



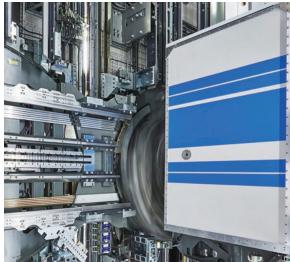
Making cities better.

Half of the world's population now lives in cities. And urban populations are expected to grow by another 2.8 billion people by 2050.

To meet changing resident and business demands, cities need to adopt efficient urban planning and infrastructure development. They also need to create solutions for keeping people mobile in the midst of rapid growth.

As your urban mobility leader, thyssenkrupp Elevator is reshaping the elevator industry and transforming cities. We're constantly evolving, with new products like MULTI, the world's first multi-directional elevator, and MAX, our predictive maintenance solution.

To help customers and cities grow, we introduce evolution 200. It's a low- to mid-rise elevator that's been developed for you.



MULTI: our award-winning multidirectional elevator





We do this by intelligently applying existing technologies and developing next-generation solutions – working closely with you to advance an industry that moves more than 1 billion people per day, worldwide.



MAX: real-time predictive maintenance

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Before and After MOD

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Bring power and precision to your aging equipment.

In even the best-maintained buildings, aging elevators and escalators can be a letdown.

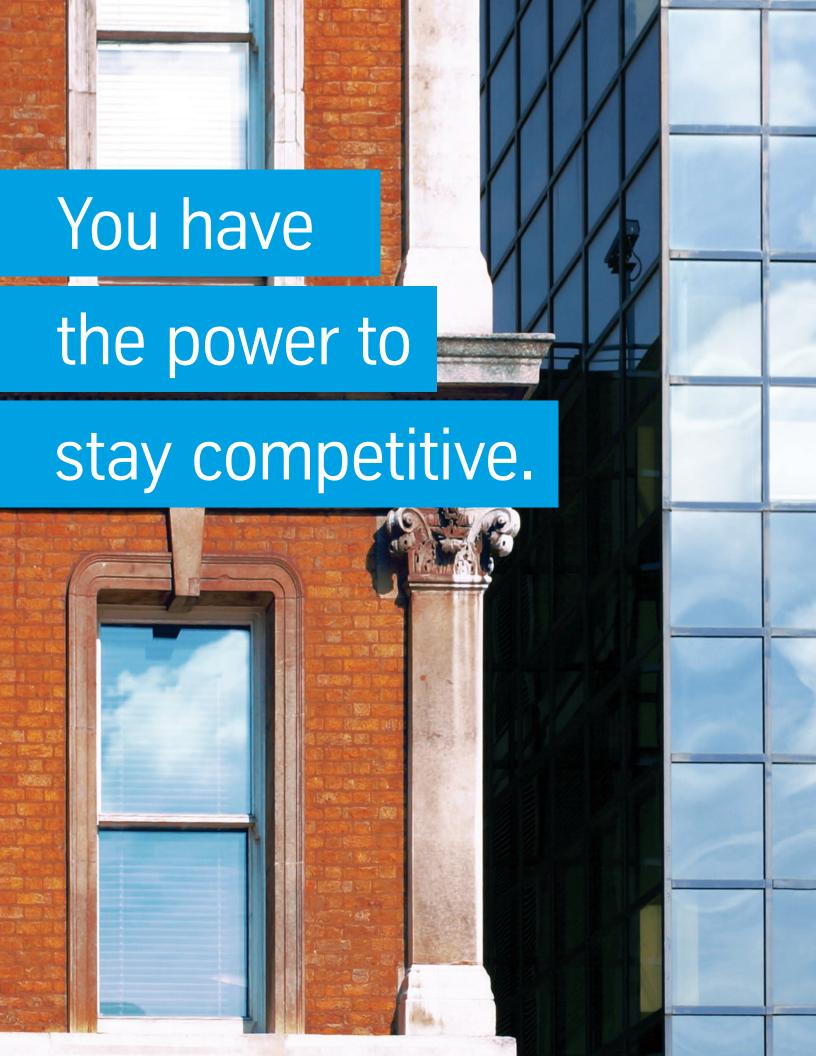
They need increased maintenance and service calls, yet suffer in performance and energy efficiency.

