



TWIN: BUILD BEYOND COMPROMISE

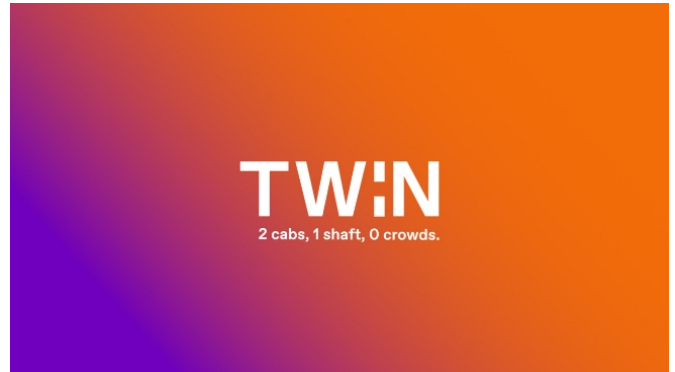
2 cabs. 1 shaft. 0 crowds

MOVE BEYOND

WELCOME TO TWIN

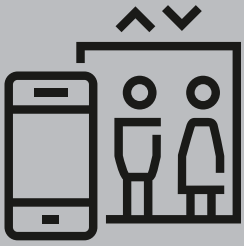
First launched in 2003, TWIN is a one-of-a-kind solution that gives you the same conveyance capacity as a traditional elevator in up to 50% less space (depending on the building configuration). A proven global performer for over 20 years, it remains the only elevator featuring two independent cars in the same shaft – and its evolution continues!

Today's TWIN is digitally native, AI-ready, eco-efficient and optimized with industry-leading chip technology to deliver smarter decision making and real time performance improvements. Part of TKE's comprehensive, digital-first approach, it can be integrated with other mobility solutions from our portfolio – such as HELIX, double deck and EOX – to set new benchmarks for uptime and availability, flexibility, efficiency, and resilience in vertical transportation.



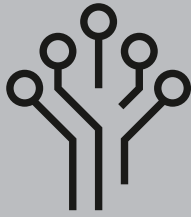


Why choose TK Elevator?



A complete customer solution

TKE offers an unparalleled portfolio of elevator technologies and industry-leading support services. The TK Elevator team works with you to create the most efficient mobility solution for your building.



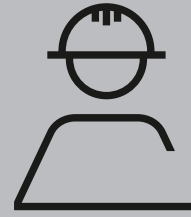
Data-driven and future-ready

Our next-generation, AI-driven, digital-native platform is ready to scale and grow with the future. Digitally connected technologies enable perfectly adapted traffic flow for efficient buildings and enjoyable passenger experiences. The technology also supports a complete ecosystem for predictive maintenance, remote management and performance, resulting in improved uptime and availability.



Unparalleled project support

TKE's experienced experts support customers with state-of-the-art digital tools and advanced simulation models, powered by our own proprietary algorithms. From traffic analysis to dimensional optimization, energy modelling, and dynamic dispatcher optimization, our teams will help you to design the optimal mobility strategy and provide professional assistance throughout the lifecycle of your project.



Expert installation teams

Complex elevator projects demand specialized installation teams, uncompromisingly safe workflows, and reliable, field-proven tools. TK Elevator's certified installation experts offer unparalleled installation service quality across our offering, backed by proprietary quality assurance tools and decades of hands-on experience.



Certified cybersecurity

Our next-generation digital platform is certified to the latest cybersecurity standard (IEC 62443 /ISO 8102-20) to protect against cyberattacks and unauthorized access to the lift controller. This is crucial to maintain safety, reliability, and operational continuity.

Designed to take your building into the future

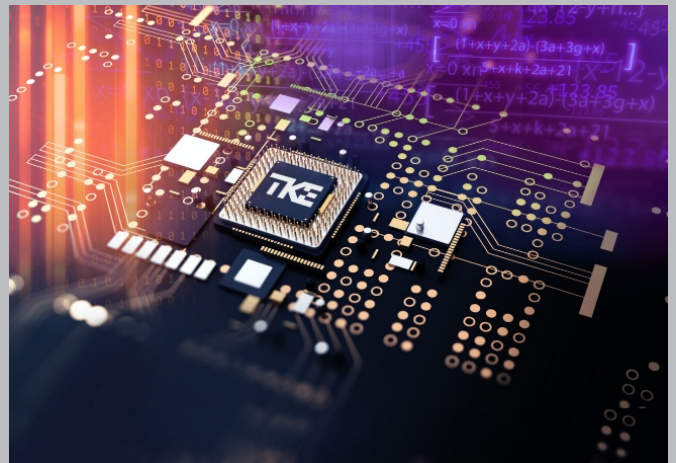
With its unique system featuring two independent cabins in one shaft, TWIN helps building designers and owners to optimize flows, free up rentable space, and reduce running costs. Thanks to its enhanced, digital-first technologies, it is also enhanced with adaptive technologies, intelligent systems, and energy efficient solutions – all working together seamlessly for unprecedented precision, transparency, and lifecycle performance.

