


SYNERGY 200:
STYLISH
AND
FLEXIBLE





STYLISH AND FLEXIBLE FOR RESIDENTIAL BUILDINGS

synergy 200 is the ideal solution for low- and mid-traffic residential buildings with demanding design and exceptional flexibility requirements.

With its timeless elegance and outstanding efficiency, synergy 200 meets the highest demands in terms of comfort, flexibility and design for residential buildings. Featuring the latest technology, high-quality materials and an impressive design, synergy 200 offers enhanced comfort for passengers and adds value to residential buildings.

Choose synergy 200 and trust in TK Elevator's expertise. Our excellent service ensures maximum availability and optimum functionality for longer, resulting in increased user satisfaction. Thanks to its flexible cabin sizes, this elevator is the perfect choice for modernisation projects that require full replacement.



made in europe
At our elevator manufacturing
centers in Germany and Spain.

OVERVIEW SYNERGY 200

Elevator type	Machine room-less, optional machine room
Passengers	4 to 13 passengers
Load	320 / 450 / 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	41 predesigned cabins / custom-fit solutions
Door types	Side-opening with 2 or 3 panels, central-opening with 2 or 4 panels
Door opening width	From 700 mm to 1,100 mm
Door height	Up to 2,300 mm

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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.



Space flexibility, efficiency and stylish design in one elevator

If you are planning a new residential building in the comfort or premium segment, your customers will be expecting a reliable elevator solution with exceptional flexibility and quality. With its adjustable dimensions and a wide range of options, synergy 200 adjusts to your needs and fits seamlessly into your building.



Space efficiency and flexibility

Whether you choose standard dimensions for overhead and pit or a version with reduced dimensions – synergy 200 is best-in-class. In addition to the available standard cabin dimensions, you can match the cabin size to the shaft in 10 mm-steps.



Energy efficiency

synergy 200 offers several standard features that keep energy costs in the green range, such as LED lighting, automatic stand-by operation and its efficient, gearless machine. synergy has been given a Class A rating for energy efficiency.



Sophisticated design

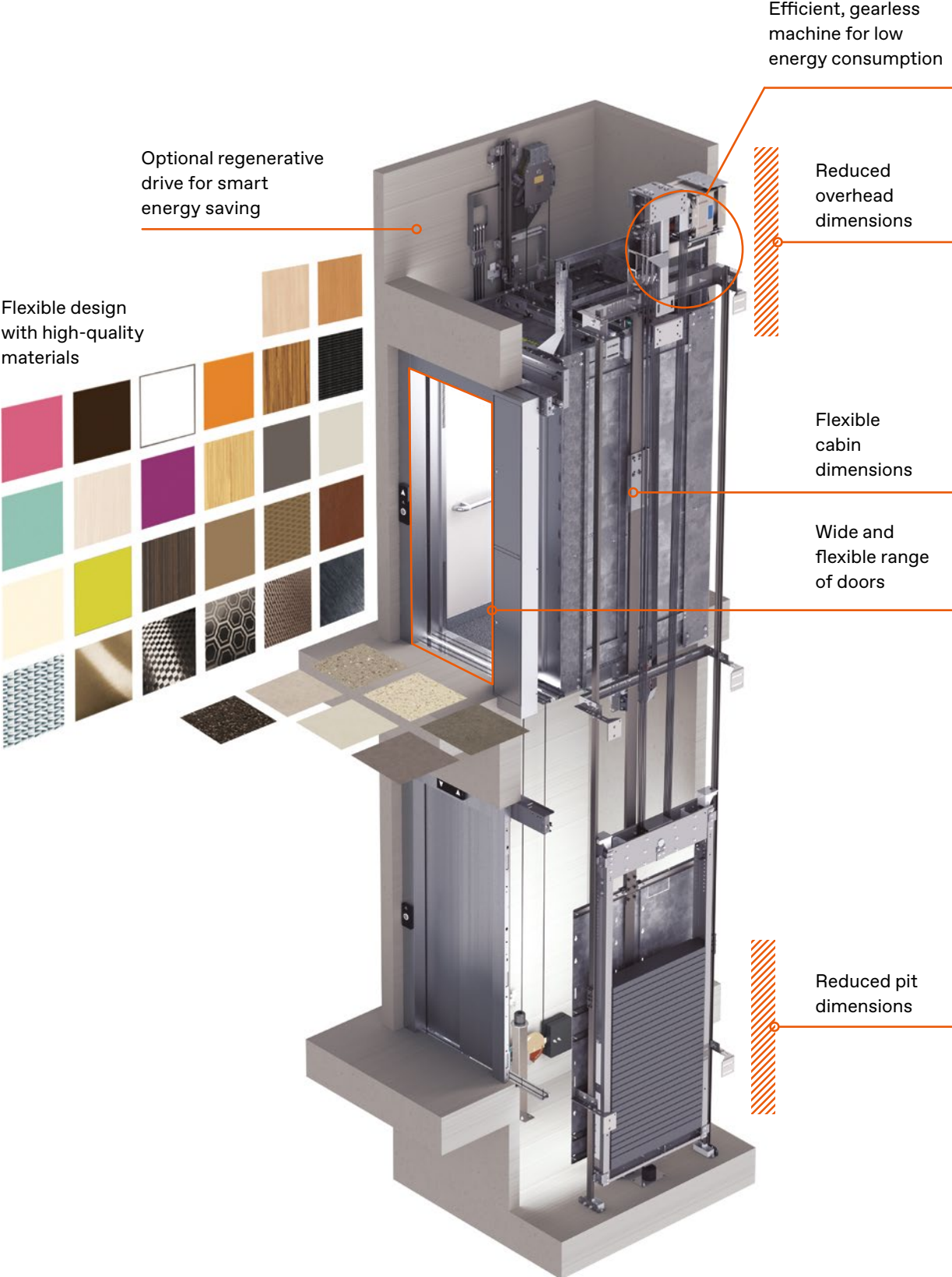
Select one of 41 predesigned cabin interiors that are available in the D and E design lines or tailor the cabin design to your needs with our custom-fit solutions. High-quality laminates or glass walls add a personal touch to your cabin.



