

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.



2 OPTIMISED PASSENGER UNIT

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



3 ACCESSIBLE SPACE BELOW 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.



7 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.



Customised solution, examples of dimensions*

Load / capacity		Car			Lift shaft ⁰									
							Side counterweight		Rear counterweight		HF Pit			HUP Headroom
							TT side-opening doors		CC central-opening doors		Std.	Reduced		
	Q Load	AC Width	FC Depth	PL ⁵ Clear opening	Entrances		AH ¹ Width	FH ² Depth	AH ³ Width	FH ² Depth		1,000	890	400
Persons					Accessibility	No. of entrances								
4	320 kg	825	1,100	700		1	1,150	1,300	1,150	1,525				
						2x180 ⁰		1,450						
						2x90 ⁰		1,250		1,300	1,200			
6	450 kg	1,000	1,250	800		1	1,325	1,450	1,300	1,675				
						2x180 ⁰		1,600						
						2x90 ⁰		1,425		1,450	1,400			
8	630 kg	1,100	1,400	900		1	1,425	1,600	1,450	1,825				
						2x180 ⁰		1,750						
						2x90 ⁰		1,525		1,600	1,500			
		1,200	1,250	900		1	1,525	1,450	1,450	1,675				
						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

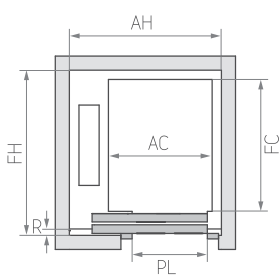
NN - 3 panel telescopic door

CC - 2 panel central door

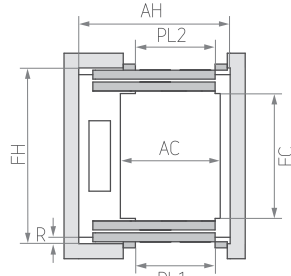
HH - 4 panel central door

Layout*

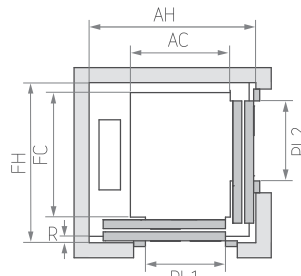
1 ENTRANCE



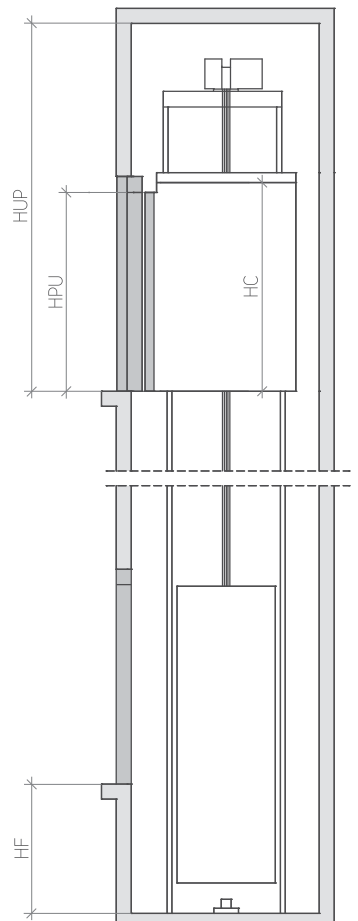
2 ENTRANCES (OPEN THROUGH)



2 ENTRANCES (FRONT & SIDE)



VERTICAL SECTION



* Note: The diagrams are for guidance only.

Customised car dimensions

															Car width									
						8	8	8	8	7	7	6	5			1,400								
						8	8	8	8	7	7	6	6	5		1,350								
						8	8	8	8	7	7	6	6	5		1,300								
						8	8	8	8	7	7	6	6	5	5	1,250								
						8	8	8	8	7	7	6	6	5	5	1,200								
						8	8	8	8	7	7	6	6	5	5	1,150								
						8	8	8	8	7	7	6	6	5	5	1,100								
8	8	8	8	7	7	7	6	6	5	5	5	5	5	4	4	1,050								
8	8	7	7	7	7	6	6	5	5	5	5	5	4	4	4	1,000								
8	7	7	6	6	6	6	5	5	5	5	4	4	4	4	3	950								
7	7	6	6	6	6	5	5	5	5	4	4	4	4	3	3	900								
6	6	6	6	6	5	5	5	5	4	4	4	4	4	3	3	850								
6	6	5	5	5	5	5	4	4	4	4	3	3	3	3	3	800								
5	5	5	5	5	5	5	4	4	4	4	3	3	3	3	2	750								
5	5	5	5	4	4	4	4	4	3	3	3	3	3	2	2	700								
5	5	4	4	4	4	4	4	3	3	3	3	3	2	2	2	650								
4	4	4	4	4	4	3	3	3	3	3	3	2	2	2	2	600								
4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	550								
4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	500								
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

Note: Dimensions considering 1 entrance. Car width and depth variable in increments of 5 mm.

For simplification, table samples show increments of 50 mm.