

2. Geared Machine Room Less (MRL) Electric Traction Lifts



General Specifications

Rated load	kg	320	450	630	800	1000
Rated speed	m/s	1 m/s				
Car internal dimensions		Check the design dimensions				
Type of doors		2 or 3 panels side-opening doors and 2 or 4 panels centre-opening doors				
Clear door opening	mm	700 – 800 – 900 – 1000 – 1100				
Car entrances		1 entrance, 2 entrances at 180°, 2 entrances at 90° (for loads up to 630 kg)				
Maximum stops / entrances		32				
Maximum car travel	m	50				
Type of hoist machine		2V / V3F	2V / V3F	2V / V3F	V3F	V3F
Hoist machine model		O-140				
Motor power	kW (2V)	3	4	5.5	10.6	10.6
	kW (V3F)	4	4	5.5	10.6	10.6
Number of ropes		4 ø 8	5 ø 8	6 ø 8	6 ø 8	6 ø 8
Car guiderails		T-120	T-120	T-120	T-125	T-125
Counterweight guiderails		T-70	T-70	T-70	T-70	T-70
Counterweight guiderails (with safety gear)		T-90	T-90	T-90	T-90	T-90
Roping		1:1	1:1	1:1	2:1	2:1

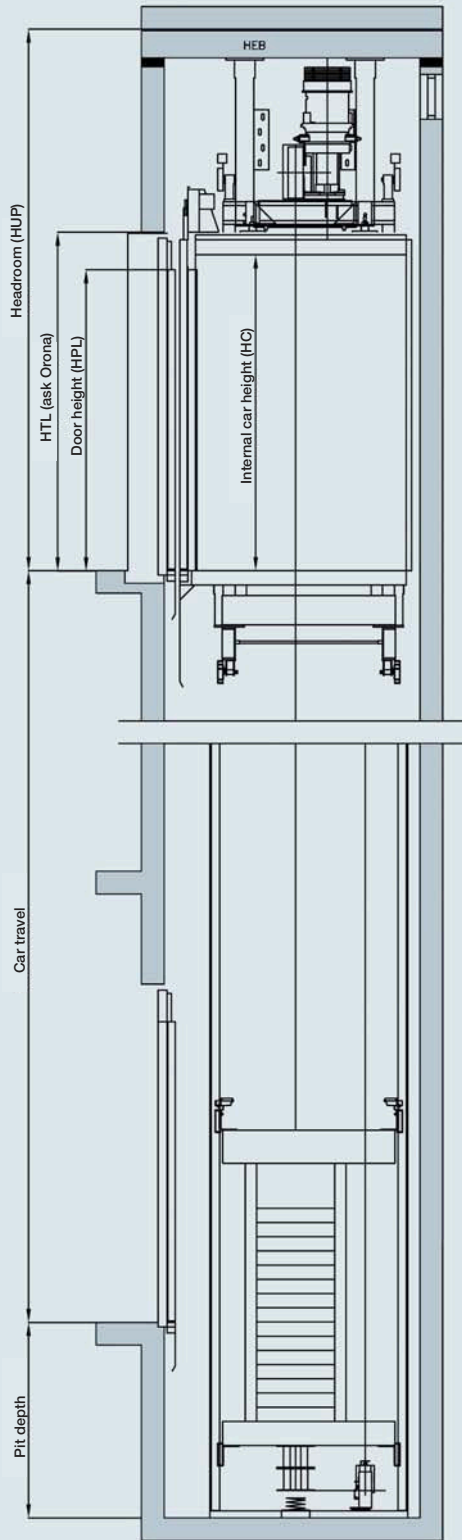
Design dimensions for side-opening doors, centre-opening doors, with side counterweight

