

Elevator Technology

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## I.MOD

Escalator and moving walk  
modernization



thyssenkrupp

I.MOD Escalator and moving walk modernization, English, (09/2020) thyssenkrupp Elevator Innovation and Operations GmbH Asia Pacific Office  
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engineering.tomorrow.together.



# Let thyssenkrupp transform your infrastructure.

## Your equipment has seen better days.

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

## The simple solution: I.MOD.

We can modernize virtually any installed base 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 or moving walks can be upgraded without affecting the others. In the final analysis, we can replace everything by keeping the original truss.

## Modernization without disrupting your operations.

I.MOD requires less heavy handling equipment than replacing an entire unit 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 modernized unit is like new.

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



# Revitalize your business.



### I.MOD broadens your possibilities.

I.MOD modernization brings you important benefits. If your outer cladding is valuable, it can be preserved. We can even access narrow installation sites and minimize the disturbance to your people flow. Moreover, light modules and components ensure easier handling.

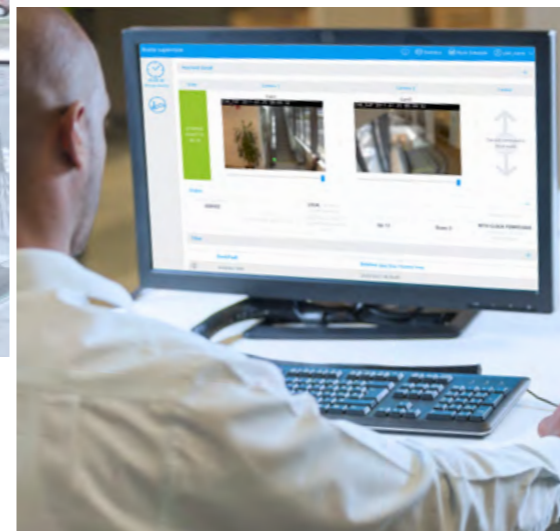
### I.MOD brings you the latest safety codes.

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



### I.MOD upgrades your equipment management.

If required, our I.MOD concept gives you various possibilities for remotely monitoring your installed base. This makes efficient management possible since you are automatically kept up to date on the unit's condition and status.



### I.MOD makes your units look pristine 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.



### Same easy I.MOD process for thyssenkrupp or 3rd party units.

A cost saving diligent business decision, modernization will get you back in control of your units and safety code compliance while revitalizing your buildings spark with a fresh new look.



### I.MOD will improve ride quality.

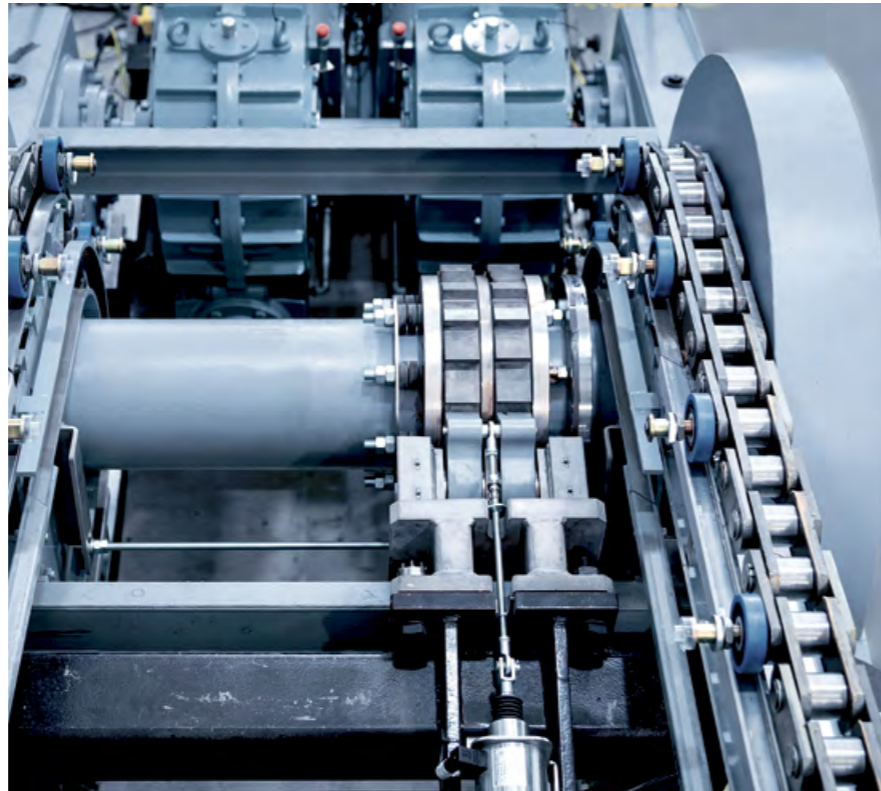
I.MOD modernization will make your customers feel comfortable again by improving the ride quality of your escalators and moving walks. This is made possible by renewing and adjusting wear & tear parts, such as tracks for steps and handrails.

### I.MOD 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.

# Modernizing your equipment – nothing could be simpler.

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



## 1. Examination.

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

## 2. Proposal.

We develop a modernization proposal and a rebuilding project plan.

## 3. Project design.

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

## 4. Rebuilding.

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

### Rebuilding Step 1 Disassembly.



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

### 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 unit 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 unit look like new.

### Rebuilding Step 5 Test.



Site acceptance test, and commissioning of the new unit.



# Modernization: Up-to-date safety, energy efficiency and operational features.

## Technical data

### Solutions

Partial or full replacement of thyssenkrupp units

Partial or full replacement of 3<sup>rd</sup> party units

### Codes

EN115

ASME 17.1/CSA B44

GB 16899

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: 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

VVVF: Frequency converter for slow speed operation

Intermittent operations: Automatic start and stop mode.

IE3 motor: Premium efficiency motor

### Equipment management

MAX cloud-based maintenance solution

INSIGHT web-based operations manager

I.MOD is compatible with all thyssenkrupp models and the majority of models of other brands. After the I.MOD process has been completed, your escalator or moving walk will have the same service life as a brand-new one. And it naturally works like new – 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.

## MAX

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



Data gathering



Precise diagnostics



Predictive intervention

MAX is only available in selected markets. Please consult your thyssenkrupp sales representative for further information.

## INSIGHT

INSIGHT enables you to optimize building operations by monitoring, controlling and scheduling units individually or collectively, from anywhere and at any time.



Monitor



Manage



Analyze



1,200,000

elevators and escalators under maintenance

Customers in

100+

countries

50,000+

employees

Your  
innovation  
partner.

Our mission is to make cities the best ever places to live by being the driving force of an industry that moves more than 1 billion people every day.

Learn more about us online.



1,000+

locations

24/7

service available for customers

24,000+

service technicians