

SYNERGY 300:  
VERSATILE  
AND SMART





# VERSATILE AND SMART FOR COMMERCIAL BUILDINGS

synergy 300:  
the convenience passenger elevator for low-rise commercial buildings.

synergy 300 is the ideal solution for commercial buildings that require an efficient elevator with high flexibility regarding design and space at a competitive price. It provides a wide range of predesigned cabin interiors and the possibility of making the elevator design part of your branding.

The new synergy 300 is based on a mature system that has been continuously refined in recent years. It offers proven technology that helps building owners keep operating costs to a minimum without compromising performance.

Equipped to fulfill mid-traffic performance, synergy 300 is the perfect choice for low-duty commercial applications like smaller shopping centers, office buildings or hotels.

## OVERVIEW SYNERGY 300

Elevator type	Machine room-less, optional machine room
Passengers	8 to 13 passengers
Load	630 / 825 / 1,000 kg
Speed	1.0 / 1.6 / 1.75 m/s
Travel height	Up to 75 m
Number of stops	Up to 20 stops
Cabin	53 predesigned cabins
Door types	Side-opening with 2 panels, central-opening with 2 or 4 panels
Door opening width	900 / 1,000 / 1,100 mm
Door height	2,000 / 2,100 / 2,300 mm



**made in europe**

At our elevator manufacturing  
centers in Germany and Spain.



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## The synergy family at a glance

### synergy 100: Pure and efficient

The ideal solution for low-traffic functional residential buildings.

### synergy 200: Stylish and flexible

Ideal elevator for low- to mid-traffic residential buildings with demanding design and flexibility requirements. Also perfect for modernising existing buildings.

### synergy 300: Versatile and smart

Designed for low-duty and low- to mid-traffic commercial and office buildings.

# The elevator solution that adapts to your business

Its variety of features and options, specifically developed for commercial environments, as well as flexible design makes synergy 300 the ideal convenience elevator for small and mid-sized commercial buildings.



## Tuned performance for low-duty commercial applications

Thanks to our high-performance gearless machine and high-quality doors, synergy 300 works perfectly in buildings with low- to mid-traffic.



## High space efficiency and adjustability

In addition to the available standard cabin dimensions, you can adjust the cabin size to the shaft in 10 mm-steps to make the most of the available space.



## Individual design to match your business

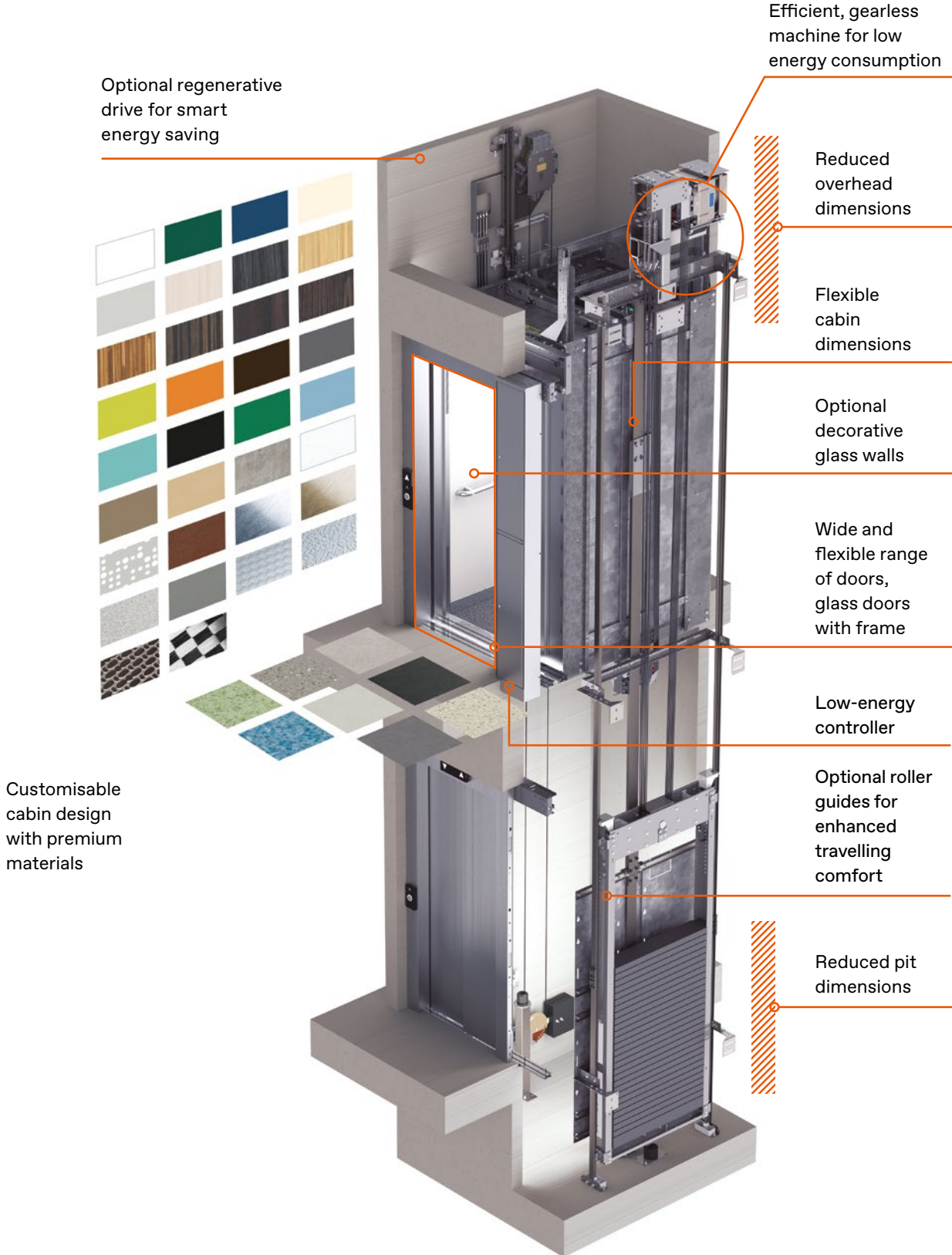
Choose from a large predesigned cabin collection available in the A and B design lines or enjoy complete freedom of choice with our affordable custom-fit options. High-quality materials like stainless steel, premium laminates or glass create a unique atmosphere.



