

Elevator Technology

# synergy 300

Versatile and smart.



thyssenkrupp





# 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 / 1000 kg
Speed	1.0 / 1.6 / 1.75 m/s
Travel height	Up to 60 m
Number of stops	Up to 20 stops
Cabin	55 predesigned cabins
Door types	Side-opening with 2 panels, central-opening with 2 or 4 panels
Door opening width	900 / 1000 mm
Door height	2000 / 2100 / 2300 mm



## 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 modernizing existing buildings.

### synergy 300

#### Versatile and smart.

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

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# The elevator solution that adapts to your business.

Its variety of features and options, specifically developed for commercial environments, as well as flexible design make 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 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

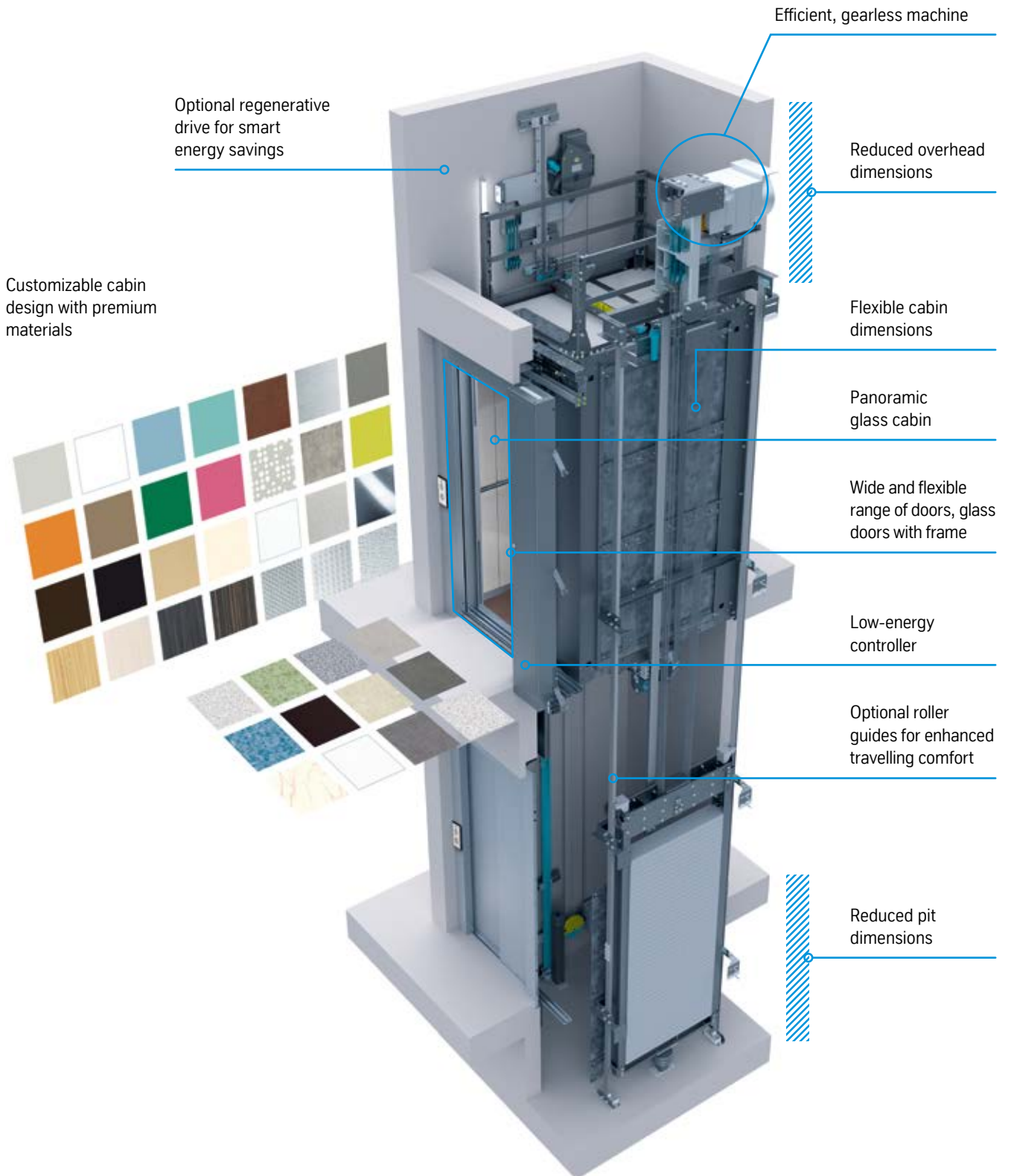
Choose from 55 predesigned cabin interiors available in the A and B design lines or enjoy complete freedom of choice with our affordable custom-fit options. High-quality materials like stainless steel, premium laminates or glass create a unique atmosphere.