Best-in-class installation and service

Efficient installation thanks to optimised manufacturing processes, a modular product concept and experienced installation teams. Professional, friendly and rapid service with regional service branches and personal contacts.

**One elevator.
Many benefits.**



PERFORMANCE EFFICIENCY COMFORT SAFETY & REGULATIONS DESIGN

Performance

Proven performance complements and enhances your building.



Gearless machine designed in Germany: high performance and quality ensure smooth operation and a long and reliable working life.



Controller: the CMC4+ 20/50 controller ensures reliable and safe operation of the elevator and reduces energy consumption.



Variable door sizes: synergy 200 offers a wide range of door and opening sizes, adapted to the building configuration and performance requirements.



High performance based on TKE experience: synergy 200 is engineered and tested by TK Elevator. Proven components guarantee reliable performance and longevity of your elevator.

Energy efficiency

Efficient, throughout the entire product life cycle.

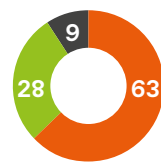
Sustainability is part of our corporate strategy. It involves the holistic improvement of our products and processes to help you reduce the environmental footprint of your buildings and qualify for LEED® and BREEAM® certification by incorporating green features in our elevators.

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 CO₂ 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.



- 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.



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.



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.

45% savings by adding sleep mode option

Comfort

When an elevator ride becomes an experience.



- **High-quality materials and extraordinary design:** synergy 200 is a pleasure for all the senses.
- **Silent and low-vibration:** thanks to high-quality materials and sound insulation, synergy 200 operates silently and very smoothly.
- **Landing accuracy:** the controller guarantees accurate levelling. Landing accuracy of +/- 3 mm ensures safe and comfortable access for passengers.
- **Accessibility:** synergy 200's standard features cover most of the accessibility requirements of the new EN 81-70:2018 European standard. These include cabin and door dimensions, a large safety mirror, luminance contrast in fixtures, large push-buttons with Braille lettering, as well as voice announcements and adjustable sound level.

Safety & regulations

Safety that meets the highest standards.

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.

