



SYNERGY 200  
LU

LU The flexible and versatile  
elevator for residential and  
commercial buildings



# COVERING ALL YOUR NEEDS, COMMERCIAL & RESIDENTIAL



synergy 200 is TK Elevator's flexible and versatile solution for residential and commercial buildings with up to 20 stops.

With its reliable performance, high-quality materials, proven components and outstanding space and energy efficiency, synergy 200 meets the highest demands throughout its broad application range. synergy 200 adds value to any low-to-mid-traffic comfort and premium residential building, as well as functional commercial buildings such as offices, hotels, retail and healthcare facilities. Thanks to its flexible cabin dimensions, synergy 200 is also a perfect fit for modernisation projects requiring a full replacement.

Choose synergy 200 and trust in TK Elevator's expertise. Our excellent service ensures maximum availability, resulting in increased user satisfaction and the long-term protection of your investment.

## OVERVIEW SYNERGY 200

<b>Elevator type</b>	Machine room-less, optional machine room
<b>Load</b>	320 / 450 / 630 / 825 / 1,000 / 1,000 / 1,150 / 1,275 / 1,600 kg
<b>Speed</b>	1.0 / 1.6 / 1.75 m/s
<b>Travel height</b>	Up to 75 m
<b>Number of stops</b>	Up to 20 stops
<b>Cabin</b>	Predesigned from design lines A and B / Custom-fit solutions
<b>Door types</b>	Side-opening with 2 or 3 panels / Central-opening with 2 or 4 panels
<b>Door opening width</b>	From 700 mm to 1,300 mm and 1,800 mm
<b>Door height</b>	2,000 / 2,100 / 2,300 mm



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## Our product portfolio



### synergy 100

Pure and efficient. The ideal lift for functional residential buildings. Timeless design, quality components and outstanding price-performance ratio.



### synergy 200

Flexible and versatile. Our elevator with the broadest application possibilities, ranging from residential to commercial buildings with up to 20 stops.



### evolution 200

The high-performance elevator of choice for mid-rise commercial buildings that require up to 100 m travel height and maximum reliability.



### evolution 300

Powerful and customisable. Ideal for mid-to-high-traffic commercial buildings with heavy-duty performance and custom-fit design requirements.

# Flexibility, efficiency and versatility in one elevator



## Adapting to your architecture

Whether you choose standard dimensions for the shaft overhead and pit or require reduced dimensions for your project – synergy 200 is scalable to your needs. In addition to the range of standard cabin dimensions, you can match the cabin size to the shaft in 10 or 100 mm steps. With that, synergy 200 is also a convincing choice for a retrofit or full replacement.



## A-rated energy efficiency

synergy 200 offers several standard features that keep energy costs in the green range, such as LED lighting in the cabin as well as the shaft, automatic stand-by operation and an efficient, gearless machine made in Europe, where our manufacturing centres operate on 100% renewable energy. Naturally, synergy has been awarded a Class A rating for energy efficiency.



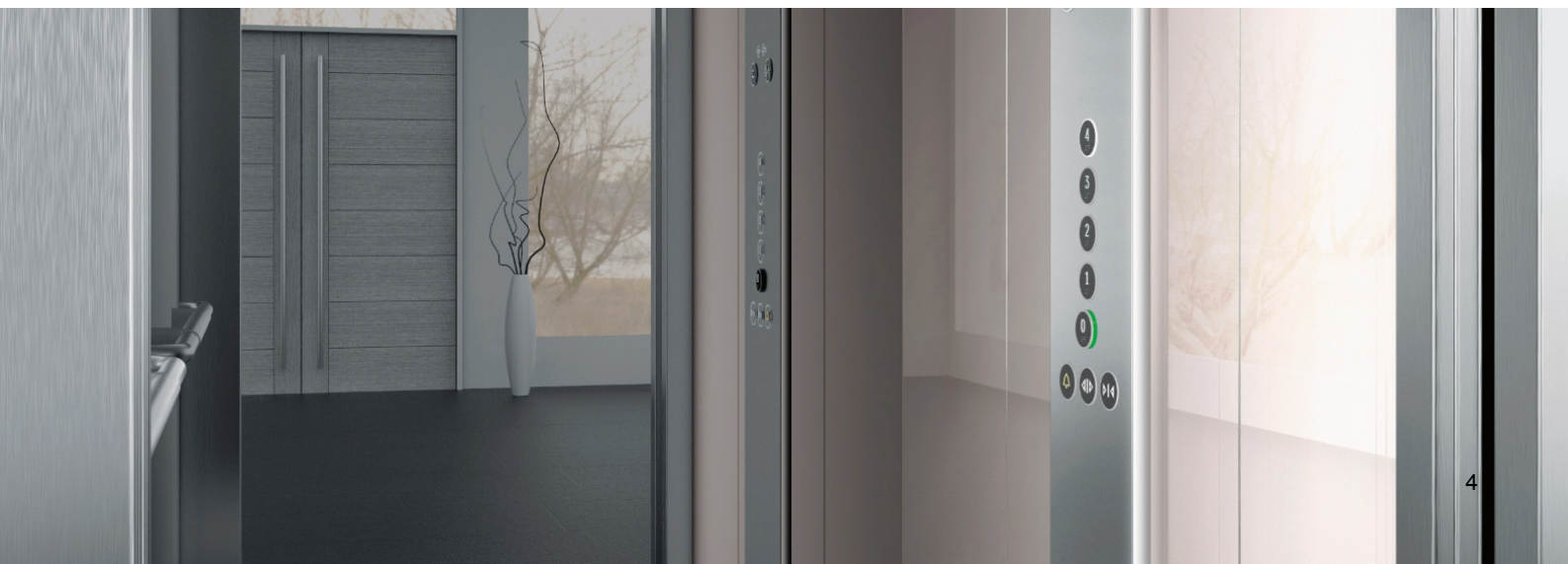
## Ready for commercial use

No matter if your next project is an office, hotel or other functional commercial building, synergy 200 delivers all the required features. From the flush-mounted IL variable cabin operating panel to a 1.75 m/s system layout with sling and roller guides for an extra-smooth ride. And with up to 1,600 kg in rated load, it is suitable for just about every low- to mid-traffic situation up until usage category 3, according to ISO 25745.

