

Elevator Technology


synergy 100

Pure and efficient.



thyssenkrupp





Pure and efficient for residential buildings.

synergy 100: the proven solution that offers an excellent price-quality ratio.

synergy 100 proves that sleek design and a comfortable ride can be affordable. synergy 100 offers optimized shaft dimensions with the option of reduced pit and overhead spaces.

This compact elevator features durable materials that increase efficiency and working life. The low initial investment and high return throughout the lifecycle of the elevator ensure maximum return on your investment.

Choose synergy 100 and trust in thyssenkrupp's expertise. Our excellent service ensures maximum availability and adds value to residential projects by ensuring optimum functionality for longer, resulting in increased user satisfaction.

All these attributes make synergy 100 perfect for residential buildings with low traffic flows.

Overview synergy 100

Elevator type	Machine room-less, optional machine room
Passengers	6/8/13 passengers
Load	450 / 630 / 1000 kg
Speed	1.0 m/s
Travel height	Up to 45 m
Number of stops	Up to 12 stops
Cabin	8 predesigned cabins
Door types	Side-opening or central opening with 2 panels
Door opening width	800 mm or 900 mm
Door height	2000 mm or 2100 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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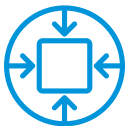
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The easy solution that meets all your mobility needs.

synergy 100 is the ideal solution if you are looking for a durable, energy-efficient and compact elevator for a new residential building with low traffic flows and basic needs. synergy is built on good quality and thyssenkrupp's experience with a product that has already proved its effectiveness in the market for over 10 years.



Best-in-class shaft efficiency

Whether you choose standard dimensions for overhead and pit or a version with reduced dimensions - synergy 100 is best-in-class.



Low energy consumption

synergy 100 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 achieved an A class for energy-efficiency rating.



Our long history of engineering experience

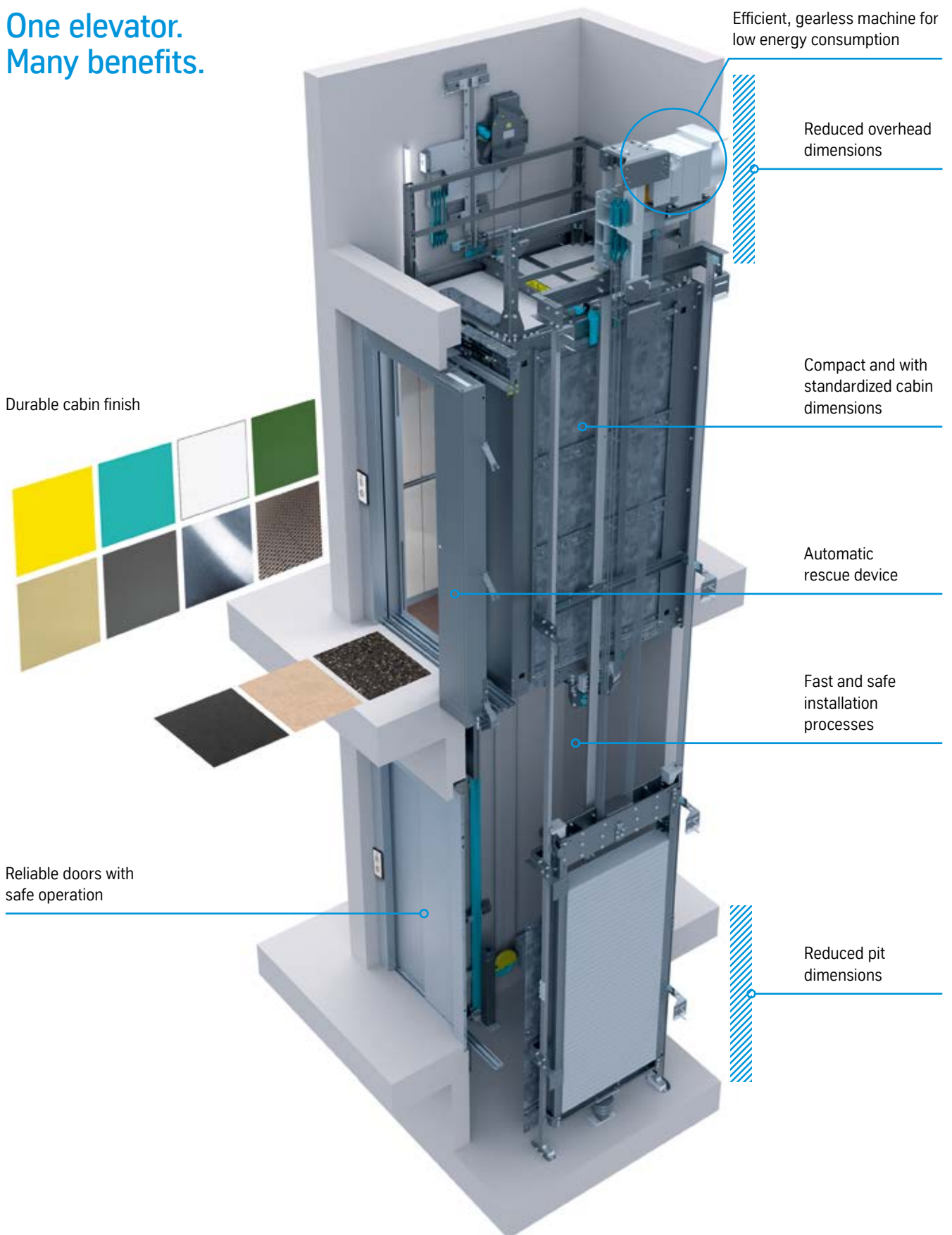
Our experience guarantees reliability, and enhanced safety, thanks to strict internal safety standards.