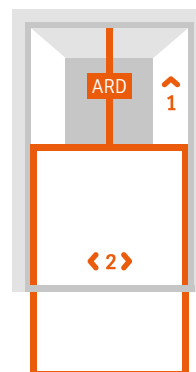


Highest standards: we design and test to the highest standards and manufacture our own safety components.



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: E33
Ambiance: Sharp
Ceiling: Steel Grille
Walls: Stainless steel, Gr. 220D
Floor: Vinyl, Esquisse Grey
COP: Edge

Design lines for synergy 200

The collection of predesigned cabins of the E and D design lines have been created by expert designers to achieve a wide spectrum of atmospheres. synergy 200 combines genuine style with quality materials, such as stainless steel, laminate or glass. This adds to the premium feel while ensuring long-lasting good looks.

Design line E

Characterised by fresh and natural colour combinations, the E design line offers a great choice of predesigned cabins in stainless steel or high-quality laminates and melamines.



E32

Design line D

Geared to high-end residential buildings, the D design line's range of predesigned cabins offers great versatility. They represent a qualitative step up in materials and interior finishes, using either patterned stainless steel, exclusive laminates or decorative glass.



D32

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



e-design-synergy.tkelevator.com

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



d-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 200

Car Operating Panels (COP)



synergy 200 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.

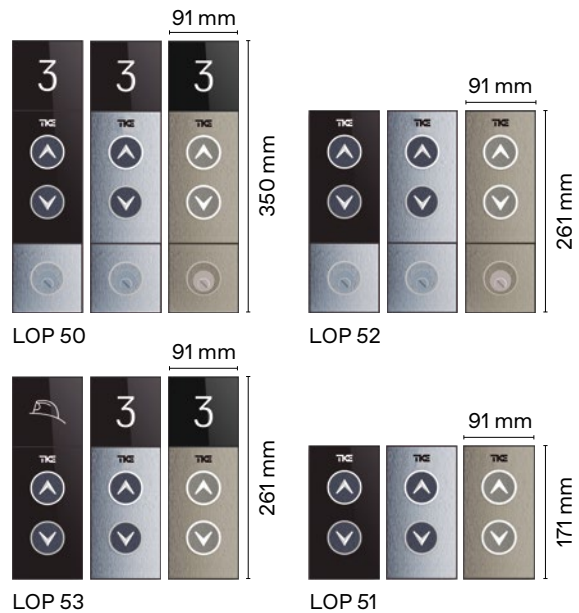
Landing Direction Indicator Panels (LDIP) & Landing Indicator Panels (LIP)



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

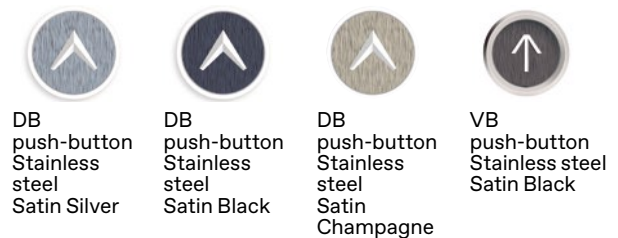
Note: For synergy 200, various vandal-resistant fixtures are available. Please see our dedicated Design Book for more options.

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.

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 among melamines, laminates and stainless steel in the E design line and decorative glass, laminate or steel in the D design line in our predesigned cabins.



Ceilings

Select from a wide range of lighting styles and different colours with direct or indirect lighting to create the desired atmosphere in your cabin. In addition, vandal-resistant ceilings are available in both design lines.



LED lighting plate (standard)



Lightbox

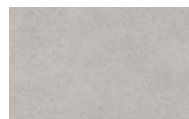


Tiffany

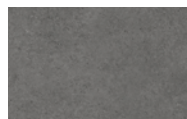


Steel Grille, vandal-resistant

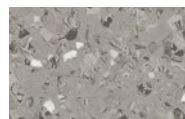
Floors



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

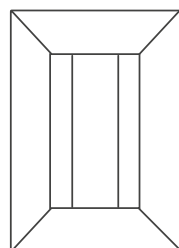


Stainless steel Satin Black, sloped fixing

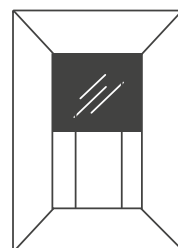
Robust stainless steel handrails to place on rear or side walls. Straight fitting for E design line and sloped fitting for D design line.

