TWIN® Elevator
Two cabs, One shaft, No crowds

Office  Hotel  Retail  Hospital  Education

ThyssenKrupp Elevator
Extraordinary engineering, a highly developed control system and an exemplary safety concept are united in the revolutionary TWIN elevator system.

An intelligent control system coordinates elevator movement within the shaft. The latest safety technology constantly monitors the movements of both cars to keep them a safe distance apart.

This technology, exclusively supplied by ThyssenKrupp Elevator, was made possible by our world class research and development facilities around the world.

Back to the future

The idea of having an elevator with two cabs operating independently in the same shaft is not a new one – the original idea dates back to 1931. But it took our 21st century technology to make the idea viable and turn it into reality.
Two cabs are better than one

As the Asian building boom continues, floor space in high rise buildings is more valuable than ever. With conventional elevators, the higher the building, the larger the lift core required. This means that less floor space is available for other uses.

By providing two cabs in one shaft, TWIN helps make sure that valuable space is put to the best possible use for building owners and end users alike.

The TWIN system’s design can be tailored with optional features to fit your project precisely, whether it is a hospital, an office building or a university.
Reduce queuing times

The intelligent Destination Selection Control (DSC) is the brain that powers TWIN. It allocates calls to individual elevators in an optimal way.

By getting passengers to enter their desired destination floor on a key-pad in the elevator lobby, before entering an elevator, our DSC system can group passengers with the same destination and assign them to the same car.

Journeys that are frequently interrupted by one or two passengers entering and exiting the elevator at intermediate stops, thus delaying your arrival at your destination floor, are kept to a minimum with our intelligent control system.

Additional functions can also be incorporated, including pre-programmed journeys using a swipe card or numeric PIN code, corporate branding on the touch screen terminal graphics and VIP/emergency call overrides to gain immediate access to an elevator. And if you need to restrict access to certain areas in your building, DSC can help with this too.

CJ E&M Centre, Korea
High flyers have high expectations

TWIN moves busy executives around new office buildings smoothly, swiftly and stylishly.

Save space through reducing the number of shafts:
— Reduce total construction volume needed
— Make additional floor space available, maximising rental yields

Increase handling capacity within the same number of shafts:
— Boost the number of passengers the system can transport at once

Advantages of TWIN if installed as part of a modernisation of an existing building.

Increase handling capacity within existing buildings:
— Great for increasing capacity as the building use changes

Free up elevator shafts for other types of use:
— When installing new technology (such as air conditioning, wiring etc)
— While keeping (or even increasing) the total passenger handling capacity the same as before
Two independent cars in one shaft save space, and time too

Two independent cars are arranged on top of each other in one shaft using the same guide rails and landing doors.

Each elevator has its own traction drive, controller, ropes, counterweight and governor.

Both cars move independently in the shaft, including travelling in opposite directions and with different top speeds. However, they are always kept a minimum distance apart to ensure passenger safety.

Best traffic results are achieved, if there are two main access levels to load both cars at the same time.

How do my tenants get directly from the bottom floor to the top floor if we just have one access level?

Each group of TWIN elevators should have at least one shaft with a single car. Then the DSC will assign passengers travelling between the highest and lowest floors to be served by the single car.
Conventional elevator system

TWIN saves space by eliminating a shaft
Leaving nothing to chance
Safety comes as standard with TWIN

How do we prevent two TWIN cabs in the same shaft getting too close to each other?

By using a quadruple redundant safety system we provide four levels of safety:

1. Intelligent allocation of calls
2. Automatic monitoring of minimum safety distances
3. Emergency stop function if the safety distance is breached
4. Automatic engagement of the safety gear in the very unlikely event that the first three stages fail

Safety level 3 and 4 will be monitored by an independent control system according to IEC EN 61508 – giving TWIN the highest safety classification of Safety Integrity Level 3 (SIL3).
Fully approved following rigorous testing

The TWIN system has been fully certified by the German TÜV inspectorate – the most stringent and rigorous safety standard an elevator can attain.
How TWIN can help you

Optimise floorspace
TWIN enhances elevator efficiency by achieving the same performance as conventional elevators using less shafts. For building owners, this means a major gain in usable and lettable floor space or a corresponding reduction in building volume and construction costs.

Handle more traffic
Whether used in new buildings or as part of a modernisation project, TWIN can substantially increase the performance capacity of single or multiple elevator shafts. 40% more passengers can be transported, increasing the utility of the building significantly.

Save money
TWIN is extremely cost-efficient. The elevator cabs are traction elevators assembled from standardised components. With their own drive sheave and counterweights, they travel independently of each other on the same guide rails. For a small amount of additional effort on installation, TWIN pays dividends for years to come for any building over 50m in height.
Environmentally friendly products

Helping you do your bit towards making the planet more sustainable

Reduce energy consumption
When passenger volumes are low during off-peak periods, one of the cabs can be parked on the lowest or highest floor while the other remains in operation. Not something that can be done with a double-deck lift system.

Even when only one person is traveling, a double-deck lift system has to move a double sized car and counterweight, but TWIN can operate with just one.

Furthermore, all TWIN elevator systems can be equipped with an energy recovery function which can feed about 30% of the energy back into the building’s power grid.

30% Energy Recovery
ThyssenKrupp Elevator (India) Pvt. Ltd.
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