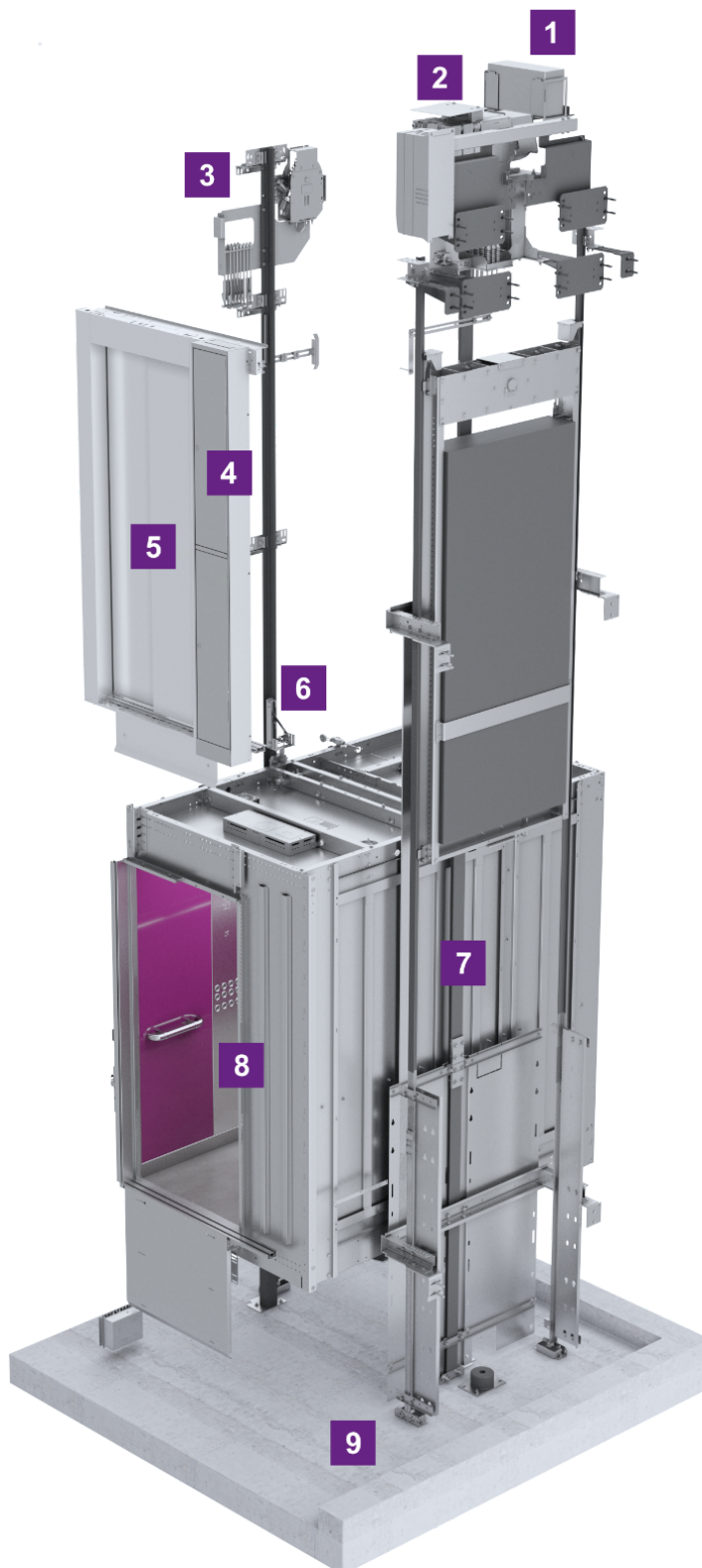


## Best-in-class customer care

When it comes to the installation and subsequent service of your synergy 200, we strive to be as reliable and safe as our product. A professionally managed and well-executed installation will be followed by years of quality maintenance performed by our well-trained and digitally equipped experts from a regional TK Elevator branch near you.



# One elevator. Many benefits.



1. Regenerative drive (optional)
2. Gearless machine
3. Reduced overhead (optional)
4. Versatile controller
5. Choice of doors
6. Extra-smooth ride
7. Flexible cabin dimensions
8. Stylish cabin design
9. Reduced pit and extra-reduced pit (optional)



# Performance in tune with your building

All over Europe more than 90,000 synergy elevators are up and running every day. synergy 200 is the powerhouse of this successful product family – engineered to provide reliable mobility that your passengers can always count on.



## Highly efficient gearless drive

Ultra-reliable performance, low energy consumption and non-contaminant lubricants – this is what you get with all synergy 200 drive units. The most powerful machine can handle mid-traffic situations in commercial buildings that require up to 500 starts per day, and also delivers a steady performance during occasional traffic peaks with up to 180 starts/hour.



## Intelligent controller

The CMC4+ 20/50 controller ensures reliable and safe operation of the elevator. It reduces energy consumption by intelligently avoiding empty rides and switching components to stand-by during idle time. Must-have options for the commercial segment, such as VIP travel, pre-opening of doors and connectivity to building management systems, are readily available.



## Impressive range of doors

synergy 200 offers a range of door types, material finishes and opening sizes that leaves nothing to be desired: from the prime painted functional to premium stainless steel finishes to elegant steel-framed glass doors, lateral or central openings, and a door width of up to 1,800 mm for the largest 1,600 kg cabins.



## Our elevators are made in Europe

Like the majority of TK Elevator's product portfolio, synergy 200 is engineered, manufactured, pre-assembled and shipped to you from our elevator manufacturing centres in Spain and Germany. Keeping close ties between our local operations and manufacturing centres ensures optimum quality management and constant product optimisation, for example with installation-friendly packaging.

# Safety is an inherent component of our company and products

By choosing to partner with TK Elevator, you are entrusting us not only with the mobility, but also the safety of your passengers. It's a responsibility that we make ourselves aware of every day by adhering to our superior quality and safety protocols.

They are designed to guarantee a secure product during the entire elevator life cycle, ensure safe travels for all passengers, and the health & safety of our employees – from the first day of the installation to the many years of maintenance that will follow.



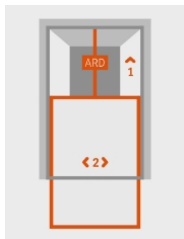
## The safest means of transport

Since its invention more than 160 years ago, the elevator has proven itself to be the safest way to get from A to B. Today, there are more than 12 million elevators in operation worldwide, facilitating 7 billion rides per day. synergy elevators have been on the market for more than 15 years, proving themselves in thousands of buildings all over Europe.



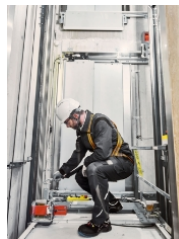
## Here for you 24/7

Every synergy elevator is equipped with a state-of-the-art emergency call system. Connected to our 24h service centres, we provide assistance to your passengers around the clock, 365 days a year. In the event of malfunctions or an emergency with trapped passengers, we have the necessary protocols in place to swiftly take action and resolve the situation.



## Automatic rescue device

In the event of a power failure, every synergy 200 can perform a required rescue operation on its own. The Automatic Rescue Device (ARD) will safely take you (load dependent) to the next floor [1] and open the doors to allow passengers to exit the elevator cabin [2].



## Highest standards

TK Elevator and its products meet all relevant industry regulations such as ISO 9001, ISO 14001, ISO 45001 and ISO 50001, further complemented by our own internal safety, health and environmental standards.

# A comfortable ride for all passengers

synergy 200 fulfils your passengers' expectations of a pleasant elevator ride experience beyond "just" quietness and low vibrations. It truly excels in combining a smooth ride with accessibility, quality cabin materials and intuitively designed control interfaces.



## Quality materials, appealing design

Elevators are a fixed part of your building and its architecture. They give a first visual impression, and are often the first thing visitors interact with. That's why synergy 200 is made to function perfectly, but also look and feel good. With materials that are true to the touch, haptically appealing and intelligently designed.



## A smooth ride, even at higher speeds

synergy 200 operates silently and smoothly, thanks to precise installation, quality shaft components and its self-supporting cabin with extra sound insulation through the wall cladding layer. For speeds >1 m/s, a cabin with sling and optional roller guides continues to ensure quiet travels and soft starts.



## Easy accessibility

synergy 200's standard features already cover most of the accessibility requirements of the latest EN 81-70 European standard. These include cabin dimensions and door openings, a large safety mirror, handrails etc. All synergy elevators accurately level with just  $\pm 3$  mm tolerance to ensure safe access for passengers.



## User-friendly fixtures

Operating panels for synergy 200 are designed to create the best user experience for passengers of all ages and abilities. EN 81-70 accessibility requirements are met with tactile symbols and Braille lettering on the large push-buttons, high luminance contrast, as well as voice announcements and adjustable sound levels.



# Efficiency throughout the product life cycle

Energy efficiency and sustainability are part of TK Elevator's DNA. This involves the constant and holistic improvement of our products and processes to help you reduce the environmental footprint of your building.

With synergy 200 as part of your project, you're best prepared to qualify for LEED®, BREEAM® or DGNB certification. At the same time we walk the talk, for example by operating our European manufacturing facilities in Germany and Spain on 100% renewable energy.