Mirrors

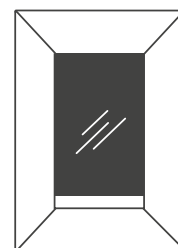
Choose the partial-width and partial-height silver safety mirror for the E design line or the full-width and full-height silver or smoked safety mirror for the D design line. The cabin is also available with full-width and mid-height safety mirror or without a mirror in both E and D design lines.



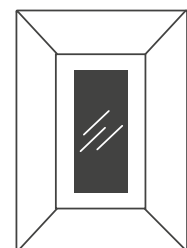
Without mirror



Full-width, mid-height



Full-width, full-height



Partial-width and partial-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	■
Induction 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	○
Penthouse control	□
VIP function	□
Prepared for card reader LOP/COP	□

Others

Car ventilation fan	□
CCTV multimedia travelling cable	□

Performance

Parking level in 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 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 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)	■
Doors fire rating E120	■
Doors fire rating EI60 / EI120 / EW60 (EN81-58)	□
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

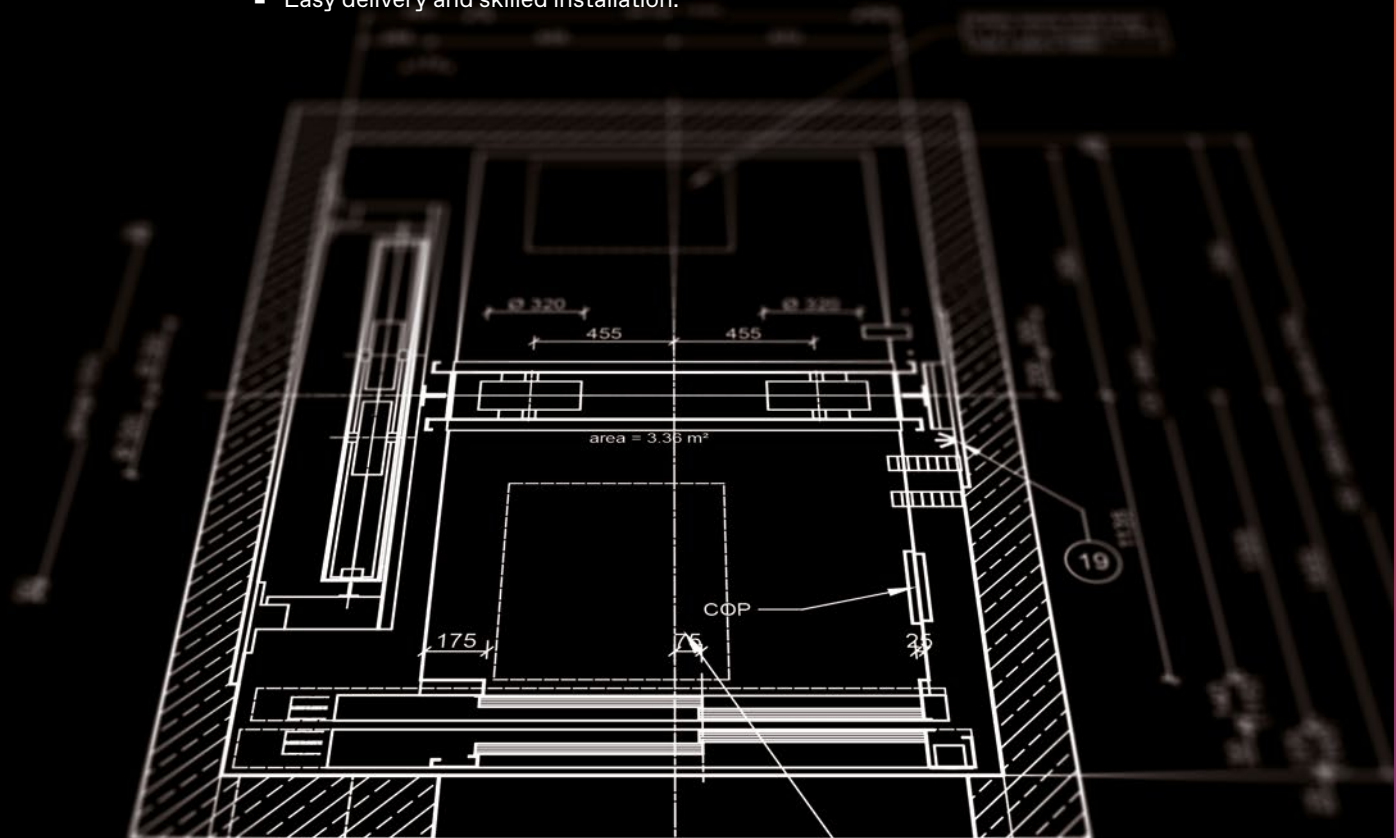
Pre-designed cabins	■
Glass walls finish	□
Custom-fit cabin designs: wall finish selection / glass printing / raw cabin	□
Vandal-resistant false ceiling	□
Preparation for customer-supplied flooring ≤ 25 m	□
Stainless steel COP/LOP	■
Glass faceplate for COP/LOP	□
Vandal-resistant COP / LOP	□
Double vertical / 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 200, 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 200 in-planner tool

