

Elevator Technology


# synergy 200

Stylish and flexible.



thyssenkrupp





# 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 thyssenkrupp'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 modernization projects that require full replacement.

## Overview synergy 200

Elevator type	Machine room-less, optional machine room
Passengers	4 to 13 passengers
Load	320 / 450 / 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	40 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 1000 mm
Door height	Up to 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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synergy 200 benefits at a glance

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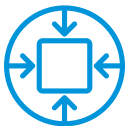
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# Space flexibility, efficiency and stylish design in one elevator.

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

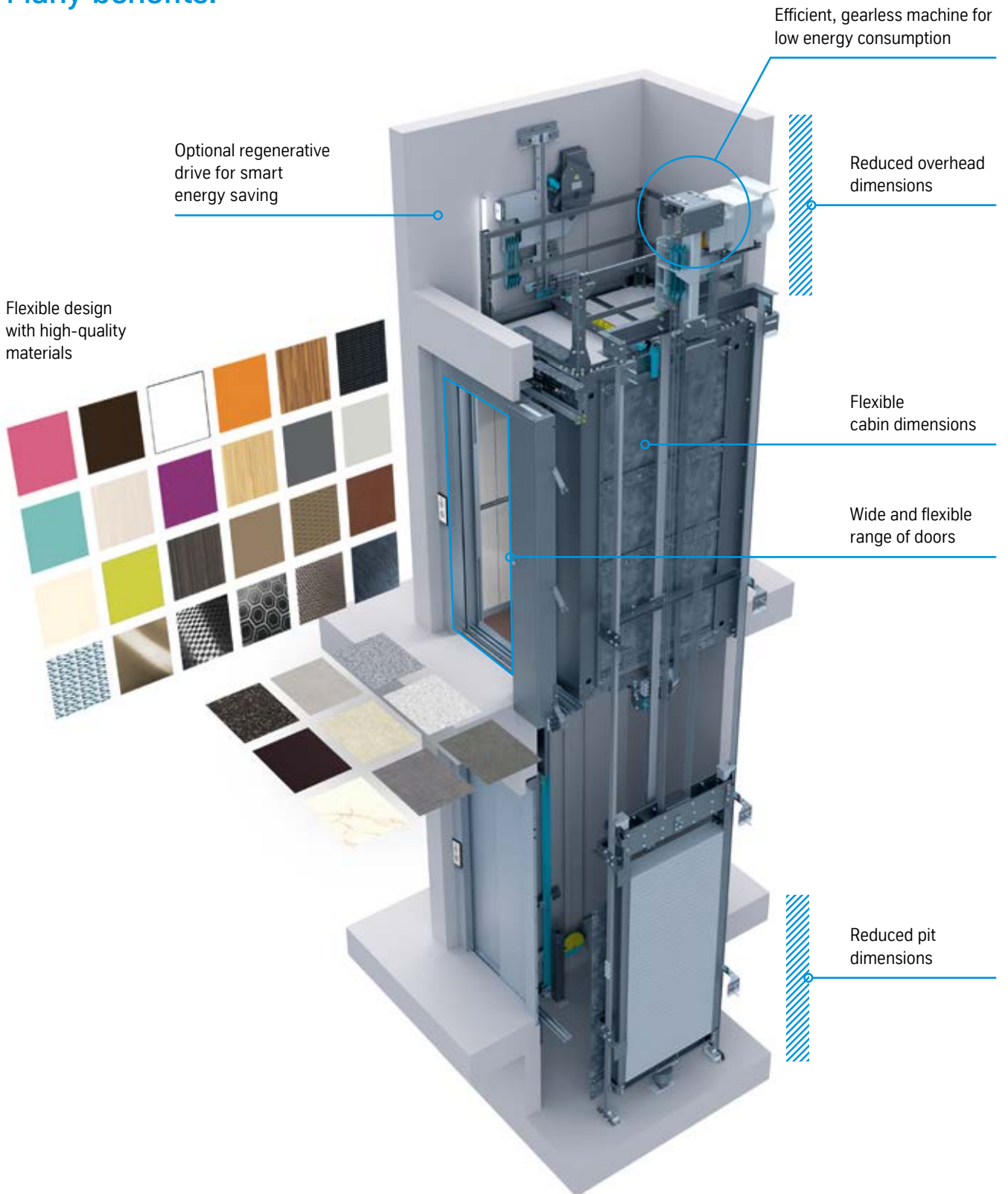
Select one of 40 predesigned cabin interiors that are available in the D and E design lines or tailor the cabin design to your needs with our custom-fit solutions. High-quality laminates or glass walls add a personal touch to your cabin.



