



synergy

ONE WORLD. ONE COMPANY. ONE SOLUTION.

ThyssenKrupp Elevators



ThyssenKrupp





Synergy - one world, one company, one solution. The elevator that adapts to any building.

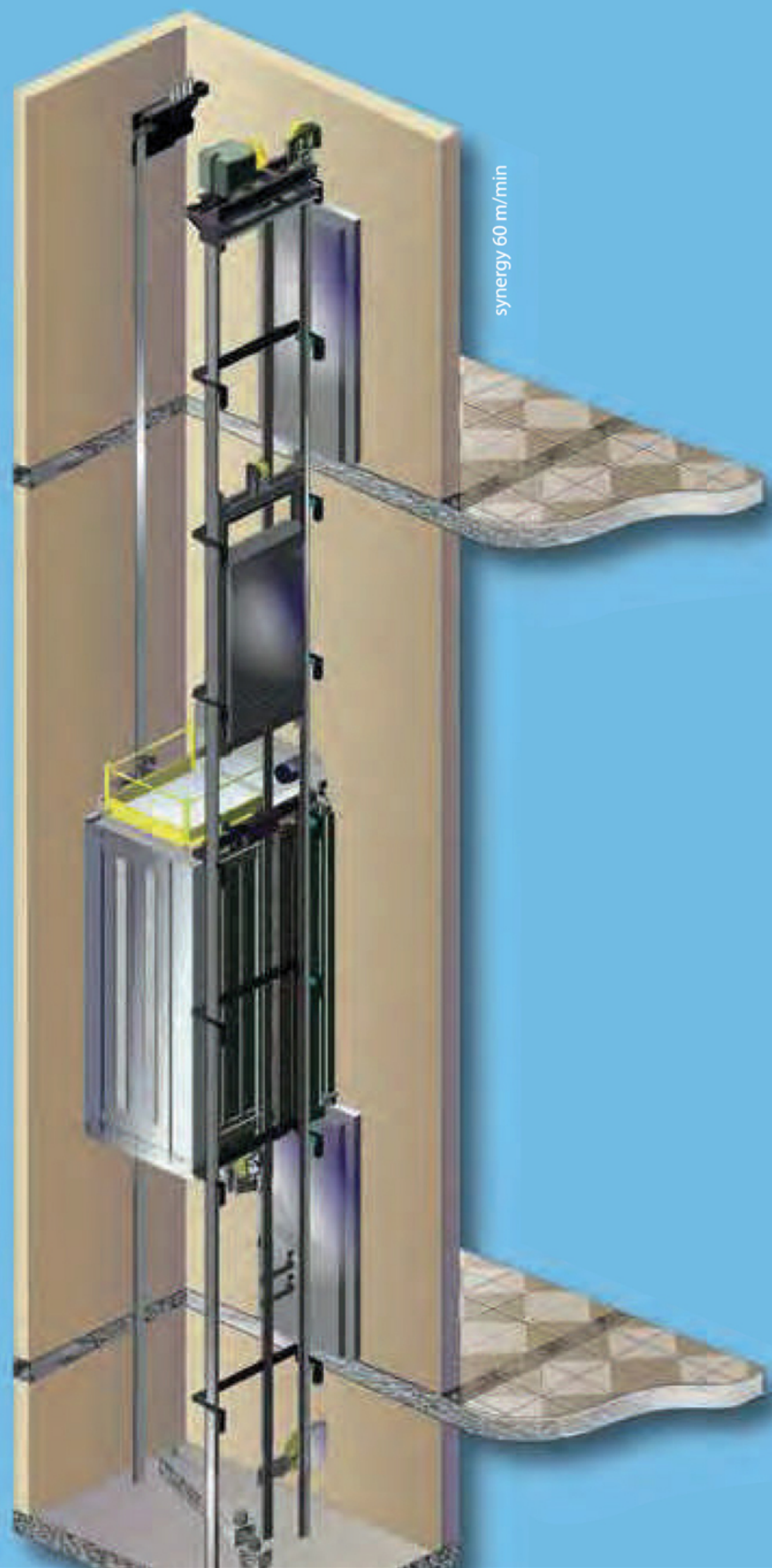
For new buildings or modernization projects, ThyssenKrupp Elevators developed Synergy, an innovative system for elevators without machine rooms. Based on state-of-the-art technology, the system can be used in residential and commercial buildings, and it has an excellent cost-benefit relation for both new installations and modernizations.

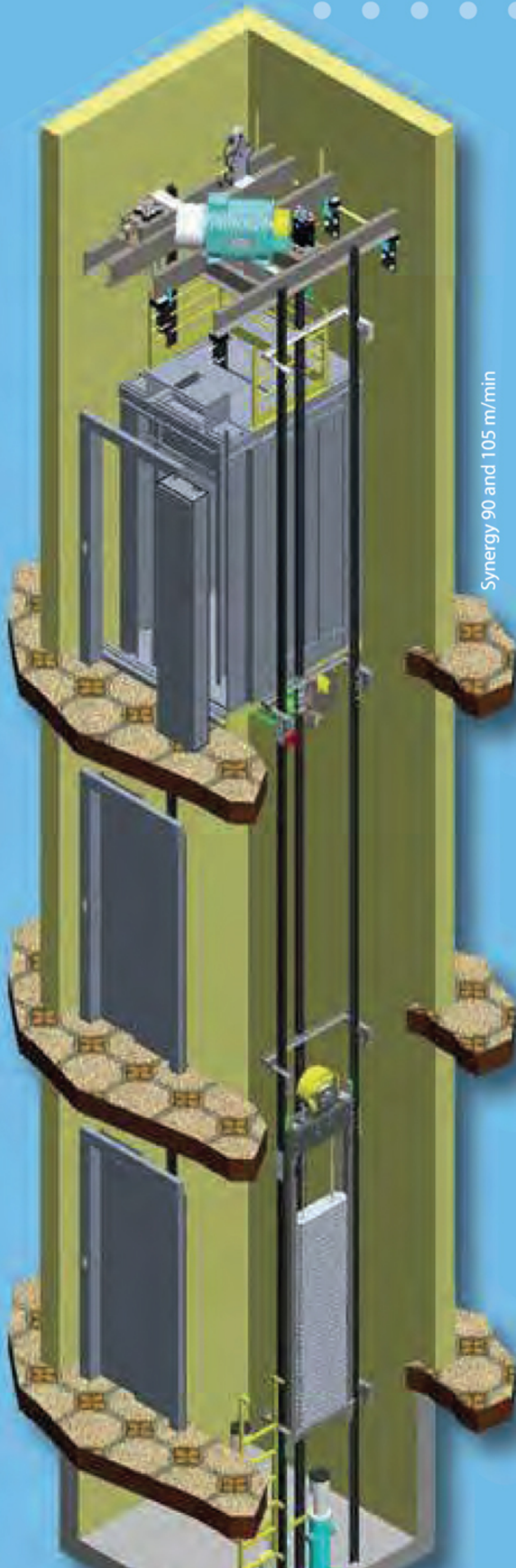
Synergy is a modular system that can be easily adapted to specific requirements of regional markets. The main advantages are the compact dimensions of the shaft and the absence of machine rooms, which saves space and construction cost. These characteristics also ensure more creative freedom for architects and significantly less complex planning. Each Synergy system for elevators offers an ideal combination for the architectural planning of a project. Short delivery times, low power consumption, and long operating life complete the overall positive image of the innovative Synergy system for elevators.

Synergy was designed for one world, by only one company, offering a single solution.

- Flexible, compact, and innovative
- Car without a structure, with drive traction from below
- Gearless machine system
- Smooth and quiet movement
- Low power consumption

Synergy - technical characteristics that represent its cutting-edge technology.





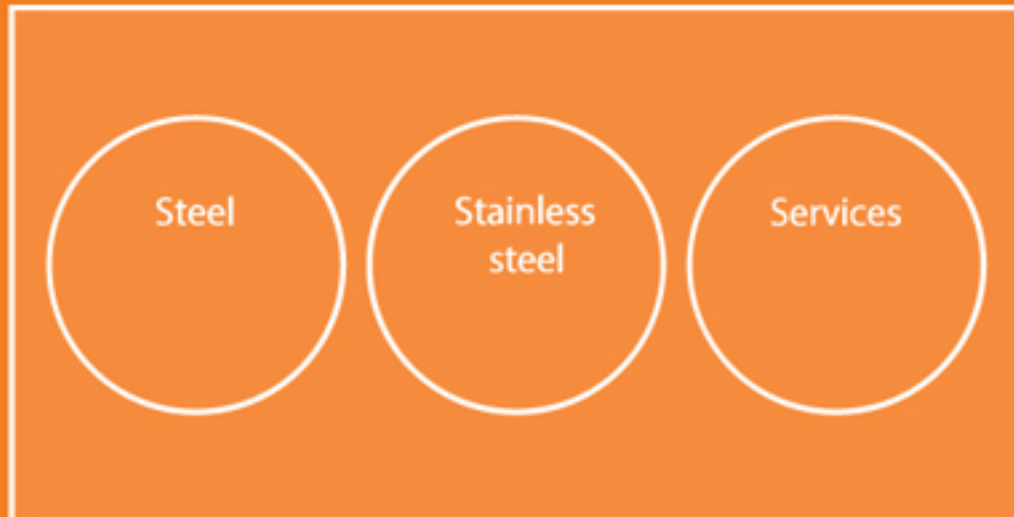
Synergy 90 and 105 m/min

- Machine: the machine's ultra-compact gearless design was specially developed for Synergy. The eco-friendly machine, with its synchronous motor that does not use oil, offers a quiet operation.
- Control panel: it is located at the top floor, which allows convenient maintenance and access for diagnostics, making a machine room unnecessary.
- Operation of doors: the operation of the doors for ThyssenKrupp elevators is designed to provide the highest standard of reliability and safety.
- Car with lower suspension: the special placement of the cables with lower suspension is used to minimize the space above the car, reducing the overhead distance. Specially combined pulleys minimize vibrations and noise while maximizing the cable's useful life.