Digitally Native and AI Driven

TWIN connects securely to the cloud and leverages embedded, people-centered AI across its full lifecycle. Its dynamic dispatcher algorithm predicts traffic, recognizes passenger behavior, and continuously refines dispatching decisions – learning daily patterns and adapting in real time. This reduces average waiting and travel times while ensuring optimal performance during peak periods. And with over-the-air (OTA) updates, the system stays state-of-the-art without requiring hardware rollouts.

Open integration and future readiness

TWIN supports open API integration with building platforms (BMS, access control, security) and is part of the same digital ecosystem as our AGILE and MAX products. This enables a host of benefits, from touchless calls and mobile credentials to portfolio-level analytics, ready to scale as tenant needs evolve.





Predictable, data-led operations with integrated MAX features

TWIN streams health and performance data to the integrated MAX for predictive maintenance, remote diagnostics, trend analysis, and KPI reporting. Elevators are transformed into intelligent, managed systems that improve reliability and can extend asset life.



Heightened efficiency and passenger experience

Every component is optimized for smooth, precise performance. Quick, reliable door operation, absolute speed and positioning measurement, and AI coordination contribute to superior ride comfort. Integrated AGILE Infotainment and a range of cabin, entrance, finish, and accessory options enable extensive personalization and design consistency across elevator systems.



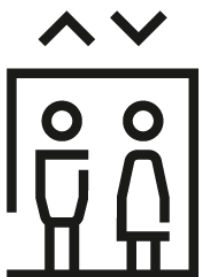
Efficient and eco-friendly

Regenerative drive technology captures energy from braking and feeds it back into the building grid. Energy reports, accessed via the customer portal, provide insights into actual consumption and recuperated electricity. The AI dispatcher algorithm dynamically adapts performance to demand so that energy can be used more efficiently. TWIN also features 100% LED lighting and a Standby mode that automatically switches off components when the elevator is idle.



TWIN benefits for your business

With two cabins operating in the same shaft, TWIN revolutionizes efficiency standards in buildings. It contributes to a more enjoyable passenger experience by reducing waiting times, especially in facilities with shared spaces on multiple levels, such as hotels, office buildings, and hospitals.



Handle more traffic

Whether used in new buildings or as part of a modernization project, TWIN can transport up to 40% more passengers compared to a conventional elevator system. It allows building owners to create an optimized and future-proof mobility concept for their project.



Save costs

TWIN drastically cuts labor and materials expenses by sharing a single shaft, guide rails, and landing doors. It reduces the footprint required for elevators, potentially increasing leasable space in the building and/or reducing construction costs. In combination with lower running costs, this contributes to sustained return on investment for years to come.



Reduce energy consumption

During low passenger volumes, TWIN can park one cabin while the second cabin stays in operation, ensuring that no energy is consumed by moving empty cabins. TWIN elevator systems are also equipped with an energy recovery function which feeds the energy generated by braking back into the building's power grid.



Safe two-cabin operation

TWIN applies a four-layer safety concept to maintain a safe distance between the two cabins sharing a shaft. Measures include intelligent allocation through the AGILE destination selection control, automatic monitoring of cabin separation distances, an emergency stop function and, as a final safeguard, automatic safety gear activation. The system is fully certified by the German TÜV inspectorate.

EFFICIENCY WITH PRECISION: HOW TWIN WORKS

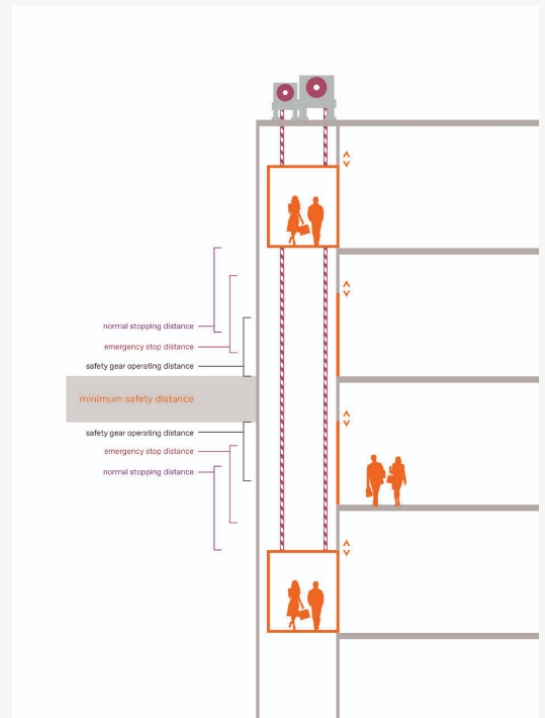
With rapidly growing urban populations, efficient mobility in buildings is no longer a luxury but an absolute necessity. TWIN is engineered to optimize building footprints, minimize wait times, and enhance the flow of people throughout the building.

