

# Machine-room above electrical gearless solutions

With the latest direct drive (Gearless) technology. Designed for high-rise buildings. Great flexibility and high performance.

#### **GENERAL SPECIFICATIONS**

Load	450 to 1,000 kg
Capacity	6 to 13 persons
Speed	1.6 m/s
Maximum travel	120 m
Maximum floors served	64 floors
Entrances	1 front – <mark>2 open through</mark>
Drive system	Direct gearless
Controller	ARCA II controller, low energy microprocessor
Door types	Automatic side-opening - Automatic central-opening
Clear door opening	From 700 to 1,000 mm (at intervals of 100 mm)
Door height	2,000 - <mark>2,100 - 2,200 - 2,300 mm</mark>
Car dimensions	Parametric car dimensions
Internal car height	2,100 - <mark>2,200 - 2,300 - 2,400 mm</mark>
Aesthetic solutions	MBR1 - MBR2 - MBR3 - MBR4 - MBS1 - MBS2 - MBS3 - MB Plus
	Standard Optional

#### 1 Drive

Compact, quiet, gearless, energy efficient, speed regulated (VVVF) permanent magnet electric motor.

### 2 Machine room

A traditional solution simplifying lift maintenance.

### Robust lift car

Provides greater comfort during lift travel, with reduced vibration and noise.

#### Accessible space bellow the pit

(**II**h)

## Adapts the lift to suit buildings which have an accessible space below the pit (optional).

# 5 Doors

Compact permanent magnet motor for fast, accurate and quiet door operation giving the most advanced performance. Advanced door opening and and full height infra red door protection edges. Optional Solid Door for high flow situations.

# Parametric / Flexible



Flexible car and door configurations ensure available shaft dimensions can be optimised (optional).

### 7 Cars

Reinforced wall panels and flooring provides durability for heavy duty usage. Flexible configurations offering optimum car and door dimensions.

### JAutomatic rescue system

With floor level indication to ensure fast, efficient and safe evacuation of passengers in the event of an emergency. As an option, the system can incorporate a fully-automatic rescue device to evacuate passengers in the event of a power failure.



#### STANDARD DIMENSIONS

	. /			Com		Lift shaft *										
Load / Capacity			Car			Entrances		Side-oper	ning doors	Central-op	ening doors					
Speed	Persons	<b>Q</b> Load	AC Width	FC Depth	<b>PL</b> Clear opening	Accessibility	No. of entrances	<b>AH</b> <sup>1</sup> Width	<b>FH²</b> Depth	<b>AH</b> Width	<b>FH</b> <sup>3</sup> Depth	HF <sup>4</sup> Pit	HUP <sup>5</sup> Last Floor			
	,	450 kg	1 0 0 0	1 050	000		1	1,500	1,800	1,750	1,750					
	6		1,000	1,250	800	(G	2 x 180°	1,600	1,700	1,750	1,600	1,200				
	8	630 kg	1,100	1,400	800		1	1,500	1,950	1,750	1,900		3,550			
							2 x 180°	1,700	1,850	1,750	1,750					
1.6 m/s	10	800 ka	1,350	1,400	800		1	1,750	1,950	1,750	1,900					
		000 KY			000		2 x 180°	2,000	1,850	2,000	1,750					
	13		1,600	1.400	900	(je)	1	2,000	1,950	2,000	1,900	1.250	3,600			
		1,000 kg		1,400	700		2 x 180°	2,250	1,850	2,250	1,750	1,200	3,000			
	13			2 100	000		1	1,700	2,650	1,950	2,600					
			1,100	2,100	900		2 x 180°	1,750	2,550	1,950	2,450					

1. Accessible space below the pit (counterweight with safety gear) add 30 mm to AH.

2. Shaft depth with door tracks projecting 60 mm on the landing.

3. Shaft depth with door tracks projecting 40 mm on the landing.

4. For longer travels to 75 m, HF = 1,300 mm

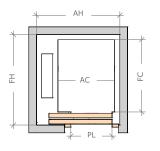
5. HUP minimum for internal car height (HC) 2,100 mm (HUP = HC + 1,350).

Analyse for each example. If side counterweight Q > 630 kg, HUP min = 3,800 mm.

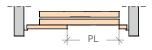
\* Minimum plumb measurements.

## LAYOUT

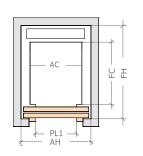
1 Entrance side counterweight



Wide-framed door detail

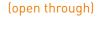




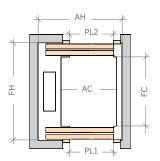


Wide-framed door detail

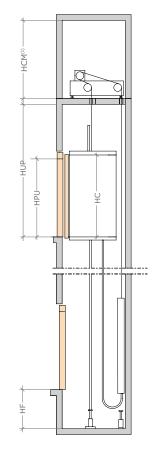




2 Entrances



#### Vertical section



#### (1) HCM - minimum 2,000 mm

# **CUSTOMISED CAR DIMENSIONS**

								13	12	11	10	1,600								
							13	13	11	10	9	1,500								
						13	13	12	11	10	8	1,400								
				13	13	12	11	10	9	8	8	1,300								
			13	12	12	11	10	9	9	8	6	1,200								
1	13	13	12	11	11	10	9	8	8	7		1,100								
1	12	12	11	10	10	9	8	7	7	6		1,000								
1	11	10	10	9	8	8	7	7	6			900								
2,	100	2,000	1,900	1,800	1,700	1,600	1,500	1,400	1,300	1,200	1,100	AC	800	900	1,000	1,100	1,200	1,300	1,400	1,500

Note: Car width and depth variable in increments of 5 mm.. For simplification, table samples show increments of 100 mm.