

4. Hydraulic Lifts



General Specifications

Rated load	320 kg	450 kg	630 kg	800 kg	1000 kg	1250 kg	>1250 kg
Rated speed	0.6 m/s (Optional 1 m/s)						0.6 m/s
Car internal dimensions	Check the design dimensions						
Type of doors	2 or 3 panels side-opening; 2, 4 or 6 panels centre-opening; Articulated doors.						
Car entrances	1 entrance, 2 entrances at 180°, 2 entrances at 90° lift Dimensions for 2 entrances at 90°: Refer to Orona						1 entrance, 2 entrances at 180°
Maximum stops / entrances	According to car travel						
Maximum car travel	19 m (refer to Orona for longer travel)						
Motor starting controls	4,5 V, 400V, 380V or 220V hydraulic unit Direct-on-line / Star-Delta / Soft Starter according to power and/or specification						
Roping	1:1 or 2:1 according to car travel						
Car guiderails	T-90/A Rated			T-125/B Machined			
Safety gear	Roping 1:1: none Roping 2:1: slack rope instantaneous safety gear						Governor-operated instantaneous safety gear
Location of piston/s	Depending on the relation between Car Width (AC) and Car Depth (FC) If $AC > FC$ → rear-mounted piston; If $AC < FC$ → side-mounted piston						Two side-mounted pistons
Maximum internal car dimensions	Rear-mounted piston, FC = 1250 mm Side-mounted piston, AC = 1250 mm			Rear-mounted piston, FC = 1500 mm Side-mounted piston, AC = 1500 mm			—

Design dimensions for side-opening doors and centre-opening doors (1 piston)

Persons	Rated Load	Doors Size			Car internal			Recommended Shaft Size			Headroom height	Pit depth
					Width	Depth	Height	Width	Depth			
		kg Q	Type	(mm) Clear opening	(mm) HPL	(mm) AC	(mm) FC	(mm) HC	(mm) AH	(mm) 1 entr. FH		
4	320	TT	700	2000	1000	875	2100	1275	1510	-	3400	1100
					875	1000		1325	1375	1560		
6	450	TT	800	2000	825	1100	2100	1275	1475	1660	3400	1150
					1000	875		1250	-			
6	450	CC	700	2000	875	1000	2100	1.525	1300	-	3400	1150
					825	1050		1350	1465			
8	630	TT	800	2000	900	1350	2100	1425	1725	1910	3400	1150
					925	1300		1425	1675	1860		
8	630	CC	800	2000	950	1250	2100	1.725	1625	1810	3400	1150
					975	1250		1425	1625	1810		
10	800	TT	900	2000	1000	1200	2100	1450	1575	1760	3400	1200
					1000	1250		1450	1625	1810		
10	800	CC	800	2000	1000	1200	2100	1.725	1650	1765	3400	1200
					1000	1250		1600	1715			
13	1000	TT	900	2000	925	1700	2100	1425	2075	2260	3400	1200
					950	1650		1425	2025	2210		
13	1000	CC	900	2000	975	1600	2100	1725	1975	2160	3400	1200
					1000	1550		1450	1925	2110		
16	1250	TT	1000	2000	1050	1450	2100	1925	1825	2010	3400	1200
					1100	1400		1550	1775	1960		
16	1250	CC	1000	2000	1100	1400	2100	1725	2000	2115	3400	1200
					1050	1800		1950	2065			
16	1250	TT	1000	2000	925	1700	2100	1925	1900	2015	3400	1200
					950	1650		1850	1965			
16	1250	CC	1000	2000	1050	1450	2100	1725	1750	1865	3400	1200
					1100	1400		1700	1815			
16	1250	TT	1000	2000	1000	1900	2100	1925	1850	1965	3400	1200
					1050	1800		1750	1865			
16	1250	CC	1000	2000	1100	1700	2100	1925	1750	1865	3400	1200
					1200	1575		1700	1815			
16	1250	TT	1000	2000	1000	1900	2100	1600	2275	2460	3400	1200
					1050	1800		1550	2175	2360		
16	1250	CC	1000	2000	1100	1700	2100	1725	2075	2260	3400	1200
					1200	1575		1700	2115			
16	1250	TT	1000	2000	1200	1575	2100	1925	1950	-	3400	1200
					1250	1800		2200	2315			
16	1250	CC	1000	2000	1050	1800	2100	1725	2100	2215	3400	1200
					1100	1700		2000	2115			
16	1250	TT	1000	2000	1200	1575	2100	1925	2200	2315	3400	1200
					1250	1800		2100	2215			
16	1250	CC	1000	2000	1100	2100	2100	1925	2100	2215	3400	1200
					1350	1700		2000	2115			
16	1250	TT	1000	2000	1400	1600	2100	1900	1900	-	3400	1200
					1100	2100		2400	2515			
16	1250	CC	1000	2000	1250	1800	2100	2.125	2100	2215	3400	1200
					1350	1700		2000	2115			
16	1250	TT	1000	2000	1400	1600	2100	1900	2500	2660	3400	1200
					1900	1400		1750	2675	2860		
16	1250	CC	1000	2000	1350	2100	2100	2100	2100	-	3400	1200
					1200	2300		1900	2275	2460		
16	1250	TT	1000	2000	1400	1900	2100	2100	2100	-	3400	1200
					1900	1400		2400	2515			
16	1250	CC	1000	2000	1350	2100	2100	2125	2600	2715	3400	1200
					1200	2300		2200	2315			
16	1250	TT	1000	2000	1900	1400	2100	2150	2050	-	3400	1200
					1900	1400		2150	2050			