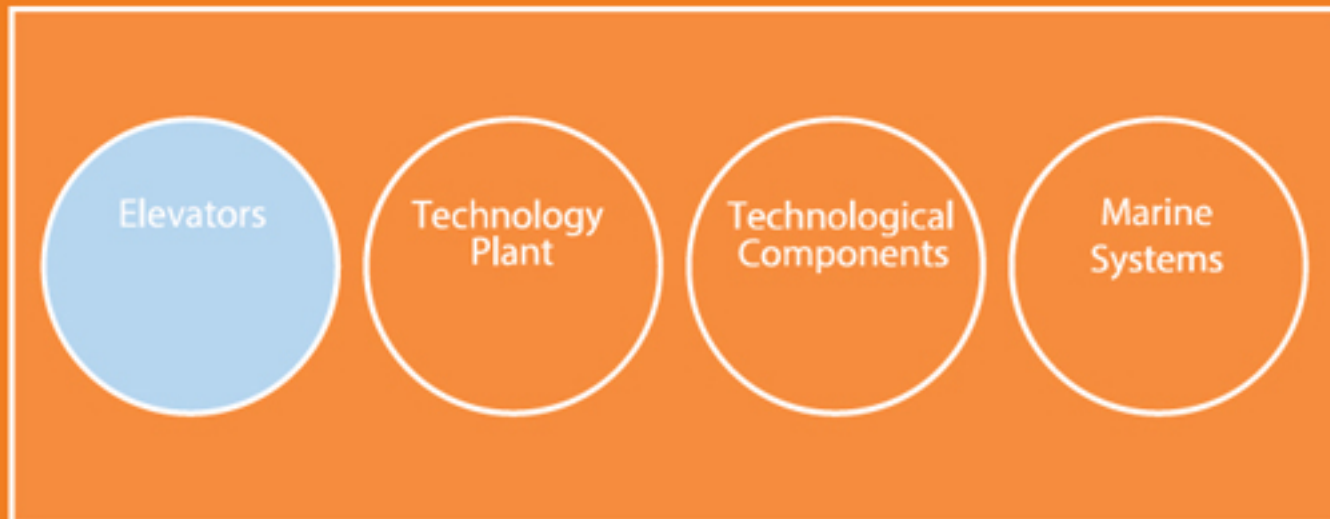
THE THYSSENKRUPP GROUP

With sales of over 45 billion euros and 188,000 employees in more than 70 countries, ThyssenKrupp is one of the most important groups linked to technology and occupies a prominent position in international markets. Its two main business areas are materials and technology. These areas are organized into seven segments—Steel, Stainless Steel, Services, Elevators, Technology Plants, Technological Components, and Marine Systems—and demonstrate the Group's areas of expertise.

MATERIALS



TECHNOLOGY



ThyssenKrupp Elevators offers a full range of technologies around the world for the transport of people. Our 36,000 employees in over 60 countries, speaking more than 20 languages, share a common mission: 100 percent customer satisfaction. We develop and deliver customized solutions for every possible application. Our systems transport people in many of the most modern and sophisticated buildings in the world, ranging from airports to shopping malls, the largest office buildings in the world, to luxury hotels, public buildings and residential buildings. We are committed to providing superior technology and quality for every customer, both for the volume market as well as for the highly individual needs—at the right time, all the time, and everywhere.

Synergy + Amazon Brand

Flexible, compact, and economical

To go along with Synergy, ThyssenKrupp Elevators offers the brand Amazon as an excellent option for commercial or residential projects that require safety and savings. With this thinking, the cars were designed to provide greater comfort and convenience for the user. All elements that make up the elevator are carefully produced and analyzed to ensure the well-being of passengers. Our designs are modern and innovative where safety, comfort, and reliability are always present.



Finishes

CEILING:

- Electronic LED lighting

OPTIONS FOR FINISHES:

- Panels made of brushed stainless steel
- Lowered floor to receive a finish
- Vinyl flooring
- Doors and frames made of brushed stainless steel
- Panels, doors, and frames painted in colors:



gray



beige

GUARDRAILS:

- Only at back
- On three sides (optional)

OPTIONAL FEATURES:

- Mirror, guardrail, intercom, fireman's service, emergency power operation, coded access, preferred parking, collective call, group control, false call, Digivox, optional features for the disabled



Finishes

CALL BUTTONS IN CAR



New Soft Press with red LED



Numeric pad

FLOOR CALL BUTTONS



New Soft Press

CAR POSITION INDICATORS (on operation panel)



TK-XXI Car



TK-99 Plus Car

Important: For button pads in the car, the position indicator should always be the TK-XXI Car and vice versa.

POSITION INDICATORS



TK-921 Plus



TK-200

Synergy 60 m/min - Amazon Brand Size

HORIZONTAL CROSS-SECTION

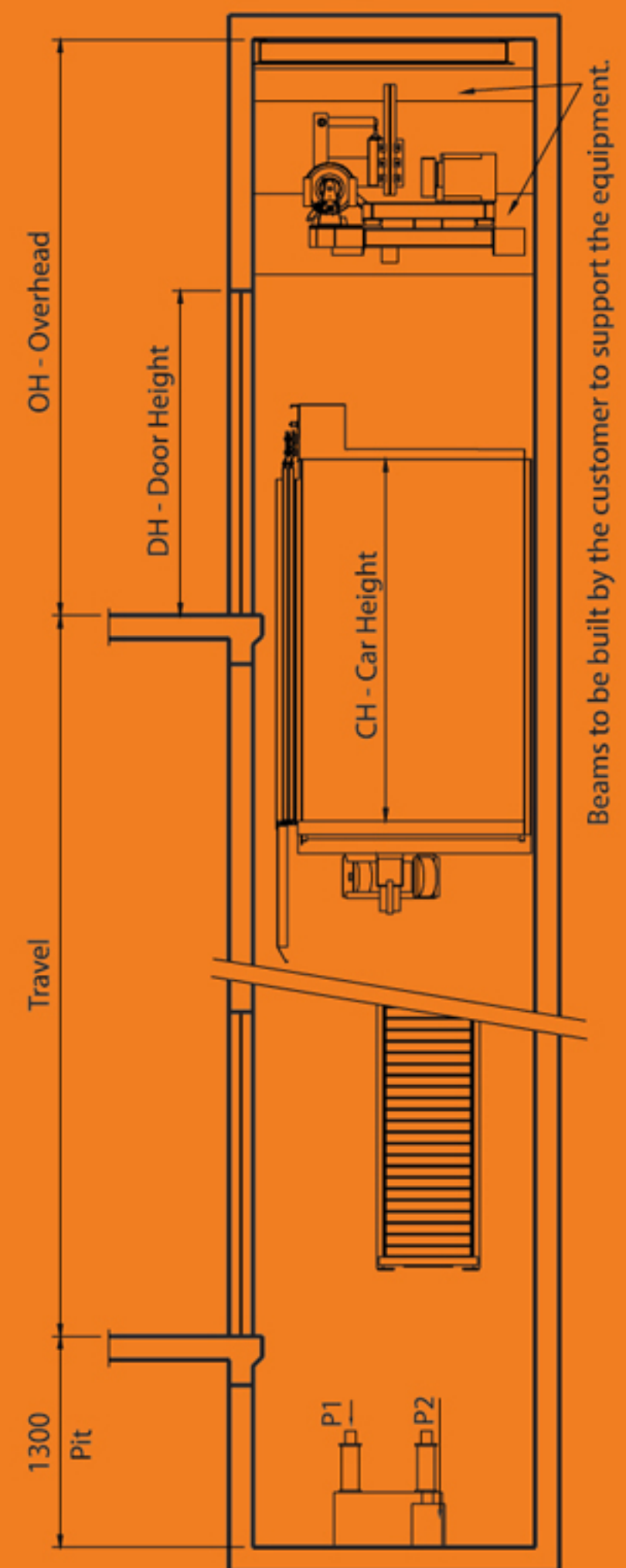
Capacity of Car	Opening	Car Size			X		Y			
		A	B	WW	min.	max.				
6	SO	1000	1250	800	1550	1900	1590			
								800	900	800
8	SO	1100	1400	800	1820	2200	1670			
				900				1850	2260	1610
				800						
	CO	1250	1200	800	1900	2310	1530			
				800						
				900						
10	SO	1300	1400	900	1950	2345	1780			
								CO	2070	1710
	SO	1500	1500	1100	2160	2540	1850			
				900						
13	CO	1500	1500	900	2160	2540	1770			
				900						

