

MB-15

Machine-room-less electrical gearless solutions (MRLG)

High efficiency for residential and public buildings. Optimum use of space and latest direct drive (Gearless) technology. The customised solution. Maximum flexibility and performance.

GENERAL SPECIFICATIONS

Load	320 to 1,000 kg
Capacity	4 to 13 persons
Speed	1 - 1.6 m/s
Maximum travel	50 - 60 m
Maximum floors served	16 - 21 floors
Entrances	1 front - 2 open through
Drive system	Direct gearless
Controller	ARCA II controller, low energy microprocessor
Door types	Automatic side-opening - Automatic central-opening
Clear door opening	From 600 to 1,500 mm (in 100 mm increments)
Door height	2,000 mm - 2,100 - 2,200 - 2,300 mm
Car dimensions	Parametric car dimensions
Internal car height	2,100 mm - 2,200 - 2,300 - 2,400 mm
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. Doors** 🏠 🏢 ✓

Compact permanent magnet motor for quick, accurate and quiet door operation giving the most advanced performance. Advanced door opening and full height infra red door protection edges. Optional Solid Door for high flow situations.
- 3. Parametric / Flexible** 🏠 🏢

Flexible car and door configurations ensure available shaft dimensions can be optimised (optional).
- 4. Accessible space below the pit** 🏠 ✓

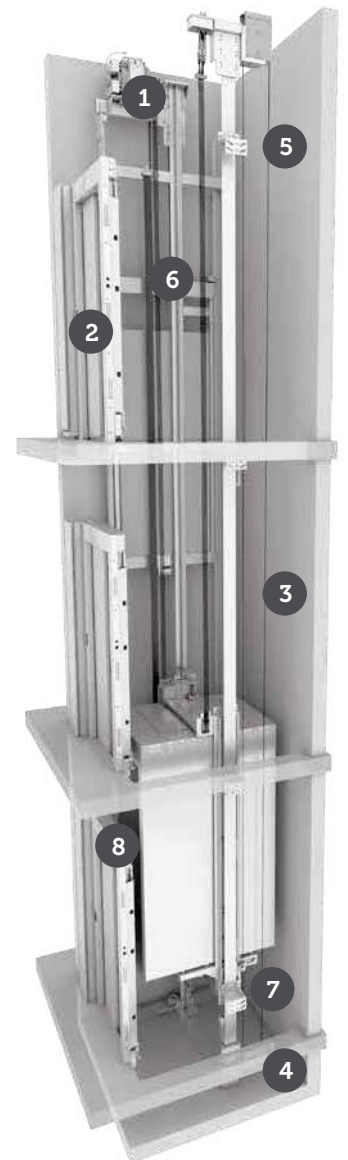
Adapts the lift to suit buildings which have an accessible space below the pit (optional).
- 5. Reduced headroom** 🏠 ✓

Optional feature to allow the reduction of the shaft headroom when required, whilst maintaining the maximum safety and protection for maintenance staff.
- 6. Traction ropes** 🏠 🏢

Orona small diameter ropes replace traditional steel ropes. As a result of their lighter weight, longer lifespan and greater flexibility, it is possible to use a more compact, efficient and eco-friendly gearless machine.
- 7. Shaft usability** 🏠 🏢

Lifts designed especially to use all the shaft space available, obtaining a good relation between the space available and the number of passengers to be transported.
- 8. Automatic 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