## 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.



Comfort  
Performance  
Design  
Efficiency  
Safety & regulations

# 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, easy operation fixtures and solutions for a silent and comfortable ride.
- **Accessibility:** cabin and door dimensions, the safety mirror, high-contrast landing indicators, voice announcements and push-buttons with Braille lettering meet the accessibility requirements of the EN 81-70 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.

# Performance.

Engineered to perform for your business.



**Gearless machine designed in Germany:** high performance, high efficiency, low energy consumption and no contaminant lubricants. 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 thyssenkrupp experience:** synergy 300 is engineered and tested by thyssenkrupp. Proven components guarantee reliable performance and longevity of your elevator.

# Design.

Endless possibilities that exceed expectations.

The design lines A and B as well as custom-fit solutions offer endless possibilities to make the elevator part of your corporate design scheme. From stainless steel, to premium laminates or panoramic glass cabins - you are spoiled for choice.

## Handrails



St. Steel Satin Silver,  
straight fitting

St. Steel Satin Black,  
sloped fitting

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

## 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 choice of 55 pre-designed cabins.

## Ceilings

Select from 7 lighting styles in design line B, and 9 styles in design line A. With direct or indirect lighting to create the desired atmosphere in your cabin.

## Push-buttons

Standard round push-buttons in different stainless steel finishes. These include Braille lettering, main floor green frame and round white confirmation LED light.



LOP 50



DB-01, push-button  
with stainless steel  
faceplate.

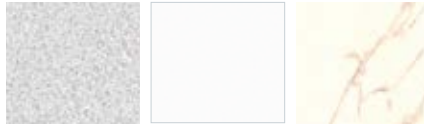


LIP 50



LDIP 50

## Floors



Clic Claire  
vinyl

Artic White  
sintered compact

Calacatta  
sintered compact

Choose from hard-wearing vinyls or sintered compact surfaces with the look of stone or marble for a more exclusive design. You also have the option to supply your own flooring (recess <20 mm).

## 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.

## Bumper rails

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

## Landing Operating Panels (LOP)

The configurable concept of the landing operator panels allows a customized design. 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.

## Landing Direction Indicator Panels (LDIP)

Achieve a modern, neutral look with black glass face plate on the landing indicators.

## Landing Indicator Panel (LIP)

The LIP surface installation module is set in black safety glass.



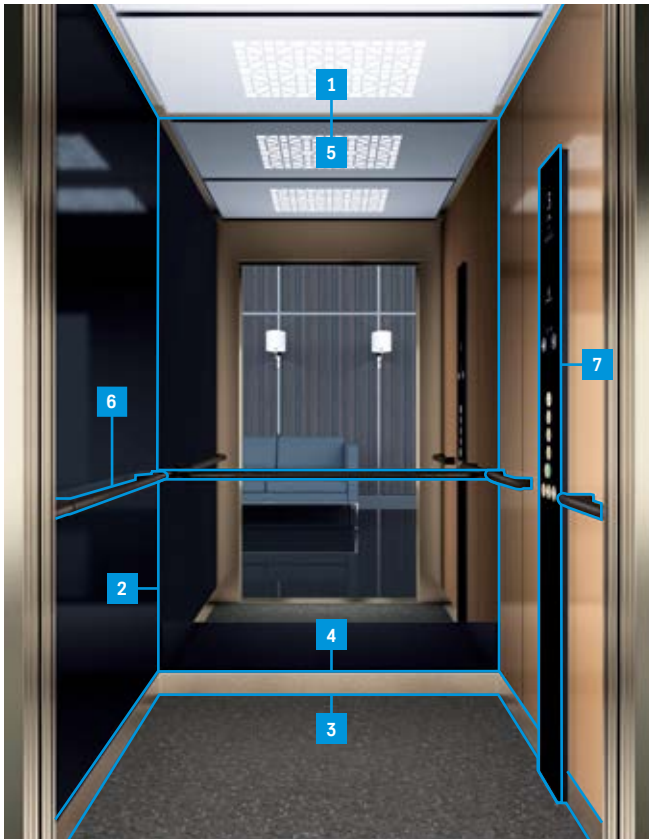
Edge high

Alto full height

## Car Operating Panels (COP)

synergy 300 offers 4 different elegant vertical car operating panels with robust stainless steel or tempered glass surface and 7" TFT display.