## Uncompromising reliability

Durable materials and proven components for longevity, supported by our skilled installation and outstanding service, ensure uninterrupted elevator availability – a must in commercial applications.

**One elevator.  
Many benefits.**



# PERFORMANCE EFFICIENCY COMFORT SAFETY & REGULATIONS DESIGN

## Performance

Engineered to perform for your business.



**Gearless machine designed in Germany:**

high performance and quality ensure smooth operation and a long and reliable working life. The machine allows up to 180 starts per hour to manage the mid-duty traffic volumes.



**Controller:** the CMC4+ 20/50 is a low-energy controller that ensures reliable, safe operation of the elevator, adapted to your traffic needs.



**High-performing doors:** synergy 300 offers a variety of doors: side-opening with 2 panels, central opening with 2 or 4 panels. Wide range of dimensions and finishes for mid-traffic building requirements.



**High performance based on TKE experience:** synergy 300 is engineered and tested by TK Elevator. Proven components guarantee reliable performance and longevity of your elevator.

# Energy efficiency

Economic viability – throughout the entire product life cycle.

Sustainability is part of our corporate strategy. It involves the holistic improvement of our products and processes to help you reduce the environmental footprint of your buildings and qualify for LEED® and BREEAM® certification by incorporating green features in our elevators.

synergy



Based on a 630 kg elevator at 1 m/s with 12 m travel height and usage category 1

Measurements taken on a standard synergy configuration with sleep mode achieve the highest energy-efficiency rating Class A according to ISO 25745-2. The low energy consumption reduces the CO<sub>2</sub> footprint of the elevator during operation and consequently its share of the overall energy consumption of a building. This has also been proven by synergy's life cycle assessment.



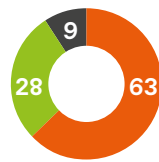
**Low energy consumption** thanks to the highly efficient gearless machine with no contaminant lubricants.



**Standby mode:** cabin lighting comes with automatic switch-off as standard.

**Sleep mode (optional):** The electronic components are turned off when the elevator is in sleep mode and are instantly activated when the elevator is called.

**45%** savings by adding sleep mode option



■ Materials production (%)  
■ Operation (%)  
■ Others (%)

**Product life cycle assessment (LCA):** carried out via continuous improvements focused on the materials used, manufacturing and production processes, and operation. In this way, we minimise the environmental impact of our products.

Based on the carbon footprint of an ISO 14044 compliant LCA of a 630 kg elevator at 1 m/s with 5 stops, 25 years lifetime and sleep mode option with usage category 2 according to ISO 25745-2.



**LED lighting** is standard for all lighting devices in shaft, cabin (ceilings, push-buttons, etc.) and landings. 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 generates electricity when the cabin has a full load going down and is empty going up. The power generated in both situations is then captured and fed into the grid.

# Comfort

Welcome your passengers with exceptional comfort.