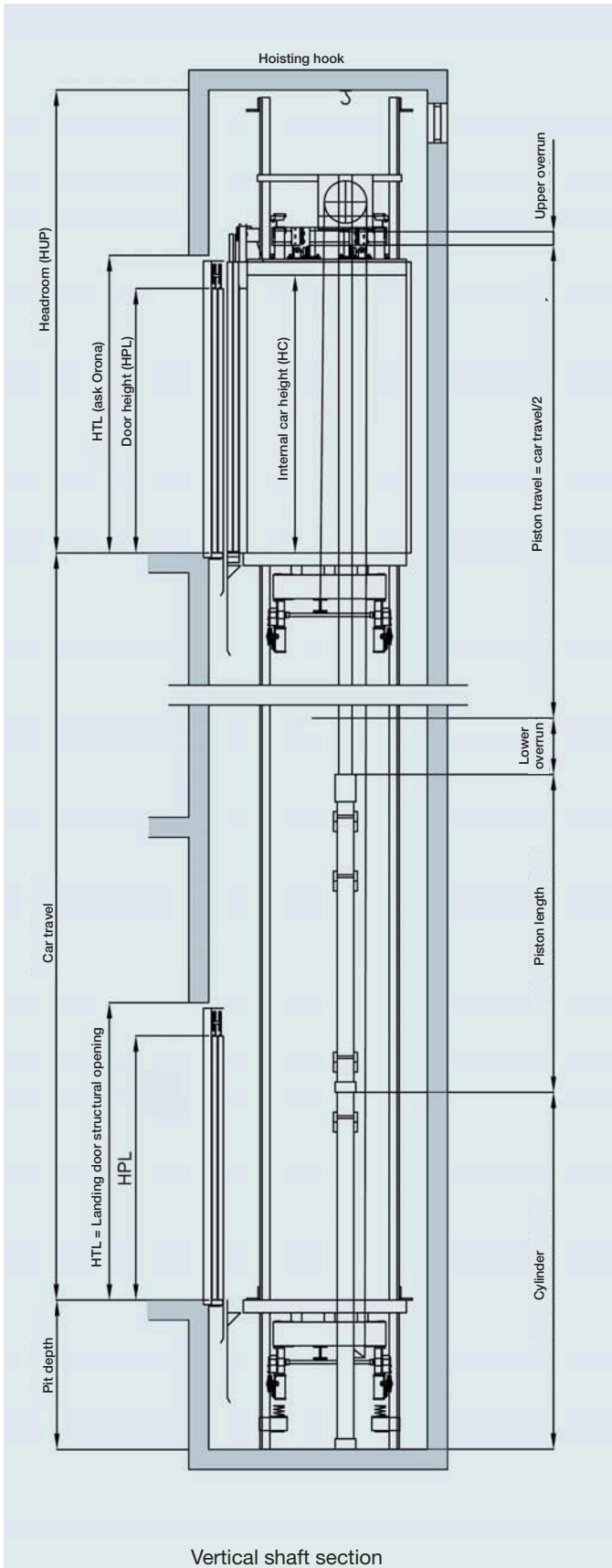
Note: DOORS RESTING
 · Landing doors resting completely inside the shaft.

