# Machine-room above electrical gearless solutions

# gearless solutions

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)							

MBR1 - MBR2 - MBR3 - MBR4 - MBS1 - MBS2 - MBS3 - MB Plus

Standard Optional



Door height

Car dimensions

Internal car height

Aesthetic solutions

A traditional solution simplifying lift maintenance.











Compact permanent magnet motor for quick, accurate and quiet door operation giving the most advanced performance. Advanced door opening and/or photoelectric curtain. Optional Solid Door for high flow situations.

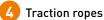
2,000 - 2,100 - 2,200 - 2,300 mm

2,100 - 2,200 - 2,300 - 2,400 mm

Parametric car dimensions



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



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.





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

Parametric / Flexible





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

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.











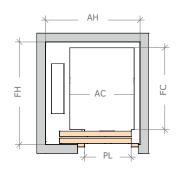
## STANDARD DIMENSIONS

1	L / O			Con		Lift shaft *											
Load	acity	Car			Entran	ces	Side-oper	ning doors	Central-op	ening doors							
Speed	Persons	<b>Q</b> Load	AC Width	FC Depth	PL Clear opening	Accessibility	No. of entrances	AH <sup>1</sup> Width	FH <sup>2</sup> Depth	<b>AH</b> Width	FH <sup>3</sup> Depth	<b>HF</b> Pit	HUP Last Floor				
	4	320 kg	825	1,100	700	į.	0	1 2x180°	1,300	1,350 1,500							
1 m/s	6	450 kg	1,000	1,250	800		1 2x180°	1,450	1,500 1,650	1,725	1,450 1,550		3,400 (3,050) <sup>5</sup>				
	8	630 kg	1,100	1,400	900		1 2x180°	1,600	1,675 1,850	1,925	1,625 1,750	1,000 (830) <sup>4</sup>					
	10	800 kg	1,350	1,400	900		1 2x180°	1,825	1,675 1,850	1,925	1,625 1,750						
	13	1,000 kg	1,600	1,400	1,000	(j.j.)	2x180°	2,075	1,675 1,850	2,150	1,625 1,750						
			1,100	2,100	1,000			2x180°	1,775	2,375 2,550	2,125	2,300 2,400	-				
	4	320 kg	825	1,100	700		2x180°	1,325	1,350 1,500								
	6	450 kg	1,000	1,250	800	Ŀ	2x180°	1,475	1,,500 1,650	1,725 1,925 1,925	1,450 1,550						
1.6 m/s	8	630 kg	1,100	1,400	900		2x180°	1,625	1,675 1,850		1,625 1,750	1,120	3,550				
	10	800 kg	1,350	1,400	900	(j.j.)	2x180°	1,850	1,675 1,850		1,625 1,750						
	10	1 000 1	1,600	1,400	1,000		2x180°	2,100	1,675 1,850	2,175	1,625 1,750						
	13	1,000 kg	1,100	2,100	1,000	1 2x180°	1,775	2,375 2,550	2,125	2,300 2,400							

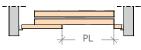
- 1. Accessible space below the pit (counterweight with safety gear) add 115 mm to AH.
- 2. Shaft depth with door tracks projecting 60 mm on the landing.
- 3. Shaft depth with door tracks projecting 40 mm on the landing.
- 4. HF reduced pit optional 830 mm.
- 5. HUP reduced headroom optional. Consult availability of car dimensions.
- \* Minimum plumb measurements.

## **LAYOUT**

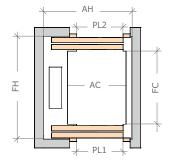
#### 1 Entrance



Wide-framed door detail



# 2 Entrances (open through)

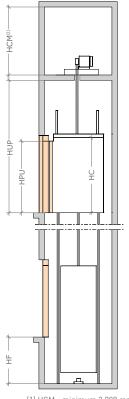


# **CUSTOMISED CAR DIMENSIONS**

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

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

#### Vertical section



(1) HCM - minimum 2,000 mm