Tenants get upset with slow and out-of-service equipment, building owners pay higher costs and building managers feel stuck in the middle.

thyssenkrupp has a simple solution for these challenges: modernization.

We replace your equipment's critical components, making it perform and look like new. The entire process can be completed with minimal downtime and disruption.







With each modernization package, we replace your key elevator and escalator components with the latest code-compliant technology.

Your modernized equipment will command respect while increasing your building value.

Why choose thyssenkrupp

- Four elevator modernization packages suitable for most models and budgets
- Full escalator modernization package
- Each newly installed component meets code requirements
- Our modernization process is designed for minimal tenant and building disruption
- You'll gain improved equipment performance, reliability and energy efficiency

thyssenkrupp modernizes and services all competitor (OEM) equipment.
Contact us to learn more.

Breakthrough performance and lower costs.

When you modernize, newly installed components raise your equipment performance and energy efficiency. This means lower costs.

Elevator and escalator controllers

Known as the "brains" of elevators and escalators, our feature-rich controllers revitalize older equipment. They include:

- · Fully digital, 32-bit microprocessing
- · Smaller components
- Reduced wiring
- · Automatic adjustments to traffic demand
- Improved energy efficiency
- An absolute positioning system for accurate floor leveling (elevators only)
- A solid-state starter, which minimizes power surges (hydraulic elevator only)

Elevator and escalator drives

Provide equipment movement. With our modernization packages, you can receive:

- High-tech drive motors
- · Regenerative drives

Hydraulic elevator pump units

Lift your hydraulic elevator. Your new submersible pump unit and conventional jack will boost your elevator power. Yep, we're still talking about elevators.



