



MachineRoomLess (MRL) Planning Guide

Capacity		Speed	Car Internal Size	Door Size Center Opening	Optimal Shaft Size	Inverter Motor	Rated Current	Starting Current	Impact / Reaction Load					
Person	(Kg)	(m / min)	CW x CD (mm)	DW x DH (mm)	SW x SD (mm)	(KW)	(A)	(A)	R1 (Kg)	R2 (Kg)	R3 (Kg)	R4 (Kg)	R5 (Kg)	R6 (Kg)
P6	410	105	950 x 1200	800 x 2100	2000 x 1850	5.6	13.0	19.5	5500	6100	2000	3900	7600	6300
P8	545		1200 x 1200	800 x 2100	2100 x 1850	6.3	14.0	21.0	6000	6800	2200	4200	8200	6700
P9	615		1300 x 1200	800 x 2100	2150 x 1850	8.1	18.0	27.0	6400	7500	2300	4500	8800	7100
P10	685		1400 x 1250	800 x 2100	2200 x 1850	8.1	18.0	27.0	7000	8500	2500	5000	9500	7700
P11	750		1400 x 1350	800 x 2100	2200 x 1850	9.7	21.0	31.5	7600	9200	2800	5500	10200	8400
P13	885		1600 x 1350	900 x 2100	2400 x 1850	10.3	24.0	36.0	8200	10000	3100	6000	10600	8600
P15	1025		1600 x 1550	900 x 2100	2400 x 2050	11.7	25.0	37.5	9500	11900	3600	6900	11300	9100
			1200 x 2100	900 x 2100	2200 x 2500									
P17	1160		1600 x 1700	1000 x 2100	2700 x 2100	13.8	27.0	40.5	10600	12900	3900	7500	13600	11100
			1300 x 2100	1000 x 2100	2550 x 2500									
P20	1365		1800 x 1750	1000 x 2100	2900 x 2150	16.2	35.0	52.5	12500	14800	4400	8700	16700	13500
			1400 x 2250	1000 x 2100	2600 x 2650									
P24	1635		2000 x 1800	1100 x 2100	3100 x 2200	19.0	40.0	60.0	14600	16800	4900	9800	18500	15000
			1600 x 2250	1100 x 2100	2800 x 2650									
P27	1840		2000 x 2000	1100 x 2100	3100 x 2400	21.4	44.0	66.0	15500	18400	5200	10400	20700	16900
			1700 x 2350	1100 x 2100	2900 x 2750									
P29	1975	2100 x 2000	1100 x 2100	3200 x 2400	23.3	48.0	72.0	16200	19600	5700	11200	22300	18100	
		1800 x 2350	1100 x 2100	2950 x 2750										
P8	545	120	1200 x 1200	800 x 2100	2100 x 1850	7.2	15.0	22.5	6300	7100	2300	4400	8600	7000
P9	615		1300 x 1200	800 x 2100	2150 x 1850	9.2	21.0	31.5	6700	7800	2400	4700	9200	7400
P10	685		1400 x 1250	800 x 2100	2200 x 1850	9.2	21.0	31.5	7300	8900	2600	5200	9900	8100
P11	750		1400 x 1350	800 x 2100	2200 x 1850	11.0	24.0	36.0	8000	9600	3000	5800	10700	8800
P13	885		1600 x 1350	900 x 2100	2400 x 1850	11.8	28.0	42.0	8600	10400	3300	6300	11100	9000
P15	1025		1600 x 1550	900 x 2100	2400 x 2050	13.4	29.0	43.5	9900	12400	3800	7200	11800	9500
			1200 x 2100	900 x 2100	2200 x 2500									
P17	1160		1600 x 1700	1000 x 2100	2700 x 2100	15.8	32.0	48.0	11100	13500	4100	7800	14200	11600
			1300 x 2100	1000 x 2100	2550 x 2500									
P20	1365		1800 x 1750	1000 x 2100	2900 x 2150	18.5	47.5	71.3	13000	15400	4600	9100	17400	14100
			1400 x 2250	1000 x 2100	2600 x 2650									
P24	1635		2000 x 1800	1100 x 2100	3100 x 2200	21.7	49.0	73.5	15200	17500	5100	10200	19300	15600
			1600 x 2250	1100 x 2100	2800 x 2650									
P27	1840		2000 x 2000	1100 x 2100	3100 x 2400	24.5	52.0	78.0	16200	19200	5500	10900	21600	17600
			1700 x 2350	1100 x 2100	2900 x 2750									
P29	1975		2100 x 2000	1100 x 2100	3200 x 2400	26.6	56.0	84.0	16900	20400	6000	11700	23200	18900
		1800 x 2350	1100 x 2100	2950 x 2750										

Notes:

1. Shaft size is based on the application of two-hours fire rated door.
2. Shaft size is calculated based on hoistway verticality of within 70mm tolerance for hoistway height ≤ 50m.
3. Recommend shaft size to be increased by 50mm & 100mm for hoistway height ≤ 75m & ≤ 120m respectively.