Specifications at a glance

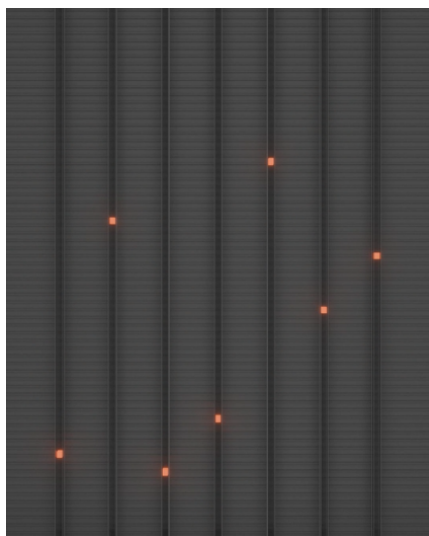
Travel height	up to 250 m
Speed	from 3.0 m/s up to 7.0 m/s
Capacity	up to 1,800 kg*

*Higher rated load available upon request

The TWIN system features two cabins operating independently in one shaft, always at a minimum safety distance from each other. Each of the cabins has its own traction drive, controller, ropes, counterweight and governor, but they share the same guide rails and landing doors. This unique arrangement saves space in the building core.

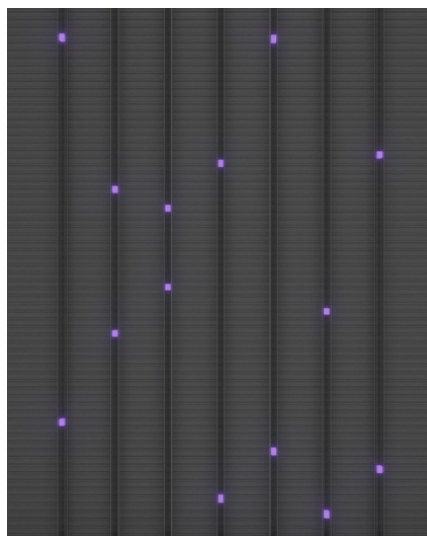


Dynamic High-Rise



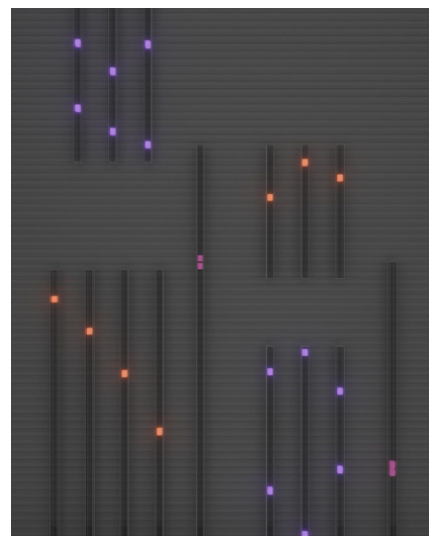
Conventional Approach

Single deck solution
1 cabin in 1 shaft



TWIN solution

2 independently moving cabins in 1 shaft.
TWIN gives you more handling capacity
and more flexibility.



Combined High-Rise solution

TK Elevator can offer your high-rise building the appropriate vertical transportation solutions, combining high-speed HELIX, double deck and TWIN elevators.



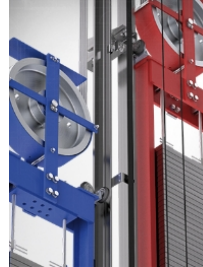
Leaving nothing to chance

Safety is standard with TWIN — We provide four levels of safety to prevent two TWIN cabins in the same shaft from getting too close to each other.



Intelligent allocation of calls

Requests are always distributed by the destination selection control so elevator cabins do not obstruct each other and a minimum distance is always observed.



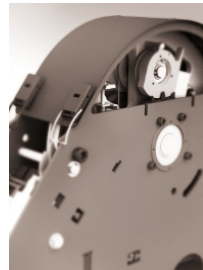
Monitoring of minimum safety distances

The minimum separation of the cabins is monitored automatically to ensure the cabins are kept at a safe distance.



Emergency stop function

If the safety distance is breached, the system shuts down the drives, activates the brakes and triggers an emergency stop for both elevator cabins.



Automatic engagement of the safety gear

In the unlikely event that the first three safety stages fail, the safety gears of both the elevator cabins are activated. It is not possible for the elevator cabins to make contact.

Approved safety

- TWIN is in compliance with ASME A17.7/CSA B44.7; A17.7 specifically intended for new elevator technology and practices.
- Safety levels 3 and 4 are monitored by an independent control system according to EN81-20/50 PESSRAL – giving TWIN the highest safety classification: Safety Integrity Level 3 (SIL3).
- System satisfies the regulations in accordance with elevator directive 2014/33/EU and EN 81-20/50 (EU Type examination for safety components) and approved code deviations (by TWIN EU design examination).
- Fully certified by the German TÜV inspectorate.

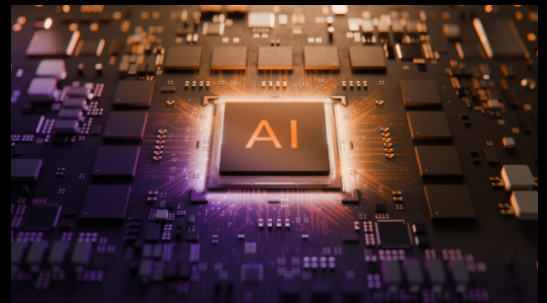
AGILE DISPATCHER: NEXT GENERATION FLOW MANAGEMENT

Building usage patterns evolve over time, often in ways that could not be anticipated in the original design. TK Elevator's new smart AGILE Dispatcher enables elevators to respond dynamically to new situations, increasing uptime and availability, maintaining ride quality, and optimizing energy efficiency.

