

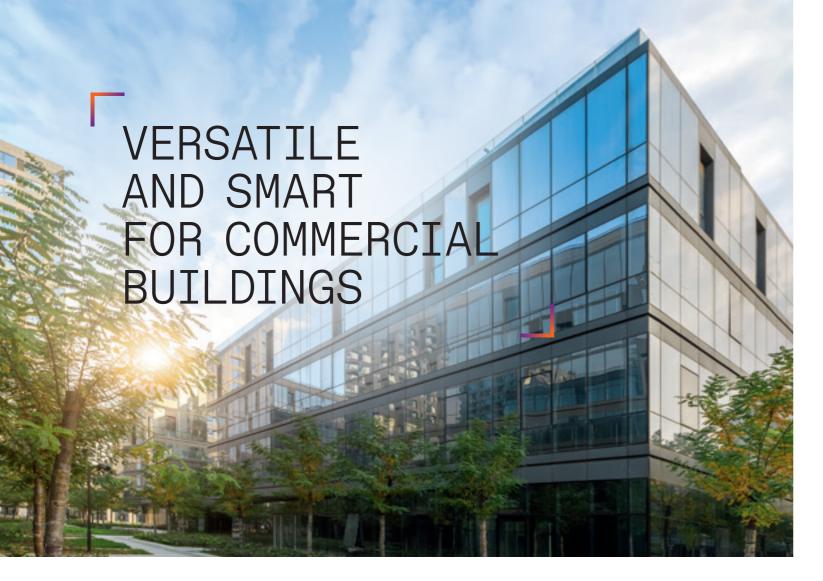
SYNERGY 300: VERSATILE AND SMART 0,0,0

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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 Up to 75 m					
Travel height						
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					



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synergy 300
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About us

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 midtraffic 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 lowduty commercial applications

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

→ 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

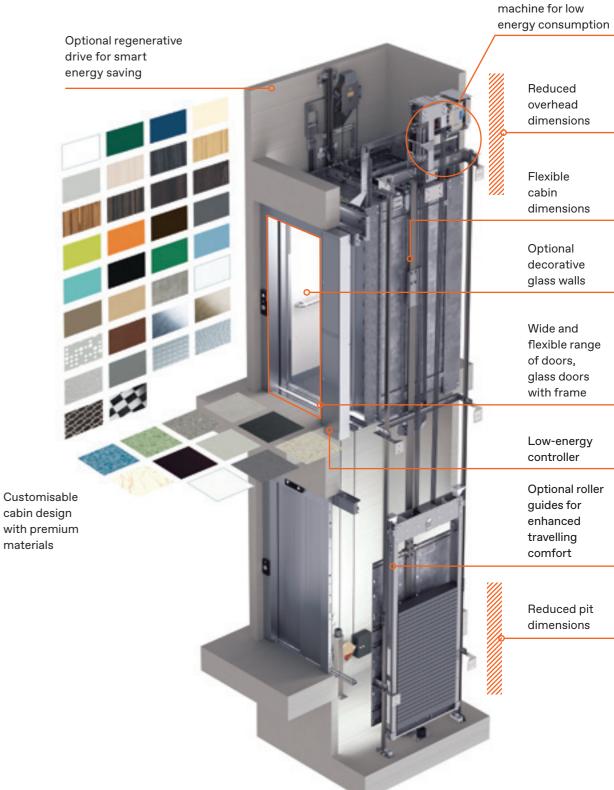
Choose from a large predesigned cabin collection available in the A and B design lines or enjoy complete freedom of choice with our affordable custom-fit options. Highquality materials like stainless steel, premium laminates or glass create a unique atmosphere.



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.



Efficient, gearless

SYNERGY 300 BENEFITS AT A GLANCE SYNERGY 300 BENEFITS AT A GLANCE

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

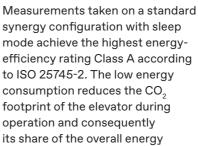
Economic viability - throughout the entire product life cycle.

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.





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



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.



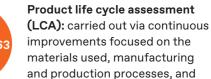
Standby mode: cabin lighting comes with automatic switch-off as standard.

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



- production (%) Operation (%)
- Others (%)



operation. In this way, we minimise Materials 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.

PERFORMANCE ENERGY EFFICIENCY

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.



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.

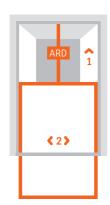


Highest standards: we design and test to the highest standards and manufacture our own safety components.



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.



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.