SO - Side Opening, CO - Centre Opening

VERTICAL CROSS-SECTION

OH - Overhead	CH	DH	Speed. (m/min)
3650	3900	2100	2000
3750	4000	2200	2130
3950	4200	2400	2130
3650	3900	2100	2000
3750	4000	2200	2000
3950	4200	2400	2130
3650	3900	2100	2000
3750	4000	2200	2000
3950	4200	2400	2130
3650	3900	2100	2000
3750	4000	2200	2000
3950	4200	2400	2130
3650	3900	2100	2000
3750	4000	2200	2000
3950	4200	2400	2130
3650	3900	2100	2000
3750	4000	2200	2000
3950	4200	2400	2130
3650	3900	2100	2000
3750	4000	2200	2000
3950	4200	2400	2130

VERTICAL CROSS-SECTION

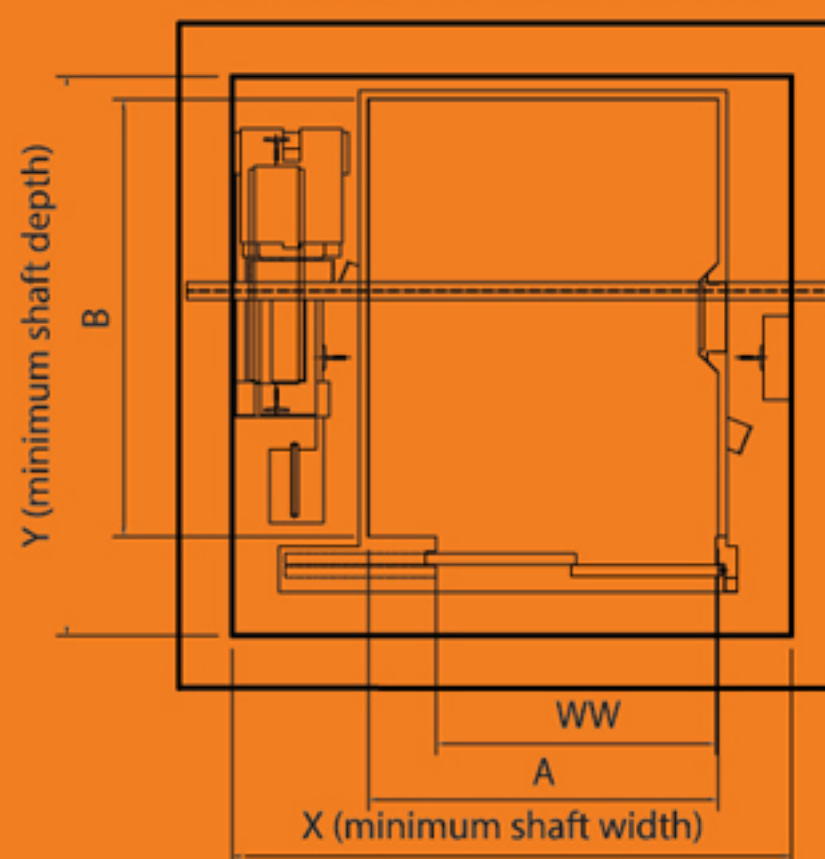


Passenger capacity	Speed m/min.	Loads (kg)	
		P1	P2
6	60	4000	3100
8		4150	3450
10		5100	3800
12		5700	4100
13		5900	4300

- The measurements listed on the table are minimum once finished (after plumb).
- Provide emergency doors on the floor when the height without service is equal to or greater than 11 meters.
- The loads are dynamic without a safety margin.
- Elevator shaft: other dimensions on request.
- When there is passage under the shaft, this requires a safety apparatus on counterweight. Check with ThyssenKrupp Elevators.
- All dimensions are in mm.

Technical Characteristics:
Maximum ride: 45 m
Control: ACSD e ACS

HORIZONTAL CROSS-SECTION



Synergy 90 and 105 m/min - Amazon Brand Size

Capacity of Car	Car dimensions with Central Door Opening					Dimensions of Shaft			Speed (m/min)
	Car			Door		X (width)	Y (depth)		
	Width	Depth	Height	Height	Width		Minimum	Maximum	
	A	B	CH	DH	WW				
8	1100	1400	*2100 2200 2400	2130 2000	800	1840	1670	1970	90/105
8	1250	1200				1910	1470	1770	
10	1300	1400				2040	1670	1970	
12	1500	1500			2140	1770	2070		
13									
14	1600	2225							

Capacity of Car	Car dimensions with Central Door Opening					Dimensions of Shaft			Speed (m/min)
	Car			Door		X (width)	Y (depth)		
	Width	Depth	Height	Height	Width		Minimum	Maximum	
	A	B	CH	DH	WW				
8	1100	1400	*2100 2200 2400	2130 2000	800	1725	1740	2040	90/105
8					900				
8	1250	1200			800	1870	1540	1840	
10	1300	1400			900	1925	1740	2040	
12	1500	1500			2125	1840	2140		
13									
13	1100								
14	1600	900	2225						

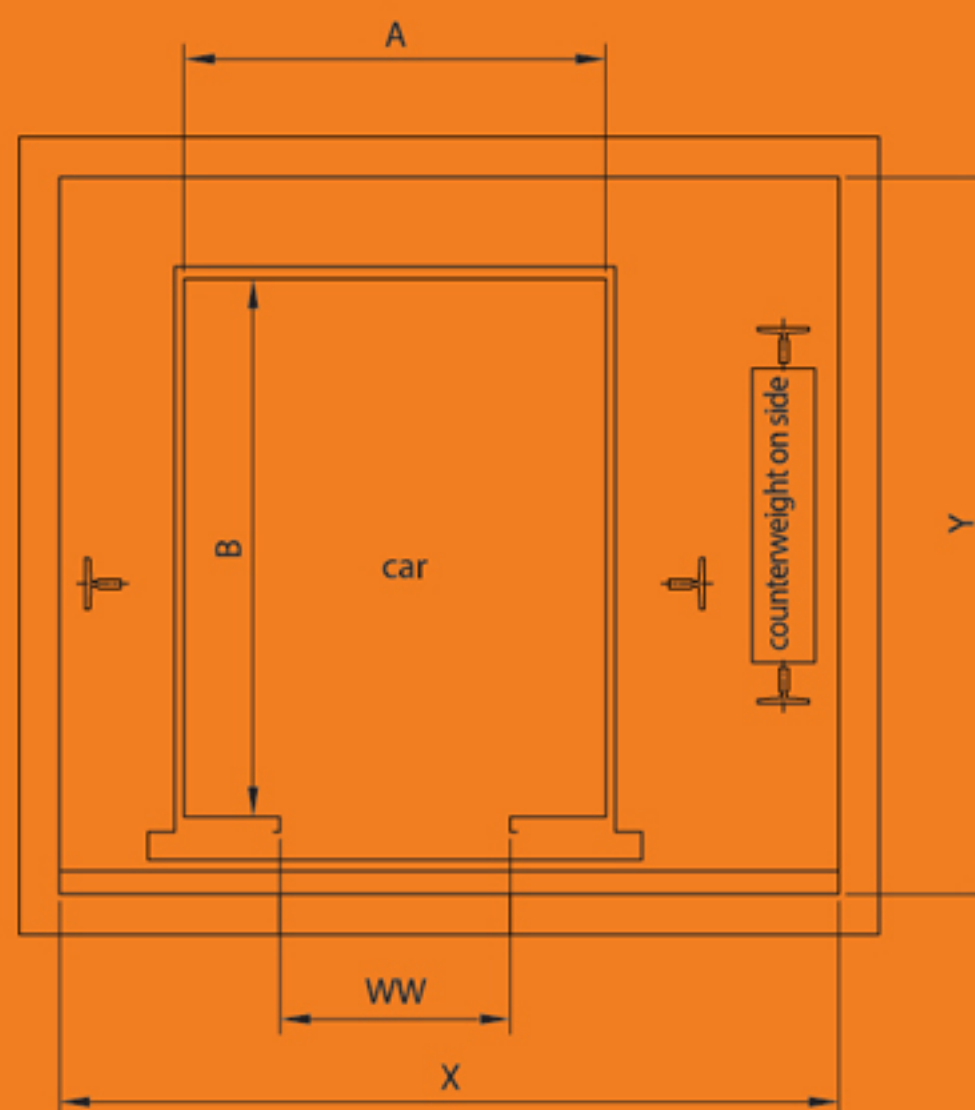
•The measurements listed on the table are minimum once finished (after plumb).