To discover the full design collection, including all cabin designs, walls, flooring, ceiling and signaling options, please see our dedicated design brochure.

## 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. From the individual selection of wall panels to the complete redesign of your cabin, contact your thyssenkrupp Elevator sales representative for more information.

Select individually within your chosen design line:

- |            |                    |
|------------|--------------------|
| 1 Ceilings | 5 Mirrors          |
| 2 Walls    | 6 Handrails        |
| 3 Floors   | 7 Operating panels |
| 4 Skirting |                    |

## Design line B

Characterized by high-quality laminates and stainless steel, the 31 predesigned cabins of design line B adapt easily to your architecture.



B21

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



b-design-synergy.  
thyssenkrupp-elevator.com

## Design line A

The 24 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 A design line in the cabin designer tool.

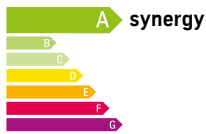


a-design-synergy.  
thyssenkrupp-elevator.com

# Efficiency.

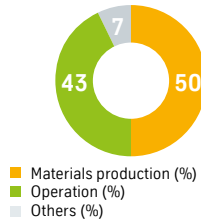
Maximize your return on investment.

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 450 kg elevator at 1 m/s with 32 m travel height and usage category 2

**synergy** Measurements taken on a standard synergy configuration with sleep mode achieve the highest energy-efficiency rating class A according to ISO 25745-2. Certification takes into account where the elevator is installed and energy demand during operation as well as in standby mode.

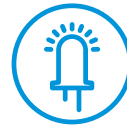


**Product lifecycle assessment (LCA):** through continuous improvement, we minimize the environmental impact of our products.

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 3 according to ISO 25745-2.



**Standby mode:** the 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 instantly activated when the elevator is called.



**LED lighting** is standard in all lighting devices (ceilings, push-buttons, etc). LED lighting can last 10 times longer and is up to 80% more energy-efficient than halogen lighting.

**45%** energy savings with the sleep mode option



**Regenerative drive:** the optional regenerative drive is a smart system that generates electricity when the car 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.



**Energy-efficient** thanks to the gearless machine combined with control system with frequency inverter.

# Safety & regulations.

Ensuring safety for all users at all times.



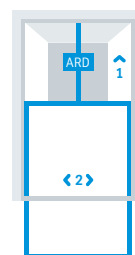
**Elevators are the safest means of transport:** all safety elements are manufactured to meet all relevant industry standards and regulations, including our company's own strict internal Safety, Health and Environment standards, as well as meeting ISO 9001 and 14001.



