

# SYNERGY 200 FULL REPLACEMENT

## Planning data

### GENERAL PRODUCT SCOPE

Load	320 / 450 / 630 / 825 / 1000 kg
Speed	1.0 (self supporting car), 1.6 and 1.75 m/s (car with sling)
Travel height	45 m at 1.0 m/s and 75 m at 1.6 and 1.75 m/s
Elevator type	Machine room-less / machine room

### Legend:

n°: Passengers	SD: Shaft depth
Q: Load	P: Pit
CW: Car width	OH: Overhead
CD: Car depth	SE: Single boarding
DW: Door width	DE: Double boarding
SW: Shaft width	

### GENERAL PIT AND OVERHEAD OVERVIEW

	CW	CD	CH	Pit					Overhead				
				Extra reduced	Reduced	Standard			Reduced (CH=2070 mm)	Standard (CH=2200 mm)			
						1 m/s	1.6 m/s	1.75 m/s		1 m/s	1.6 m/s	1.75 m/s	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
320 kg	750	900				1100			-	3485			
	850	1000											
450 kg	1000	1250	2070			1000							
	1000	1300	2200			1000			2555				
630 kg	1100	1400	2300	425*	550*								
825 kg	1350	1400	2400						2825	3400			
	1100	2100	2500			1000	1350	1460	2555		3615	3745	
1000 kg	1400	1600							2825				
	1600	1400											

**Note:** Reduced overhead option for TH ≤ 30 m and without compensation chain.

\* Feasibility check required according to car weight.

The values shown correspond to a generic installation. Please contact your TK Elevator sales representative for guaranteed shaft dimensions for specific projects.

■ Highlights for full replacement



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 be also considered.

SYSTEM				CABIN		DOOR				SHAFT					
Rated load [kg]	Number of 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] asymmetrical door	Shaft width [mm] symmetrical door	Shaft depth [mm] Door partially in shaft	Shaft depth [mm] Door in shaft	Shaft pit [mm]	Shaft head [mm]
320	4	1.0	45	750 x 900	2150-2200	S/D	C4	700	2000-2100						
						S	C4-A	700	2000	1280	1340	1195	1195	1100	3485
						D	C4-A	700	2000	1280	1340	1235	1240	1100	3485
320	4	1.0	45	850 x 1000	2150-2200	S/D	C4-A/S	700-800	2000-2100						
						S	C4-A	800	2000	1465	1380	1245	1245	1100	3485
						D	C4-A	800	2000	1465	1380	1335	1340	1100	3485
450	6	1.0	45	1000 x 1250	2150-2200	S/D	C4-A/S	700-900	2000-2100						
						S	C4-A	800	2000	1540	1500	1485	1485	1000	3400
						D	C4-A	800	2000	1540	1500	1585	1590	1000	3400
450	6	1.0	45	1000 x 1300	2150-2200	S/D	C4-A/S	700-900	2000-2100						
						S	C4-A	900	2000	1615	1510	1535	1535	1000	3400
						D	C4-A	900	2000	1615	1510	1635	1640	1000	3400
630	8	1.0	45	1100 x 1400	2150-2200	S/D	C4-A/S	700-900	2000-2100						
						S	C4-A	800	2000	1600	1600	1635	1635	1000	3400
						S	C4-A	900	2000	1665	1600	1635	1635	1000	3400
						D	C4-A	800	2000	1600	1600	1735	1740	1000	3400
630	8	1.0	45	1100 x 1400	2150-2200	D	C4-A	900	2000	1665	1600	1735	1740	1000	3400
						S	C4-A	900	2000	1600	1600	1635	1635	1000	3400
						S	C4-A	900	2000	1665	1600	1635	1635	1000	3400
						D	C4-A	900	2000	1600	1600	1735	1740	1000	3400
825	10	1.0	45	1350 X 1400	2150-2200	S/D	C4-A/S	700-900	2000-2100						
						S	C4-A	900	2000	1850	1850	1635	1635	1000	3400
						D	C4-A	900	2000	1850	1850	1735	1740	1000	3400
1000	10	1.0	45	1100 X 2100	2150-2200	S/D	C4-A/S	700-900	2000-2100						
						S	C4-A	800	2000	1600	1600	2335	2335	1000	3400
						S	C4-A	900	2000	1665	1600	2335	2335	1000	3400
						D	C4-A	800	2000	1600	1600	2435	2440	1000	3400
1000	10	1.0	45	1400 X 1600	2150-2200	D	C4-A	900	2000	1665	1600	2435	2440	1000	3400
						S	C4-A	900	2000	1900	1900	1835	1835	1000	3400
						S	C4-A	900	2000	1900	1900	1935	1940	1000	3400
						D	C4-A	900	2000	1900	1900	1935	1940	1000	3400
1000	10	1.0	45	1600 X 1400	2150-2200	S/D	C4-A/S	700-900	2000-2100						
						S	C4-A	900	2000	2100	2100	1635	1635	1000	3400
						D	C4-A	900	2000	2100	2100	1735	1740	1000	3400