In 2021, TK Elevator topped the Sustainalytics global ESG risk rating with the best result among over 500 companies in the machinery industry category and was recognised in the acclaimed climate change A-list published by the global non-profit organisation CDP.

**Learn more about TK Elevator's  
ESG efforts**



[www.tkelevator.com/global-en/sustainability](http://www.tkelevator.com/global-en/sustainability)



# An A-rated elevator from an A-list manufacturer

synergy 200 with sleep mode achieves the highest energy efficiency rating Class A, according to ISO 25745-2. The low energy consumption reduces the carbon footprint of the elevator during operation and consequently its share of the overall energy consumption of the building.

This has also been proven by synergy's product life cycle assessment (LCA). We carry out LCAs to achieve continuous improvements and minimise the environmental impact of our products.



## Highest energy efficiency rating

Based on a 630 kg elevator at 1 m/s with 12 m travel height and usage category 1, synergy 200 achieves the highest energy efficiency rating Class A, according to ISO 25745-2. The results of synergy's life cycle assessment shows that during 25 years of usage, less than one third of the carbon footprint occurs during operation.



## From standby to sleep mode

synergy 200 comes with a basic standby functionality that includes automatic light switch-off. The optional sleep mode turns off electronic components throughout the system when the elevator is idle, increasing energy savings dramatically by up to 45%.



## LED in all lighting devices

All of synergy 200's lighting devices in the shaft, cabin (ceilings, push-buttons, etc.) and landings are LED-equipped. LED lighting can last 10 times longer and is up to 80% more energy efficient than halogen lighting.



## Regenerative drive

The optional regenerative drive is a smart system that recoups electricity when the cabin is moving downwards fully loaded, or is empty going upwards. Under optimum technical conditions, power is generated in both situations by the elevator and fed back into the building grid.

# DESIGN

The A and B design lines for synergy 200 have been created by expert designers to achieve a wide spectrum of atmospheres. They combine genuine style with quality materials, such as stainless steel, laminate or glass. If your goal is to individualise, both design lines offer options for cabin design customisation.

## 3 ways to design your synergy 200



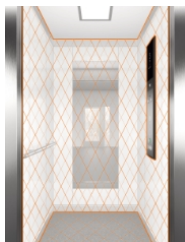
### Pre-designed cabin

Choose from a selection of cabins with uniform wall colours and materials from the two design lines A or B, and add from a range of ceilings, floors etc.



### Custom selection

Mix and match the wall materials freely from within the chosen design line and add a ceiling, floor, skirting, mirror, handrails and COP of your choice.



### Custom cabin

Select the “naked cabin” option equipped with a ceiling and a COP of your choice and apply your own wall cladding, flooring, skirting etc.

# Design line A

Geared to premium residential buildings, the A design line offers a high-quality selection of materials and finishes with patterned premium stainless steel and decorative glass wall panels.

**Compose your favourite A design  
line cabin**



[a-design-synergy.tkelevator.com](http://a-design-synergy.tkelevator.com)

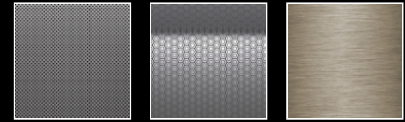


## Predesigned cabins

Select from a choice of cabins with uniform walls in either stainless steel [ST] or coloured safety glass [GL]. Optionally, you can mix and match wall materials from within design line A, and even borrow from design line B, or order a "naked cabin" to equip with your own materials. Visualisation shows a 630 kg / 1100x1400 mm cabin.



### Premium stainless steel



A70-ST03 A71-ST04 A72-ST05

### Coloured safety glass



A50-GL01 A51-GL03 A52-GL02



A53-GL08 A54-GL11 A55-GL12



A56-GL06 A57-GL13 A58-GL07

### Customisable designs



A90-select A93-naked

### Cabin A71

ST04 Premium stainless steel honeycomb walls, Alto full height COP with black glass front and 7" display, Runway ceiling white, custom flooring, stainless steel handrails, full-width / mid-height mirror, aluminium silver skirting

### Ceilings for 320 kg to 1,600 kg cabins

Choose from a range of indirect lighting styles in either black or white to create the desired atmosphere in your cabin. In addition, vandal-resistant ceilings with sturdy stainless steel surfaces are available. These 6 types of ceilings are applicable across the synergy 200 range for all cabin dimensions and rated loads. Depending on the cabin dimension the ceiling comprises of up to four modules.



Grille / white



Lightbox / white



Grille / black



Lightbox / black



Steel Grille, vandal resistant



Steel Lightbox, vandal resistant

### Ceilings for 320 kg to 1,000 kg cabins

These 12 ceilings are available for all cabin dimensions and rated loads  $\leq 1,000$  kg.



Rocket / white



Eclipse / white



Runway / white



Tiffany / white



Lightbox large / white



Tiffany large / white



Rocket / black



Eclipse / black



Runway / black



Tiffany / black



Lightbox large / black



Tiffany large / black

### Handrails and bumpers

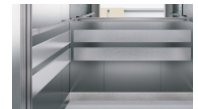
Robust stainless steel handrails with curved endings for rear and/or side walls to increase passenger comfort and safety. Protect your cabin walls with bumpers in black PVC or stainless steel (for non-glass cabins only).



Stainless steel satin silver handrail



Stainless steel satin black handrail



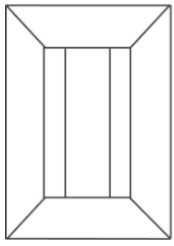
Stainless steel bumper



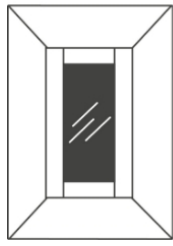
Black PVC bumper

## Mirrors

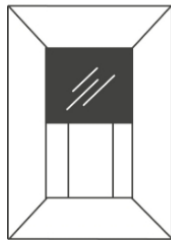
Integrated mirrors in the rear wall, or side walls in case of double entrance, make the cabin accessible, feel more spacious and create appealing ceiling light reflections.



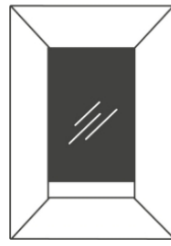
Without mirror



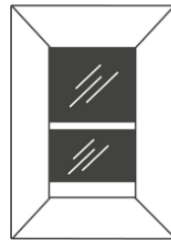
Partial width / partial height



Full width / mid height<sup>1</sup>



Full width / full height<sup>2</sup>



Upper and lower full width<sup>3</sup>

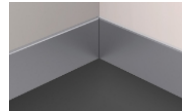
1. For rear wall and double entrance side wall

2. For cabins ≤1,000 kg only

3. For double entrance side wall only

## Skirting

The skirting protects wall panels with long-lasting, high-quality finishes while complementing the decorative theme.



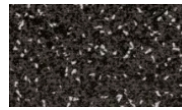
Anodised aluminium silver



Anodised aluminium champagne

## Floors

Choose from a range of hard-wearing vinyls or a custom floor to have your own material supplied and installed for an optimum architectural match.



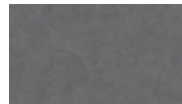
Nature black



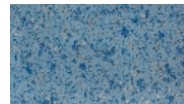
Concrete dark grey



Concrete light grey



Equissé grey



Fresh blue



≤25mm recess for custom floor

# Design line B

The balanced selection of high-quality laminates in fresh colours and wood finishes as well as some timeless stainless steel classics offer a broad choice of predefined cabins in the B design line, suitable for both residential and commercial applications.