- (*) For working opening (WH) = 2100, use only WDH = 2000.
- Elevator shaft: other dimensions on request.
- When there is passage under the shaft, this requires a safety apparatus on counterweight. Check with ThyssenKrupp Elevators.
- All dimensions are in mm.

TECHNICAL CHARACTERISTICS

Maximum ride: 70 m
Control: ACSD and ACS

HORIZONTAL CROSS-SECTION



Synergy 90 and 105 m/min - Amazon Brand Vertical Cross-section

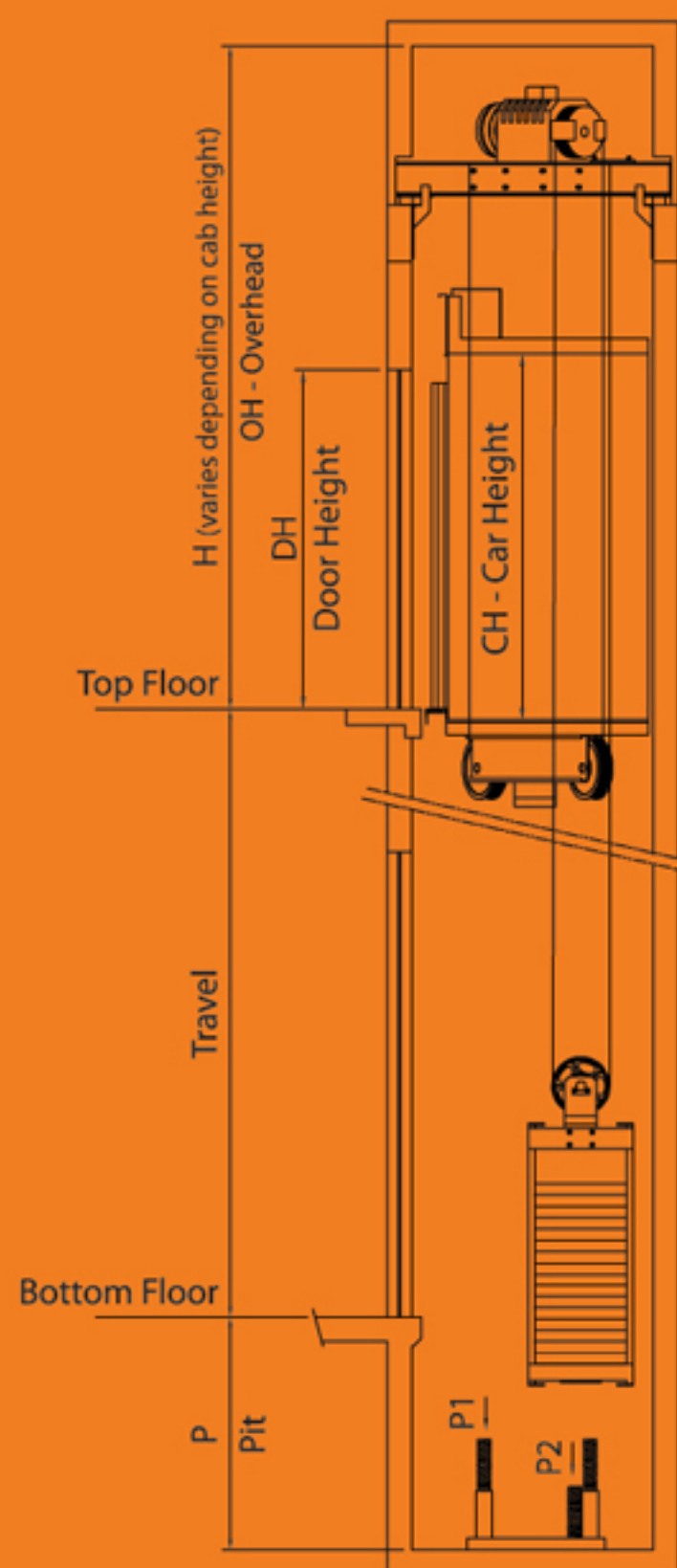
Passenger capacity	Speed m/min.	Loads (kg)	
		P1	P2
8	90/105	4800	4000
10		5400	4350
12		6000	4750
13		6300	4900
14		6600	5000

Capacity of passengers	Speed m/min.	Pit (P)	Door Height (DH)	Overhead (OH)	
				Standard	Maximum
* P8 1250 x 1200	90	1550	2100	4150	4450
			2200	4200	
			2400	4350	
Others			2100	4050	4250
			2200	4150	4350
			2400	4350	4550
* P8 1250 x 1200	105	1600	2100	4150	4450
			2200	4200	
			2400	4350	
Others			2100	4050	4250
			2200	4150	4350
			2400	4350	4550

* Due to using narrow guides of 650 for counterweight.

- The measurements listed on the table are minimum once finished (after plumb).
- Provide emergency doors on the floor when the height without service is equal to or greater than 11 meters.
- The loads are dynamic without a safety margin.
- All dimensions are in mm.

VERTICAL CROSS-SECTION



Synergy + Export Brand

Style, elegance, and flexibility

Together with Synergy, ThyssenKrupp Elevators also offers Export Brand. The model fits perfectly into your architectural design, a bold and innovative proposal that provides greater passenger convenience and can also be adapted for users with reduced mobility. In harmony with the latest trends in technology and with a focus on sustainability, the Export cars are the first to adopt LED lighting lamps, whose electronic module does not use lead in its production process, therefore lowering the contact of this toxic substance with the environment. Furthermore, the lamps considerably reduce power consumption, making it an environmentally friendly product.

Get to know the Export Brand and give a touch of class to your building project.



Finishes

CEILINGS:

- Electronic LED lighting

OPTIONS FOR FINISHES:

- Panels made of brushed stainless steel
- Lowered floor to receive a finish by the owner
- Vinyl flooring
- Doors and frames made of brushed stainless steel
- Doors of floors and frames in the colors:



gray



beige

GUARDRAILS:

- Tubular, only at back
- Tubular, on three sides (optional)

OPTIONAL FEATURES:

- Mirror, fireman's service, emergency power operation, coded access, preferred parking, collective call, group control, false call, Digivox, optional features for the disabled, Biotracking



Finishes

CALL BUTTONS IN CAR



Numeric pad (Biotracking is optional)

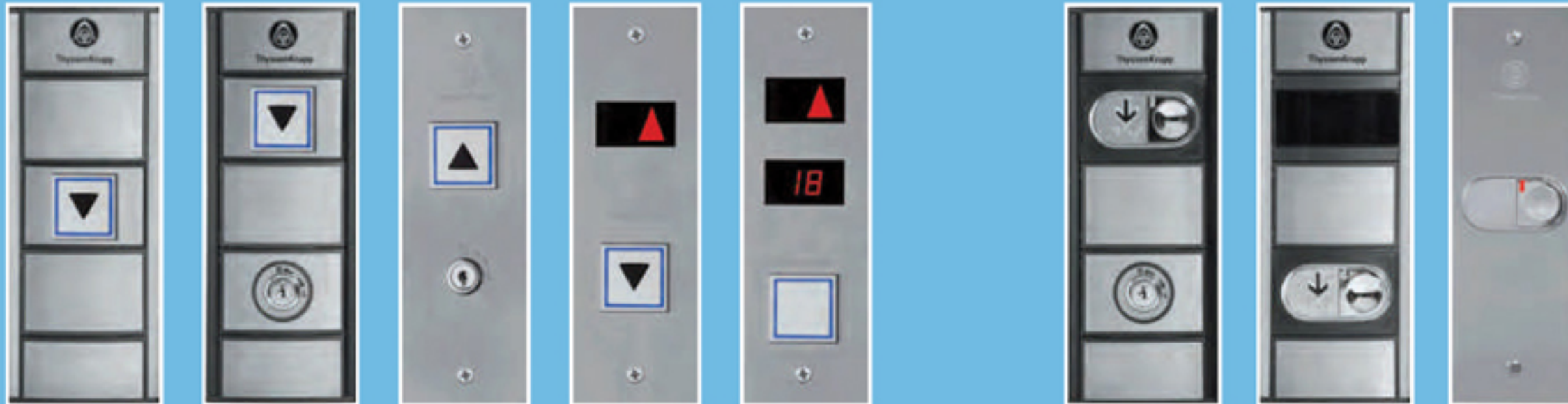


New Soft Press with blue LED



High Protection (anti-vandalism)

FLOOR CALL BUTTONS



New Soft Press

High Protection

CAR POSITION INDICATORS (on operation panel)

TK-XXI Car



TK-99 Plus Car



Important: For button pads in the car, the position indicator should always be the TK-XXI Car.