Make the most of your building space and find the optimal dimensions for your new synergy 200 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. For modernisation projects, you can easily optimise the cabin size to fit a particular shaft.



plan-synergy200.
tkelevator.com

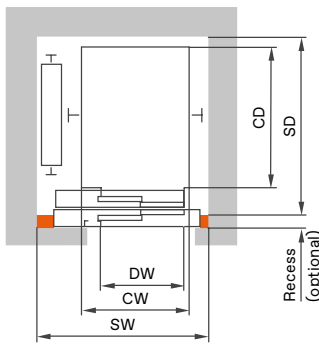
Technical product scope

Door options

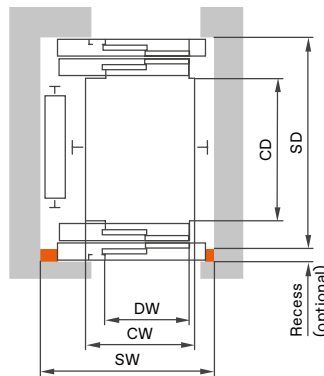
Shaft planning layout

Shaft layout with side-opening door L2

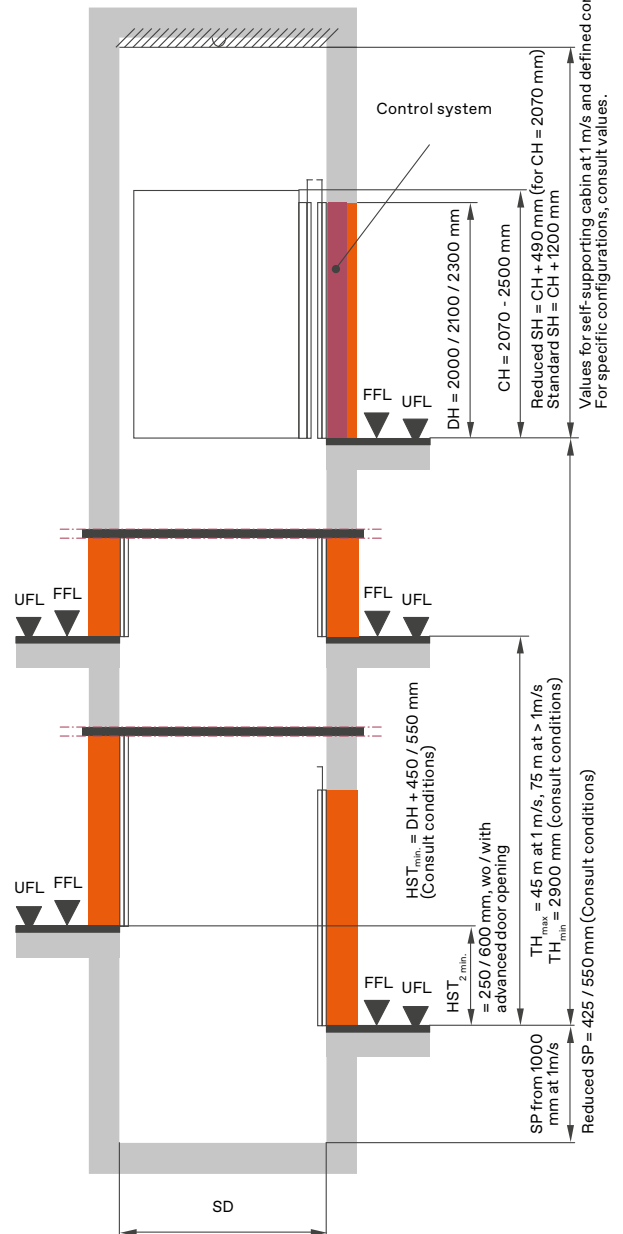
Single entrance



Double entrance

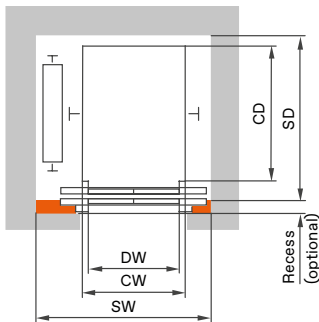


Vertical section

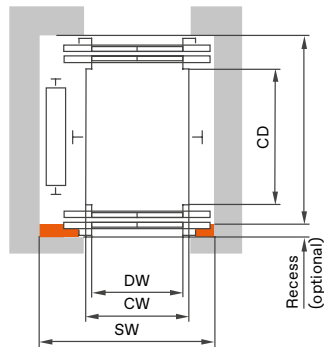


Shaft layout with central-opening door C2

Single entrance



Double entrance



Key:

CW: car width	DW: door width
CD: car depth	DH: door height
CH: car height	FFL: finished floor level
SW: shaft width	UFL: unfinished floor level
SD: shaft depth	TH: travel height
SH: shaft head	HST: min. height between floors
SP: shaft pit	



