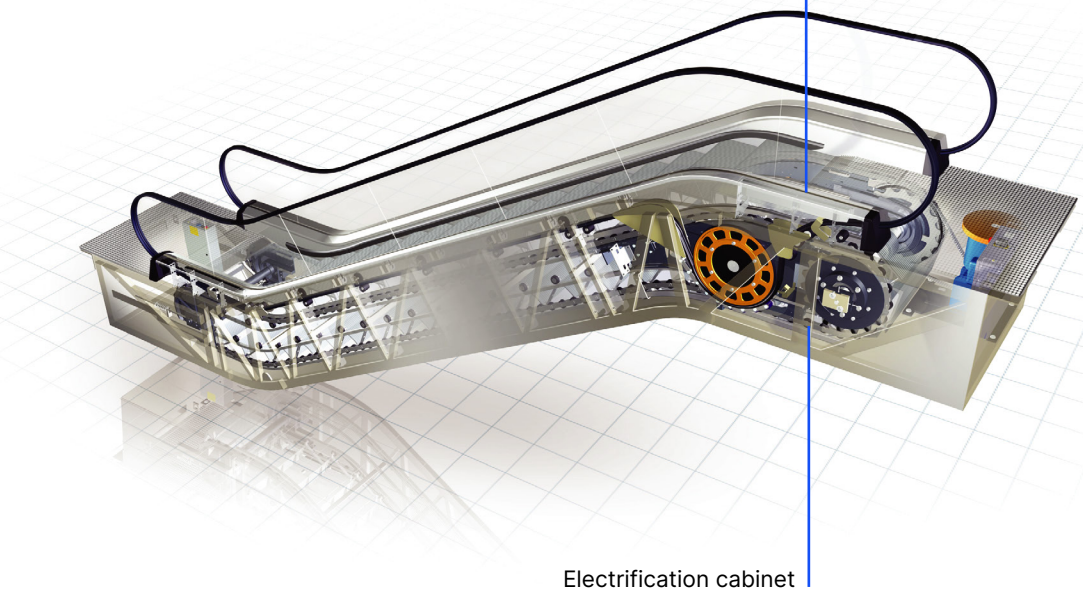
Quick and hassle-free installation

Complete installation in less than a week*, enabled by our well-managed modernisation process that minimises disturbance to tenants and visitors.





Info display on inner decking



Electrification cabinet

*Estimated timeline of a typical escalator modernisation project, where the electrification system is replaced with a new one.

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 managing the smooth flow of people and goods throughout buildings. This makes us a reliable partner throughout the life cycle of buildings. We are fast, flexible, and we have a well-deserved reputation asa technology leader, with such innovations as KONE 24/7 Connected Services and KONE UltraRope®. KONE employs over 63,000 dedicated experts to serve you globally and locally.

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People Flow™