- **All-round ride comfort:** synergy 300 is a pleasure for the senses. It provides high-quality materials, attractive design and easy operation fixtures. Enjoy a comfortable and silent ride thanks to minimal noise emissions that are well below common office or household appliances.
- **Accessibility:** cabin and door dimensions, the safety mirror, the handrails design, luminance contrast in fixtures, adjustable acoustic indications, voice announcements and push-buttons with Braille lettering meet the accessibility requirements of the new EN 81-70:2018 European standard.
- **Robust, self-supporting or cabin with sling:** for improved ride quality.
- **Landing accuracy:** the controller guarantees accurate levelling. Landing accuracy of +/- 3 mm ensures safe and comfortable access for passengers.
- **Roller guides:** optional for smoother, quiet travelling and softer starts.
- **Pre-opening doors:** reduce waiting times.

# Safety & regulations

Ensuring safety for all users at all times.

EN 81-20/50

**Elevators are the safest means of transport:** all safety elements are manufactured to meet all relevant industry standards and regulations, including our company's own strict internal Safety, Health and Environment standards, as well as meeting ISO 9001 and 14001.

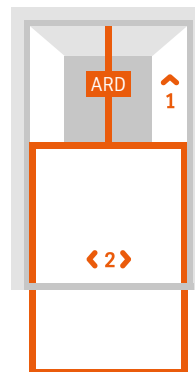


**Highest standards:** we design and test to the highest standards and manufacture our own safety components.



**Stay connected 24/7:** whenever you need it, the communication system is there for you, keeping you connected with our 24hr call center.

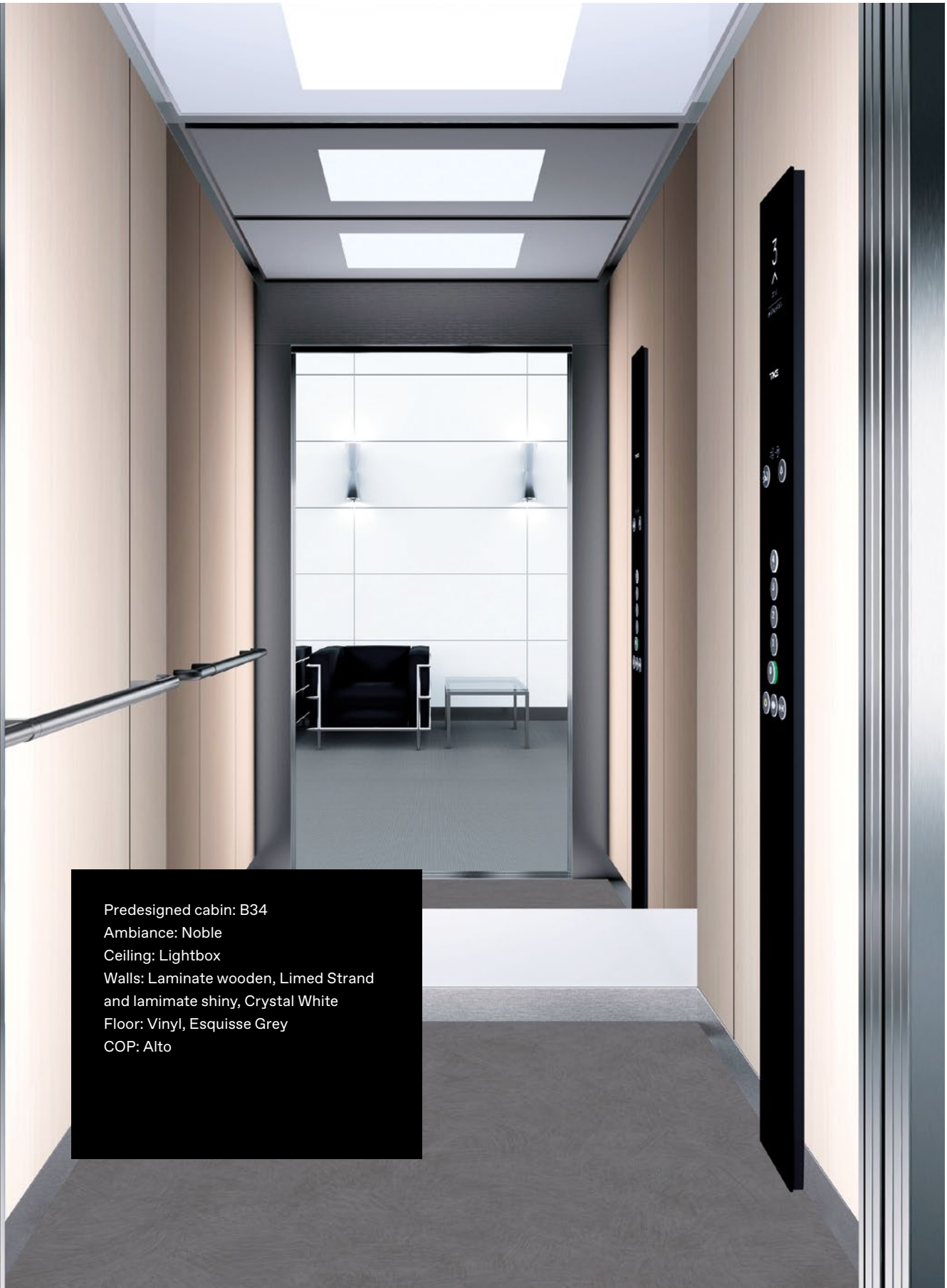
**Emergency evacuation (standard):** in the event of power failure, the Automatic Rescue Device (ARD) will safely take you to the next floor (load dependent) <1> and open the doors to allow passengers to exit the cabin <2>.