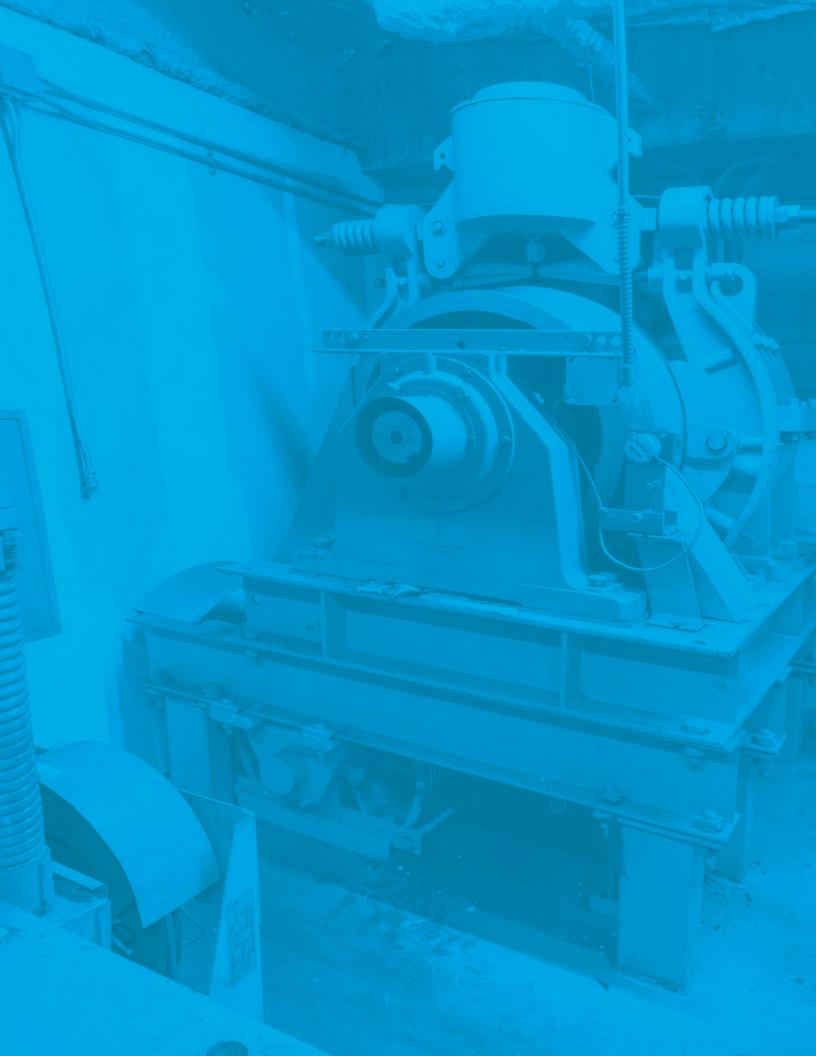


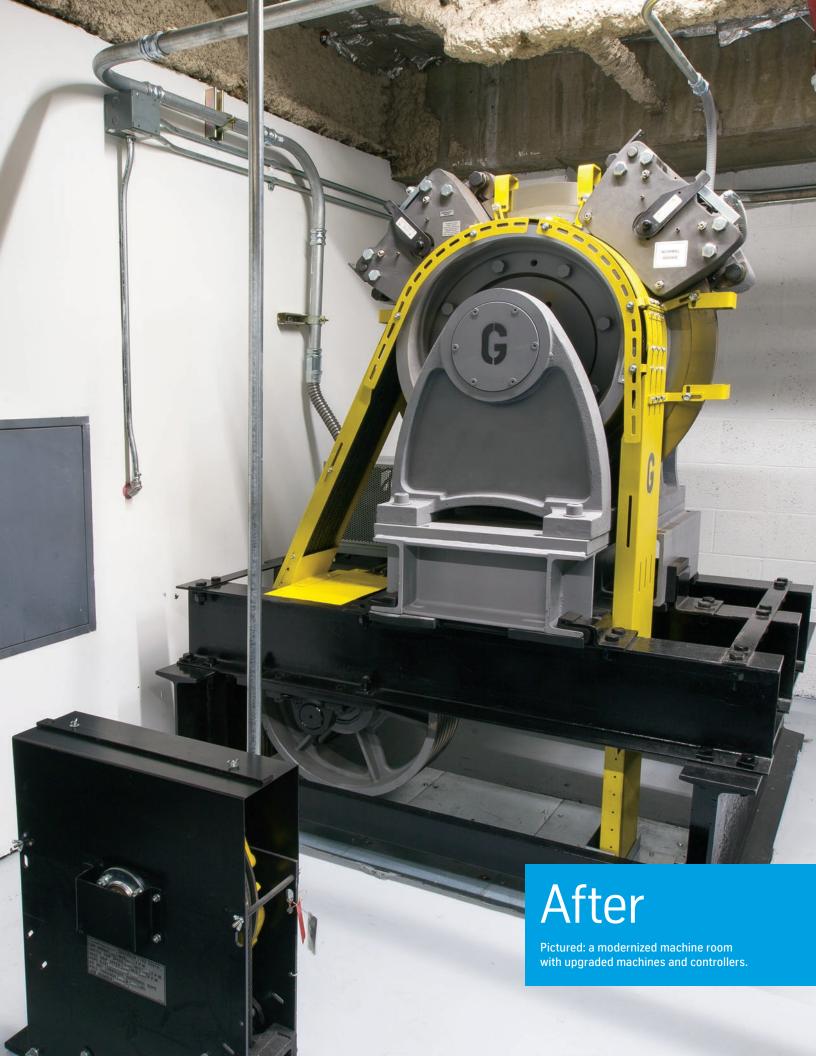


Seeing is believing.

From the improved ride quality to the gorgeous aesthetics, tenants will instantly know you've modernized.

But a peek behind the scenes shows the real modernization magic.







With each modernization package, your equipment receives code-compliant parts that enhance passenger safety.

Included with each package:

H-Power (hydraulic modernization)

Battery-lowering units are a major benefit in entrapments. They provide power to the controller during outages and eliminate the need for a power generator.

G-Power (geared modernization) and GL-Power (gearless modernization)

An Absolute Positioning System precisely measures your elevator's speed and positioning. This promotes accurate floor stopping, so floors are level and passengers have less tripping risk.