Design dimensions for side-opening doors and centre-opening doors (2 pistons)

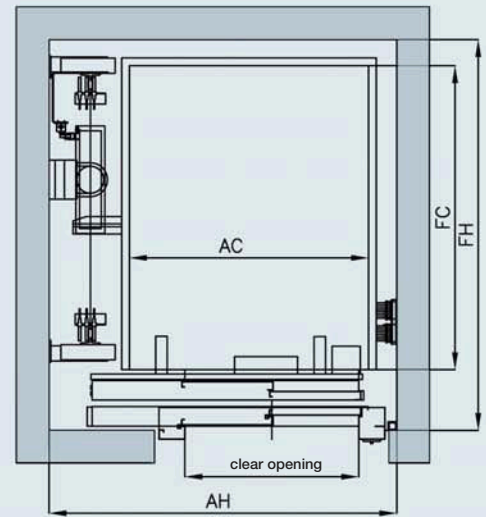
Persons	Rated Load	Doors Size			Car internal			Recommended Shaft Size			Headroom height	Pit depth
					Width	Depth	Height	Width	Depth			
		kg Q	Type	(mm) Clear opening	(mm) HPL	(mm) AC	(mm) FC	(mm) HC	(mm) AH	1 entr. (mm) FH		
21	1600	TT	1100	2100	1400	2400	2200	2300	2800	2960	3700	1200
		HH	1300									
24	1800	TT	1300	2100	1600	2400	2200	2500	2800	2960	3700	1200
		HH										
26	2000	TT	1300	2100	1500	2700	2200	2500	3100	3260	3700	1200
		HH						2400				
33	2500	TT	1300	2100	1800	2700	2200	2700	3100	3260	3700	1200
		HH										

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

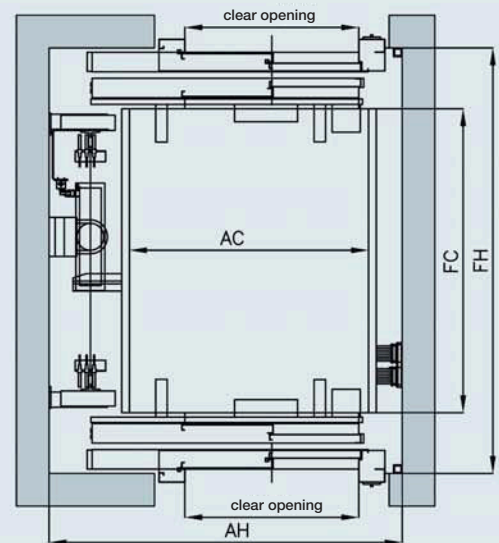
Shaft side view



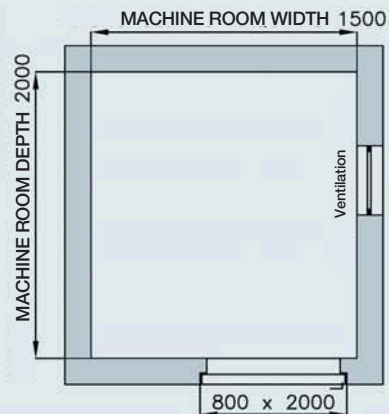
Plan view of shaft



Horizontal section, TT doors, 1 entrance



Horizontal section, TT doors, 2 entrances at 180°



Machine room