# Design

Endless possibilities.



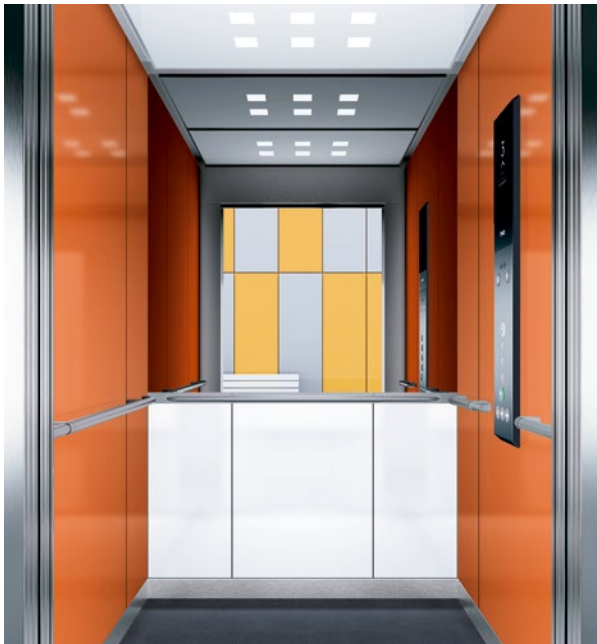
Pre-designed cabin: B34  
Ambiance: Noble  
Ceiling: Lightbox  
Walls: Laminate wooden, Limed Strand  
and laminate shiny, Crystal White  
Floor: Vinyl, Esquisse Grey  
COP: Alto

# Design lines for synergy 300

The design lines B and A offer endless possibilities to make the elevator part of your building's design concept. From stainless steel to premium laminates or glass walls – you are spoiled by choices.

## Design line B

Characterised by high-quality laminates and stainless steel, the predesigned cabins of design line B adapt easily to your architecture.



B21

## Design line A

The predesigned cabins of design line A create a unique and exclusive atmosphere, using high-quality materials, such as glass, patterned laminates or stainless steel.



A41

Discover more variants of the B design line in the cabin designer tool.



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

Discover more variants of the A design line in the cabin designer tool.



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

# Highest flexibility: Custom-fit solutions

If you are looking for something truly distinctive, exclusive or unique, you can tailor the elevator design to your precise requirements.



## Custom selection

You can individually select all materials within your chosen design line for the rear wall, COP wall or opposite COP wall. In addition, you can choose a ceiling, floor and skirting, handrails and COP.



## Custom cabin

With this option, you get a cabin equipped only with a ceiling and a COP from your chosen design line. You are then free to choose your own floor, if you wish, and can also equip the cabin with your own wall finish and skirting.



## Custom printed glass

Customise the walls of your elevator with glass walls in the colour of your choice or with an image that is digitally printed onto the glass wall.

If you have any questions regarding the cabin design, original samples or individual design, please contact your TKE sales representative.

To discover the full design collection, please see the dedicated Design Book on our website.



# Panels, buttons, handrails, and more for synergy 300

## Car Operating Panels (COP)



synergy 300 offers elegant vertical car operating panels with robust stainless steel or tempered glass surface and 7" TFT display. Optionally, a second vertical or horizontal COP and vandal-resistant versions of Edge and Edge high are also available.

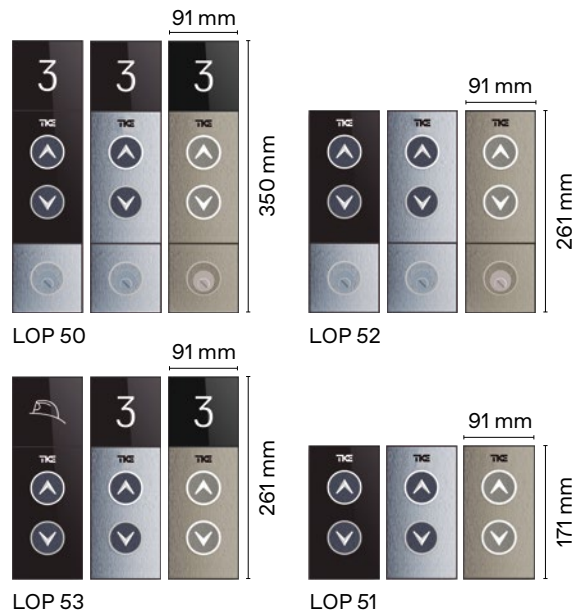
## Landing Direction Indicator Panels (LDIP) & Landing Indicator Panels (LIP)



Achieve a modern and neutral look with a black glass face plate.