**Key:** S: Single entrance, D: Double entrance, C4: Central-opening door with 4 panels, C4-A: Asymmetrical central-opening door with 4 panels, C4-S: Symmetrical central-opening door with 4 panels.

**Note:** Optional reduced SP = 425/550 mm and reduced SH = CH+490 mm. Consult shaft dimensions for 1.6 and 1.75 m/s speed, different car heights or type of doors. Shaft dimensions considering a general shaft tolerance of +/- 25 mm on each side.

■ Highlights for full replacement

Door types and dimensions

Door type	LD10 / CD10		LD20 / CD20						LD20 / CD30						LD20 Extra slim / CD20 Extra slim	LD30 / CD30							
	L2		C2		L2		L3	C2		C4		L2		C2		L3	C4	L2		C2		C4	
	Frame	Full-front	Frame	Frame	Full-front	Frame	Frame	Frame	Frame	Frame	Full-front	Glass with frame	Frame	Glass with frame	Frame	Frame	Frame	Frame	Glass with frame	Frame	Glass with frame	Frame	Frame
Opening	side	side	centre	side	side	side	centre	centre	side	side	side	centre	centre	side	centre	side	side	centre	centre	centre	centre	centre	
N# Panels	2	2	2	2	2	3	2	4	2	2	2	2	2	3	4	2	2	2	2	2	2	4	
Door width mm	700	•	-	•	•	-	c.e.	•	c.e.	c.e.	-	c.e.	c.e.	c.e.	•	•	c.e.	c.e.	c.e.	c.e.	c.e.	c.e.	
	800	•	•	•	•	•	c.e.	•	c.e.	•	•	•	•	•	•	•	•	•	•	•	•	•	c.e.
	900	•	•	•	•	•	c.e.	•	c.e.	•	•	•	•	•	•	•	•	•	•	•	•	•	c.e.
	1000	-	-	-	•	-	c.e.	•	c.e.	•	-	•	•	•	•	-	•	•	•	•	•	•	c.e.
	1100	-	-	-	•	-	-	•	c.e.	•	-	-	•	-	-	-	•	•	•	•	•	•	c.e.
Door height mm	2000	•	•	•	•	•	c.e.	•	c.e.	•	•	•	•	•	•	•	•	•	•	•	•	•	c.e.
	2100	•	•	•	•	•	c.e.	•	c.e.	•	•	•	•	•	•	•	•	•	•	•	•	•	c.e.
	2300	-	-	-	•	-	-	•	c.e.	•	-	-	•	-	-	-	•	•	•	•	•	•	c.e.

- As standard
- Not available
- c.e. Contract engineering

NOTE

Additional information
Shaft tolerance +/-25 mm
Min. shaft tolerance 0/+25 mm
Cabin dimension flexibility 10 mm steps