## Best-in-class installation and service

Efficient installation thanks to optimized 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.



Comfort  
Performance  
Design  
Efficiency  
Safety & regulations

# 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.
- **Accessibility:** synergy 200's standard features cover most of the accessibility requirements of the EN 81-70 European standard. These include cabin and door dimensions, a large safety mirror, high-contrast landing indicators and large push-buttons with Braille lettering, as well as voice announcements.
- **Landing accuracy:** the controller guarantees accurate levelling. Landing accuracy of +/- 3 mm ensures safe and comfortable access for passengers.

# Performance.

Proven performance complements and enhances your building.



**Gearless machine designed in Germany:** high performance, high efficiency, low energy consumption and no contaminant lubricants.



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



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



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

# Design.

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.

## Handrails



Stainless steel satin silver    Stainless steel satin black

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

## Panels

Choose between laminate and stainless steel in the E design line and decorative glass, laminate or steel in the D design line in a choice of 40 predesigned cabins.

## Ceiling

Select from 13 lighting styles and different colours 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



Nature Black vinyl    Concrete Light Grey vinyl    Calcatta sintered compact

Choose from a great variety of floors: 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 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 without a mirror in the D design line.

## Landing Operating Panel (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 key switch zones. Front plate available in black glass, stainless steel Gr. 220D or stainless steel Satin Champagne.

## Landing Direction Indicator Panels (LDIP)

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

## Landing Indicator Panel (LIP)

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



Edge

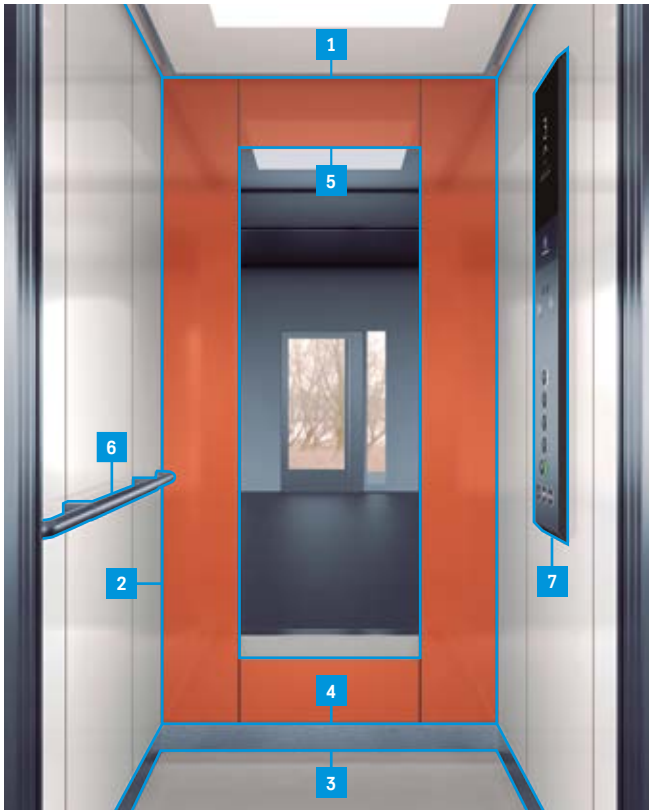


Alto full height

## Car Operating Panels (COP)

synergy 200 offers 4 different elegant vertical car operating panels with robust stainless steel or tempered glass surface and large TFT 7" 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
- 2 Walls
- 3 Floors
- 4 Skirting
- 5 Mirrors
- 6 Handrails
- 7 Operating panels

## Design line E

Characterized by fresh colours and a contrasting rear wall, the E design line offers a choice of 17 predefined cabins in stainless steel or high-quality laminates.



E32

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



e-design-synergy.  
thyssenkrupp-elevator.com

## Design line D

Geared to high-end residential buildings, the D design line's 23 predefined cabins offer great versatility. It represents 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 D design line in the cabin designer tool.




d-design-synergy.  
thyssenkrupp-elevator.com

# Efficiency.

Efficient, throughout the entire product lifecycle.

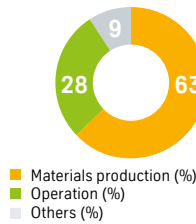
Sustainability is part of our corporate strategy. It involves the holistic improvement of our products and processes to help you reduce the environmental footprint of your buildings and qualify for LEED® and BREEAM® certification by incorporating green features in our elevators.



**A synergy**

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

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 impacts of our solutions.

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.



**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 instantly activated when the elevator is called.

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



**LED lighting** is standard for 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.



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



**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.

# Safety & regulations.

Safety that meets the highest standards.



