

ESCALATOR MODERNISATION

More modern, more efficient,
much smarter



MOVE BEYOND



LET TK ELEVATOR TRANSFORM YOUR ESCALATOR

Your escalator has seen better days

High maintenance and repair costs, more frequent downtime, non-compliance with modern safety standards and ecological requirements: old escalators have many drawbacks. You might have thought about replacing yours, but space is tight and you don't want your business to be disrupted. But fortunately there is an excellent alternative to replacing an entire escalator.

The simple solution: ES-Power

We can modernise virtually any escalator with perfectly fitting modules and components that are pre-assembled and brought to the location in small and handy packages. In other words, one of several adjacent escalators can be upgraded without affecting the others. In the final analysis, we can replace everything by keeping the original truss.

Modernisation – without disrupting your operations

ES-Power requires less heavy handling equipment than replacing an entire escalator and thus needs less space for maneuvering. This ensures minimal disruption of your business. And the best thing is that if your existing cladding is important to you, it stays intact so you can keep it.

Your modernised escalator is like new

You get a brand-new product from TKE – a tailor-made and individually designed escalator, e.g. velino, tugela, victoria or orinoco. This not only brings your escalator up to the latest code standards and makes it look more attractive; it can cut your energy costs by up to 50%.

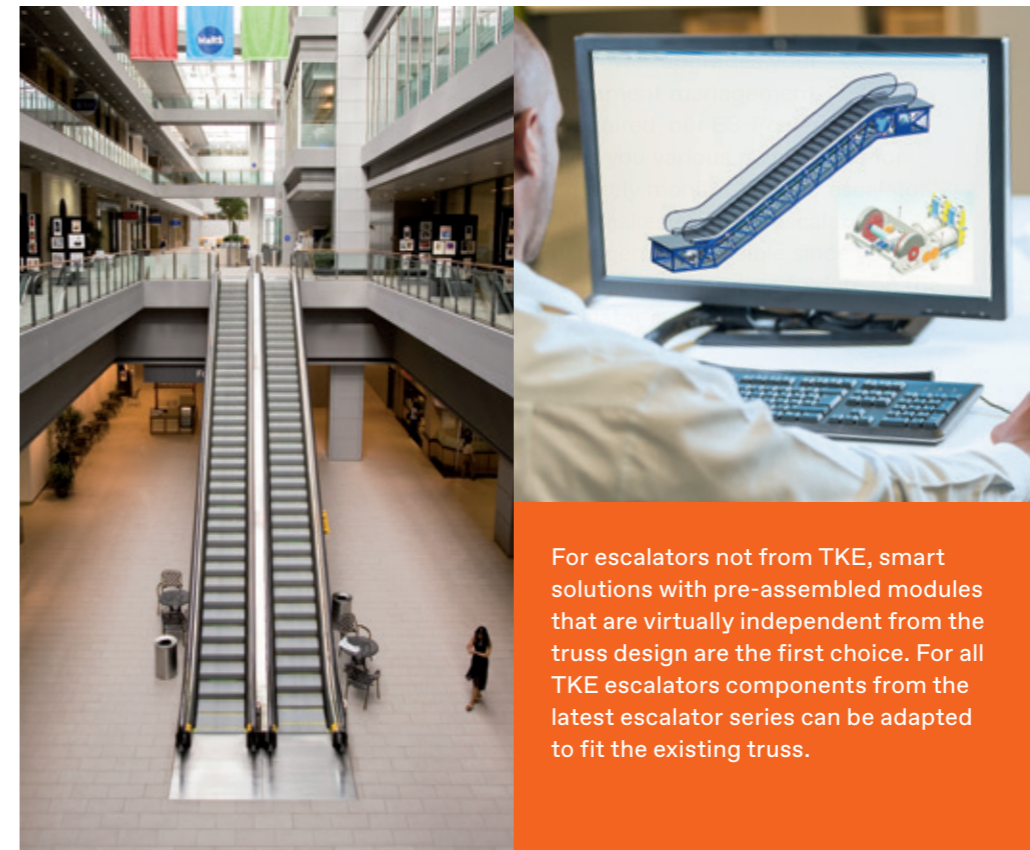
ES-POWER ADVANTAGES: TAILOR-MADE MODERNISATION FOR YOUR ESCALATOR

ES-Power broadens your possibilities

ES-Power modernisation brings you important benefits. If your outer cladding is valuable, it can be preserved. We can access even narrow installation sites and minimise the disturbance to your people flow. Moreover, light modules and components ensure easier handling.