Its advanced algorithms learn, adjust, and react intelligently, instantly adapting controllers and call allocation logic to keep passenger journeys smooth and predictable.

AI inside

With AI-driven destination controls, algorithms dynamically adjust dispatching based on real-time utilization, elevator configuration, and traffic patterns. The system also continuously analyzes and benchmarks its own performance to detect potential improvements. Its unified core algorithm means that AGILE Dispatcher can be applied across all TKE elevators and all control types, including DSC, conventional and booster/hybrid.



Boost Motion door acceleration

To decrease average waiting and transit time, AGILE Dispatcher automatically shortens door dwell times as needed (e.g. if people are exiting but no new passengers are entering the cabin). The system can also detect and ignore false calls, such as calls in the wrong direction.





AGILE: Your integrated digital suite

The TK Elevator AGILE range contributes to an outstanding passenger experience with tailored aesthetics and smart mobility functions. With a wide range of API connectivity solutions, AGILE is easy to integrate and connects seamlessly to your security systems. It supports multiple configurations, including conventional, hybrid, booster, destination selection controls, and third-party controllers.

The result is a fully integrated mobility experience — intelligent, elegant, and tailored to every high-rise environment.

AGILE Destination Controls

The TKE intelligent dispatching system makes travel faster and more convenient by directing people to the elevator that will get them to their destination in the most efficient way.



Step 1: Passengers select their floor via the customizable touchscreen.

Step 2: The system groups passengers for the most efficient travel and directs them to their assigned elevator via the terminal.

Step 3: Passengers are transported to their designation with minimum stops.

AGILE Access



Streamline the journey right from the building access turnstile with smartphone-enabled elevator calls, touchless operation, and tailored designs.

AGILE Infotainment



Enhance your elevator cabins and keep passengers up to date with the news, weather, location status, alerts, and more. AGILE multimedia displays are fully customizable – you can even configure widgets for specific news categories such as lifestyle or sports.



MAX: SEE BEYOND DOWNTIME

MAX, TK Elevator's cloud and IoT-based solution for optimizing building operations takes elevator availability, reliability, and efficiency to new heights. In a MAX-connected building, elevator owners, users, and facility managers get increased uptime, more transparency, and prolonged unit lifetime.

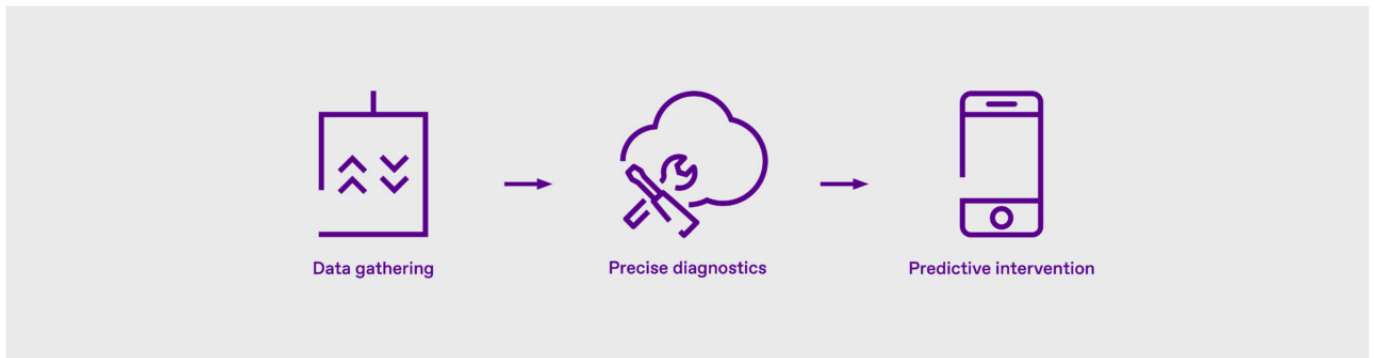


Predictive maintenance

Smart maintenance optimizes reliability, passenger safety, and system durability while decreasing overall running costs. Throughout its evolution, MAX solution has maintained the same goal: to maximize the uptime of connected elevators and escalators. Today, the combination of cloud technology, Big Data, and advanced machine learning makes it an invaluable asset for high-rise buildings.



How smart maintenance works with MAX



TWIN IN NEW BUILD AND MODERNIZATION PROJECTS

TWIN offers versatile solutions to enhance traffic capacity, whether combined with other elevator systems in a new building or installed in an existing elevator shaft during building modernization.