G2-Power+ (geared to gearless modernization)

A dual breaking system prevents unintended elevator motion. You'll appreciate it.

ES-Power (escalator modernization)

Escalators receive the latest ASME-approved safety devices, sensors and switches.

Surely you've noticed we love safety. This brings us to OEO.

Occupant Evacuation Operation (OEO) is the quickest way to evacuate people from high-rise buildings. Software operates the elevator system during fires while hall station screens direct building occupants to safety. OEO is available with your modernization.



MAX means higher elevator uptime.

Modernized elevator equipment is better designed and needs less maintenance. But over time, wear and tear can't be completely avoided.

That's where MAX comes in. Let's MAXimize your modernization.

MAX prevents problems before they occur Combining the power of cloud computing, big data and machine learning, MAX monitors your elevator in real time. Like a 24/7 digital partner, it continually collects data about your components and systems, and sends it to the cloud.

Smarter maintenance and service

The data is analyzed, and algorithms determine when your equipment will require maintenance from our technicians. We call this predictive maintenance. It's revolutionary and can reduce your elevator downtime by up to 50 percent.

MAX is like having a digital partner

Installed with your modernization, MAX uses cutting-edge technology to help you avoid the frustration and inconvenience of out-of-service equipment. We're always improving MAX, so you can expect its benefits to get bigger and better over time.

MAX in action:



Data collected



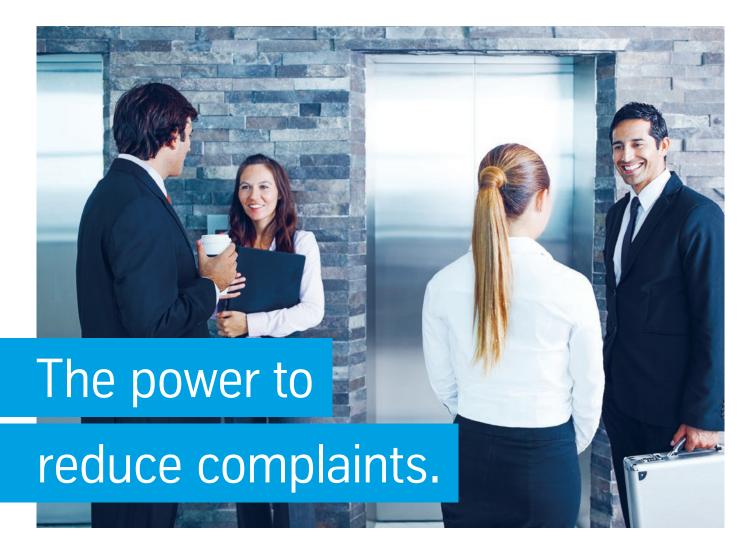


Precise diagnoses





Predictive intervention



Rest easy. We've invested in more than 13,500 expert service technicians whose focus is keeping your equipment on the move.

Our service technicians are available 24/7

After your equipment modernization, you can expect fewer service calls. But when something does go wrong, you can be confident we're ready to help.

Our Communications Center staff is available 24/7 to quickly take your call, while our service technicians are on the road day and night — never far from your equipment.

Your equipment also receives preventative maintenance

Equipment with constant use needs constant care. We provide this through our preventative maintenance packages, which include regular inspections and adjustments.

You also get MAX with any modernization. It's our predictive maintenance solution that dramatically reduces elevator downtime.

Regardless of your elevators' and escalators' condition, we're ready to help.

When no one complains, you know it's working.

As most building managers know, malfunctioning doors are the leading cause of elevator service calls. They also frustrate tenants and building owners, and raise operational costs.

With your elevator modernization, we install a Universal Door Operator (UDO). This innovative technology makes elevator doors perform better than new.