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 width (mm) - Full front	Shaft depth (mm) - Door in recess	Shaft depth (mm) - Full front	Shaft depth (mm) - Door partially in shaft	Shaft depth (mm) - Door in shaft	Shaft pit (mm)	Shaft head (mm)
320	4	1.0	45	850 x 1000	2070-2500	S/D	L2/C2	700-800	2000-2300	1350	-	1300	-	1370	1425	1100	3485
					2200	S	L2	700	2000								
		D	L2	700	2000												
		2070-2500	S/D	L2/C2	700-800	2000-2300	1445	-	1300	-	1370	1425	1100	3485			
2200	S	L2	800	2000													
D	L2	800	2000														
450	6	1.0	45	1000 x 1250	2070-2500	S/D	L2/C2	700-900	2000-2300	1500	1505	1550	1540	1610	1675	1000	3400
					2200	S	L2	800	2000								
		D	L2	800	2000												
		2070-2500	S/D	L2/C2	700-900	2000-2300	1500	1505	1600	1590	1660	1725	1000	3400			
2200	S	L2	800	2000													
D	L2	800	2000														
630	8	1.0	45	1100 x 1400	2070-2500	S/D	L2/C2	700-1000	2000-2300	1600	1600	1700	1690	1760	1825	1000	3400
					2200	S	L2	800	2000								
					D	L2	800	2000									
					2070-2500	S/D	L2/C2	700-1000	2000-2300	1600	1605	1830	1830	1980	2080	1000	3400
					2200	S	L2	800	2000								
					D	L2	800	2000									
		2070-2500	S/D	L2/C2	700-1000	2000-2300	1600	1605	1830	1830	1980	2080	1000	3400			
		2200	S	C2	900	2000											
		D	C2	900	2000												
		2070-2500	S/D	L2/C2	700-1000	2000-2300	1600	1610	1700	1700	1770	1825	1350	3615			
		2200	S	L2	900	2000											
		D	L2	900	2000												
1.6	75	S	L2	900	2000												
1.75	75	S	L2	900	2000												
825	10	1.0	45	1350 x 1400	2070-2500	S/D	L2/C2	700-1000	2000-2300	1850	-	1700	-	1760	1825	1000	3400
					2200	S	L2	900	2000								
					D	L2	900	2000									
					2070-2500	S/D	L2/C2	700-1000	2000-2300	1850	-	1830	-	1980	2080	1000	3400
					2200	S	L2	1000	2000								
					D	L2	1000	2000									
		2070-2500	S/D	L2/C2	700-1000	2000-2300	1850	-	1665	-	1695	1755	1000	3400			
		2200	S	C2	900	2000											
		D	C2	900	2000												
		2070-2500	S/D	L2/C2	700-1000	2000-2300	1850	-	1760	-	1850	1940	1000	3400			
		2200	S	C2	1000	2000											
		D	C2	1000	2000												
1.6	75	S	L2	1000	2000												
1.75	75	S	L2	1000	2000												
1000	13	1.0	45	1100 x 2100	2070-2500	S/D	L2/C2	700-1000	2000-2300	1600	1600	2400	2390	2460	2525	1000	3400
					2200	S	L2	800	2000								
					D	L2	800	2000									
					2070-2500	S/D	L2/C2	700-1000	2000-2300	1600	1600	2530	2530	2680	2780	1000	3400
					2200	S	L2	900	2000								
					D	L2	900	2000									
		2070-2500	S/D	L2/C2	700-1000	2000-2300	1800	-	2365	-	2395	2455	1000	3400			
		2200	S	C2	800	2000											
		D	C2	800	2000												
		2070-2500	S/D	L2/C2	700-1000	2000-2300	1800	-	2460	-	2550	2640	1000	3400			
		2200	S	C2	900	2000											
		D	C2	900	2000												
1.6	75	S	L2	1000	2000												
1.75	75	S	L2	1000	2000												
1000	13	1.0	45	1400 x 1600	2070-2500	S/D	L2/C2	700-1000	2000-2300	1900	-	1900	-	1960	2025	1000	3400
					2200	S	L2	900	2000								
					D	L2	900	2000									
					2070-2500	S/D	L2/C2	700-1000	2000-2300	1900	-	2030	-	2180	2280	1000	3400
					2200	S	L2	1000	2000								
					D	L2	1000	2000									
		2070-2500	S/D	L2/C2	700-1000	2000-2300	1900	-	2030	-	2180	2280	1000	3400			
		2200	S	C2	900	2000											
		D	C2	900	2000												
		2070-2500	S/D	L2/C2	700-1000	2000-2300	1900	-	1865	-	1895	1955	1000	3400			
		2200	S	C2	1000	2000											
		D	C2	1000	2000												
2070-2500	S/D	L2/C2	700-1000	2000-2300	1900	-	1960	-	2050	2140	1000	3400					
2200	S	C2	900	2000													
D	C2	900	2000														
1.6	75	S	L2	1000	2000												
1.75	75	S	L2	1000	2000												
1000	13	1.0	45	1600 x 1400	2070-2500	S/D	L2/C2	700-1000	2000-2300	2100	-	1700	-	1760	1825	1000	3400
					2200	S	L2	1000	2000								
					D	L2	1000	2000									
					2070-2500	S/D	L2/C2	700-1000	2000-2300	2100	-	1830	-	1980	2080	1000	3400
					2200	S	L2	1000	2000								
					D	L2	1000	2000									
		2070-2500	S/D	L2/C2	700-1000	2000-2300	2100	-	1665	-	1695	1755	1000	3400			
		2200	S	C2	1000	2000											
		D	C2	1000	2000												
		2070-2500	S/D	L2/C2	700-1000	2000-2300	2100	-	1760	-	1850	1940	1000	3400			
		2200	S	L2	1000	2000											
		D	L2	1000	2000												
1.6	75	S	L2	1000	2000												
1.75	75	S	L2	1000	2000												

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 = CH+490 mm, for CH=2070 mm and self supporting cabin at 1m/s. Consult shaft dimensions for 1.6 and 1.75 m/s speed. 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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