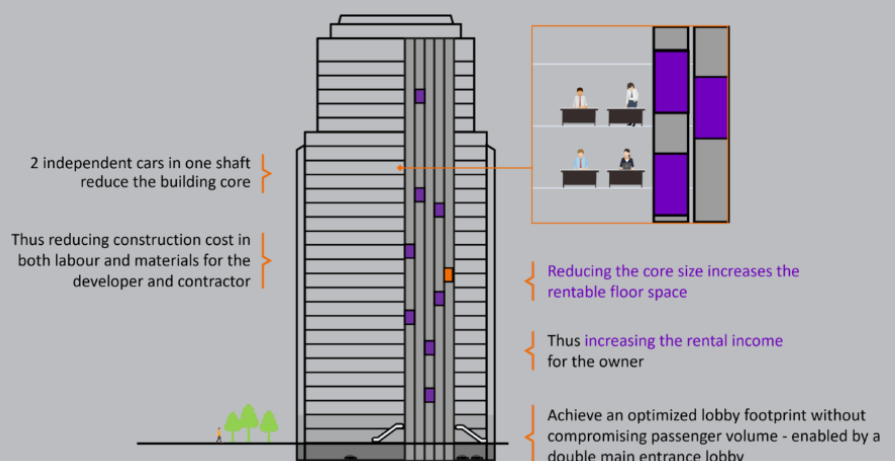


A future-ready choice for new installations

Two independent cabins in one shaft reduce the building core. This reduces labor and material costs for developers and contractors. Reducing the core size frees up rentable floor space, increasing rental income for the owner. TWIN, with its spacious double main entrance lobby, ensures comfortable lobby space for all passengers at all times, even with the reduced elevator lobby and shaft footprint.

- Significantly increase handling capacity with fewer elevator shafts compared to conventional elevators.
- Save money by reducing the construction needed to build more elevator shafts.
- Increase your leasable space

Configuration example: 8 Single Deck (SD) with 8 cabins can be replaced by 4 TWIN + 1 HELIX. The result is an increased handling capacity with better entry and exit capacity while reducing elevator shafts footprint.



A flexible approach to modernization projects

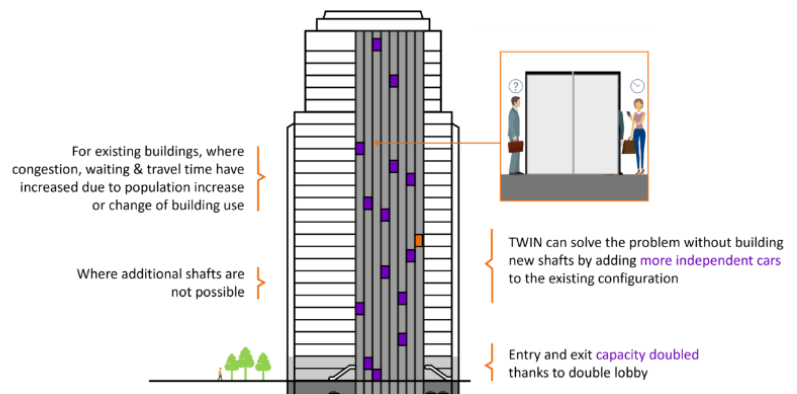
Maximize the performance of your building. Transport more passengers with two elevator cabins operating in a single shaft. TWIN increases handling capacity and enhances passenger comfort, making it ideal for buildings where existing elevators no longer meet growing demand. By reducing the number of elevator shafts required, valuable floor space is freed up and can be repurposed for essential building services. Whether you need additional space for advanced data infrastructure, for the installation of modern air-conditioning systems or for additional VIP or fire fighting lifts, this solution helps you unlock the full potential of your building while future-proofing its vertical transportation capabilities.

Three ways to modernize

Increase capacity with the same number of shafts

Challenge: Congestion, waiting and travel times have increased due to a population increase or change of building use, but additional shafts are not possible.

Solution: TWIN can solve the problem without building new shafts by adding **more independent cabins** to the existing configuration. Entry and exit **capacity is doubled** thanks to a double lobby.



Configuration example: 8 Single Deck (SD) with 8 cabins can be replaced by 7 TWIN + 1 HELIX. The result is 15 cabins with the same footprint.

Increase capacity with one shaft repurposed

Challenge: Congestion, waiting and travel times have increased due to a population increase or change of building use. Additional shafts are not possible and the customer needs additional space for technical items such as HVAC, data cables or even additional VIP or fire fighting elevators.