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



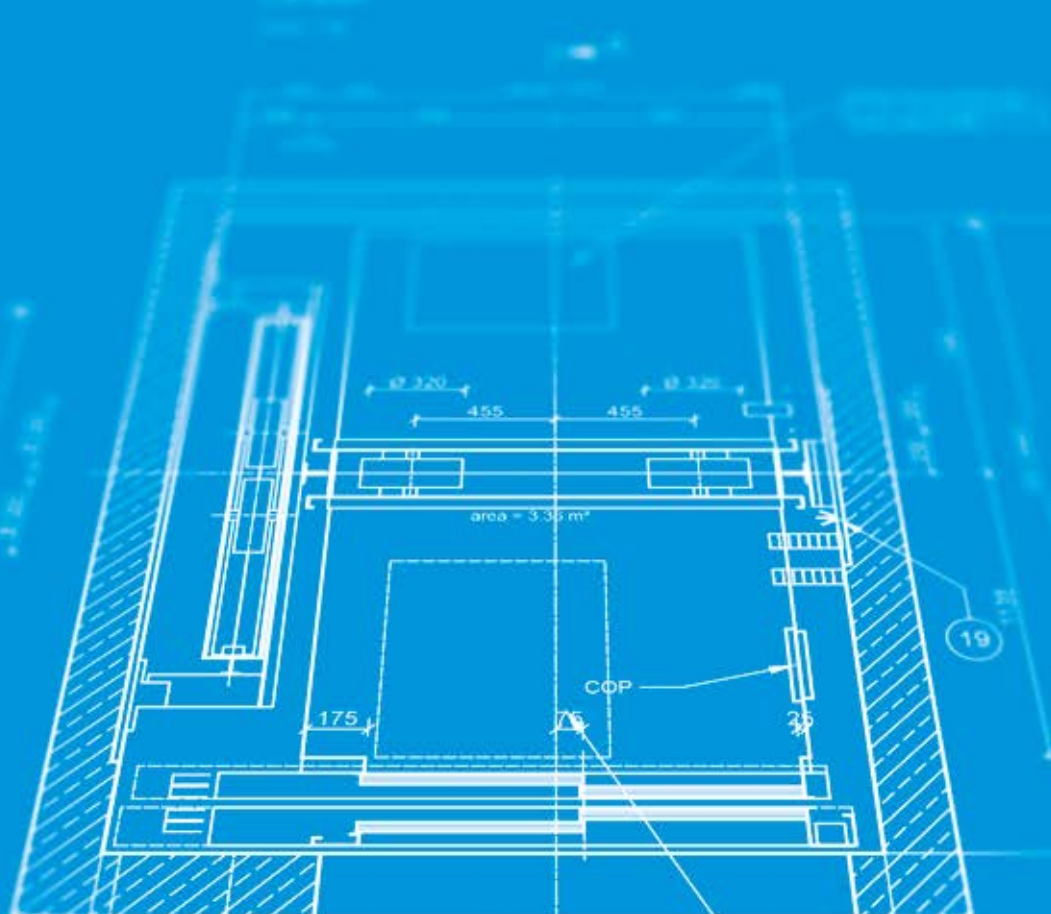
**Highest standards:** we design, manufacture and test to the highest standards our own safety components.



**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>.

# 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.

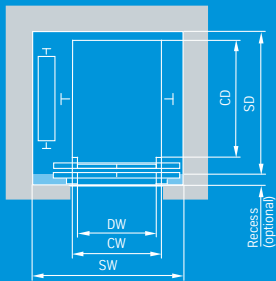


# Technical product scope.

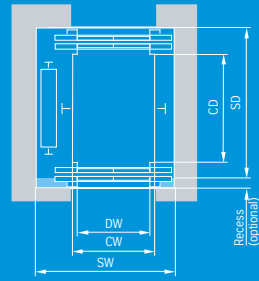
## Door options.