After your UDO is installed, you can expect:

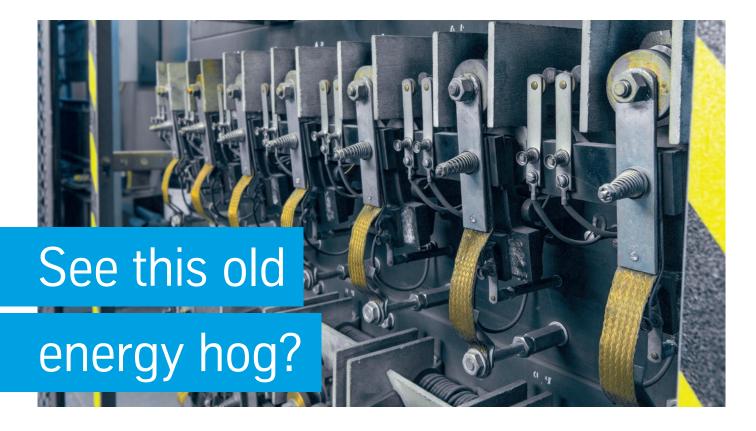
- · Increased passenger safety and ride confidence
- · Reduced service calls and costs
- · Smooth, quiet and faster door operation
- · Reduced elevator downtime
- · Improved building traffic flow

Easy UDO integration with existing door equipment

Your UDO is easily attached to your existing cab header, and includes track hangers, a clutch-mounting kit and door adapter angle.

It uses a permanent magnet drive motor, ensuring powerful but quiet door operation. The belt drive system creates reliable motion without backlash. Your modernized door system will be smooth like silk.





It's ugly and costly.

With our modernization packages, your equipment receives energy-efficient parts to help lower your energy costs. It's all code-compliant.

With certain packages, you can choose energy-saving features that provide even more cost reductions.

Regenerative drives

Energy from elevator and escalator movements is captured and stored in your building grid.

Improved power management

Elevators and escalators can switch into standby mode when not in use, reducing the controller's energy consumption. In addition, automatic fan and light shutoff can reduce elevator cab energy use by up to 90 percent.

LED lights

These come standard. LEDs last up to 25 times longer than traditional lights while using 75 percent less energy. They also produce barely any heat.

Low-emitting cabs

Your elevator passengers can breathe easy. Our elevator cabs are third-party validated (UL Underwriters Laboratories) to be low-emitting.



39% savings

total power consumed by machine, after regenerative drive installation

Source: thyssenkrupp Elevator Regenerative Power Case Study

Choose from our modernization power packages.

We have packages for all major types of elevators and escalators. And don't forget: we modernize and service competitor (OEM) equipment.



H-Power (hydraulic modernization)

Designed for hydraulic elevators, this performance-optimizing package replaces more than 30 critical components.

New features include:

- Upgraded digital controller
- Power unit
- Universal door operator
- Fusion fixtures
- Safety upgrades
- Wiring package



G2-Power+

(geared to gearless modernization)

We replace your geared machine, controller and motor generator with the latest digital controls technology. You'll instantly feel the improved ride quality.

New features include:

- · Upgraded digital controller
- Gearless AC machine
- Universal door operator
- · Upgraded fixtures



G-Power

(geared modernization)

We replace your geared traction elevator's hoist motor while cleaning and reusing your existing machine.

New features include:

- Upgraded digital controller
- Geared machine updates
- Upgraded fixtures
- Hoistway safety devices



GL-Power (gearless modernization)

We replace your gearless machine with a new AC gearless machine. This improves speed and performance while reducing dirty machine room dust.

New features include:

- · Upgraded digital controller
- · Machine-gearless technology
- · Regenerative drive
- Microprocessor
- Upgraded fixtures
- · Hoistway devices



ES-Power

(escalator modernization)

We replace everything but your escalator's truss and cladding. This improves its safety, reliability, energy efficiency and appearance.

