

Orona 3G Technical solutions

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Orona 3G X-14

Solution that provides up to 50% increase in the car size in existing buildings.

Machine-room-less electrical gearless solution (MRLG).

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	40 m / 25 m (single-phase)									
Maximum floors served	16 floors									
Entrances	1 front / 2 open through / 2 front & side									
Drive system	Regulated gearless (180 connections / hour)									
Controller	ARCA 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	2,100 / 2,200 / 2,300 mm									
Supply	Three-phase / Single-phase									
Aesthetic solutions	Orona 3G Domo Packs / Orona 3G Public Packs / Orona 3G Plus									
Standard Optional										

1 MRL Compact machine-room-less solution.



5 DRIVE

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

2 OPTIMISED PASSENGER UNIT

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

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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.

ECO-EFFICIENCY

3 ACCESIBLE SPACE BELOW THE PIT

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

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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 fullyautomatic rescue device to evacuate passengers in the event of a power failure.



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.

8 SHAFT USABILITY

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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.



Customised solution, examples of dimensions*

					Lift shaft ^o											
Load / capacity			Car				Side coun	terweight	Rear coun	HF Pit			HUP			
							TT side-ope	ening doors	CC central-o		Reduced		Headroom			
ii i	0	D AC FC ^{PL⁵}		PL⁵	Entrances		AH1	FH ²	AH ³	FH ²	Std.	With safety	Without safety	C1 14		
Persons	· ·		Depth	Clear opening	Accessibility	No. of entrances	Width	Depth	Width	Depth		space	space ^{'5} (EN 81-21)	510.		
			1,100	700		1	1 150	1,300	1,150	1,525	1,000	890	400			
4	320 kg	825				2x180 ⁰	1,150	1,450								
						2x90 ⁰	1,250	1,300	1,200	1,525						
		1,000	1,250	800	Ŀ	1	1,325	1,450	1,300	1,675						
6	450 kg					2x180 ⁰		1,600								
						2x90 ⁰	1,425	1,450	1,400	1,675				3,400		
				900	İŁ	1	1,425	1,600	1,450	1,825				3,400		
8 630		1,100	1,400			2x180 ⁰	1,420	1,750								
	630 kg					2x90 ⁰	1,525	1,600	1,500	1,825						
	030 kg				Ŀ	1	1,525	1,450	1,450	1,675						
		1,200	1,250	900		2x180 ⁰		1,600								
						2x90 ⁰	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 HH 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

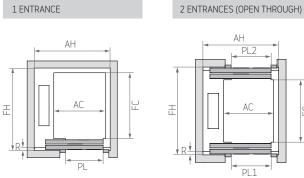
TT - 2 panel telescopic door

NN - 3 panel telescopic door

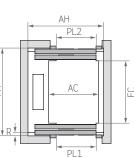
CC - 2 panel central door

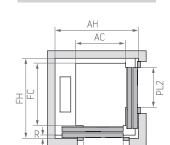
HH - 4 panel central door





* Note: The diagrams are for guidance only.

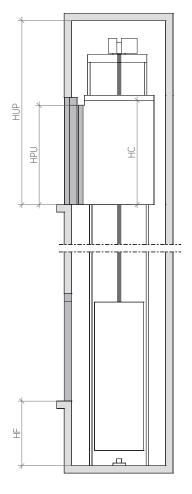




PL1

2 ENTRANCES (FRONT & SIDE)





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 depth Clear door opening												pening								

Note: Dimensions considering 1 entrance. Car width and depth variable in increments of 5 mm. For simplification, table samples show increments of 50 mm.