### Shaft layout with central-opening door C2

#### Single entrance

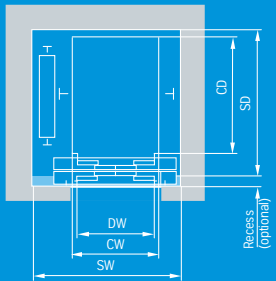


#### Double entrance

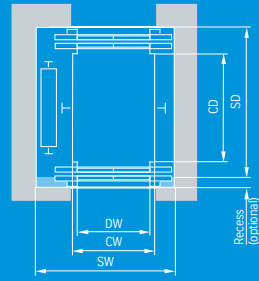


### Shaft layout with central-opening door C4

#### Single entrance

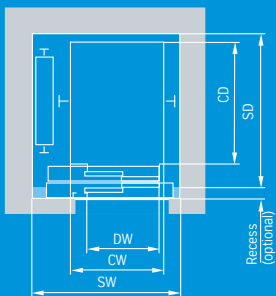


#### Double entrance

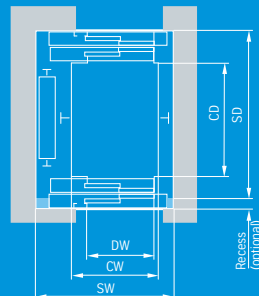


### Shaft layout with side-opening door L2

#### Single entrance

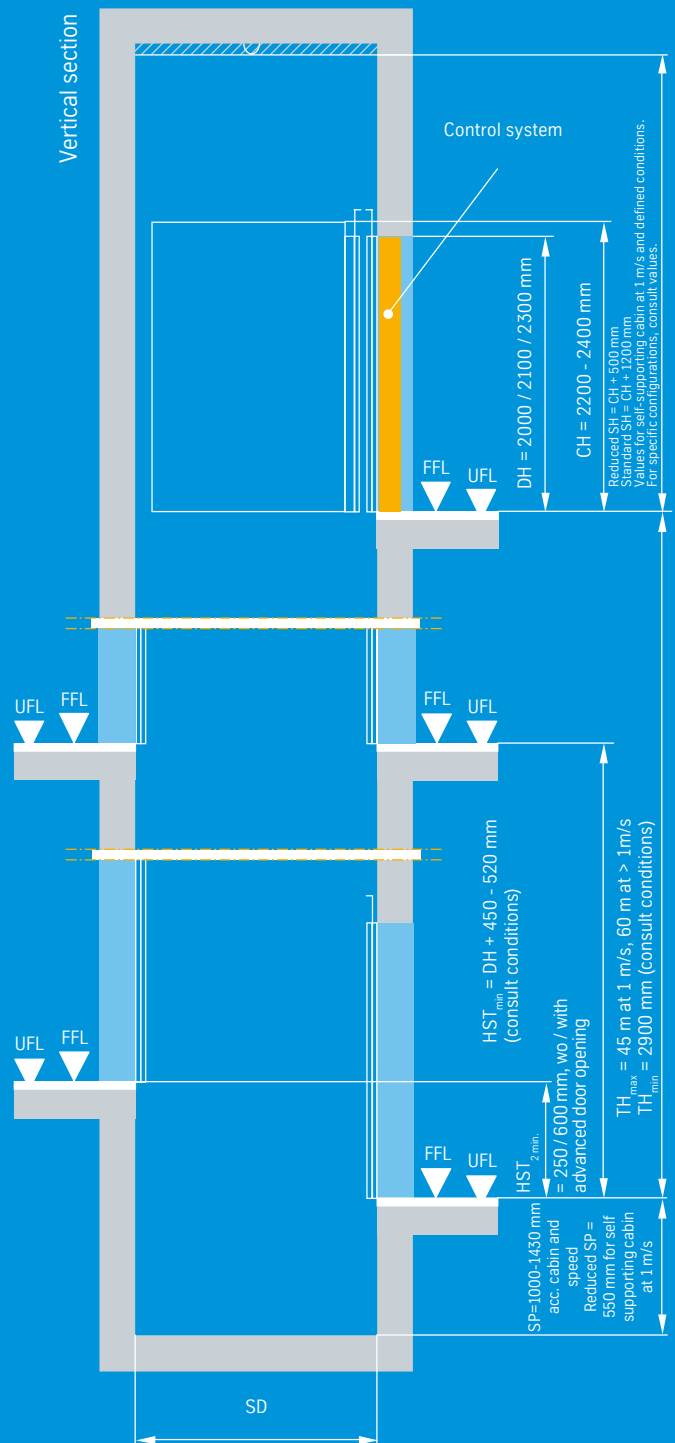


#### Double entrance



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

## Shaft planning layout.



$HST_{min} = DH + 450 - 520 \text{ mm}$   
 (consult conditions)  
 $HST_{2min} = 250 / 600 \text{ mm, wo / with advanced door opening}$   
 $TH_{max} = 45 \text{ m at } 1 \text{ m/s, } 60 \text{ m at } > 1 \text{ m/s}$   
 $TH_{min} = 2900 \text{ mm (consult conditions)}$   
 $SP = 1000 - 1450 \text{ mm acc. cabin and speed}$   
 Reduced SP = 550 mm for self supporting cabin at 1 m/s