FLOOR POSITION INDICATORS

TK-921 Plus

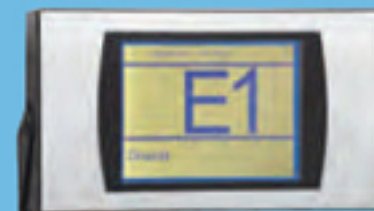


Black finish

TK-300



TK-XXI



Stainless steel finish

TK-200



TK-100



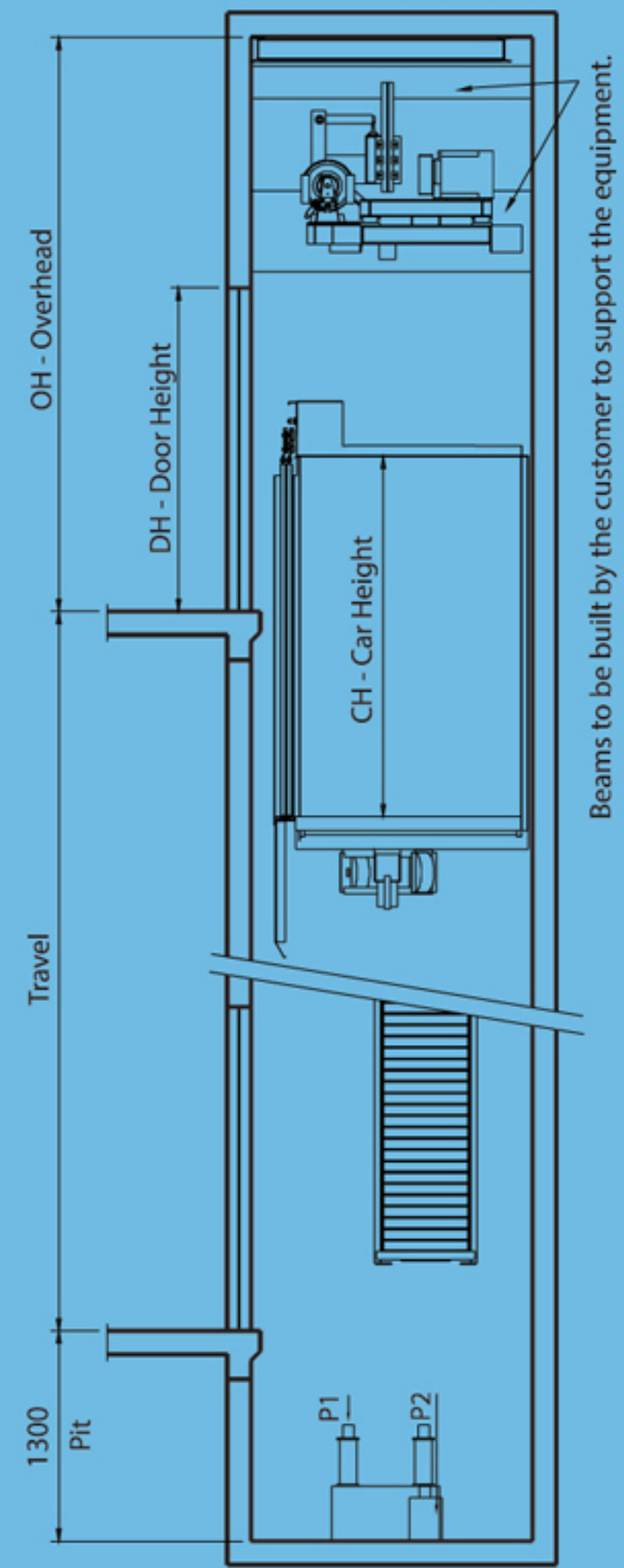
Synergy 60 m/min - Export Brand Size

HORIZONTAL CROSS-SECTION

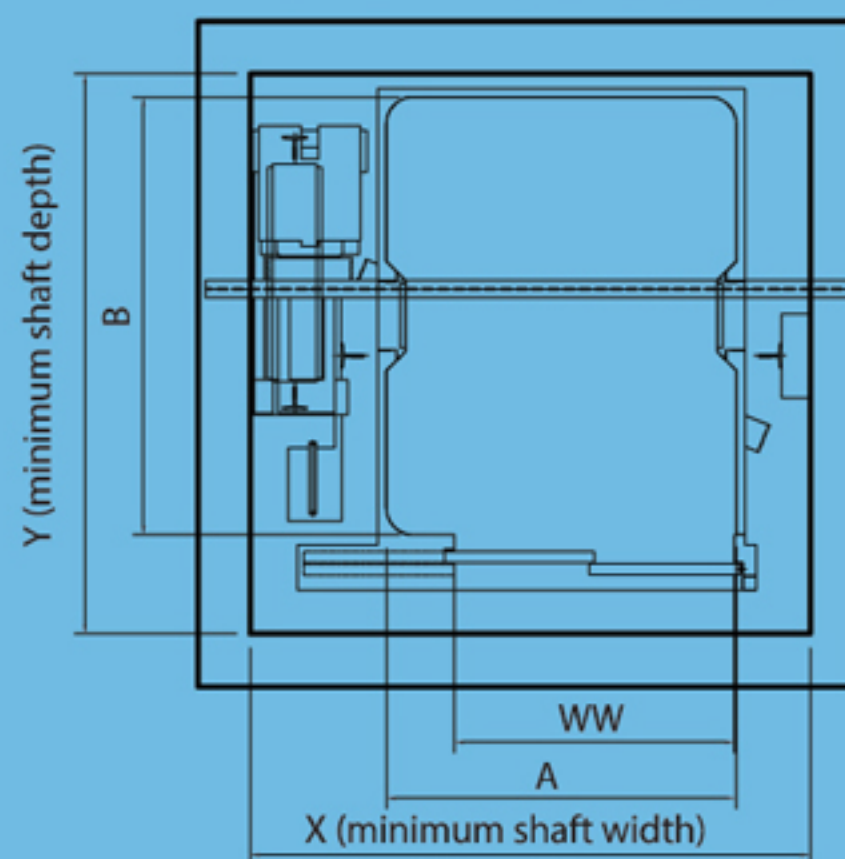
Capacity of Car	Opening	Car Size			X		Y	OH - Overhead		CH	Door	Speed. (m/min)			
		A	B	WW	min.	max.		Standard	Maximum						
6	SO	1000	1250	800	1550	1900	1590	3750	4000	2200	2000	60			
				900				2110	1740				3950	4200	2400
				800				1700	2110				1740	3750	4000
900	3950	4200	2400												
8	CO	1250	1200	800	1820	2200	1670	3750	4000	2200	2130	60			
					1850	2260	1610	3950	4200	2400					
	SO	1300	1400	900	1950	2345	1780	3750	4000	2200					
					2070		1710	3950	4200	2400					
10	CO	1300	1400	900	2070	1710	1710	3750	4000	2200	2130	60			
								3950	4200	2400					
								3750	4000	2200					
13	SO	1500	1500	1100	2160	2540	1850	3750	4000	2200	2130	60			
				900				3950	4200	2400					
	CO	1500	1500	900	1770	3750	4000	2200	3950	4200			2400		

VERTICAL CROSS-SECTION

VERTICAL CROSS-SECTION



HORIZONTAL CROSS-SECTION



Passenger capacity	Speed m/min.	Loads (kg)	
		P1	P2
6	60	4000	3100
8		4150	3450
10		5100	3800
12		5700	4100
13		5900	4300

- The measurements listed on the table are minimum once finished (after plumb).
- Provide emergency doors on the floor when the height without service is equal to or greater than 11 meters.
- The loads are dynamic without a safety margin.
- Elevator shaft: other dimensions on request.
- When there is passage under the shaft, this requires a safety apparatus on counterweight. Check with ThyssenKrupp Elevators.
- All dimensions are in mm.

TECHNICAL CHARACTERISTICS

Maximum ride: 45 m
Control: ACSD and ACS

Synergy 90 and 105 m/min - Export Brand Size

Capacity of passengers	Car dimensions with Central Door Opening					Dimensions of Shaft			Speed (m/min)
	Car			Door		X (width)	Y (depth)		
	Width	Depth	Height	Height	Width		Minimum	Maximum	
	A	B	CH	WDH	WW				
8	1100	1400	2200	2130	800	1840	1670	1970	90/105
8	1250	1200				1910	1470	1770	
10	1300	1400	2400	2000	900	2040	1670	1970	
12	1500					2140	1770	2070	
13	1500	1500				2225			
14	1600								