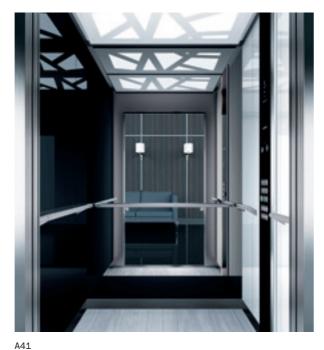
Design line B

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

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.





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



b-design-synergy.tkelevator.com

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



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.





10 DESIGN LINES FOR SYNERGY 300 HIGHEST FLEXIBILITY: CUSTOM-FIT SOLUTIONS

Panels, buttons, handrails, and more for synergy 300

Car Operating Panels (COP)

Alto full height Edge high Alto Edge 210/260 x 1139 × 32 mm 210/260 x 210/260 x 260/310 x

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)



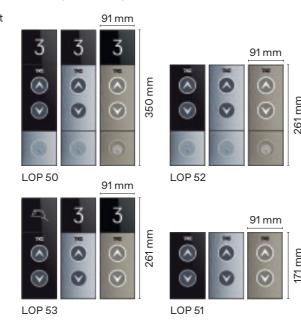


LDIP 50: 91 × 101 × 21 mm LIP 50: 261 × 91 × 21 mm

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

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



Satin Silver





Satin Black





Champagne

steel

Satin

push-button Stainless steel Satin Black

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 predesigned 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

Handrails

Steel Grille, vandal-resistant

Floors











Concrete Light Grey Vinyl Grey Vinyl

Stainless steel Satin Silver, straight fixing

fixing for design line A.

Stainless steel Satin Black sloped fixing

Choose from a wide range of hard-wearing vinyls or marble for a more exclusive design. You also have the

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

option to supply your own flooring (recess ≤ 25 mm).

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

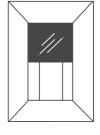
European Oak





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

Full-width

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

12 DESIGN 13

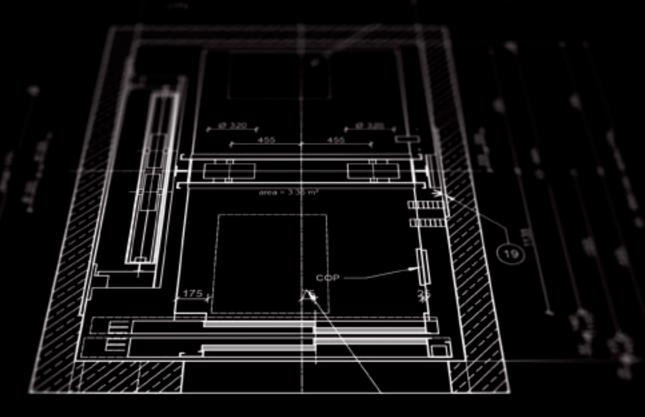
SELECTED FEATURES AND OPTIONS

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	0
XL horizontal COP with XL push-buttons	0
Access control	
Cancellation calls by double click in COP	
Key and Eurokey switch in COP/LOP for access/functions	0
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	0
CCTV multimedia travelling cable	0
Roller guides in car and counterweight	
Performance	
Parking level in main landing floor	•
Group control system (up to 4 elevators)	0
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	0
Flexible door dimension in 50 mm-steps	
Reduced overhead	0
Reduced and extra-reduced pit	0
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	
Emergency lighting in cabin 3 n	

Two- / three-way intercom	
Safety gear on counterweight	
Water pit sensor	
Escape hatch	0
Halogen-free shaft wiring (except for the motor and travelling cable)	•
Doors fire rating E120 / EW60 (EN 81-58)	•
Doors fire rating El60 / El120	
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	0
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	0
LOP, LIP and LDIP surface-mounted on door frame or wall	0
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	

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

Automatic evacuation to next landing Automatic evacuation to any landing

[□] 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.

Technical product scope

Door options Shaft planning layout Shaft layout with central-opening door C2 Single entrance Double entrance Vertical section Control system CW CW Shaft layout with central-opening door C4 Single entrance Double entrance CW CW Shaft layout with side-opening door L2 UFL FFL Single entrance Double entrance CW SD CW Key: CW: car width SW: shaft width FFL: finished floor level SP: shaft pit HST: min. height between floors CD: car depth SD: shaft depth DW: door width UFL: unfinished floor level

TH: travel height

DH: door height

CH: car height

SH: shaft head

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.