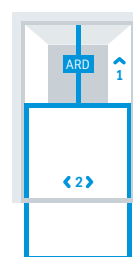
**Elevators are the safest means of transport:** all safety elements are manufactured to meet all relevant industry standards and regulations, including our company's own strict internal Safety, Health and Environment standards, as well as meeting ISO 9001 and 14001.



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



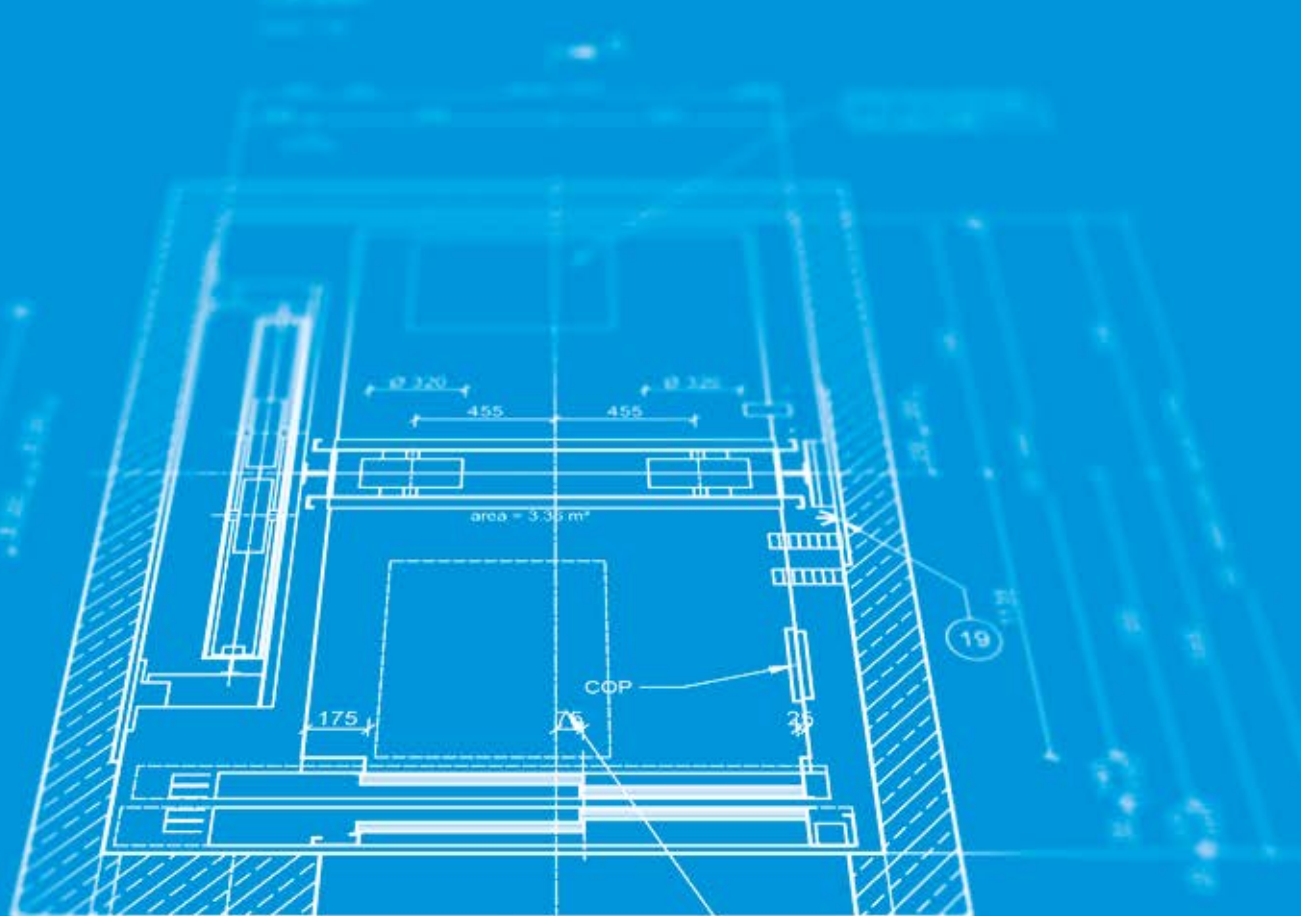
**Highest standards:** we design, test to the highest standards and manufacture our own safety components.



**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 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 modernization projects, you can easily optimize the cabin size to fit a particular shaft.



# Technical product scope.

Door options.