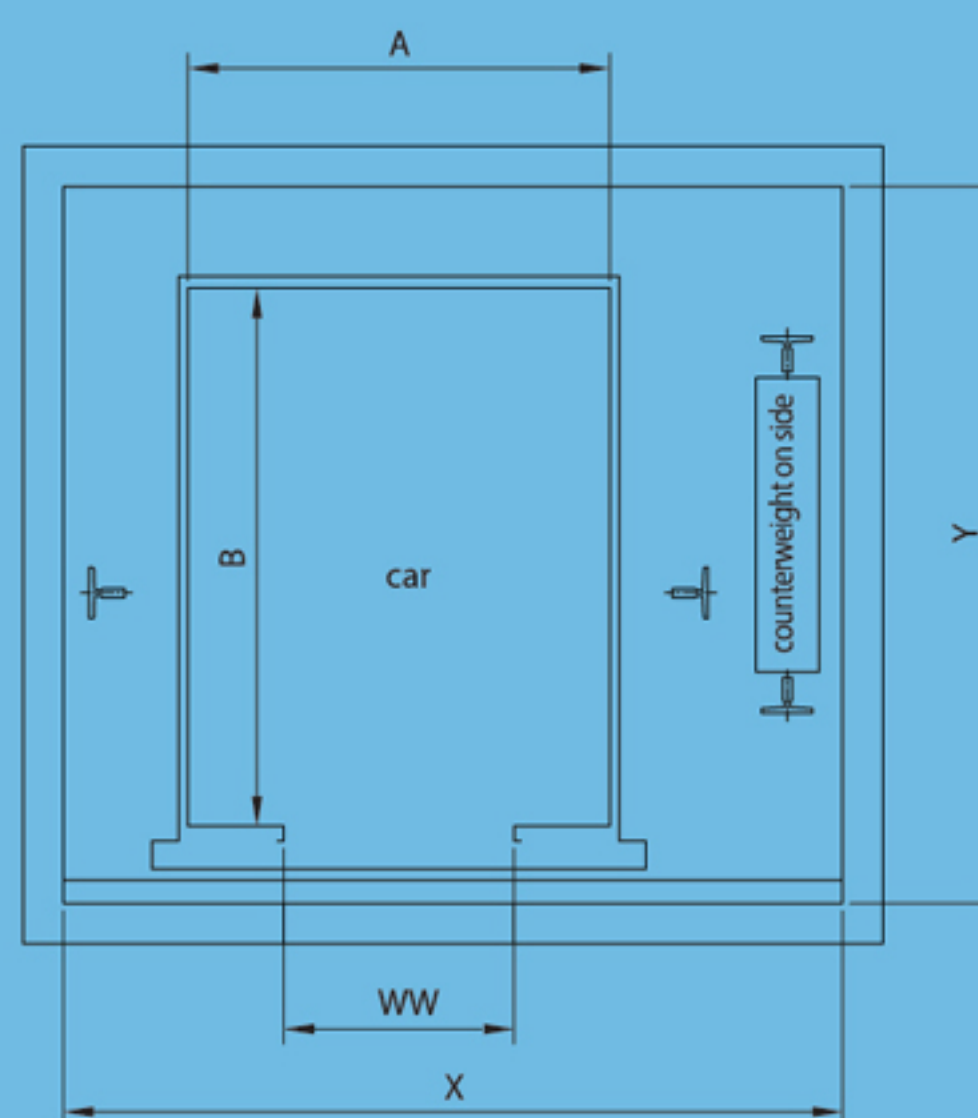
Capacity of passengers	Car dimensions with Central Door Opening					Dimensions of Shaft			Speed (m/min)
	Car			Door		X (width)	Y (depth)		
	Width	Depth	Height	Height	Width		Minimum	Maximum	
	A	B	WH	WDH	WW				
8	1100	1400	2200	2130	800	1725	1740	2040	90/105
8					900				
8	1250	1200	2400	2000	800	1870	1540	1840	
10	1300	1400			900	1925	1740	2040	
12	1500		1500				2125	1840	
13									
13	1500				1100				
14	1600				900	2225			

- The measurements listed on the table are minimum once finished (after plumb).
- Elevator shaft: other dimensions on request.
- When there is passage under the shaft, this requires a safety apparatus on counterweight. Check with ThyssenKrupp Elevators.
- All dimensions are in mm.

TECHNICAL CHARACTERISTICS

Maximum ride: 70 m
Control: ACSD and ACS

HORIZONTAL CROSS-SECTION



Synergy 90 and 105 m/min - Export Brand

Vertical Cross-section

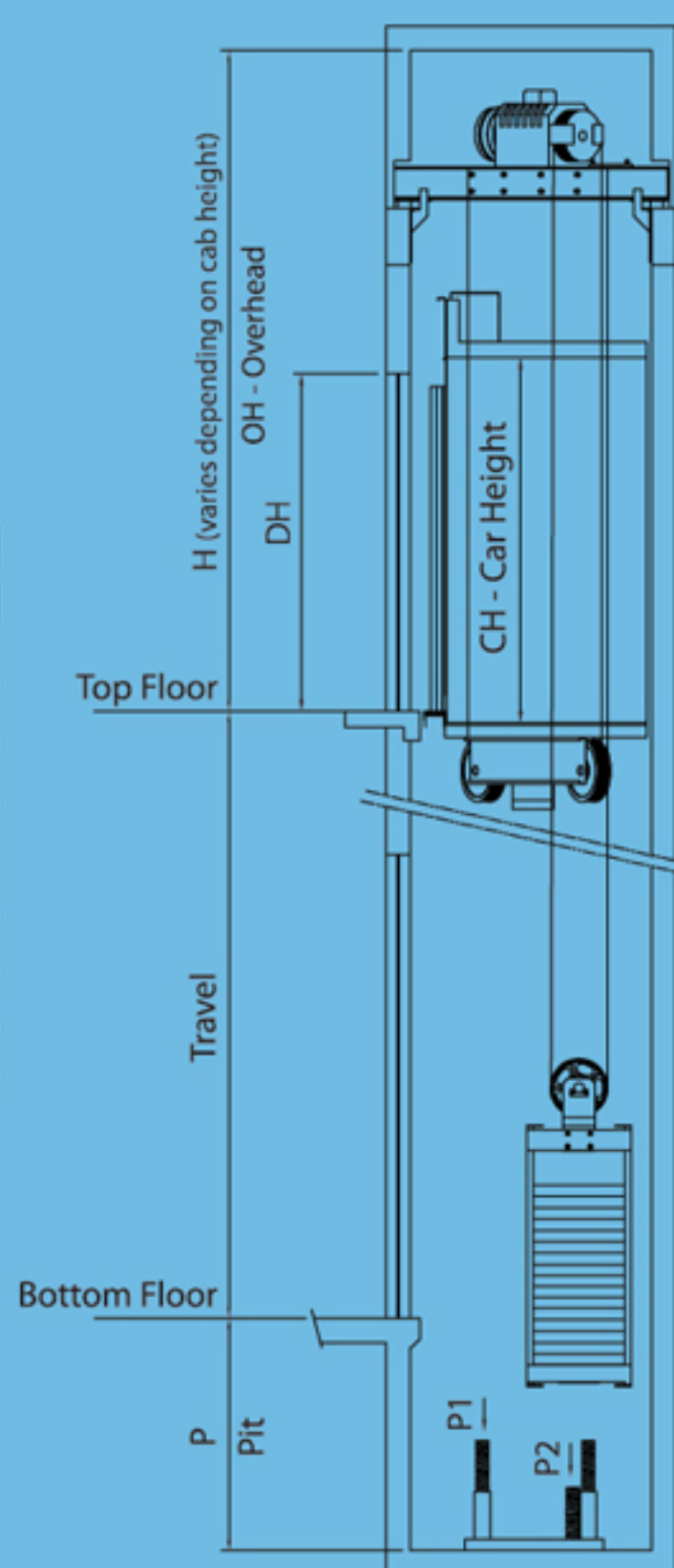
Capacity of Car	Speed m/min.	Loads (kg)	
		P1	P2
8	90/105	4800	4000
10		5400	4350
12		6000	4750
13		6300	4900
14		6600	5000

Capacity of Car	Speed m/min.	Pit (P)	Car Height (CH)	Overhead (OH)	
				Standard	Maximum
* P8	90	1550	2200	4200	4450
1250 x 1200			2400	4350	4550
Others			2200	4150	4350
			2400	4350	4550
* P8	105	1600	2200	4200	4450
1250 x 1200			2400	4350	4550
Others			2200	4150	4350
			2400	4350	4550

* Due to using narrow guides of 650 for counterweight.

- The measurements listed on the table are minimum once finished (after plumb).
- Provide emergency doors on the floor when the height without service is equal to or greater than 11 meters.
- The loads are dynamic without a safety margin.
- All dimensions are in mm.

VERTICAL CROSS-SECTION



Synergy + Type A Panoramic

A privileged view of your world



Integrated with the Synergy range, ThyssenKrupp Elevators offer the Type A Panoramic car - a modern and bold concept in vertical transportation based on a quality benchmarked with world-renowned products.

Designed for special clients like you, this option follows the latest trends in technology and is equipped with lead-free LED light bulbs, which reduce environmental impact. Along with this advantage, there is also a reduction in the consumption of power, making it an environmentally-friendly product. During the ride, users of the Type A Panoramic car are guaranteed to enjoy scenic, safe, comfortable and pleasant transportation because they can see what is going on around them with the charm and sophistication that marks products from ThyssenKrupp Elevators.





Finishes

CALL BUTTONS IN CAR



Numeric pad (Biotracking is optional)



New Soft Press with blue LED



High Protection (anti-vandalism)

FLOOR CALL BUTTONS



New Soft Press

High Protection

CAR POSITION INDICATORS (on operation panel)

TK-XXI Car



TK-99 Plus Car



Important: For button pads in the car, the position indicator should always be the TK-XXI Car.