SYST	ΓΕM			CABIN		DO	0R			SHAF	т				
						DO	on-			ЗПАГ					
Rated load (kg)	Passengers	Speed (m/s)	Travel height max. (m)	Car width x car depth (mm)	Car height (mm)	Type of en- trance	Doortype	Door width (mm)	Door height (mm)	Shaft width (mm)	Shaft depth (mm) Door in recess	Shaft depth (mm) Door partially in shaft	Shaft depth (mm) Door in shaft	Shaft pit (mm)	Shaft head (mm)
	ห๊ค๊	(F)	1												
					2200- 2500	S/D	L2/ C2	900- 1000	2000- 2300						
600	•	4.0	45	1100 x	2200	S	L2	900	2000	1600 1750	1700 1700	1760 1760	1825 1825	1000	3400 3400
630	8	1.0	45	1400		D	L2	900	2000	1600 1750	1830 1830	1980 1980	2080	1000	3400 3400
						S	C2	900	2000	1980	1665	1695	1755	1000	3400
		1.6	75		2200	D S	C2 L2	900	2000	1980 1600	1760 1700	1850 1770	1940 1825	1000 1350	3400 3615
			10		2200			1000	2000	1750	1700	1770	1825	1350	3615
		1.75	75		2200	S	L2	900	2000	1600 1750	1700 1700	1770 1770	1825 1825	1460 1460	3745 3745
					2200-	S/D	L2/	900-	2000-	11.00	11 00	1110	1020	1700	3173
					2500	3/0	C2	1100	2300	4050	4700	4700	4005	4000	2400
					2200	S	L2	900 1000	2000	1850 1850	1700 1700	1760 1760	1825 1825	1000	3400 3400
825	10	1.0	45	1350 x 1400		D	L2	900	2000	1850	1830	1980	2080	1000	3400
				1400				1000 900	2000	1850 2025	1830 1665	1980 1695	2080 1755	1000 1000	3400 3400
						S 	C2	1000	2000	2180	1665	1695	1755	1000	3400
						D	C2	900	2000	2025 2180	1760 1760	1850 1850	1940 1940	1000	3400 3400
		1.6	75		2200	S	L2	1000	2000	1850	1700	1770	1825	1350	3615
		1.75	75		2200 2200-	S	L2/	1000 900-	2000-	1850	1700	1770	1825	1460	3745
					2500	S/D	C2	1000	2300						
				1100 x	2200	S	L2	900	2000	1600 1745	2400 2400	2460 2460	2525 2525	1000	3400 3400
1000	13	1.0	45	2100			L2	900	2000	1600	2530	2680	2780	1000	3400
						S	C2	900	2000	1745 1980	2530 2365	2680 2395	2780 2455	1000	3400 3400
						D	C2	900	2000	1980	2460	2550	2640	1000	3400
		1.6	75		2200	S	L2	900 1000	2000	1600 1750	2400 2400	2470 2470	2525 2525	1350 1350	3615 3615
		1.75	75		2200	S	L2	900	2000	1600	2400	2470	2525	1460	3745
					2200-		L2/	1000 900-	2000-	1750	2400	2470	2525	1460	3745
					2500	S/D	C2	1100	2300						
					2200	S	L2	1000	2000	1900 1900	1900 1900	1960 1960	2025 2025	1000	3400 3400
1000	13	1.0	45	1400 x			L2	1000	2000	1900	2030	2180	2280	1000	3400
.000	.5			1600				1100	2000	1900 2180	2030 1865	2180 1895	2280 1955	1000	3400 3400
						S	C2	1100	2000	2380	1865	1895	1955	1000	3400
						D	C2	1000	2000	2180 2380	1960 1960	2050	2140 2140	1000	3400 3400
		1.6	75		2200	S	L2	1000	2000	1900	1900	1970	2025	1350	3615
		1.75	75		2200	S	L2/	1000	2000	1900	1900	1970	2025	1460	3745
					2200- 2500	S/D	L2/ C2	900- 1100	2000- 2300						
					2200	s	L2	1000	2000	2100 2100	1700 1700	1760 1760	1825 1825	1000	3400 3400
1000	13	1.0	45	1600 x			L2	1000	2000	2100	1830	1980	2080	1000	3400
				1400				1000	2000	2100 2250	1830 1665	1980 1695	2080 1755	1000	3400 3400
						S 	C2	1100	2000	2380	1665	1695	1755	1000	3400
						D	C2	1000	2000	2250 2380	1760 1760	1850 1850	1940 1940	1000	3400 3400
		1.6	75		2200	S	L2	1000	2000	2100	1700	1770	1825	1350	3615
		1.75	15		2200	<u>S</u>	L2	1000	2000	2100	1700	1770	1825	1460	3745

Kev:

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.

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SHAFT PLANNING LAYOUT



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+

18 SERVICE ABOUT US



WWW.TKELEVATOR.COM