Compose your favourite B design  
line cabin



[b-design-synergy.tkelevator.com](https://b-design-synergy.tkelevator.com)







## Predesigned cabins





Select from a choice of cabins with uniform walls in coloured shiny laminates [LM-S], durable melamine [MW], natural appeal wood finishes [LW] or stainless steel [ST]. Optionally, mix and match wall materials from within design line B, or order a “naked cabin” to equip with your own. Visualisation shows a 630 kg / 1100×1400 mm cabin.








### Stainless steel

-  B70-ST01
-  B72-ST02



### Colour laminate

-  B50-LM01S
-  B51-LM03S
-  B52-LM02S
-  B53-LM08S
-  B54-LM12S
-  B55-LM05S
-  B56-LM09S
-  B57-LM06S
-  B58-LM07S

### Melamine wood look and Laminate wood finish

-  B60-MW01
-  B61-MW02
-  B65-LW02
-  B66-LW03
-  B67-LW07

### Customisable designs

-  B90-select
-  B93-naked

### Cabin B72

ST02 Premium stainless steel linen walls, IL variable flush COP with 7" display, Steel Grille stainless steel ceiling, Concrete Dark Grey vinyl flooring, stainless steel handrail, partial-width / partial-height mirror, aluminium silver skirting

### Ceilings for 320 kg to 1,600 kg cabins

Go with our standard LED plate direct lighting or choose from a range of indirect lighting styles in either black or white to create the desired atmosphere in your cabin. In addition, vandal-resistant ceilings with sturdy stainless steel surfaces are available. These 6 types of ceilings are applicable across the synergy 200 range for all cabin dimensions and rated loads. Depending on the cabin dimension, the ceiling comprises of up to four modules.



Grille / white



Lightbox / white



Grille / black



Lightbox / black



Steel Grille, vandal resistant



Steel Grille, vandal resistant



LED Plate (standard lighting)<sup>1</sup>

1. Size of LED Plate depending on cabin dimensions

### Ceilings for 320 kg to 1,000 kg cabins

These 12 ceilings are available for all cabin dimensions and rated loads ≤ 1,000 kg.



Rocket / white



Eclipse / white



Runway / white



Tiffany / white



Lightbox large / white



Tiffany large / white



Rocket / black



Eclipse / black



Runway / black



Tiffany / black



Lightbox large / black



Tiffany large / black

### Handrails and bumpers

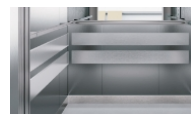
Robust stainless steel handrails with curved endings for rear and/or side walls to increase passenger comfort and safety. Protect cabin walls with bumpers in black PVC or stainless steel.



Stainless steel satin silver handrail



Stainless steel satin black handrail



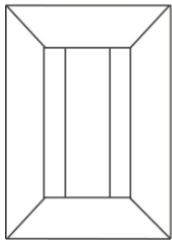
Stainless steel bumper



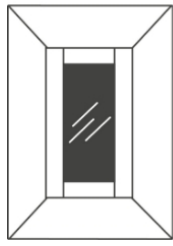
Black PVC bumper

## Mirrors

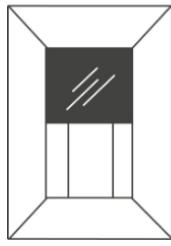
Integrated mirrors in the rear wall, or side wall in case of double entrance, make the cabin accessible, feel more spacious and create appealing ceiling light reflections.



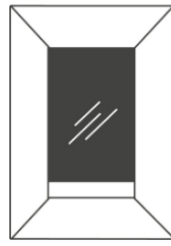
Without mirror



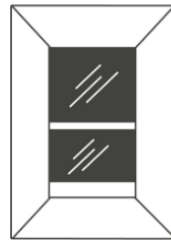
Partial width / partial height



Full width / mid height<sup>1</sup>



Full width / full height<sup>2</sup>



Upper and lower full width<sup>3</sup>

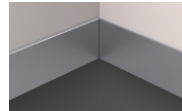
1. For rear wall and double entrance side wall

2. Only for cabins ≤1,000 kg

3. Only for double entrance side wall

## Skirting

The skirting with long-lasting, high-quality finishes protects wall panels while complementing the decorative theme.



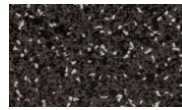
Anodised aluminium silver



Anodised aluminium champagne

## Floors

Choose from a range of hard-wearing vinyls or a custom floor to have your own material supplied and installed for an optimum architectural match.



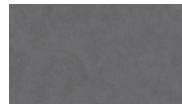
Nature black



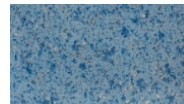
Concrete dark grey



Concrete light grey



Equissé grey



Fresh blue



≤25mm recess for custom floor

# Cabin operating panels

synergy 200 offers elegant vertical car operating panels with a solid stainless steel or tempered glass surface and a 7" TFT display. Optionally, a second vertical or horizontal COP for larger cabins and vandal-resistant versions are also available.

## Cabin Operating Panels (COP)

All COPs for synergy 200 are available for both design lines A and B and compatible with all cabin wall materials.



**Edge**  
Surface mounted short COP, stainless steel faceplate and 7" TFT display. Two widths for up to 18 or 24 buttons incl. auxiliary buttons or key switches.



**Edge high**  
Surface mounted high COP, stainless steel faceplate and 7" TFT display. Two widths for up to 18 or 24 buttons. Optional LED backlight.



**Alto**  
Surface mounted high COP, black safety glass faceplate and 7" TFT display. Two widths for up to 18 or 24 buttons or key switches.



**Alto full height**  
Surface mounted full-height COP, black glass faceplate with st. steel edge, 7" TFT display. Two widths for up to 18 or 24 buttons. Optional LED backlight.



**IL variable**  
Flush mounted full-height vertical COP in stainless steel brushed, linen or champagne. 7" TFT display and up to 24 buttons. Available for  $\geq 630$  kg.

## Vandal resistant, horizontal and double COPs

The vandal-resistant versions of our Edge and IL variable COPs are designed to withstand above-average wear and tear. The XL horizontal COP improves passenger comfort and ensures fulfilment of accessibility standards for large cabins with a double entrance. A double COP configuration can be achieved with any COP model.



**Edge**  
Vandal-resistant variant, stainless steel faceplate and VB02 buttons



**Edge high**  
Vandal-resistant variant, stainless steel faceplate and VB02 buttons



**IL variable**  
Vandal-resistant variant of our flush COP with VB02 buttons



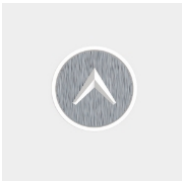
**XL horizontal COP**  
For use as secondary COP in larger cabins



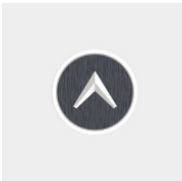
**Double COP**  
This configuration is available with all vertical COPs

**Push-buttons**

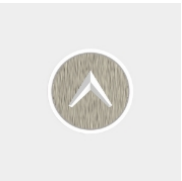
Our standard DB02 push-button comes in three stainless steel finishes. It brings design and usability together with white tactile characters, braille lettering (when placed in a COP) and white LED confirmation lighting. The VB-02 button with black steel finish is the ultra-sturdy, vandal-resistant option.



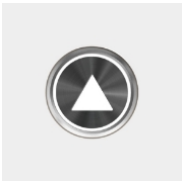
DB02 silver



DB02 black



DB02 champagne



VB02 black



# Landing panels and indicators

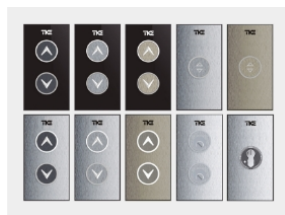
Our Series 50 landing fixtures and accompanying push-buttons guarantee a best-fit configuration for your building. Elegantly designed and haptically appealing with real stainless steel finishes and black glass coverings, they instantly make an impression at the first touch – even in their vandal-resistant versions.