Speed	Load/Capacity		Car			Lift shaft *												
	Persons	Q Load	AC Width	FC Depth	PL Clear opening	Entrances		Side-opening doors		central-opening doors			HF Pit	HUP Last Floor				
						No. of entrances	Accessibility	AH ¹ Width	FH ² Depth	AH Width	FH ³ Depth							
1 m/s	4	320 kg	825	1,100	700		1 2 x 180°	1,300	1,350 1,500			1,000 (830) ⁴	3,400 (3,050) ⁵					
	6	450 kg	1,000	1,250	800	♿	1 2 x 180°	1,450	1,500 1,650	1,725	1,450 1,550							
	8	630 kg	1,100	1,400	900	♿	1 2 x 180°	1,600	1,675 1,850	1,925	1,625 1,750							
	10	800 kg	1,350	1,400	900		1 2 x 180°	1,825	1,675 1,850	1,925	1,625 1,750							
	13	1,000 kg	1,600	1,400	1,000	♿	1 2 x 180°	2,075	1,675 1,850	2,150	1,625 1,750							
			1,100	2,100	1,000		1 2 x 180°	1,775	2,375 2,550	2,125	2,300 2,400							
		4	320 kg	825	1,100	700	♿	1 2 x 180°	1,325	1,350 1,500							1,120	3,550
	1.6 m/s	8	630 kg	1,100	1,400	900	♿	1 2 x 180°	1,625	1,675 1,850	1,925			1,625 1,750	1,120	3,550		
		10	800 kg	1,350	1,400	900		1 2 x 180°	1,850	1,675 1,850	1,925			1,625 1,750				
13		1,000 kg	1,600	1,400	1,000	♿	1 2 x 180°	2,100	1,675 1,850	2,175	1,625 1,750							
			1,100	2,100	1,000		1 2 x 180°	1,775	2,375 2,550	2,125	2,300 2,400							

1. Accessible space below the pit (counterweight with safety gear) add 115 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.

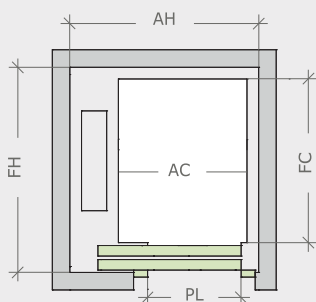
4. HF reduced pit optional 830 mm.

5. HUP reduced headroom optional. Consult availability of car dimensions.

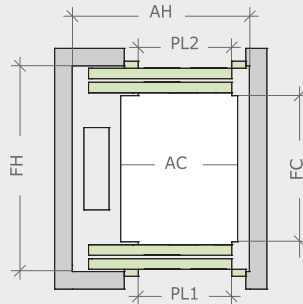
* Minimum plumb measurements.

LAYOUT

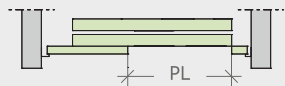
1 Entrance



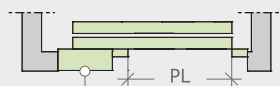
2 Entrances (open through)



Wide-framed door detail

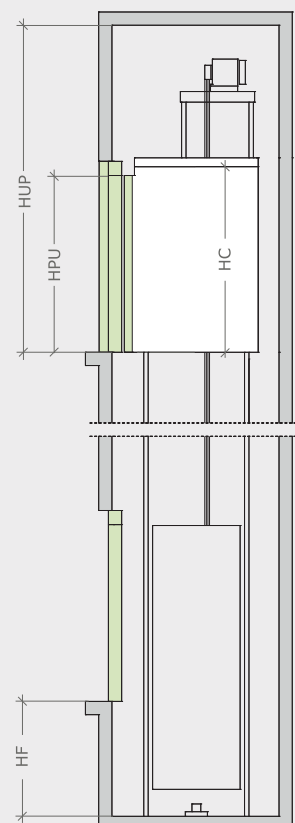


Controller Detail



Controller at the top floor:
277 x 152 mm
Flexible location optional

Vertical section



CUSTOMISED CAR DIMENSIONS

								13	12			1,600												
								13	11			1,500												
								13	10			1,400												
								13	9			1,300												
		13	13	12	11	10	9	8			6	1,200												
13	13	12	11	10	9	8	8	7	6	5		1,100												
12	12	11	10	9	8	7	7	6	5	5		1,000												
11	10	10	9	8	8	7	7	6	5	4		900												
								6	5	4		800												
FC	2,100	2,000	1,900	1,800	1,700	1,600	1,500	1,400	1,300	1,200	1,100	1,000	AC	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	PL

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