New features include:

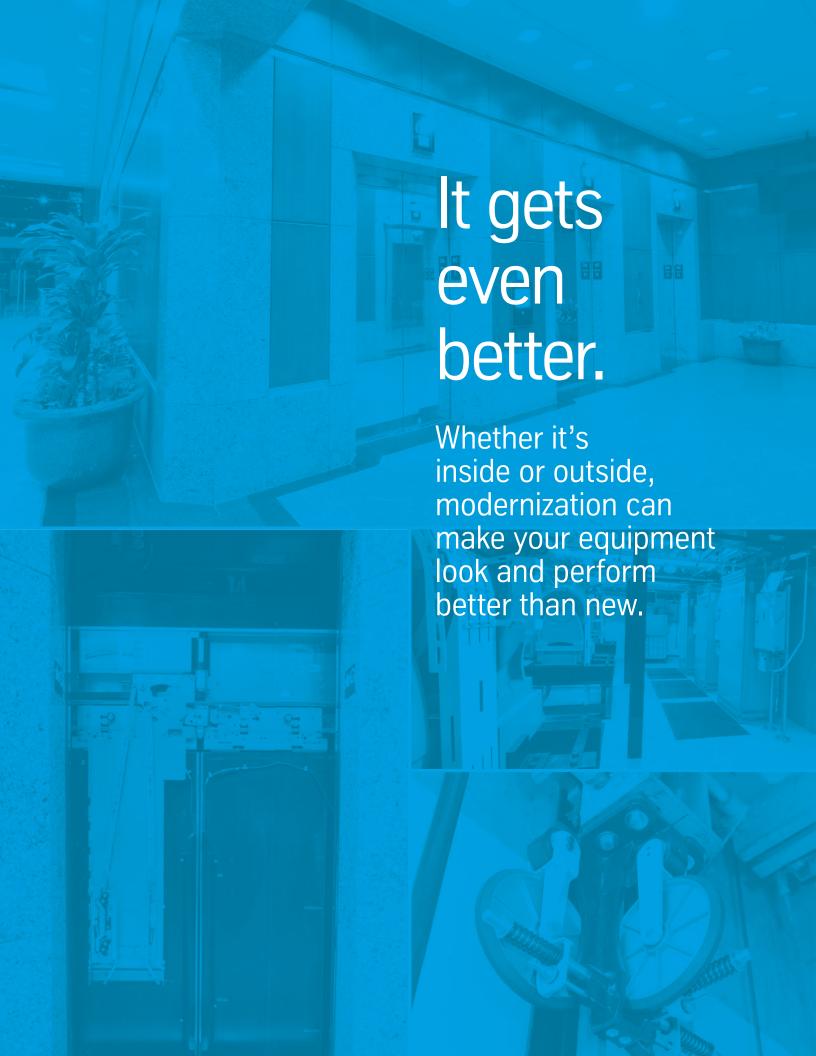
- · Handrail speed monitoring
- Modern finishes
- · Auxiliary main drive shaft brake
- Remote monitoring
- · Audio messaging systems







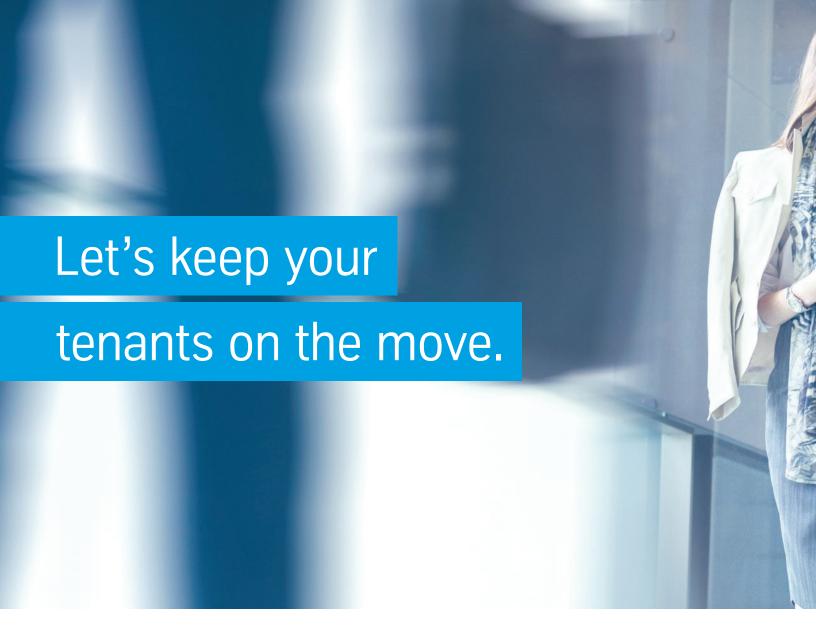












After modernizing your elevator, you'll love the upgraded performance, reliability and energy efficiency.