## Landing Operating Panels (LOP)

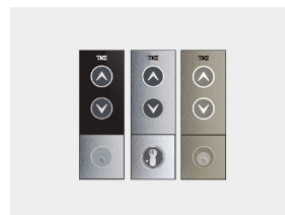
The modular design of the Series 50 LOPs allows for easy configuration in accordance with the functional and aesthetic needs of your building. Choose black glass or a stainless faceplate finish – brushed or satin champagne – and select the required modules for call buttons, (euro) key switches or the integrated 3.5" TFT display for position and function information. The surface-mounted design (25 mm depth) makes them easy to place on the landing door frame or wall.



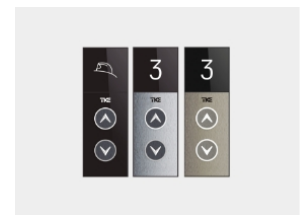
LOP 50 (91 × 350 mm)



LOP 51 (91 × 171 mm)



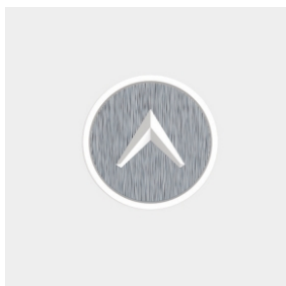
LOP 52 (91 × 261 mm)



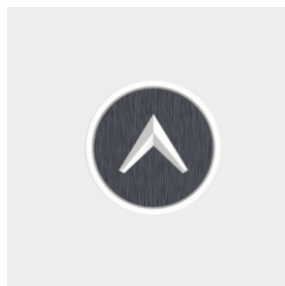
LOP 53 (91 × 261 mm)

## Push-buttons

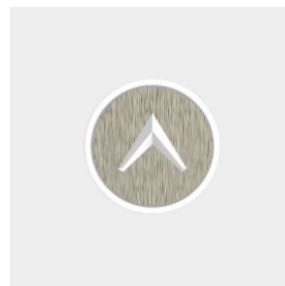
Our DB02 push-buttons come in three stainless steel finishes. They bring together design and great usability with white tactile characters, braille lettering (in COP) and white LED confirmation lighting. The real stainless steel faceplate makes for a haptically pleasing experience. The VB-02 button with black steel finish is the ultra-sturdy vandal resistant version.



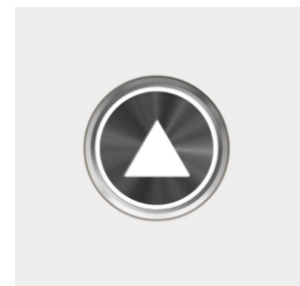
DB02 silver



DB02 black



DB02 champagne



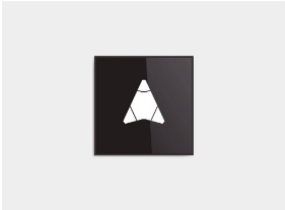
VB02

**Landing Indicator Panels (LIP)**

LIPs simply make passenger orientation easier by showing the current status of the elevator. Landing Direction Indicator Panels (LDIP) inform passengers about the direction the cabin is headed in, while the Landing Indicator Panel provides the information about the current position of the cabin.



LIP 50 (261 × 91 × 21 mm)



LDIP 50 (91 × 101 × 21 mm)



LIDC 31 (40 × 120 × 2 mm)



# Selected features and options

- Standard
- Option

## COMFORT

### Accessibility

Door open/close and alarm push button	●
Big push buttons with Braille lettering (COP)	●
Round green frame in main floor push button	●
Adjustable sound level (35-65 dBA)	●
Luminance contrast in fixtures	●
Induction loop for hearing-impaired passengers	○
XL horizontal COP with XL push buttons	○

### Access Control

Cancellation calls by double click in COP	○
(Euro) key switch in COP/LOP for access/functions	○
Encoded car calls (ECC)	○
Preference / Independent service of COP	○
Out of service LOP	○
Penthouse control	○
VIP function	○
Prepared for card reader LOP/COP	○

### Others

Car ventilation fan	○
CCTV multimedia travelling cable	○
Roller guides on car and counterweight	○

## PERFORMANCE

Parking level at main landing floor	○
Group control system (up to 4 elevators)	○
Building management system (BMS)	○
Extended Building Management System (BMS)	○
Pre-opening of doors	○

### Layout

Flexible car dimensions 10 mm-steps ( $\leq$ 1,000 kg)	○
Flexible car dimensions 100 mm-steps ( $>$ 1,000 kg)	○
Reduced overhead ( $\leq$ 1,000 kg)	○
Reduced and extra-reduced pit ( $\leq$ 1,000 kg)	○
Machine room	○
Selectable controller cabinet position	○

## ENERGY EFFICIENCY

Energy-saving cabin and shaft LED lighting	●
Cabin lighting stand-by	●
Sleep mode	○
Regenerative drive	○

## SAFETY & REGULATIONS

Light curtain protection	●
Emergency lighting in cabin 3 h	●
Automatic evacuation to next landing	○
Automatic evacuation to any landing	○
Two-/three-way intercom	○
Safety gear on counterweight	○
Water pit sensor	○
Escape hatch	●
Halogen-free shaft wiring (except for the motor and travelling cable)	●
<b>Codes &amp; standards</b>	
Doors fire rating E-20	●
Doors fire rating EI-60 / EI-120 / EW-60 (EN81-58)	○
EN 81-20/50, Lifts construction and comp. testing	●
EN 81-28, Emergency call system	●
EN 81-70, Accessibility to lifts	○
EN 81-71, Vandal resistant, partially Category 1	○
EN 81-73, Fire evacuation	○
EN 81-77, Seismic, Category 0	●
EN 81-77, Seismic, Category 1, 2, 3	○

## DESIGN

Pre-designed cabins	●
Glass walls finish	○
Custom cabin design: wall selection / raw cabin	○
Vandal-resistant false ceiling	○
Preparation for own custom flooring $\leq$ 25 mm	○

### Operating panels & indicators

Stainless steel COP/LOP	●
Glass faceplate COP/LOP	○
Vandal-resistant COP / LOP	○
Flush mounted stainless steel COP	○
Double vertical / horizontal COP	○
Vandal-resistant push-buttons	○
TFT 7" display in COP	●
Courtesy LED backlighting in COP / ceiling	○
LIDC Landing arrow indicator in car portal	○