Good investment

Excellent cost-performance ratio throughout the product lifecycle. Durable materials and proven components for longevity, supported by our skilled installation and outstanding service to ensure a longer working life.

One elevator. Many benefits.



Comfort
Performance
Design
Efficiency
Safety & regulations

Comfort.

More than a pleasant ride.



- **Accessibility:** cabin and door dimensions, high contrast landing indicators, as well as voice announcements meet the accessibility requirements of the EN 81-70 European standard.
- **Easy-to-use push-buttons** with Braille lettering and green frame for the main floor button.
- **The controller** avoids unnecessary trips and reduces waiting times.
- **Silent and low-vibration:** synergy 100 is best in class within its segment.
- **Landing accuracy:** the controller ensures accurate levelling. Landing accuracy of +/- 3 mm ensures safe and comfortable access for passengers.

Performance.

Delivering cost-effective performance that perfectly matches the needs of residential buildings.



Gearless machine designed in Germany: high performance, high efficiency, low energy consumption, free of contaminant lubricants.



Proven components: synergy 100 is manufactured using proven components that guarantee reliable performance. More than 75,000 units of the synergy family have already been delivered worldwide.

Design.

Stays looking good for longer.

The finish options of the F design line combine timeless, clean designs with attractive and durable materials.

Handrail



Chrome-plated aluminium

Stainless steel

Standard handrail is a robust oval tube in chrome-plated aluminium with straight or curved ending. Optional: round satin stainless steel handrail with curved ending.

Panels

Choose between full stainless steel (brushed or linen) or a coated steel skinplate in a choice of six stylish coloured predesigned cabins.

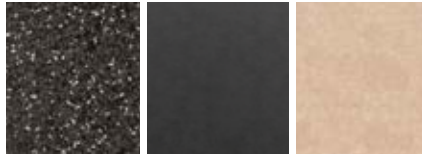
Ceiling

The white painted ceiling enhances the reflection of light from the slim LED panel light to provide comfortable, uniform lighting.

Push-buttons

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

Floor



Natural Black Vinyl

Concrete Dark Grey Vinyl

Stone Beige Vinyl

Hardwearing, easy-to-clean vinyl in a choice of three colours. You also have the possibility to supply your own flooring (recess <20mm).

Mirror

A mirror in 5 mm tempered safety glass is included on the rear wall, or on the side wall for elevators with a double entrance. All mirrors are conform to EN 81-70 and EN 81-20/50.