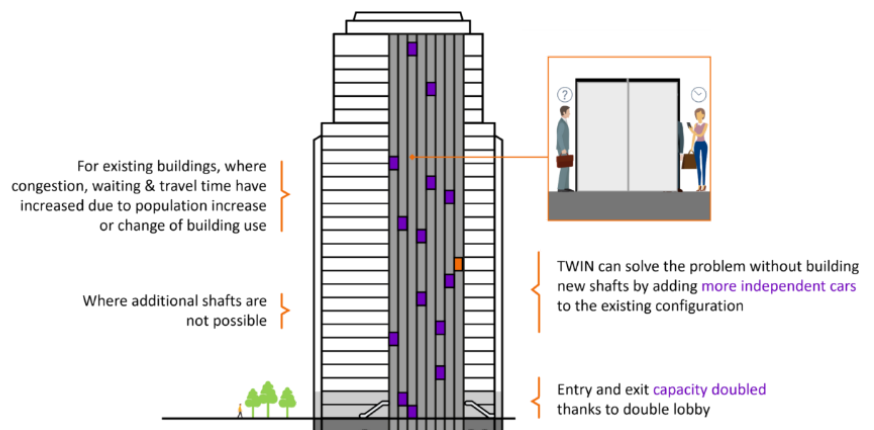
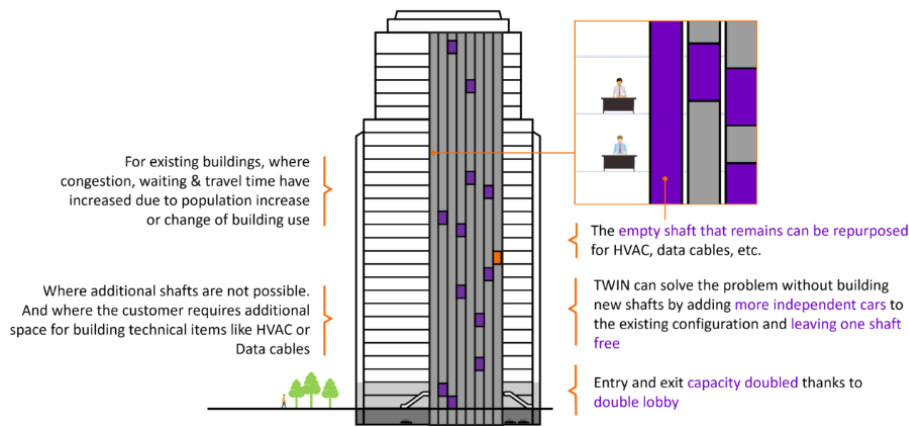
Solution: TWIN can solve the problem without building new shafts by adding more independent cabins to the existing configuration and leaving one shaft free. The empty shaft that remains can be repurposed for HVAC, data cables, etc. Entry and exit capacity is doubled thanks to a double lobby.

Configuration example: 8 Single Deck with 8 cabins can be replaced by 6 TWIN + 1 HELIX + 1 empty shaft. The result is 13 cabins + 1 shaft which can be repurposed for cables or other building equipment.

Increase capacity by extending the building height

Challenge: Congestion, waiting and travel times have increased due to a population increase or change of building use. The building is to be extended with additional levels and additional shafts are not possible.

Solution: TWIN can solve the problem without building new shafts by adding **more independent cabins** to the existing configuration. Entry and exit **capacity is doubled** thanks to a double lobby.



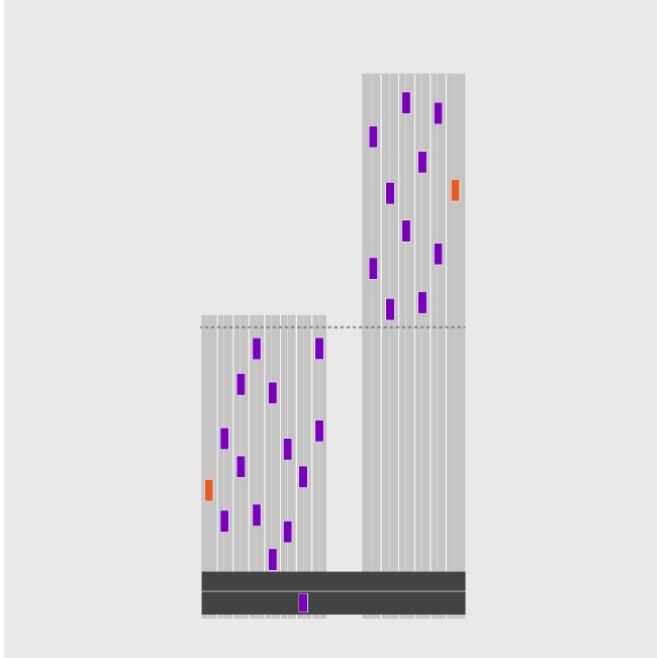
TWIN IN HIGH-RISE PROJECTS: PLANNING FOR ELEVATOR GROUPS

For buildings exceeding 35 floors, a recommended elevator configuration typically includes different elevator groups for low-, medium-, and high-rise levels. In very tall buildings, configurations using distribution floors and transfer levels as well as shafts “stacked” one above the other are recommended. The groups serving the upper zones are stacked above those serving the lower zones and are accessed by taking express elevators from the ground floor to transfer levels, where they are distributed to the appropriate local elevator.



For incoming and outgoing traffic, the TWIN system divides the shaft into virtual zones in the area where both elevator cabins can move independently of one another. Passengers with their destination in the upper zone of the shaft enter the upper elevator cabin via the upper lobby. The same principle applies to the lower elevator cabin and the lower zone of the shaft. For all other traffic (interfloor traffic), the virtual zones are “opened” and both TWIN elevator cabins serve the complete shaft.

