

Orona 3G 2015

Machine-room-less electrical gearless solutions (MRLG)

High efficiency for public buildings.
Enhanced durability, comfort, and reliability.
The customised solution.
Enhanced flexibility and performance.

General specifications

Load	320 to 1,000 kg
Capacity	4 to 13 persons
Speed	1 - 1.6 m/s
Maximum travel	60 m
Maximum floors served	16 - 21 floors
Entrances	1 front / 2 open through
Drive system	Regulated gearless
Controller	ARCA III controller, low energy consumption multiprocessor
Door types	Automatic side-opening / Automatic central-opening
Clear door opening	From 800 to 1,500 mm (in 100 mm increments)
Door height	2,000 / 2,100 / 2,200 / 2,300 mm
Car dimensions	Parametric car dimensions
Internal car height	2,100 / 2,200 / 2,300 / 2,400 mm
Aesthetic solutions	Public Packs Reference / Public Packs Selection / Orona 3G Public Plus

Standard Optional



1 DRIVE

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



2 SOLID DOORS

Extra robust doors with reduced sound levels inside and outside the lift and which are specially constructed for high volume passenger traffic.



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 enhanced 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.



9 TWO-WAY COMMUNICATIONS

Between the lift and the emergency 24-hour Service Call Centre according to EN 81-28.



ECO-EFFICIENCY



ADAPTABILITY



DESIGN AND ACCESSIBILITY



CONTROL AND SAFETY

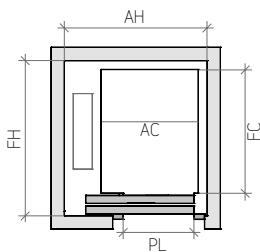
Standard dimensions*

Load/Capacity			Car			Lift shaft ⁰																	
Speed	Persons	Q Load	AC Width	FC Depth	PL Clear opening	Entrances		Side-opening doors		Central-opening doors		HF Pit	HUP ⁵ Headroom										
						Accessibility	No. of entrances	AH ¹ Width	FH ² Depth	AH Width	FH ³ Depth												
1 m/s	4	320 kg	825	1,100	700			1	1,350														
								2 x 180 ⁰	1,500														
	6	450 kg	1,000	1,250	600		♿		1	1,500	1,725	1,450											
									2 x 180 ⁰	1,650													
	8	630 kg	1,100	1,400	900				1	1,675	1,925	1,625											
									2 x 180 ⁰	1,850													
	10	800 kg	1,350	1,400	900		♿		1	1,675	1,925	1,625	1,000 (830) ⁴	3,400 (3,050) ⁶									
										2 x 180 ⁰					1,850								
									13	1,000 kg	1,600	1,400			1,000	♿		1	1,675	2,150	1,625		
											1,100	2,100			1,000				1,850				
1.6 m/s	4	320 kg	825	1,100	700				1,350														
									2 x 180 ⁰					1,500									
	6	450 kg	1,000	1,250	800		♿		1	1,500	1,725	1,450											
									2 x 180 ⁰	1,650													
	8	630 kg	1,100	1,400	900				1	1,675	1,925	1,625											
									2 x 180 ⁰	1,850													
	10	800 kg	1,350	1,400	900		♿		1	1,675	1,925	1,625	1,120	3,550									
										2 x 180 ⁰					1,850								
									13	1,000 kg	1,600	1,400			1,000	♿		1	1,675	2,175	1,625		
											1,100	2,100			1,000				1,850				
13	1,000 kg	1,350	1,400	900		♿		1	2,375	2,125	2,300												
									2 x 180 ⁰					2,550									
								1	2,375	2,125	2,400												

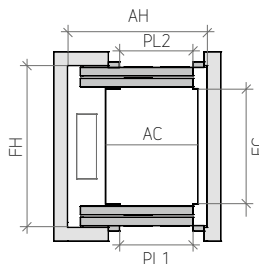
- 0 Minimum plumb measurements
 - 1 Accessible space below the pit (counterweight with safety gear) add 115 mm to AH
 - 2 Shaft depth with door tracks projecting 60 mm on the landing
 - 3 Shaft depth with door tracks projecting 40 mm on the landing
 - 4 HF reduced pit optional 830 mm
 - 5 Minimum HUP for interior car height (HC) of 2,100 mm (HUP=HC+1300)
 - 6 HUP optional reduced (HUP=HC+900). Consult availability of car dimensions.
- *The information is not contractually binding and is subject to the conditions of the shaft.

Layout*

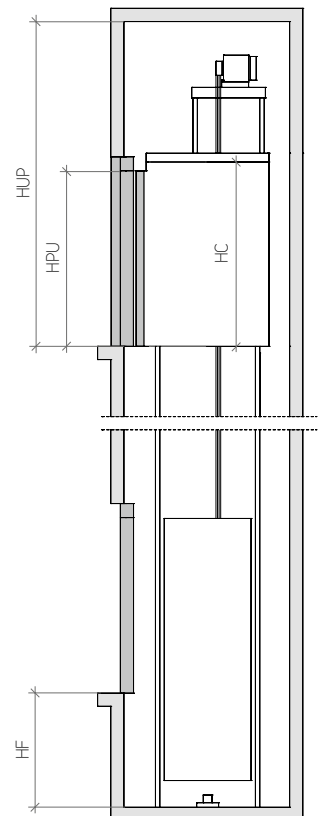
1 ENTRANCE



2 ENTRANCES (OPEN THROUGH)



VERTICAL SECTION



* Note: The diagrams are for guidance only

Customised car dimensions

						Car width																	
						13	12	1,600															
						13	13	1,500															
						13	13	1,400															
						13	12	1,300															
						13	12	1,200															
						13	13	1,100															
						12	12	1,000															
						11	10	900															
						2,100	2,000	1,900	1,800	1,700	1,600	1,500	1,400	1,300	1,200	800	900	1,000	1,100	1,200	1,300	1,400	1,500
						Car depth						Clear door opening											

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