Landing Operating Panel (LOP)

Contemporary styling for landing signalling in white safety glass or stainless steel. With optional TFT 3.5" display.

Landing Direction Indicator Panel (LDIP)

Positioned on the door jamb or side wall.

Landing Indicator Panel (LIP)

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

Car Operating Panel (COP)



The Moon operating panel will be the center of attention. With its minimalist design, it perfectly combines functionality and quality. It is available in stainless steel or white tempered glass with an optional TFT 3.5" display.



LOP 50



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



LDIP 50



LIP 50

F design line.

Fresh



F01 Yellow/White



F02 Blue/White



F03 Green/White



F04 Beige/White



F05 Grey/White



F06 White/Stainless Steel Brushed

Timeless



F10 Stainless Steel Brushed



F11 Stainless Steel Linen

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

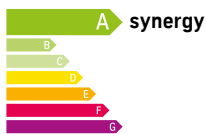


f-design-synergy.thyssenkrupp-elevator.com

Efficiency.

Solutions for low energy consumption.

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 BREAM® 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

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.

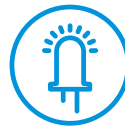


Standby mode: the cabin lighting comes with automatic switch off as standard. **Sleep mode (optional):** the electronic components are turned off when the elevator is in sleep mode and instantly activated when the elevator is called.

45 % savings adding sleep mode option



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



LED lighting is standard included 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.



Gearless machine: low energy consumption, no need for oil or other lubricants, maintenance free.

Safety & regulations.

Ensuring safety for all users at all times.



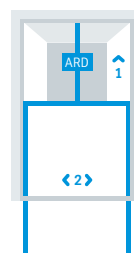
Elevators are the safest means of transport: all safety elements are manufactured to meet all relevant industry standards and regulations, including our company's own strict internal Safety, Health and Environment standards, as well as meeting ISO 9001 and 14001.



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



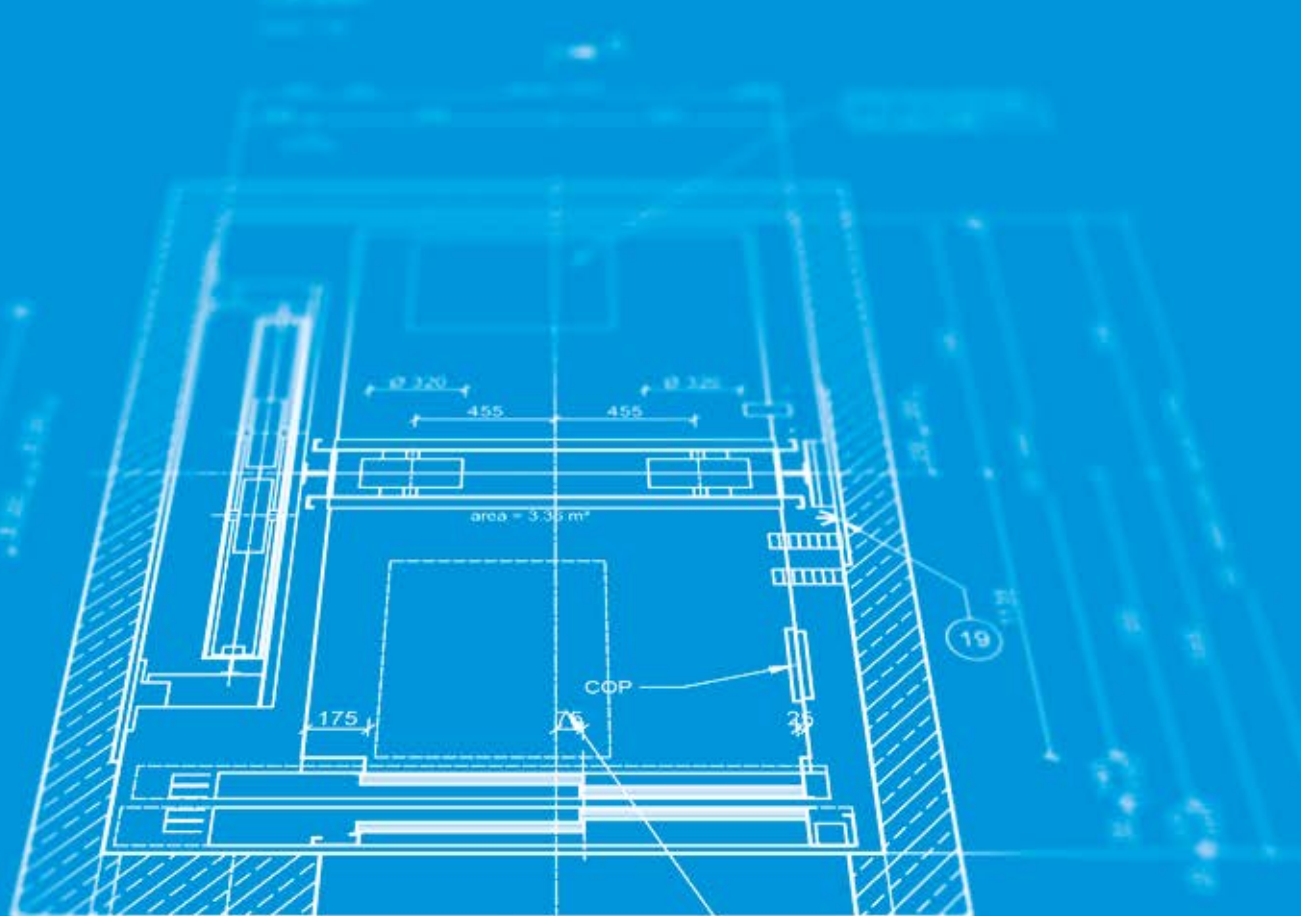
Stay connected 24/7: whenever you need it, the communication system is there for you, keeping you connected with our 24hr call center.