ES-Power brings you the latest safety codes

The safety levels demanded by your latest local code are more rigorous than ever. So our ES-Power concept ensures you get all the safety measures demanded by your local authorities – and if required, we can also offer additional safety features.



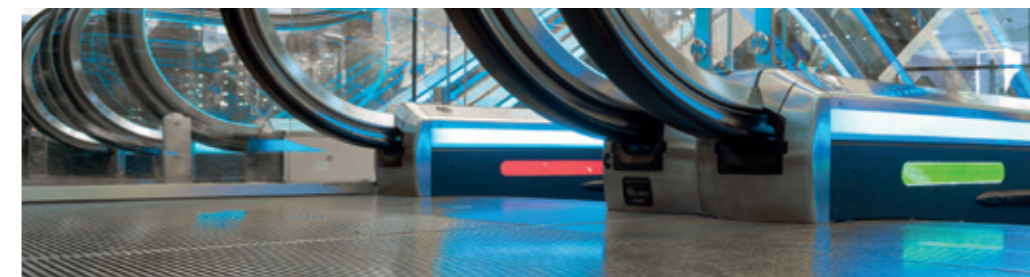
For escalators not from TKE, smart solutions with pre-assembled modules that are virtually independent from the truss design are the first choice. For all TKE escalators components from the latest escalator series can be adapted to fit the existing truss.

ES-Power makes your escalator look nice again

All visible components can be replaced by new ones, e.g. balustrade, skirt, steps, comb and floor plates. Additional options for decorative and traffic lights are also available.

ES-Power will improve ride quality

ES-Power modernisation will make your customers feel comfortable again by improving the ride quality of your escalators. This is made possible by renewing and adjusting wear & tear parts, such as tracks for steps and handrails.



ES-Power helps to save energy

Depending on your individual load case and the need for environmentally friendly operation, you can choose from a wide range of state-of-the-art energy-saving technologies, giving you the chance to achieve the highest possible ISO 25745 rating.

MODERNISING YOUR ESCALATOR – NOTHING COULD BE SIMPLER

Our modernisation process has been designed to make things as simple as possible for you – and minimise interference with your everyday operations. In general it is a four-stage process.



1.
EXAMINATION
2.
PROPOSAL
3.
PROJECT DESIGN
4.
REBUILDING

Our specialists examine the unit to be modernised, take measurements, and check its condition and accessibility.

We develop a modernisation proposal and a rebuilding project plan.

The individual project design is developed and the modules and components manufactured.

Rebuilding takes place in five steps, including a site acceptance test, certification, and commissioning of the modernised escalator.

Rebuilding Step 1
Disassembly

Removal of existing components and cleaning of truss to prepare the base for the new escalator.

Rebuilding Step 2
Installation of modules and components

Installation of components, including electrical cabinet and distribution boxes, and perfect alignment of the new upper and lower modules within the escalator using laser adjustment tools.

Rebuilding Step 3
Middle segment

Installation of central modules, track system and step band, and alignment through laser to ensure a perfect fit for a smooth ride and low noise levels.

Rebuilding Step 4
Aesthetic upgrade

Installation of visible components such as balustrades, deckings, claddings and floor plates to make the escalator look like new.