Make your elevator system even better by adding AGILE. It offers four intelligent elements that improve your elevator's efficiency, aesthetics and security. Best of all, it reduces building congestion. But it won't do anything for your allergies.



AGILE – Destination Controls Better passenger experiences

Groups passengers traveling to similar floors together. The result? Shorter ride times, fewer stops and less building congestion.



AGILE – Management Center

Make data-driven decisions to manage performance
Use your elevator data to make smarter decisions and
adapt to tenant requests. It's all about optimization.



AGILE - Design Center

Touchscreens direct passengers to destinationsLets you customize the touchscreen kiosks passengers use to select their floor. You can choose our graphics and backgrounds or use your own.



AGILE – Security Access

Increase your elevator and building security
Integrates with your building security system or
functions as a stand-alone system. You can meet your
desired security by controlling access to specific floors.





New AGILE kiosks are easily added to your existing Destination Dispatch system.

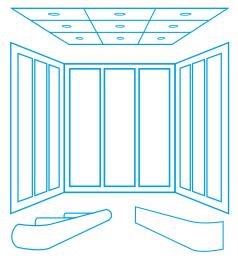


Design custom screens for the AGILE kiosk touchscreens using AGILE – Design Center.









Elevators

Refresh your cab with new finishes, such as plastic laminates, powder coats, metals or woods.

Choose from a variety of options for the lights, walls and handrails to update your elevator cab design.



Aging elevators and escalators don't just decline in performance — they suffer in appearance. You see it clearly, and so do prospective tenants.

With thyssenkrupp's modernization packages, you'll pick from a variety of design and aesthetic upgrades. Your equipment will look like new.



Choose from either or both modernization Advantage packages to add performance, reliability and efficiency with fewer hassles.

Accelerated Install Package

Whether it's adding crew or working more hours, we'll make the modernization process faster and more convenient. In some instances, our crews can complete your job over the weekend.

Sounds enticing, right?

Project Management Package

Your job is to manage the building, not to modernize the elevators. From the moment our crew arrives, to the moment the inspector leaves, you'll have a dedicated project manager taking care of everything with your upgrade. That includes electrical, HVAC, finishes and code compliance. We even manage the scheduling and payments to subcontractors required to complete the job.



The power to get it done.

Let's face it: a modernization is more complex than a new installation. You need to know someone is here for you if an issue comes up.

Relax. We support you through the entire modernization process — from planning through completion. In addition, our online support tools are available 24/7.

Online tools:



Elevator Finder Learn which elevator is right for you.



Elevator Specification Generator Get elevator specifications based on your requirements and design features.



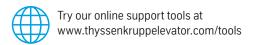
Create-A-Cab Build your cab interior with our simple configuration tool.



Energy Calculator Learn your potential energy consumption and costs.



Service Portal
Access your service account using our portal.



Our core principles.

We deliver.

Reliable and high-quality products, services and solutions with precision and a We understand. We innovate. superior cost-benefit ratio. We listen, make suggestions, and We strive to find technology and business co-develop with our customers. solutions that cater to future customer needs. engineering. tomorrow. together. We are leading the way. We build on strong experience. We act with foresight and a solutionoriented mindset to progress our Our expertise is based on over customers, employees and other 40 years of engineering competence. stakeholders.

We act as a reliable partner.

We act in an honest, authentic and responsive manner towards customers, employees and other stakeholders.

We empower our employees.

We live an innovation culture based on respect and efficient collaboration.

1,100,000

customers in 150 countries

50,000H_{employees}

Always there.

Our passionate goal is to always be there to secure the reliability of mobility equipment, ensuring it provides each passenger with the safest and most comfortable travel experience, thereby helping to make cities the best ever places to live.

900

service available for customers

27,000 H service technicians

Elevator Technology

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