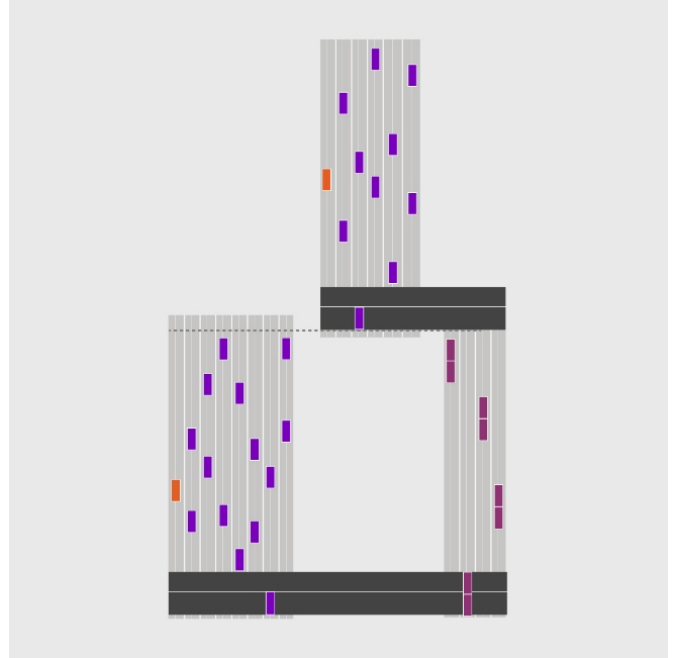
When used to serve local groups in this way, TWIN raises the benchmark for building efficiency and traffic performance. In an optimized configuration, double-deck shuttles can feed two sky lobbies simultaneously, while independent TWIN cabins dynamically distribute passengers to their destinations. This strategy minimizes shaft requirements and avoids issues such as stack effects, building sway, crowded lobbies, and phantom stops.



Above configuration includes:

Low-rise: 1 HELIX + 7 TWIN

High-rise: 5 TWIN + 1 HELIX



Above configuration includes:

Low-rise: 1 HELIX + 7 TWIN

Shuttle: 4 double deck

High-rise: 1 HELIX + 5 TWIN

TK Elevator has a High-Rise Competency Center headquartered in Esslingen, Germany who collaborate with global experts to analyze your project's passenger traffic cycles and will optimize the shaft, elevator and escalator requirements for your building. With over 20 years of accumulative experience, our experts have analyzed and provided solutions for some of the most complex High-Rise projects globally.

Build beyond limits: Dynamic High-Rise by TK Elevator

TWIN is fully integrated with TK Elevator's new, digital-first approach to High-Rise mobility, designed to meet the performance and reliability demands of modern skyscrapers. The framework combines advanced engineering with connected, AI supported technologies to enhance uptime, availability, efficiency, and overall system resilience.

Dynamic High-Rise unifies TKE's extensive range of high-rise solutions, from single-deck and TWIN systems to double deck shuttle configurations, Shaft Climber for construction phases, and additional specialized applications. By integrating these technologies into one coordinated platform, Dynamic High-Rise provides developers, architects, and consultants with broader design flexibility and a more streamlined approach to vertical mobility planning.

Discover Dynamic High-Rise

SPECIFICATIONS

Overview TWIN	
Elevator type	High-rise elevator with two independent cabins in one shaft, with machine room
Applications	High-rise buildings of all categories, such as premium residential, office, hotel, retail, healthcare and education
Load	1250 / 1350 / 1600 / 1800 kg*
Speed	3.0 / 4.0 / 5.0 / 6.0 / 7.0 m/s for each cabin
Travel height	max. 250 m
Number of stops	max. 80 stops
Cabin	Predesigned and custom cabin options
Door type	Central opening with 2 panels
Door opening width	900 / 1000 / 1100 / 1200
Door height	2000 / 2100 / 2200 / 2300 / 2400 / 2500 / 2600 / 2700 / 2800**
Cabin height	2400 / 2500 / 2600 / 2700 / 2800 / 2900 / 3000***
Floor to floor distance between the two entrance floors (lowest floor)	standard = 6000 mm****
	reduced = 4500 mm****
Energy efficiency	Regenerative drive
	Standby-, sleep-, and eco-mode
Digital components	IoT-enabled and AI-embedded computing hardware
	Smart sensors including AI-read computing hardware
	Integrated access control with AGILE Access to 3rd party
	MAX Monitoring on premise
	Certified cybersecurity
Passenger experience	In-cabin multimedia display with AGILE infotainment
	Boost motion door acceleration
	AGILE Destination Controls intelligent dispatching

*higher rated load available upon request

**higher door height available upon request

*** higher cabin height available upon request

**** assuming max. cabin height of 2600mm and door height of 2400mm – please contact your TK Elevator representative for other combinations.