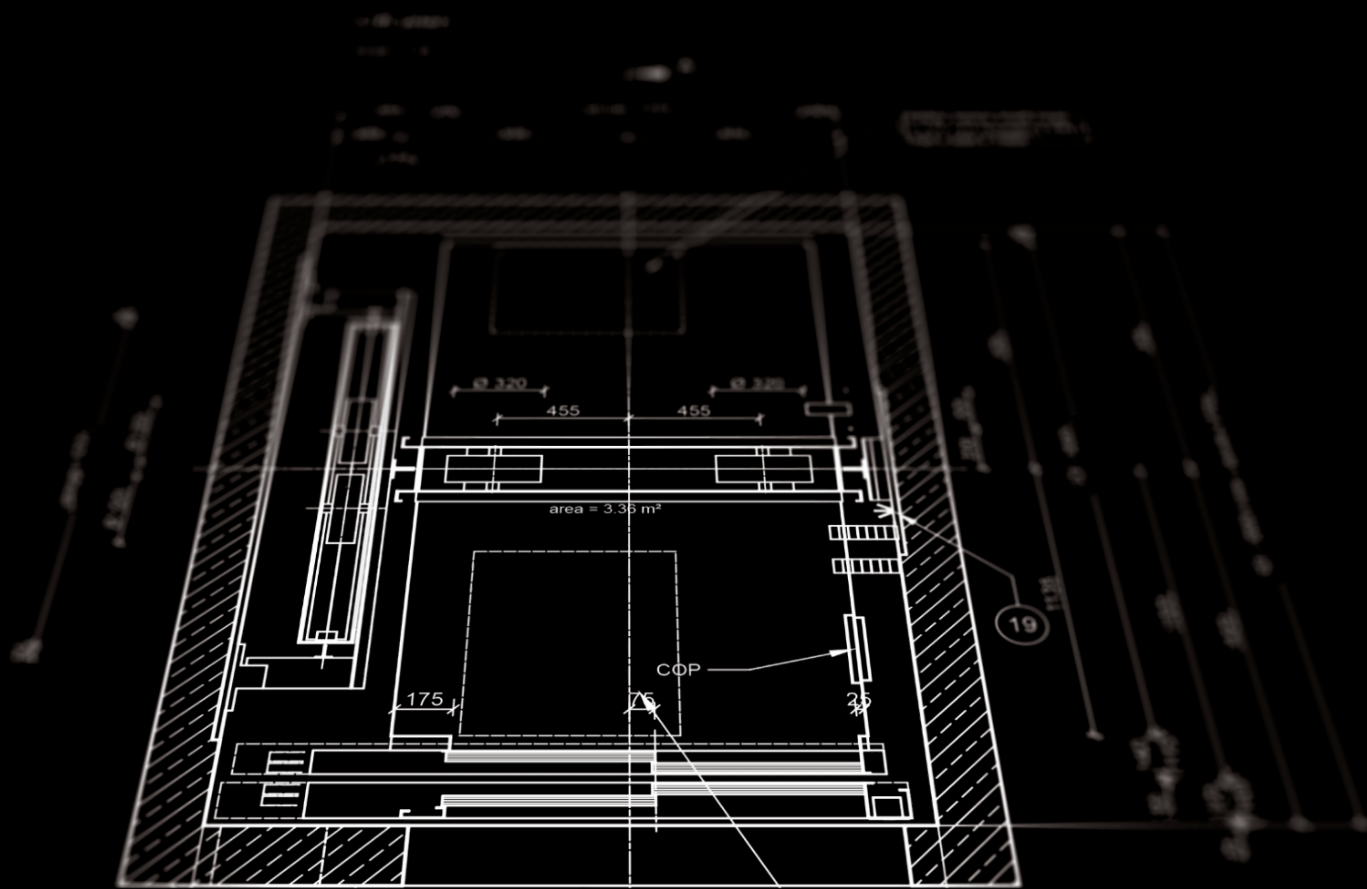
### Landing & cabin doors

Landing doors prime coated in RAL 7032	●
Landing doors in ferritic stainless steel (AISI 441)	○
Landing doors in st. steel linen or champagne	○
Cabin doors in ferritic stainless steel (AISI 441)	●
Cabin doors in stainless steel linen or champagne	○
Framed glass doors	○

To discover all options available for synergy 200, please contact your local TK Elevator sales representative. The details quoted in here can only be viewed as binding when confirmed expressly in writing.



# PLANNING



## synergy online in-planner tool

Make the most of your building space and find the optimal dimensions for your new synergy 200 cabin – or the best-fitting cabin for your planned shaft dimensions



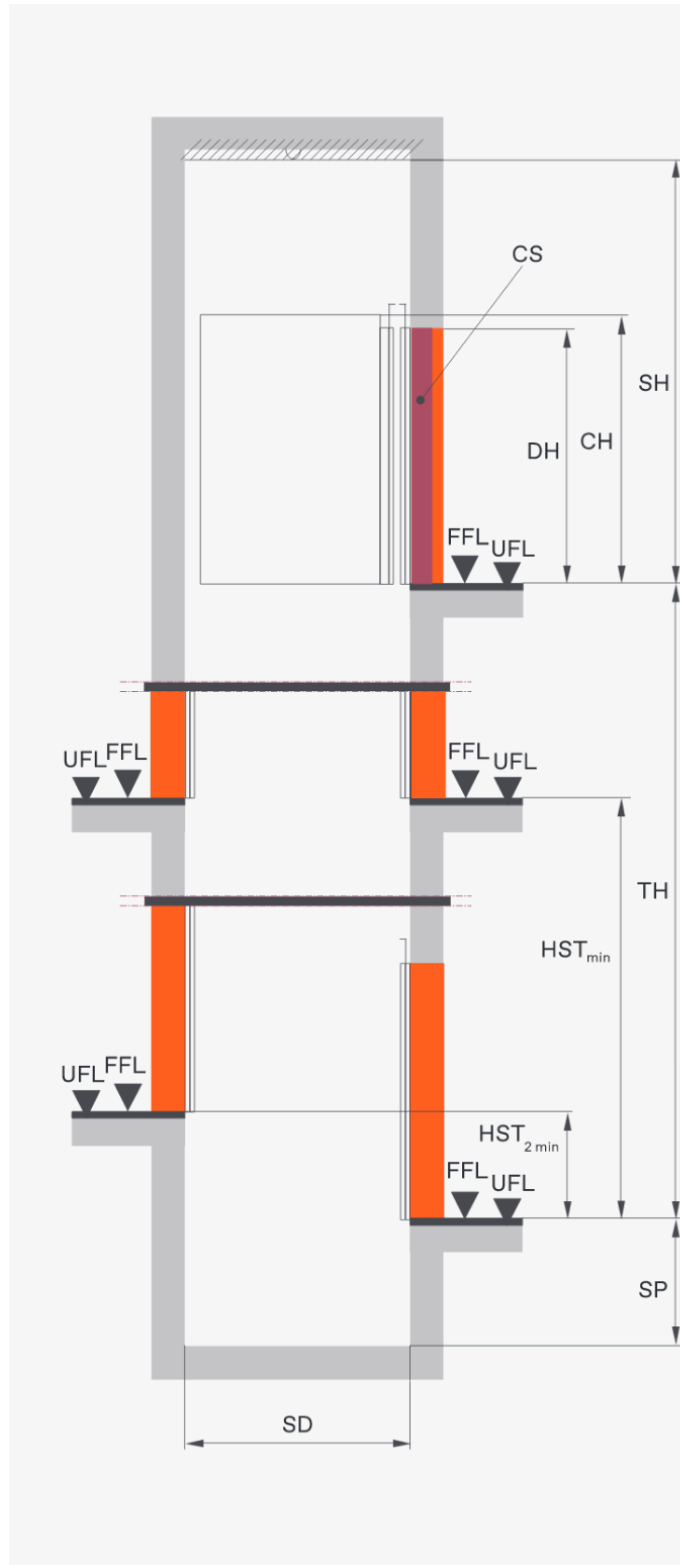
# Shaft layout

## Values

<b>SD</b>	see dimension page
<b>SH</b>	standard CH + 1200 mm / reduced from CH + 490 mm (for $\leq 1,000$ kg)
<b>SP</b>	standard from 1000 mm / reduced 425 / 550 mm (for $\leq 1,000$ kg)
<b>TH</b>	max. 45 m at 1 m/s, 75 m at $>1$ m/s / min. 2900 mm (consult conditions)
<b>HST</b>	min. DH + 450 / 550 mm (consult conditions)
<b>HST<sub>2</sub></b>	min. 250 / 600 mm w.o./with advanced door opening
<b>CH</b>	2070 - 2500 mm
<b>DH</b>	2000 / 2100 / 2300 mm