Persons	Rated Load kg Q	Doors Size			Car internal			Recommended Shaft Size			Headroom height (mm) HUP	Pit depth (mm) Pit depth	
					Width	Depth	Height	Width (mm) AH	Depth				
		Type	(mm) Clear opening	(mm) HPL	(mm) AC	(mm) FC	(mm) HC		1 entr. (mm) FH	2 entr. at 180° (mm) FH			
4	320	TT	700	2000	800	1100	2100	1425	1500	–	3600	1200	
					825	1100		1425	1500	–			
					830	1100		1430	1500	–			
		CC	700	2000	800	1100	2100	1685	1430	–			
					825	1100	1685	1430	–				
					830	1100	1685	1430	–				
6	450	TT	800	2000	900	1350	2100	1525	1750	1910	3600	1200	
					925	1300		1525	1700	1860			
					950	1250		1550	1650	1810			
					975	1250		1575	1650	1810			
					1000	1250		1600	1650	1810			
					1000	1200		1600	1600	1760			
			900	2000	1000	1250		1625	1650	1810			
					1000	1200		1625	1600	1760			
					900	1350		1840	1680	1765			
					925	1300		1840	1630	1715			
					950	1250		1840	1580	1665			
					975	1250		1840	1580	1665			
		CC	800	2000	1000	1250	2100	1840	1580	1665			
					1000	1200	1840	1530	1615				
					1000	1250	1990	1580	1665				
					1000	1200	1990	1530	1615				
					900	2000	1000	1250	1990	1580			1665
					1000	1200	1000	1200	1990	1530			1615
			TT	800	2000	925	1700	2100	1525	2100			2260
						950	1650		1550	2050			2210
						975	1600		1575	2000			2160
						1000	1550		1600	1950			2110
						1050	1450		1650	1850			2010
						1100	1400		1700	1800			1960
900	2000	1000		1550	1625	1950	2110						
		1050		1450	1650	1850	2010						
		1100		1400	1700	1800	1960						
		925		1700	1840	2030	2115						
		950		1650	1840	1980	2065						
		975		1600	1840	1930	2015						
CC	800	2000	1000	1550	2100	1840	1880	1965					
			1050	1450	1840	1780	1865						
			1100	1400	1840	1730	1815						
			1000	1550	1990	1830	1965						
			1050	1450	1990	1780	1865						
			1100	1400	1990	1730	1815						
	900	2000	1000	1900	2100	1620	2300	2460					
			1050	1800		1670	2200	2360					
			1100	1700		1720	2100	2260					
			1000	1900		1620	2300	2460					
			1050	1800		1670	2200	2360					
			1100	1700		1720	2100	2260					
CC	800	2000	1000	1900		2100	1840	2230	2315				
			1050	1800			1840	2130	2215				
			1100	1700			1840	2030	2115				
			1000	1900			1990	2230	2315				
			1050	1800			1990	2130	2215				
			1100	1700			1990	2030	2115				
	900	2000	1100	1700	2100		1990	2130	2215				
			1100	1700			1990	2030	2115				
			1100	2100			1715	2500	2660				
			1150	2000			1765	2400	2560				
			1200	1900			1815	2300	2460				
			1250	1800			1865	2200	2360				
TT	900	2000	1300	1750		2100	1915	2150	2310				
			1350	1700			1965	2100	2260				
			1100	2100			1990	2430	2515				
			1150	2000			1990	2330	2415				
			1200	1900			1990	2230	2315				
			1250	1800			1990	2130	2215				
	CC	900	2000	1300	1750		2100	1990	2080	2165			
				1350	1700			1990	2030	2115			

Note: DOORS RESTING
· Landing doors resting completely inside the shaft.

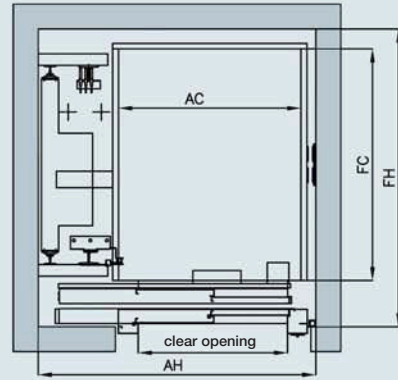
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Shaft side view

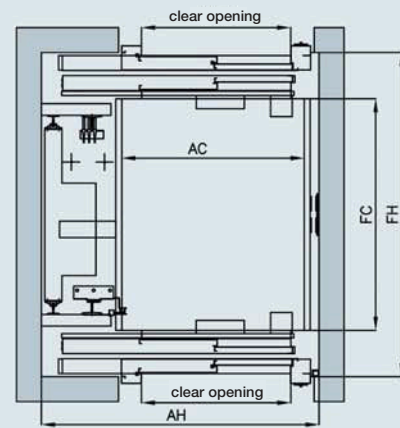


Vertical shaft section

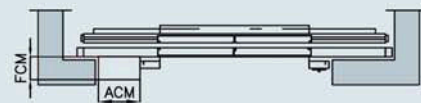
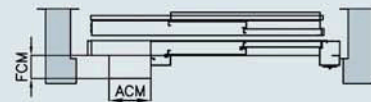
Plan view of shaft



Horizontal section,
TT doors, 1 entrance



Horizontal section,
TT doors, 2 entrances at 180°



ACM (mm)	FCM (mm)
277	152

Main controller on last floor door entrance