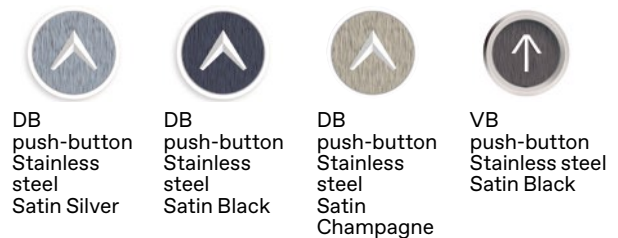
Note: For synergy 300, various vandal-resistant fixtures are available. Please see our dedicated Design Book for more options.

## Landing Operating Panels (LOP)



The modular concept of the landing operator panels allows a customised configuration. They feature stainless steel buttons, and optionally a TFT 3.5" display as well as a key switch zone. Front plate available in stainless steel or black glass. Vandal-resistant LOPs are also available.

## Push-buttons



Standard DB button series with stainless steel faceplate and Braille lettering and round white confirmation lighting. Vandal-resistant VB button series with black stainless steel faceplate. Both series conform with the new EN 81-70 regulation.



**Panels**

Choose between laminate and stainless steel in design line B or decorative glass, patterned laminate and stainless steel in design line A in a great choice of predefined cabins.



**Ceilings**

Select from a great variety of lighting styles in the design lines B and A. With direct or indirect lighting to create the desired atmosphere in your cabin. In addition, vandal-resistant ceilings are available in both design lines.



Lightbox large (standard)



Water Lily large

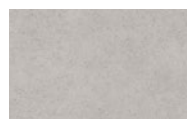


Runaway

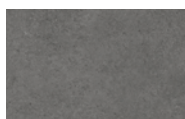


Steel Grille, vandal-resistant

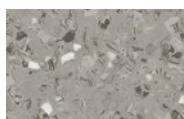
**Floors**



Concrete Light Grey Vinyl



Concrete Dark Grey Vinyl



Eminent Grey Vinyl

Choose from a wide range of hard-wearing vinyls or a custom flooring (e.g. marble) for a more exclusive design. You have the option to supply your own flooring (recess ≤ 25 mm).

**Handrails**



Stainless steel Satin Silver, straight fixing



Stainless steel Satin Black, sloped fixing

Robust stainless steel handrails to place on rear or side walls. Straight fixing for design line B and sloped fixing for design line A.

**Bumper rails**

To protect your cabin walls from damage, bumper rails can be mounted as an option. Available in stainless steel, PVC or wood.



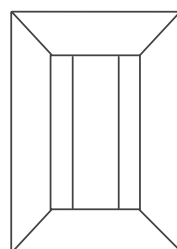
Bumper Wooden European Oak



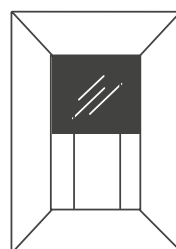
Bumper PVC Snow White

**Mirrors**

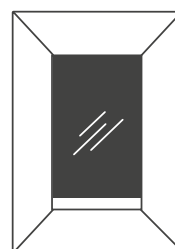
Choose your safety mirror, either in full-width and mid-height or full-width and full-height, both available in design lines A and B. The cabin is also available without mirror.



Without mirror



Full-width, mid-height



Full-width, full-height

Colours, options and specifications are subject to change. All cabin decor options illustrated in this brochure are for illustrative purposes only. The samples shown may vary from the original in colour and material. Patterned samples not to scale. Consult your TK Elevator sales representative about our cabin designer tool and samples.

## SELECTED FEATURES AND OPTIONS

### Comfort

#### Accessibility

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

#### Access control

Cancellation calls by double click in COP	□
Key and Eurokey switch in COP/LOP for access/functions	□
Encoded car calls (ECC)	□
Preference/Independent service of COP	□
Out of service LOP	□
VIP function	□
Prepared for card reader LOP/COP	□

#### Others

Car ventilation fan	□
CCTV multimedia travelling cable	□
Roller guides in car and counterweight	□

### Performance

Parking level in main landing floor	■
Group control system (up to 4 elevators)	□
Building Management System (BMS)	□
Extended Building Management System (BMS)	□
Machine 180 starts/hour (1 m/s)	□
Pre-opening of doors	□

#### Layout

Flexible car dimension in 10 mm-steps	□
Flexible door dimension in 50 mm-steps	□
Reduced overhead	□
Reduced and extra-reduced pit	□
Machine room	□