Rebuilding Step 5
Test

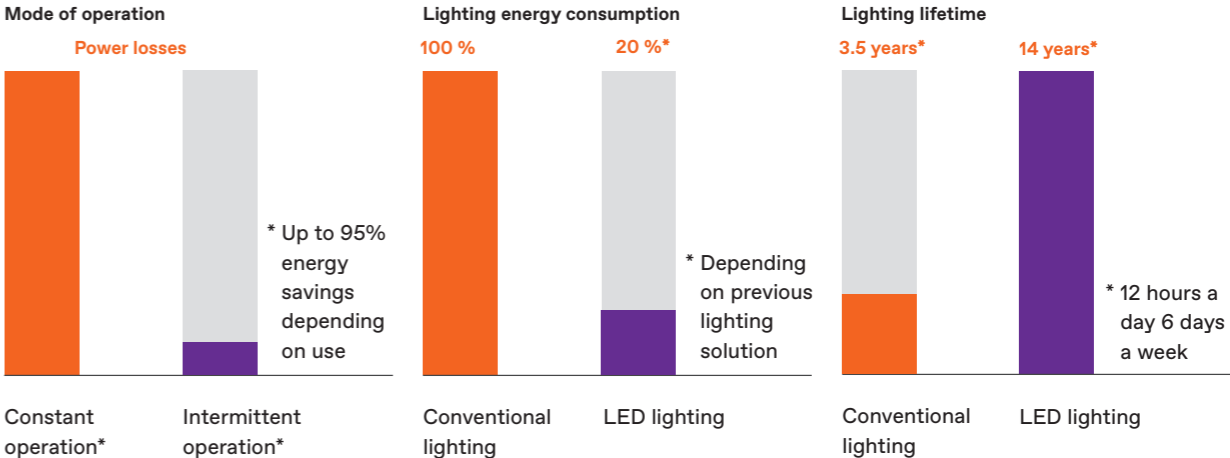
Site acceptance test, and commissioning of the new escalator.

MODERNISATION: UP-TO-DATE SAFETY, ENERGY EFFICIENCY AND OPERATIONAL FEATURES

ES-Power is compatible with all TKE models and the majority of models of other brands. After the ES-Power process has been completed, your escalator will have the same service life as a brand-new one. And it naturally works like a new escalator – the same high reliability, low noise, and fresh, well maintained looks. The value of your building is enhanced, your tenants are satisfied, and passengers are delighted.

Technical data
Solutions
Partial or full replacement of TK Elevator units
Partial or full replacement of 3 rd party units
Codes
EN115
ASME 17.1/CSA B44
GB 16899
GOST
Other codes upon request
Balustrades
Slim
Robust
Metal (solid, high deck, sandwich)
Load pattern
Commercial: 12h/day, 6 days/week
Public transport: 20h/day, 7 days/week
Decking materials
Aluminum / stainless steel
Dimensions
Top landing and bottom landing: 600mm / 800mm / 1,200mm / 1,600mm horizontal steps
Step width: 600mm / 800mm / 1,000mm
Lighting options
Aesthetic lights: Balustrade, skirt, truss, ambient cladding and soffit cladding
Traffic lights: Floor plate, decking, newel and column
Safety lights: Step gap and comb plate
Energy-saving options
Star-delta: Reduced power consumption for empty units at nominal speed
EEC: Reduced power consumption for partial load
VVVF: Frequency converter for slow speed operation
Smart VVVF: Frequency converter for slow speed operation with load functionality
Intermittent operations: Automatic start and stop mode.
IE3 motor: Premium efficiency motor

Modernising your escalator can also enhance its sustainability profile through energy savings



YOUR SERVICE PARTNER: ALWAYS THERE



Whatever your commercial operation, you need an escalator that is installed on schedule and, once running, ensures people can get where they want to go quickly and effortlessly. Our installation expertise will make sure your escalator starts operating on time. Our technical and service support will keep it running smoothly from then on.



More details about MAX are available via this QR code.

MAX – the game changer that keeps people moving

Introducing MAX: the elevator industry's first real-time, cloud-based predictive maintenance solution. Our smart, machine learning Internet of Things (IoT) solution dramatically increases elevator availability by reducing out-of-service situations through real-time diagnostics.



Data gathering



Precise diagnostics



Predictive intervention

MAX is only available in selected markets. Consult your TK Elevator sales representative for further information.

YOUR INNOVATION PARTNER

elevators and escalators under maintenance

countries of customers

1,200,000 100+

employees

50,000+

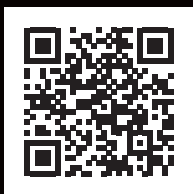
service available for customers

locations

24/7 1,000+

service technicians

24,000+



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