# Orona 3G

# Machine-room-less electrical gearless solutions (MRLG)

Latest direct drive technology for existing buildings with single- phase option. The machine-room-less solution that provides up to 50% increase in the car size.

### General specifications

•								
Load	180 to 630 kg / 180 to 450 kg (single-phase)							
Capacity	2 to 8 persons / 2 to 6 persons (single-phase)							
Speed	1 m/s / 0.6 m/s (single-phase)							
Maximum travel	45 m							
Maximum floors served	16 floors							
Entrances	1 front / 2 open through / 2 front & side							
Drive system	Direct gearless							
Controller	ARCA II $/$ III controller, low energy consumption multiprocessor							
Door types	Automatic side-opening / Automatic central-opening / Semiautomatic + Articulated (BUS)							
Clear door opening	From 500 to 900 mm							
Door height	2,000 / 2,100 / 2,200 mm							
Car dimensions	Parametric car dimensions							
Internal car height	2,000 / 2,100 / 2,200 mm							
Supply	Three-phase / Single-phase							
Aesthetic solutions	Orona 3G Domo Packs / Orona 3G Public Packs / Orona 3G Plus							

Standard Optional



Compact machine-room-less solution.



#### OPTIMISED PASSENGER UNIT

Saves space, reduces weight, improves safety, and improves the installation process.



### ACCESIBLE SPACE **BELLOW THE PIT**

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





#### 4 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.





### 5 DRIVE

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



### 6 DOORS

Compact permanent magnet motor for fast, 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.



#### **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.



### 8 SHAFT USABILITY

Lifts designed especially to use all the shaft space available especially in existing buildings, obtaining a good relation between the space available and the number of passengers to be transported.















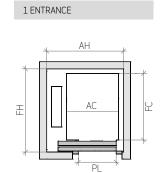


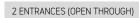
### Standard dimensions\*

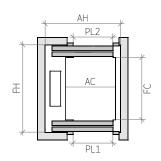
					Lift shaft <sup>0</sup>											
Load / capacity			Car				Side coun	terweight	Rear cour	HF Pit			HUP Headroom			
							Side-opening doors		Central-opening doors			Reduced				
ii i	DI 5		PL <sup>5</sup>	Ent	crances	$AH^1$	FH <sup>2</sup>	AH <sup>3</sup>	FH <sup>2</sup>	Std.	With	Without	Std. <sup>4</sup>			
Persons	Load	Width	Depth	Clear opening	Accessibility	No. of entrances	Width	Depth	Width	Depth		space	space (EN 81-21)	210.		
		825				1	1 150	1,300	1,150	1,525	1,000	890	400	3,400		
4	320 kg		1,100	700		2x180 <sup>0</sup>	1,150	1,450								
						2x90 <sup>0</sup>	1,250	1,300	1,200	1,525						
		1,000	1,250	800	Ė	1	1,325	1,450	1,300	1,675						
6	450 kg					2x180 <sup>0</sup>		1,600								
						2x90 <sup>0</sup>	1,425	1,450	1,400	1,675						
	630 kg -	1,100			İŁ	1	1,425	1,600	1,450	1,825						
8			1,400	900		2x180 <sup>0</sup>	1,420	1,750								
						2x90 <sup>0</sup>	1,525	1,600	1,500	1,825						
					Ŀ	1	1,525	1,450	1,450	1,675						
		1,200	1,250	900		2x180 <sup>0</sup>	1,323	1,600								
						2x90 <sup>0</sup>	1,625	1,450	1,500	1,675						

- 0 Minimum plumb measurements
- $1\,$  Accessible space below the pit (counterweight with safety gear) or reduced pit without safety space add 40 mm to AH  $\,$  AH calculated for NN 3 panel telescopic door
- 2 Shaft depth with door tracks projecting as a whole on the landing
- 3 Width calculated for 4 panel central door
- 4 HUP minimum for internal car height (HC) 2,100 mm
- 5 Door restrictions may exist for pits without safety space EN 81-21
- \* The information is not contractually binding and is subject to the conditions of the shaft

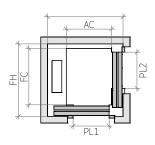
## Layout



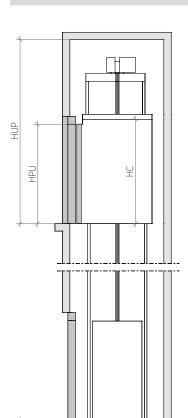




### 2 ENTRANCES (FRONT & SIDE)



#### VERTICAL SECTION



## Customised car dimensions

			Car width																	
						8	8	8	7	7	6				1,400					
					8	8	8	7	7	6	6	5			1,350					
				8	8	8	7	7	6	6	6	5			1,300					
			8	8	8	7	7	7	6	6	5	5			1,250					
		8	8	8	7	7	7	6	6	5	5	5			1,200					
	8	8	8	7	7	7	6	6	5	5	5	5	4		1,150					
- 8	8	8	7	7	7	6	6	5	5	5	5	4	4		1,100					
8	8	7	7	7	6	6	5	5	5	5	4	4	4	3	1,050					
8	7	7	6	6	6	5	5	5	5	4	4	4	4	3	1,000					
7	7	6	6	6	5	5	5	5	4	4	4	4	3	3	950					
6	6	6	6	5	5	5	5	4	4	4	4	3	3	3	900					
6	6	5	5	5	5	5	4	4	4	4	3	3	3	3	850					
5	5	5	5	5	5	4	4	4	4	3	3	3	3	3	800					
5	5	5	5	4	4	4	4	3	3	3	3	3	3	2	750					
5	5	4	4	4	4	4	3	3	3	3	3	2	2	2	700					
4	4	4	4	4	3	3	3	3	3	3	2	2	2	2	650					
4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	630					
1,450	1,400	1,350	1,300	1,250	1,200	1,150	1,100	1,050	1,000	950	900	850	800	750		500	600	700	800	900
Car de	Car depth Clear door opening													pening						

Note: Car width and depth variable in increments of 5 mm. For simplification, table samples show increments of 50 mm.