### 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 3h	■
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)	■
Doors fire rating E120	■
Doors fire rating EI60 / EI120	□
EN 81-20 / 50, Lifts construction and components testing	■
EN 81-28, Emergency call system	■
EN 81-70, Accessibility to lifts	□
EN 81-71, Vandal-resistant (components), partially Category 1	□
EN 81-73, Fire evacuation	□
EN 81-77, Seismic, Category 0 / 1, 2, 3	■ / □

### Design

Predesigned cabins	■
Glass walls finish	□
Custom-fit cabin designs: wall finish selection / glass printing / raw cabin	□
Vandal-resistant false ceiling	□
Preparation for customer-supplied flooring ≤ 25 mm	□
Stainless steel COP / LOP	■
Glass faceplate for COP / LOP	□
Vandal-resistant COP / LOP	□
Double vertical / horizontal COP	□
Vandal-resistant push-buttons	□
TFT 7" display in COP	■
Courtesy LED backlighting in COP / ceiling	□
TFT 3.5" display in LOP, functions / direction	□
LOP, LIP and LDIP surface-mounted on door frame or wall	□
Selectable controller cabinet position	□
Landing doors in primed coating RAL 7032, for painting at jobsite	■
Landing doors in ferritic stainless steel Gr.220D (AISI 441)	□
Landing doors in stainless steel Linen, Champagne	□
Cabin doors in ferritic stainless steel Gr.220D (AISI 441)	■
Cabin doors in stainless steel Linen, Champagne	□
Framed glass doors	□

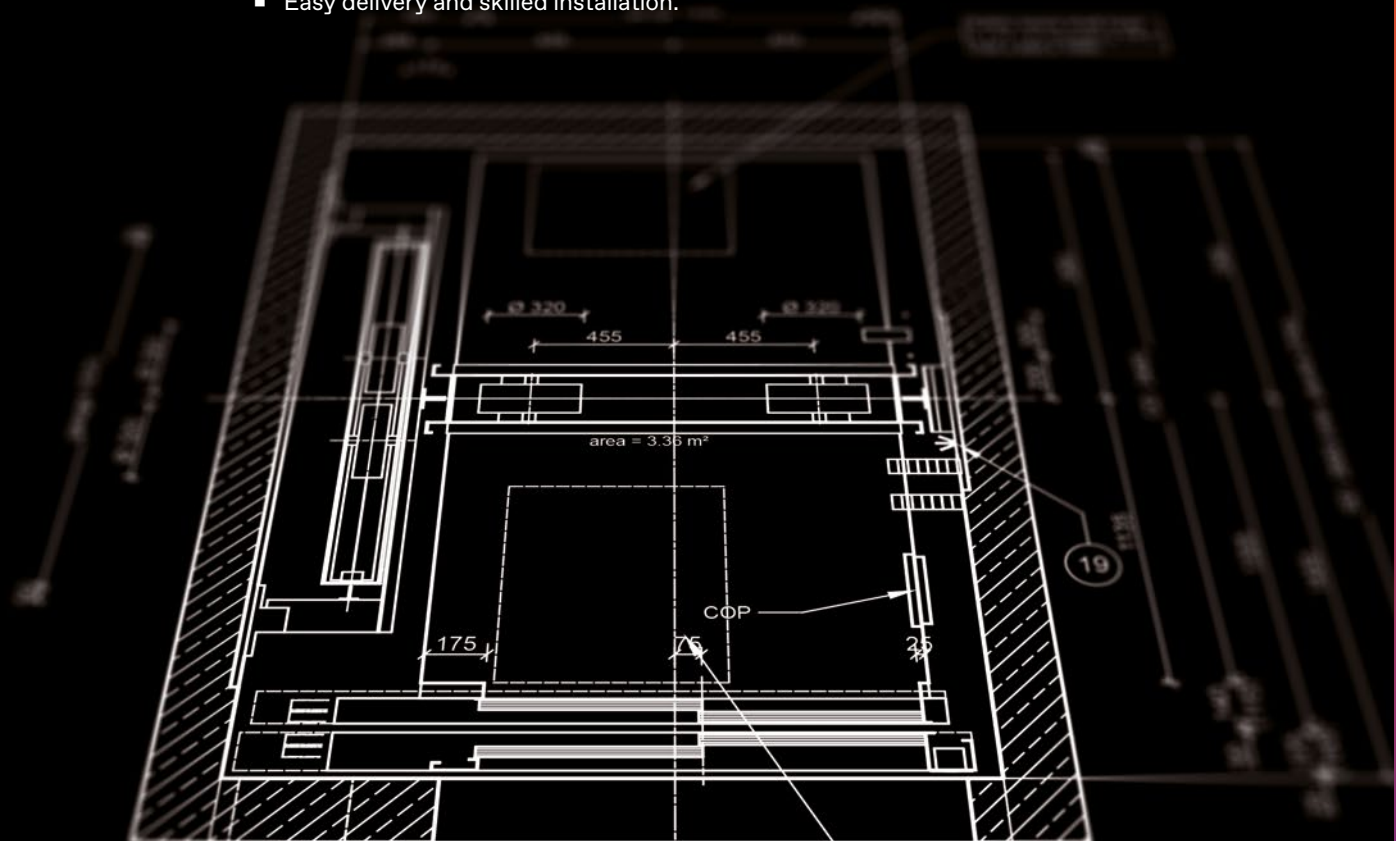
□ Optional product feature ■ Standard product feature