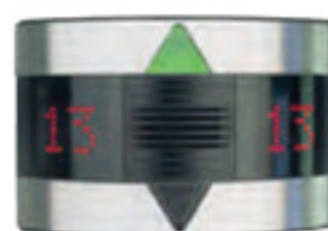
FLOOR POSITION INDICATORS

TK-921 Plus



Black finish

TK-300



TK-XXI



Stainless steel finish

TK-200



TK-100



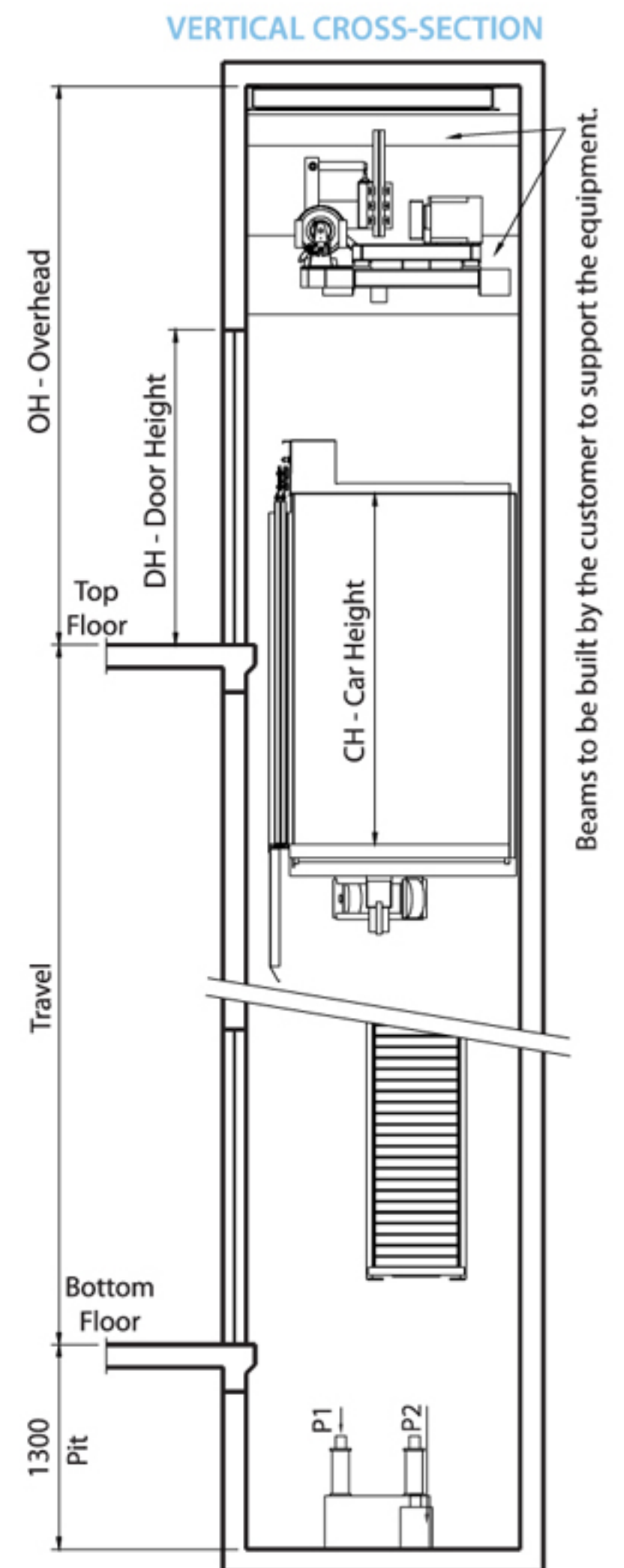
Synergy 60 m/min - Type A Panoramic Size

HORIZONTAL CROSS-SECTION

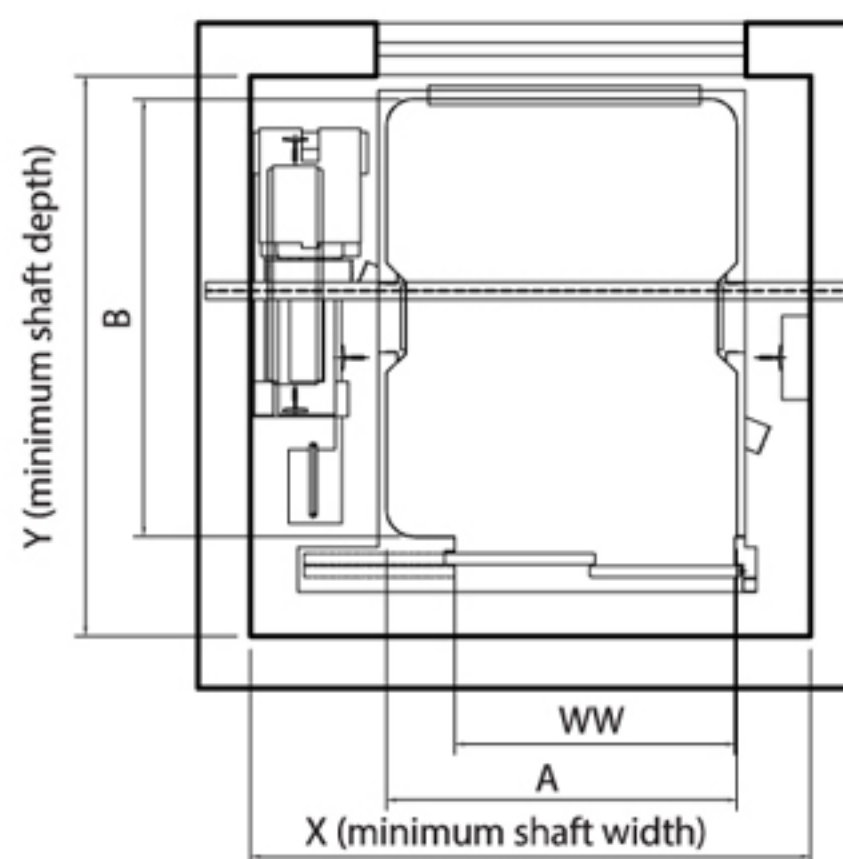
Capacity of passengers	Open	Floor	Car Size			X		Y	Overhead (OH)		Car Height (CH)	Door Height (DH)	Speed. (m/min)
			A	B	WW	min.	max.		Standard	Maximum			
6	SO	Linoleum	1000	1250	800	1550	1750	1625	3750	4000	2200	2000	60
		Cold							3950	4200			
8	SO	Linoleum	1100	1400	800	1700	2110	1775	3750	4000	2200	2130	
		Cold							3950	4200			
	CO	Linoleum	1100	1400	800	1820	2200	1705	3750	4000	2200		
		Cold							3950	4200		2400	
	SO	Linoleum	1250	1200	800	1850	2260	1645	3750	4000	2200		
		Cold							-	-		-	
CO	Linoleum	1250	1200	800	1900	2310	1565	3750	4000	2200			
	Cold							-	-		-	-	
10	SO	Linoleum	1300	1400	900	1950	2345	1815	3750	4000	2200		
		Cold							3950	4200		2400	
	CO	Linoleum				2070	2345	1745	3750	4000	2200		
		Cold				3950	4200	2400					
13	SO	Linoleum	1500	1500	1100	2160	2540	1885	3750	4000	2200		
		Cold							-	-		-	-
	CO	Linoleum				2160	2540	1805	3750	4000	2200		
		Cold				-	-	-	3950	4200	2400		

SO - Side Opening, CO - Centre Opening

VERTICAL CROSS-SECTION



HORIZONTAL CROSS-SECTION



Passenger capacity	Speed m/min.	Loads (kg)	
		P1	P2
6	60	4000	3100
8		4150	3450
10		5100	3800
12		5700	4100
13		5900	4300

- Provide emergency doors on the floor when the height without service is equal to or greater than 11 meters.
- The loads are dynamic without a safety margin.
- Elevator shaft: other dimensions on request.
- When there is passage under the shaft, this requires a safety apparatus on counterweight. Check with ThyssenKrupp Elevators.
- All dimensions are in mm.