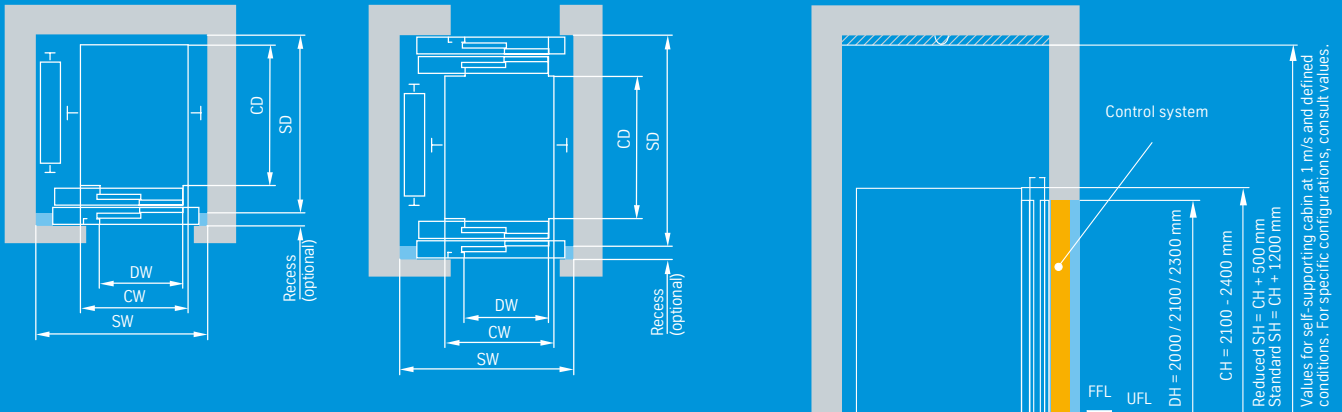
Shaft planning layout.

## Shaft layout with side-opening door L2

Single entrance

Double entrance

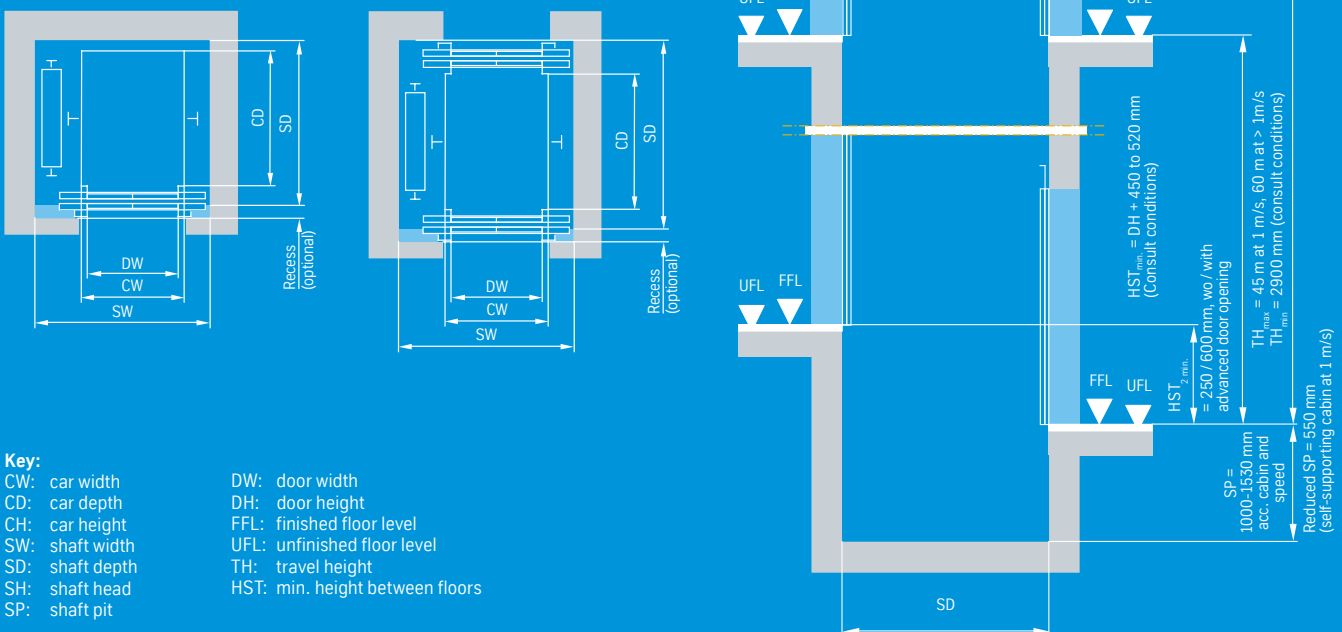
Vertical section



## Shaft layout with central-opening door C2

Single entrance

Double entrance



- Key:**
- CW: car width
  - 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