To discover the other options available for synergy 300, please contact your local TK Elevator sales representative.

The details quoted in this sheet can only be viewed as binding when confirmed expressly in writing.

# SUCCESS BEGINS WITH A GREAT PLAN

- We support you from the first idea through to completed installation.
- Our highly experienced commercial team will advise you on the best mobility solutions to meet your requirements.
- Easy delivery and skilled installation.



## synergy 300 in-planner tool

Make the most of your building space and find the optimal dimensions for your new synergy 300 cabin. All you need is either the shaft or cabin measurements. For new installations, you can simply find the smallest possible shaft dimensions for a specific cabin size.



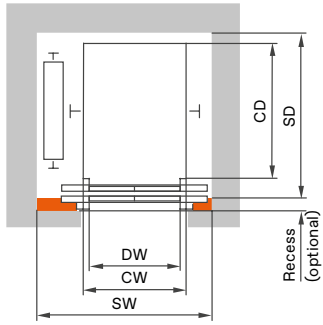
plan-synergy300.  
tkelevator.com

# Technical product scope

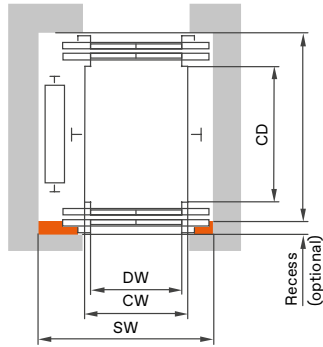
## Door options

### Shaft layout with central-opening door C2

Single entrance

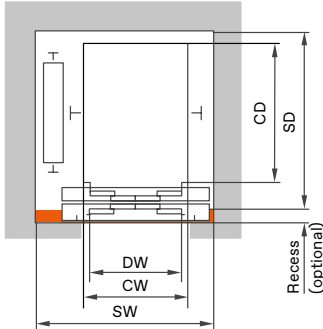


Double entrance

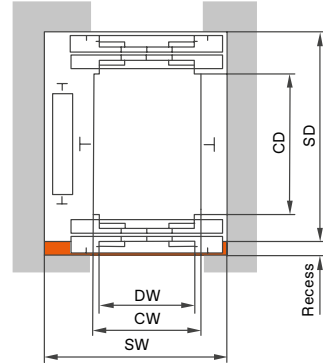


### Shaft layout with central-opening door C4

Single entrance

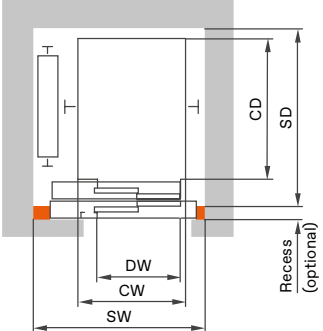


Double entrance

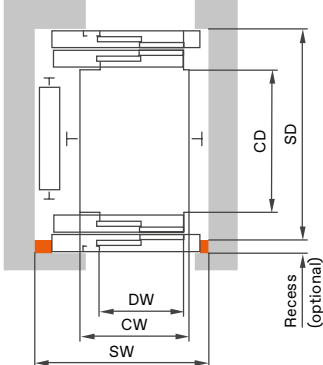


### Shaft layout with side-opening door L2

Single entrance

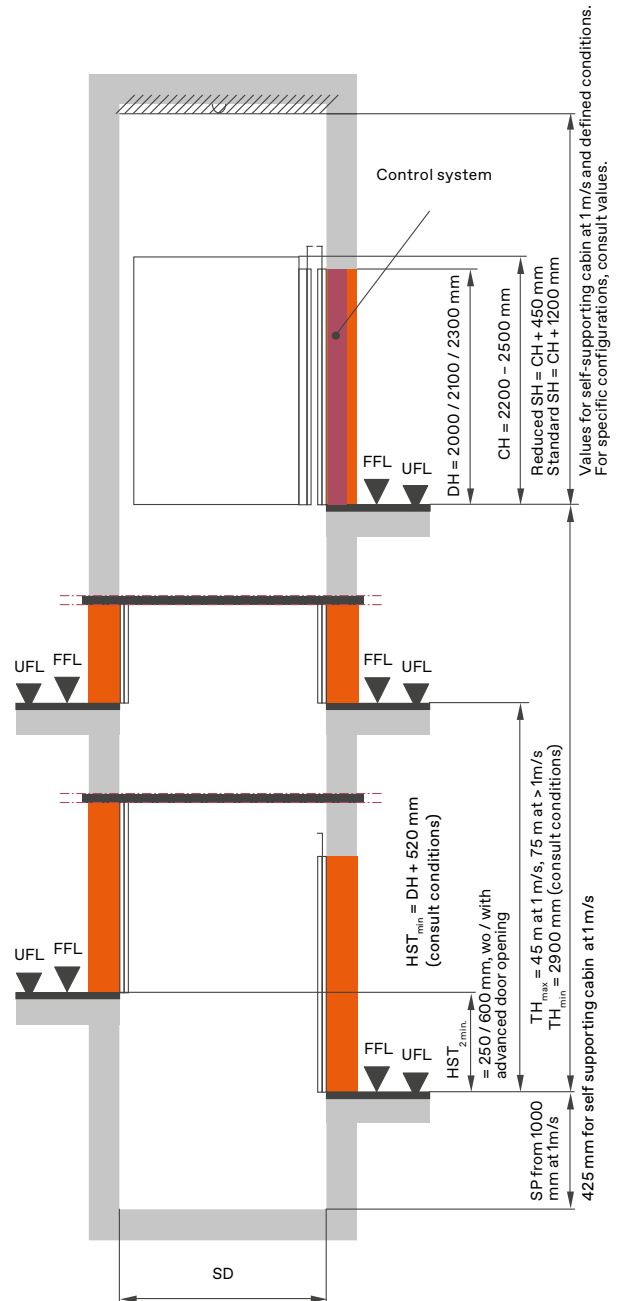


Double entrance



## Shaft planning layout

Vertical section



### Key:

CW: car width

SW: shaft width

SP: shaft pit

FFL: finished floor level

HST: min. height between floors

CD: car depth

SD: shaft depth

DW: door width

UFL: unfinished floor level

CH: car height

SH: shaft head

DH: door height

TH: travel height





The values shown correspond to a generic installation. Please 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.

SYSTEM				CABIN		DOOR				SHAFT														
Rated load (kg)	Passengers	Speed (m/s)	Travel height max. (m)	Car width x car depth (mm)	Car height (mm)	Type of entrance	Door type	Door width (mm)	Door height (mm)	Shaft width (mm)	Shaft depth (mm)	Shaft depth (mm) Door partially in shaft	Shaft depth (mm) Door in shaft	Shaft pit (mm)	Shaft head (mm)									
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																	1000	2000	2250	1760	1850	1940	1000	3400
																	1100	2000	2380	1760	1850	1940	1000	3400