## Key

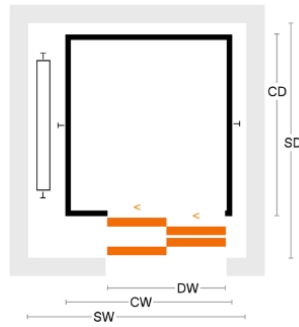
<b>SD</b>	shaft depth
<b>SH</b>	shaft head
<b>SP</b>	shaft pit
<b>TH</b>	travel height
<b>HST</b>	min. height between floors
<b>CH</b>	cabin height
<b>DH</b>	door height
<b>CS</b>	controller system
<b>FFL</b>	finished floor level
<b>UFL</b>	unfinished floor level



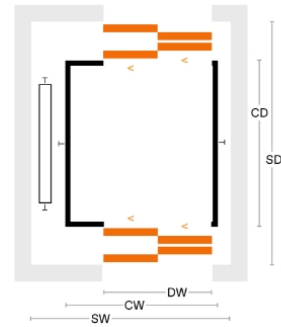
# Door options

## Key

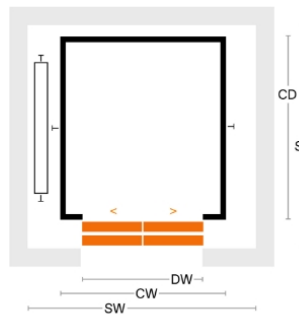
<b>L2</b>	2-panel side-opening door
<b>L3</b>	3-panel side-opening door
<b>C2</b>	2-panel central-opening door
<b>C4</b>	4-panel central-opening door
<b>S</b>	single entrance
<b>D</b>	double entrance
<b>DW</b>	door width
<b>CW</b>	cabin width
<b>SW</b>	shaft width
<b>CD</b>	cabin depth
<b>SD</b>	shaft depth



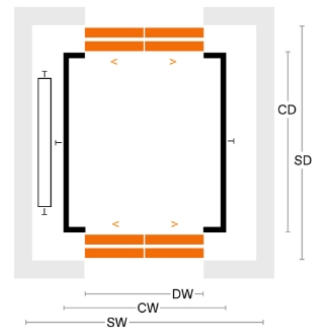
**L2 / S**



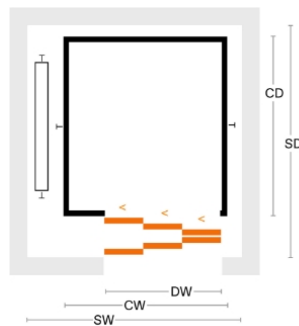
**L2 / D**



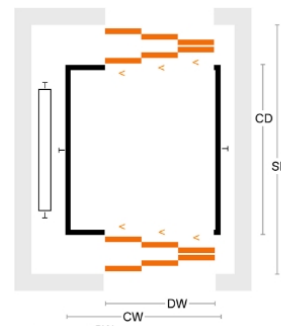
**C2 / S**



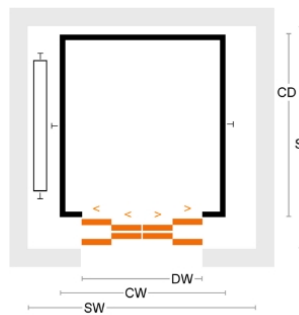
**C2 / D**



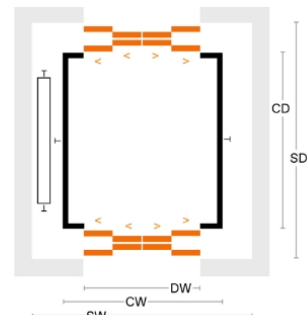
**L3 / S**



**L3 / D**



**C4 / S**



**C4 / D**

# Dimensions

SYSTEM				CABIN		DOOR				SHAFT							
Rated load	Passengers	Speed	Travel height max.	Cabin width x cabin depth	Cabin height	Type of entrance	Door type	Door width	Door height	Shaft width	Shaft width full front	Shaft depth door in recess	Shaft depth full front	Shaft depth door partially in shaft	Shaft depth door in shaft	Shaft pit	Shaft head
kg	No	m/s	m	mm	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
320	4	1.0	45	850x1000	2070-2500	S/D	L2-L3 C2-C4	700-800	2000-2300								
320	4	1.0	45	850x1000	2200	S	L2	700	2000	1345	-	1300	-	1370	1425	1100	3485
320	4	1.0	45	850x1000	2200	D	L2	700	2000	1345	-	1430	-	1580	1680	1100	3485
320	4	1.0	40	900x1000	2070-2500	S/D	L2-L3 C2-C4	700-800	2000-2300								
320	4	1.0	45	900x1000	2200	S	L2	800	2000	1450	1455	1300	1300	1370	1425	1100	3485
320	4	1.0	45	900x1000	2200	D	L2	800	2000	1450	1455	1430	1430	1580	1680	1100	3485
450	6	1.0	45	1000x1250	2070-2500	S/D	L2-L3 C2-C4	700-900	2000-2300								
450	6	1.0	45	1000x1250	2200	S	L2	800	2000	1495	1505	1540	1540	1610	1665	1000	3400
450	6	1.0	45	1000x1250	2200	D	L2	800	2000	1495	1505	1680	1680	1830	1930	1000	3400
450	6	1.0	45	1000x1300	2070-2500	S/D	L2-L3 C2-C4	700-900	2000-2300								
450	6	1.0	45	1000x1300	2200	S	L2	800	2000	1495	1505	1590	1590	1660	1715	1000	3400
450	6	1.0	45	1000x1300	2200	D	L2	800	2000	1495	1505	1730	1730	1880	1980	1000	3400
630	8	1.0	45	1100x1400	2070-2500	S/D	L2-L3 C2-C4	700-1000	2000-2300								
630	8	1.0	45	1100x1400	2200	S	L2	800	2000	1595	1605	1680	1690	1760	1815	1000	3400
630	8	1.0	45	1100x1400	2200	S	L2	900	2000	1600	1605	1690	1690	1760	1815	1000	3400
630	8	1.0	45	1100x1400	2200	D	L2	800	2000	1595	1605	1830	1830	1980	2080	1000	3400
630	8	1.0	45	1100x1400	2200	D	L2	900	2000	1600	1605	1830	1830	1980	2080	1000	3400
630	8	1.0	45	1100x1400	2200	S	C2	800	2000	1595	1605	1690	1690	1760	1815	1000	3400
630	8	1.0	45	1100x1400	2200	S	C2	900	2000	1600	1605	1690	1690	1760	1815	1000	3400
630	8	1.0	45	1100x1400	2200	D	C2	800	2000	1795	-	1760	-	1850	1940	1000	3400
630	8	1.0	45	1100x1400	2200	D	C2	900	2000	1980	-	1760	-	1850	1940	1000	3400
825	10	1.0	45	1350x1400	2070-2500	S/D	L2-L3 C2-C4	700-1000	2000-2300								
825	10	1.0	45	1350x1400	2200	S	L2	1000	2000	1850	-	1690	-	1760	1815	1000	3400
825	10	1.0	45	1350x1400	2200	D	L2	1000	2000	1850	-	1830	-	1980	2080	1000	3400
825	10	1.0	45	1350x1400	2200	S	C2	1000	2000	2180	-	1655	-	1695	1745	1000	3400
825	10	1.0	45	1350x1400	2200	D	C2	1000	2000	2180	-	1760	-	1850	1940	1000	3400
1000	10	1.0	45	1100x2100	2070-2500	S/D	L2-L3 C2-C4	700-1000	2000-2300								
1000	10	1.0	45	1100x2100	2200	S	L2	800	2000	1600	1610	2390	2390	2460	2515	1000	3400
1000	10	1.0	45	1100x2100	2200	S	L2	900	2000	1600	1610	2390	2390	2460	2515	1000	3400
1000	10	1.0	45	1100x2100	2200	D	L2	800	2000	1600	1610	2530	2530	2680	2780	1000	3400
1000	10	1.0	45	1100x2100	2200	D	L2	900	2000	1600	1610	2530	2530	2680	2780	1000	3400
1000	10	1.0	45	1100x2100	2200	S	C2	800	2000	1800	-	2355	-	2395	2445	1000	3400
1000	10	1.0	45	1100x2100	2200	S	C2	900	2000	1980	-	2355	-	2395	2445	1000	3400
1000	10	1.0	45	1100x2100	2200	D	C2	800	2000	1800	-	2460	-	2550	2640	1000	3400
1000	10	1.0	45	1100x2100	2200	D	C2	900	2000	1980	-	2460	-	2550	2640	1000	3400
1000	10	1.60	75	1100x2100	2200	S	L2	900	2000	1600	1615	2400	2400	2470	2525	1350	3615
1000	10	1.75	75	1100x2100	2200	S	L2	900	2000	1600	1615	2400	2400	2470	2525	1460	3745
1000	10	1.0	45	1400x1600	2070-2500	S/D	L2-L3 C2-C4	700-1000	2000-2300								
1000	10	1.0	45	1400x1600	2200	S	L2	1000	2000	1900	-	1890	-	1960	2015	1000	3400
1000	10	1.0	45	1400x1600	2200	D	L2	1000	2000	1900	-	2030	-	2180	2280	1000	3400