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 in shaft	Shaft pit [mm]	Shaft head [mm]						
320	4	1.0	45	850 x 1000	2100-2400	S/D	L2/C2	700-800	2000-2300	1350	-	1295	-	1415	1100	3500						
						S	L2	700	2000													
320	4	1.0	45	900 x 1000	2100-2400	S/D	L2/C2	700-800	2000-2300	1445	1480	1295	1295	1415	1100	3500						
						S	L2	800	2000													
450*	6	1.0	45	1000 x 1200	2100-2400	S/D	L2/C2	700-900	2000-2300	1500	1500	1495	1495	1615	1000	3400						
						S	L2	800	2000													
450	6	1.0	45	950 x 1300	2100-2400	S/D	L2/C2	700-900	2000-2300	1450	1480	1595	1595	1715	1000	3400						
						S	L2	800	2000													
450	6	1.0	45	1000 x 1250	2100-2400	S/D	L2/C2	700-900	2000-2300	1500	1500	1545	1545	1665	1000	3400						
						S	L2	800	2000													
630	8	1.0	45	1100 x 1400	2100-2400	S/D	L2/C2	700-1000	2000-2300	1600	1600	1695	1695	1815	1000	3400						
						S	L2	800	2000													
						D	L2	800	2000	1600	1600	1830	1830	2070	1000	3400						
								900	2000	1600	1600	1830	1830	2070	1000	3400						
						S	C2	800	2000	1795	-	1660	-	1745	1000	3400						
								900	2000	1970	-	1660	-	1745	1000	3400						
						D	C2	800	2000	1795	-	1760	-	1930	1000	3400						
								900	2000	1970	-	1760	-	1930	1000	3400						
						825	10	1.0	45	1350 x 1400	2100-2400	S/D	L2/C2	700-1000	2000-2300	1875	-	1695	-	1815	1000	3400
												S	L2	900	2000							
D	L2	900	2000	1875	-							1695	-	1815	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						
1000	13	1.0	45	1100 x 2100	2100-2400							S/D	L2/C2	700-1000	2000-2300	1625	1625	2395	2395	2515	1000	3400
												S	L2	900	2000							
						D	L2	900	2000	1745	-	2395	-	2515	1000	3400						
								1000	2000	1625	1625	2530	2530	2770	1000	3400						
						S	C2	900	2000	1745	-	2530	-	2770	1000	3400						
								1000	2000	1970	-	2360	-	2445	1000	3400						
						D	C2	900	2000	2120	-	2350	-	2445	1000	3400						
								1000	2000	1970	-	2460	-	2630	1000	3400						
						1000	13	1.0	45	1400 x 1600	2100-2400	S/D	L2/C2	700-1000	2000-2300	1925	-	1895	-	2015	1000	3400
												S	L2	900	2000							
D	L2	900	2000	1925	-							1895	-	2015	1000	3400						
		1000	2000	1925	-							2030	-	2270	1000	3400						
S	C2	900	2000	1925	-							2030	-	2270	1000	3400						
		1000	2000	2070	-							1860	-	1945	1000	3400						
D	C2	900	2000	2170	-							1860	-	1945	1000	3400						
		1000	2000	2070	-							1960	-	2130	1000	3400						
1000	13	1.0	45	1600 x 1400	2100-2400							S/D	L2/C2	700-1000	2000-2300	2125	-	1695	-	1815	1000	3400
												S	L2	900	2000							
						D	L2	900	2000	2125	-	1695	-	1815	1000	3400						
								1000	2000	2125	-	1830	-	2070	1000	3400						
						S	C2	900	2000	2125	-	1830	-	2070	1000	3400						
								1000	2000	2170	-	1660	-	1745	1000	3400						
						D	C2	900	2000	2270	-	1660	-	1745	1000	3400						
								1000	2000	2170	-	1760	-	1930	1000	3400						

**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 shaft dimensions for 1.6 and 1.75 m/s speed. SP = 1325 / 1430 mm and SH = 3620 / 3750 mm for 1.6 and 1.75 m/s accordingly. 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.

\* Capacity of 1000 x 1200 mm cabin is 5 passengers for single entrance and 6 for double entrance.

# 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

thyssenkrupp Elevator Manufacturing Spain  
C/ Federico Cantero Villamil, 4.  
Parque Tecnológico de Móstoles  
28935 Móstoles (Madrid), Spain

csc\_madrid@thyssenkrupp.com  
Tel: +34 91 481 77 00

engineering.tomorrow.together.