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] Door in recess	Shaft depth [mm] Door in shaft	Shaft pit [mm]	Shaft head [mm]					
630	8	1.0	45	1100 x 1400	2200	S/D	L2/C2	900-1000	2000-2300	1600	1695	1815	1000	3400					
						S	L2	900	2000	1750	1695	1815	1000	3400					
						D	L2	900	2000	1600	1830	2070	1000	3400					
								1000	2000	1750	1830	2070	1000	3400					
						S	C2	900	2000	1970	1660	1745	1000	3400					
								1000	2000	2120	1650	1745	1000	3400					
						D	C2	900	2000	1970	1760	1930	1000	3400					
								1000	2000	2120	1740	1930	1000	3400					
								1.6	60	2200	S	L2	900	2000	1630	1695	1815	1325	3620
								1.75	60	2200	S	L2	900	2000	1630	1695	1815	1430	3750
825	10	1.0	45	1350 x 1400	2200	S/D	L2/C2	900-1000	2000-2300	1875	1695	1815	1000	3400					
						S	L2	900	2000	1875	1695	1815	1000	3400					
						D	L2	900	2000	1875	1830	2070	1000	3400					
								1000	2000	1875	1830	2070	1000	3400					
						S	C2	900	2000	2045	1660	1745	1000	3400					
								1000	2000	2170	1660	1745	1000	3400					
						D	C2	900	2000	2045	1760	1930	1000	3400					
								1000	2000	2170	1760	1930	1000	3400					
								1.6	60	2200	S	L2	900	2000	1910	1695	1815	1325	3620
								1.75	60	2200	S	L2	900	2000	1910	1695	1815	1430	3750
1000	13	1.0	45	1100 x 2100	2200	S/D	L2/C2	900-1000	2000-2300	1625	2395	2515	1000	3400					
						S	L2	900	2000	1745	2395	2515	1000	3400					
						D	L2	900	2000	1625	2530	2770	1000	3400					
								1000	2000	1745	2530	2770	1000	3400					
						S	C2	900	2000	1970	2360	2445	1000	3400					
								1000	2000	2120	2350	2445	1000	3400					
						D	C2	900	2000	1970	2460	2630	1000	3400					
								1000	2000	2120	2440	2630	1000	3400					
								1.6	60	2200	S	L2	1000	2000	1765	2395	2515	1325	3620
								1.75	60	2200	S	L2	1000	2000	1765	2395	2515	1430	3750
1000	13	1.0	45	1400 x 1600	2200	S/D	L2/C2	900-1000	2000-2300	1925	1895	2015	1000	3400					
						S	L2	900	2000	1925	1895	2015	1000	3400					
						D	L2	900	2000	1925	2030	2270	1000	3400					
								1000	2000	1925	2030	2270	1000	3400					
						S	C2	900	2000	2070	1860	1945	1000	3400					
								1000	2000	2170	1860	1945	1000	3400					
						D	C2	900	2000	2070	1960	2130	1000	3400					
								1000	2000	2170	1960	2130	1000	3400					
								1.6	60	2200	S	L2	1000	2000	1960	1895	2015	1325	3620
								1.75	60	2200	S	L2	1000	2000	1960	1895	2015	1430	3750
1000	13	1.0	45	1600 x 1400	2200	S/D	L2/C2	900-1000	2000-2300	2125	1695	1815	1000	3400					
						S	L2	900	2000	2125	1695	1815	1000	3400					
						D	L2	900	2000	2125	1830	2070	1000	3400					
								1000	2000	2125	1830	2070	1000	3400					
						S	C2	900	2000	2170	1660	1745	1000	3400					
								1000	2000	2270	1660	1745	1000	3400					
						D	C2	900	2000	2170	1760	1930	1000	3400					
								1000	2000	2270	1760	1930	1000	3400					
								1.6	60	2200	S	L2	1000	2000	2160	1695	1815	1325	3620
								1.75	60	2200	S	L2	1000	2000	2160	1695	1815	1430	3750

**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 = 550 mm and reduced SH = CH + 500 mm, for self-supporting cabin at 1 m/s. Consult values for L2 full front doors and C4 doors. The values shown correspond to a generic installation. During the planning phase, consider all applicable regulations stipulated by relevant notified body and all applicable national regulations. For specific project requirements, consult our thyssenkrupp Elevator sales representative.

# Your service partner.

# Always there.



The simple, modular product structure keeps service and maintenance costs to a minimum. Proven system for reduced fault susceptibility.

We provide private, commercial and government customers alike with comprehensive maintenance and support services. Decades of experience in elevator technology means that you can rely on our expertise. We provide you with real-time tracking information about the status of your order (production time, delivery dates, etc.) and respond promptly to technical queries.

Our extremely efficient service is carried out by over 24,000 service technicians worldwide.

#### Here are some of the key features of our technical service offering:

- Professional, friendly and rapid service with regional service branches and personal contacts.
- Compliance with all applicable laws and regulations.
- Strong expertise of our service technicians, who are backed up by a global network of International Technical Service Centers providing them with training and support on all products and models, regardless of manufacturer.
- Tailored service packages for any product or model on the market.
- Fast trouble-shooting with online diagnostic tools and remote monitoring.

#### 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 thyssenkrupp Elevator sales representative for further information.

1,200,000

elevators and escalators under maintenance

customers in

150

countries

50,000+

employees

Your  
innovation  
partner.

Our mission is to make cities the best ever places to live by being the driving force of an industry that moves more than 1 billion people every day.

1,000

locations

24/7

service available for  
customers

24,000+

service  
technicians

## Elevator Technology

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