1000	10	1.0	45	1400×1600	2200	S	C2	1000	2000	2180	-	1845	-	1895	1945	1000	3400
1000	10	1.0	45	1400×1600	2200	D	C2	1000	2000	2180	-	1960	-	2050	2140	1000	3400
1000	10	1.0	45	1600×1400	2070-2500	S/D	L2-L3 C2-C4	700-1000	2000-2300								
1000	10	1.0	45	1600×1400	2200	S	L2	1000	2000	2100	-	1690	-	1760	1815	1000	3400
1000	10	1.0	45	1600×1400	2200	D	L2	1000	2000	2100	-	1830	-	1980	2080	1000	3400
1000	10	1.0	45	1600×1400	2200	S	C2	1000	2000	2250	-	1655	-	1695	1745	1000	3400
1000	10	1.0	45	1600×1400	2200	D	C2	1000	2000	2250	-	1760	-	1850	1940	1000	3400
1150	15	1.0	40	1200×2100	2200-2500	S/D	L2-L3 C2-C4	900-1300 /1800 (C4)	2000-2300								
1150	15	1.0	40	1200×2100	2200	S	L2	1100	2100	1925	-	2400	-	2470	2525	1150	3400
1150	15	1.0	40	1200×2100	2200	D	L2	1100	2100	1925	-	2530	-	2680	2780	1150	3400
1150	15	1.0	40	1200×2100	2200	S	C2	1000	2100	2160	-	2370	-	2410	2455	1150	3400
1150	15	1.0	40	1200×2100	2200	D	C2	1000	2100	2160	-	2465	-	2555	2640	1150	3400
1275	17	1.0	40	1200×2300	2200-2500	S/D	L2-L3 C2-C4	900-1300 /1800 (C4)	2000-2300								
1275	17	1.0	40	1200×2300	2200	S	L2	1100	2100	1925	-	2600	-	2670	2725	1150	3400
1275	17	1.0	40	1200×2300	2200	D	L2	1100	2100	1925	-	2730	-	2880	2980	1150	3400
1275	17	1.0	40	1200×2300	2200	S	C2	1000	2100	2160	-	2570	-	2610	2655	1150	3400
1275	17	1.0	40	1200×2300	2200	D	C2	1000	2100	2160	-	2665	-	2755	2840	1150	3400
1275	17	1.0	40	2000×1400	2200-2500	S/D	L2-L3 C2-C4	900-1300 /1800 (C4)	2000-2300								
1275	17	1.0	40	2000×1400	2200	S	C2	1300	2100	2795	-	1665	-	1705	1755	1150	3400
1275	17	1.0	40	2000×1400	2200	D	C2	1300	2100	2795	-	1760	-	1850	1940	1150	3400
1275	17	1.0	40	2000×1400	2200	S	C4	1800	2100	2860	-	1705	-	1750	1830	1150	3400
1275	17	1.0	40	2000×1400	2200	D	C4	1800	2100	2860	-	1835	-	1955	2085	1150	3400
1600	21	1.0	40	1400×2400	2200-2500	S/D	L2-L3 C2-C4	900-1300 /1800 (C4)	2000-2300								
1600	21	1.0	40	1400×2400	2200	S	L2	1200	2100	2075	-	2700	-	2770	2825	1150	3400
1600	21	1.0	40	1400×2400	2200	D	L2	1200	2100	2075	-	2830	-	2980	3080	1150	3400
1600	21	1.0	40	1400×2400	2200	S	C2	1100	2100	2360	-	2670	-	2710	2755	1150	3400
1600	21	1.0	40	1400×2400	2200	D	C2	1100	2100	2360	-	2765	-	2855	2940	1150	3400
1600	21	1.0	40	2100×1600	2200-2500	S/D	L2-L3 C2-C4	900-1300 /1800 (C4)	2000-2300								
1600	21	1.0	40	2100×1600	2200	S	C2	1300	2100	2845	-	1865	-	1905	1955	1150	3400
1600	21	1.0	40	2100×1600	2200	D	C2	1300	2100	2845	-	1960	-	2050	2140	1150	3400
1600	21	1.0	40	2100×1600	2200	S	C4	1800	2100	2885	-	1905	-	1960	2030	1150	3400
1600	21	1.0	40	2100×1600	2200	D	C4	1800	2100	2885	-	2035	-	2155	2285	1150	3400
1600	21	1.0	40	1600×2100	2200-2500	S/D	L2-L3 C2-C4	900-1300 /1800 (C4)	2000-2300								
1600	21	1.0	40	1600×2100	2200	S	L2	1300	2100	2225	-	2400	-	2470	2525	1150	3400
1600	21	1.0	40	1600×2100	2200	D	L2	1300	2100	2225	-	2530	-	2680	2780	1150	3400
1600	21	1.0	40	1600×2100	2200	S	C2	1200	2100	2560	-	2370	-	2410	2455	1150	3400
1600	21	1.0	40	1600×2100	2200	D	C2	1200	2100	2560	-	2465	-	2555	2640	1150	3400

**Please note:** The values shown correspond to a generic installation. Contact your TK Elevator sales representative for guaranteed shaft dimensions for specific projects, especially for reduced shaft head and/or pit. During the planning phase, all applicable regulations stipulated by relevant notified bodies and all applicable national regulations should also be considered.

**Key:** S: Single entrance, D: Double entrance, L2: Side-opening door with 2 panels, L3: Side-opening door with 3 panels, C2: Central-opening door with 2 panels, C4: Central-opening door with 4 panels

**Reduced SP or SH:** Optional reduced SP = 425/550 mm and reduced SH = CH+490 mm, for CH=2070 mm and self supporting cabin at 1 m/s.

Contact us for full set of shaft dimensions for 1.6 and 1.75 m/s speed. Chart is considering a general shaft tolerance of +/- 25 mm on each side.

# 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 manufacturer-independent service for mobility solutions represented by over 24,000 service technicians.

Our new installation product portfolio ranges from commodity elevators for residential and commercial buildings to cutting-edge, highly customised 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, such as the MAX platform, are gaining in importance. These digital offerings mean there are no longer any limits to urban mobility.

## TK Elevator – move beyond

**50,000+**  


We are a team of over 50,000 colleagues

 **24,000+**

With more than 24,000 best-trained technicians

 **100+**

We serve customers in over 100 countries

 **1,000+**

From more than 1,000 locations worldwide



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