																	900	2000	2100	1700	1770	1825	1460	3745
																	1000	2000	2100	1700	1770	1825	1460	3745
																	1000	2000	2100	1700	1770	1825	1460	3745

**Key:**

S: Single entrance, D: Double entrance, L2: Side-opening door with 2 panels, C2: Central-opening door with 2 panels

**Note:** Optional reduced SP = 425/550 mm and reduced SH from CH + 450 mm, for self-supporting cabin at 1 m/s. Consult values for L2 full front doors, C4 doors and speeds >1 m/s. Shaft dimensions considering a general shaft tolerance of +/- 25 mm on each side.



## Your service partner: always there

Your elevator is in good hands. With one of the leading providers of urban mobility.

On par with our innovative elevators and escalators engineered and manufactured in Europe, the provision of high-quality maintenance and repairs is a core priority at TK Elevator. Our service concept is built on the basis of ensuring maximum passenger comfort, convenience and safety at all times while protecting

the long-term value of your investment – and it extends beyond our own products.

Regardless of make and model, we can cover all your maintenance and service requirements, which is an invaluable advantage for TKE customers.

### Key features of our service offering

- Rapid 24/7 service through our 1,000+ regional branches
- Service packages for all major products or models on the market
- Expert service technicians backed by a global network of service centers, providing them with real-time support on third-party products and models
- Customised, state-of-the-art diagnostic tools to interface with other manufacturers' control systems
- Compliance with all applicable laws and regulations
- Large stock of spare parts for all major lift brands on demand, and efficient logistics capable of swift delivery

### MAX – the game changer that keeps people moving

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



Data gathering



Precise diagnostics



Predictive intervention

MAX is only available in selected markets. Consult your TK Elevator sales representative for further information.

# YOUR INNOVATION PARTNER

elevators and escalators under maintenance

countries of customers

1,200,000 100+

employees

50,000+

service available for customers

locations

24/7 1,000+

service technicians

24,000+



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