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>.

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 100 in-planner tool

Make the most of your building space and find the optimal dimensions for your new synergy 100 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.



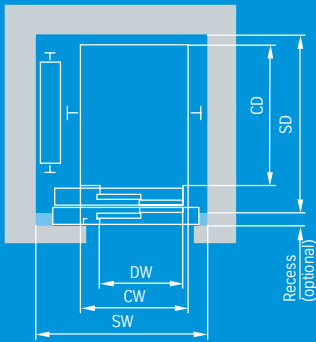
Technical product scope.

Door options.

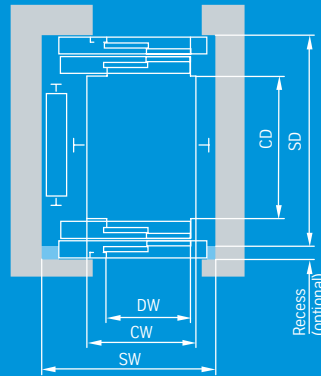
Shaft planning layout.

Shaft layout with side-opening door L2

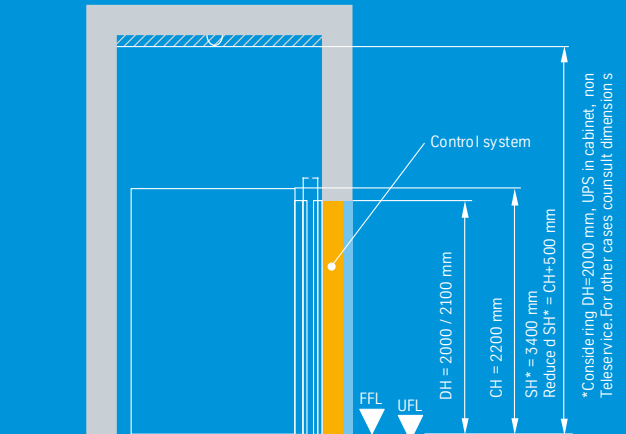
Single entrance



Double entrance

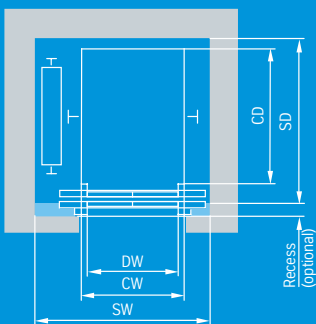


Vertical section

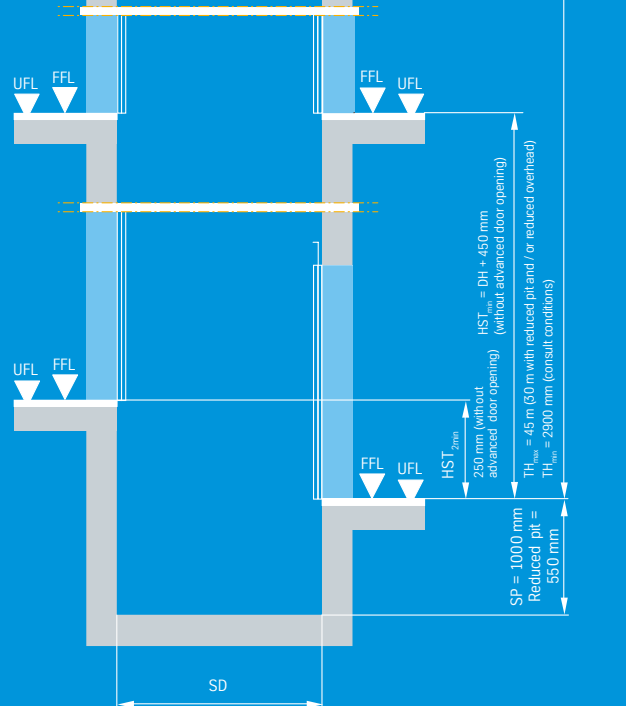
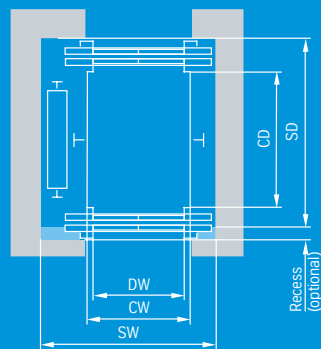


Shaft layout with central opening door C2

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 & full front	Shaft depth [mm] - Door in shaft	Shaft pit [mm]	Shaft head [mm]										
450	6	1.0	45	1000 x 1250	2200	S/D	L2/C2	800/900		2000/2100															
								S	L2	800	2000	1500	1500	1545	1665	1000	3400								
										900	2000	1595	1595	1545	1665	1000	3400								
								D	L2	800	2000	1500	1500	1680	1920	1000	3400								
										900	2000	1595	1595	1680	1920	1000	3400								
								S	C2	800	2000	1770	-	1510	1595	1000	3400								
										900	2000	1970	-	1510	1595	1000	3400								
								D	C2	800	2000	1770	-	1610	1780	1000	3400								