ABOUT TK ELEVATOR

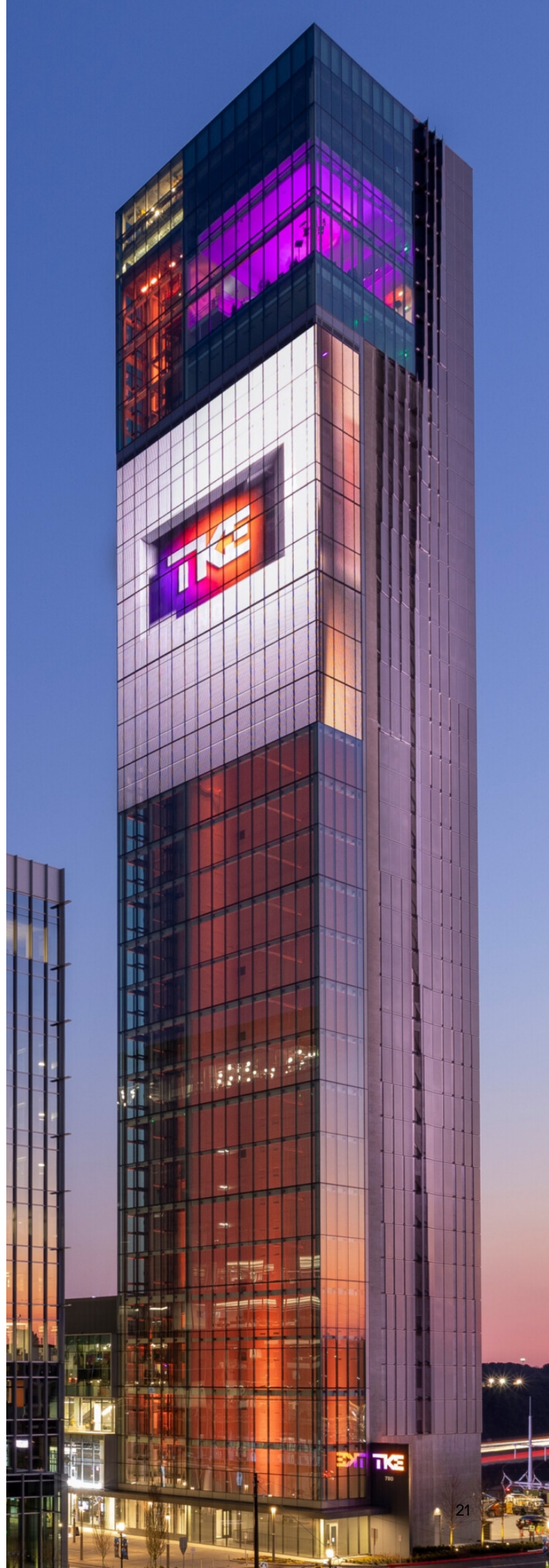
We are elevator people. Striving to move the world. Known for a passion for technology with service at the heart of our business.



Over the past decades, TK Elevator has established itself as one of the world's leading elevator companies and became independent after its sale by thyssenkrupp AG in August 2020. To our customers in over 100 countries, we provide an extensive service network that guarantees close proximity, with more than 1,000 locations and over 50,000 employees. TK Elevator's most important business line is our multi-brand service for mobility solutions represented by over 25,000 service technicians.

Our new installation product portfolio ranges from commodity elevators for residential and commercial buildings to cutting-edge, highly customized solutions for state-of-the-art skyscrapers. What's more, it also consists of escalators and moving walks, passenger boarding bridges, stair and platform lifts. Integrated cloud-based service solutions are gaining in importance. These digital offerings mean there are no longer any limits to urban mobility.

TK Elevator. Move beyond.



Advancing mobility and eco-transparency

The commitment to sustainable mobility is an integral part of TK Elevator. It determines how we work – starting with product design and extending to improved transparency and greater commitment along the entire value chain, including in production, installation, operations, and maintenance. Being one of the world's leading elevator companies, we are dedicated to driving innovation and continuous improvement, all in close partnership with our stakeholders.



Our efforts are recognised by ...



CDP A-list

TK Elevator is recognised in the acclaimed A-list published by the global non-profit organisation CDP.



EcoVadis

We were awarded the EcoVadis gold medal, with TK Elevator now ranking among the top 5% of all companies currently assessed by the sustainability rating agency.



Supplier Engagement Leader

We were recognised by CDP as a “Supplier Engagement Leader” for taking action to measure and reduce environmental risks within our supply chain.



UN Global Compact

TK Elevator is a signatory of the UN Global Compact.



Global Elevator Safety Forum

TK Elevator is a co-founder of the Global Elevator Safety Forum to pursue a safe industry without accidents.



Member of RE100

We joined the worldwide RE100 (Renewable Electricity) initiative and committed to only use renewable electricity across our global operations by 2030.



The Science Based Targets

The Science Based Targets initiative approved TK Elevator's emission reduction targets as being consistent with the levels required to meet the goals of the Paris Climate Agreement.

We put our ESG commitments in writing – with full transparency

TK Elevator's sustainability report provides an overview of our progress as well as the clear commitments we have made with regard to environmental protection, social responsibility, and governance (ESG). We embrace the challenges of sustainability and are committed to leading the way in creating environmentally friendly mobility solutions. Find the TK Elevator Sustainability Report on our website.





TKELEVATOR.COM

Dynamic High-Rise digital brochure v06/03/2026

The details quoted in this brochure can only be viewed as binding when confirmed expressly in writing. Reproduction and storage only with authorization of TK Elevator. Colours, options and specifications are subject to change. Provision of all digital (software) services is dependent on an active maintenance contract with TK Elevator. All cabin design and multimedia display options shown in this brochure are for illustrative purposes only. Samples shown may vary from the original in colour and material. Patterned samples are not to scale. Your TK Elevator contact will gladly provide you with real material samples.