TECHNICAL CHARACTERISTICS

Maximum ride: 45 m
Control: ACSD and ACS

Synergy 90 and 105 m/min - Type A Panoramic Size

Capacity of passengers	Cab dimensions with Central Door Opening					Dimensions of Shaft			Speed (m/min)
	Car			Door		X (width)	Y (depth)		
	Width	Depth	Height	Height	Width		Minimum	Maximum	
	A	B	CH	DH	WW				
8	1100	1400	2200	2130	800	1840	1705	2005	90/105
8	1250	1200				1910	1505	1805	
10	1300	1400	2400	2000	900	2040	1705	2005	
12	1500					2140	1805	2105	
13	1500	1500	2400	2000	900	2225	1805	2105	
14	1600					2225	1805	2105	

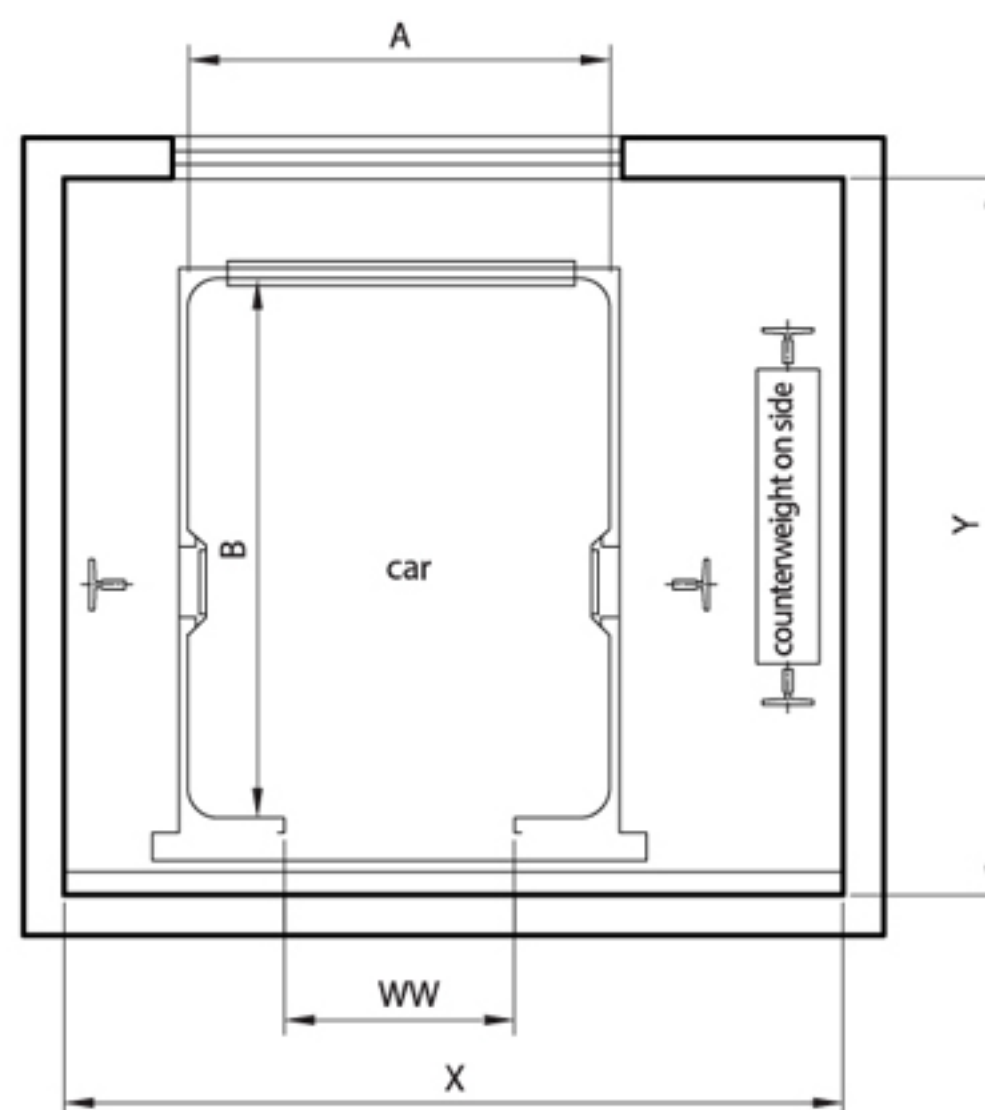
Capacity of passengers	Cab dimensions with Central Door Opening					Dimensions of Shaft			Speed (m/min)
	Car			Door		X (width)	Y (depth)		
	Width	Depth	Height	Height	Width		Minimum	Maximum	
	A	B	WH	DH	WW				
8	1100	1400	2200	2130	800	1725	1805	2075	90/105
8					900				
8	1250	1200	2400	2000	800	1870	1575	1875	
10	1300	1400			900	1925	1775	2075	
12	1500	1500	2400	2000	900	2125	1875	2175	
13									
13	1500	1500	2400	2000	1100	2225	1875	2175	
14	1600	900			2225				1875

- The measurements listed on the table are minimum once finished (after plumb).
- Elevator shaft: other dimensions on request.
- When there is passage under the shaft, this requires a safety apparatus on counterweight. Check with ThyssenKrupp Elevators.
- All dimensions are in mm.

TECHNICAL CHARACTERISTICS

Maximum ride: 70 m
Control: ACSD and ACS

HORIZONTAL CROSS-SECTION



Synergy 90 and 105 m/min - Type A Panoramic Vertical Cross-section

VERTICAL CROSS-SECTION

Passenger capacity	Speed m/min.	Loads (kg)	
		P1	P2
8	90/105	4800	4000
10		5400	4350
12		6000	4750
13		6300	4900
14		6600	5000

Capacity passengers	Speed m/min.	Shaft (P)	Working height (WH)	Overhead (OH)	
				Standard	Maximum
* P8	90	1550	2200	4200	4450
1250 x 1200			2400	4350	4550
Others			2200	4150	4350
			2400	4350	4550
* P8	105	1600	2200	4200	4450
1250 x 1200			2400	4350	4550
Others			2200	4150	4350
			2400	4350	4550

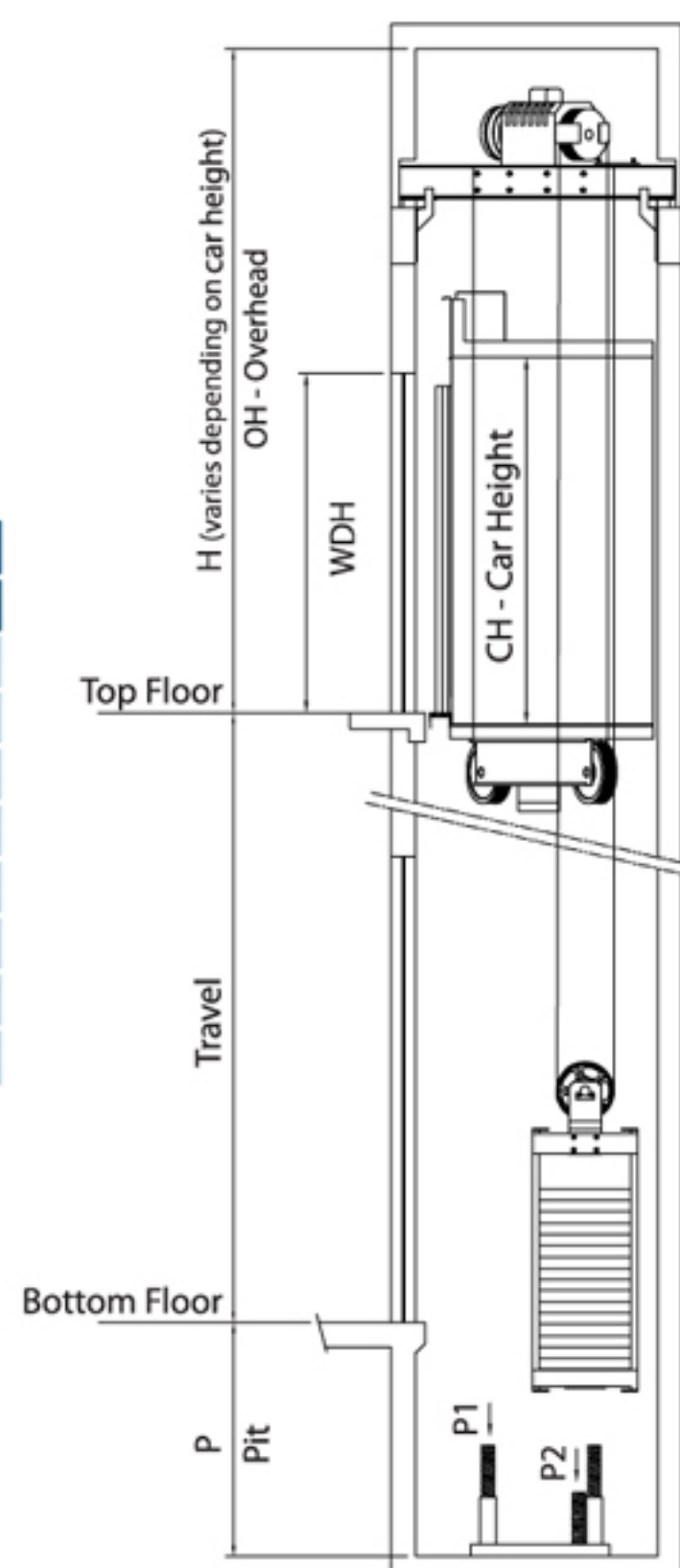
* Due to using narrow guides of 650 for counterweight.

•The measurements listed on the table are minimum once finished (after plumb).

•Provide emergency doors on the floor when the height without service is equal to or greater than 11 meters.

•The loads are dynamic without a safety margin.

•All dimensions are in mm.





ThyssenKrupp Elevators



ThyssenKrupp



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