										900	2000	1970	-	1610	1780	1000	3400								
								450	6	1.0	45	950 x 1300	2200	S/D	L2/C2	800/900		2000/2100							
																S	L2	800	2000	1450	1480	1595	1715	1000	3400
																		900	2000	1590	1590	1595	1715	1000	3400
D	L2	800	2000	1450	1480	1730	1970									1000	3400								
		900	2000	1590	1590	1730	1970									1000	3400								
S	C2	800	2000	1770	-	1560	1645									1000	3400								
		900	2000	1960	-	1560	1645									1000	3400								
D	C2	800	2000	1770	-	1660	1830									1000	3400								
		900	2000	1960	-	1660	1830									1000	3400								
630	8	1.0	45	1100 x 1400	2200	S/D	L2/C2									800/900		2000/2100							
																S	L2	800	2000	1600	1600	1695	1815	1000	3400
																		900	2000	1600	1600	1695	1815	1000	3400
								D	L2	800	2000	1600	1600	1830	2070	1000	3400								
										900	2000	1600	1600	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								
								1000	13	1.0	45	1100 x 2100	2200	S/D	L2/C2	800/900		2000/2100							
																S	L2	900	2000	1625	1625	2395	2515	1000	3400
																		900	2000	1625	1625	2530	2770	1000	3400
S	C2	900	2000	1970	-	2360	2445									1000	3400								
		900	2000	1970	-	2460	2630									1000	3400								

Key:

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

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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