



Orona

Orona 3G

Technical solutions





Orona 3G

X-15

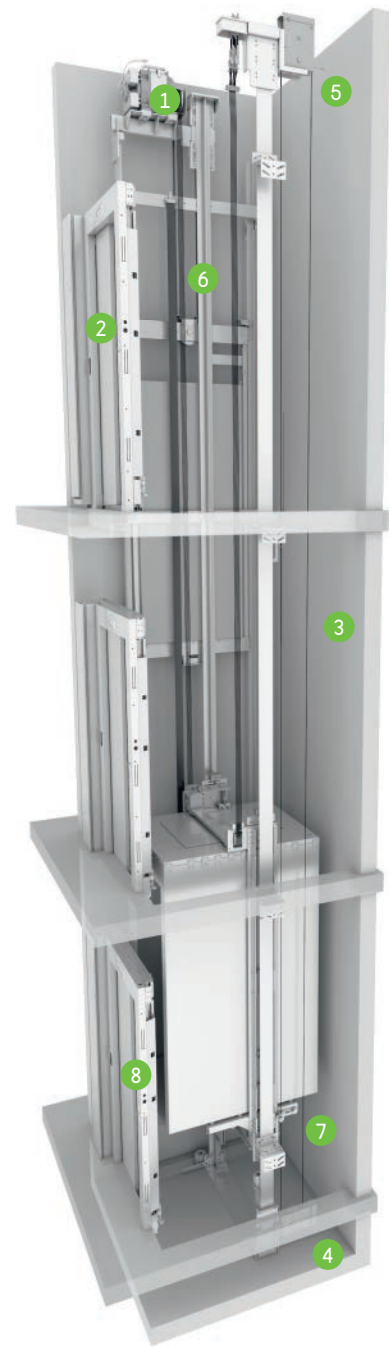
Customised solution for residential and public buildings with high traffic

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

General specifications

Load	450 to 1,000 kg
Capacity	6 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	Regulated gearless (240 connections / hour)
Controller	ARCA III controller, low energy consumption multiprocessor
Door types	Automatic side-opening / Automatic central-opening
Clear door opening	From 600 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	Orona 3G Domo Packs / Orona 3G Public Packs / Orona 3G Plus

Standard Optional



1 DRIVE

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



2 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.



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.



Customised solution, examples of dimensions*

Load / capacity		Car				Lift shaft ⁰							
Speed	Persons	Q Load	AC Width	FC Depth	PL Clear opening	Entrances		TT side-opening doors		CC 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	1,300	1,350			1,000 (830) ⁴	3,400
							2x180 ⁰	1,500					
	6	450 kg	1,000	1,250	800	♿	1	1,450	1,500	1,725	1,450		
							2x180 ⁰	1,650			1,550		
	8	630 kg	1,100	1,400	900		1	1,600	1,675	1,925	1,625		
						2x180 ⁰	1,850			1,750			
	10	800 kg	1,350	1,400	900	♿	1	1,825	1,675	1,925	1,625	3,400 (3,050) ⁶	
							2x180 ⁰	1,850			1,750		
	13	1,000 kg	1,600	1,400	1,000		1	2,075	1,675	2,150	1,625		
							2x180 ⁰	1,850			1,750		
			1,100	2,100	1,000		1	1,775	2,375	2,125	2,300		
							2x180 ⁰	2,550			2,400		
1.6 m/s	4	320 kg	825	1,100	700		1	1,325	1,350			1,120	3,550
							2x180 ⁰	1,500					
	6	450 kg	1,000	1,250	800	♿	1	1,475	1,500	1,725	1,450		
							2x180 ⁰	1,650			1,550		
	8	630 kg	1,100	1,400	900		1	1,625	1,675	1,925	1,625		
						2x180 ⁰	1,850			1,750			
	10	800 kg	1,350	1,400	900	♿	1	1,850	1,675	1,925	1,625	3,550	
							2x180 ⁰	1,850			1,750		
	13	1,000 kg	1,600	1,400	1,000		1	2,100	1,675	2,175	1,625		
							2x180 ⁰	1,850			1,750		
			1,100	2,100	1,000		1	1,775	2,375	2,125	2,300		
							2x180 ⁰	2,550			2,400		

0 Minimum plumb measurements

- 1 Accessible space below the pit (counterweight with safety gear) add 115 mm to AH
- 2 R=60 mm, shaft depth with TT 2 panel telescopic door tracks projecting 60 mm on the landing
- 3 R=40 mm, shaft depth with CC 2 panel central door tracks projecting 40 mm on the landing
- 4 HF reduced pit optional 830 mm

5 HUP minimum for internal car height (HC) 2,100 mm

6 HUP reduced headroom optional (HUP=HC+900). Consult availability of car dimensions

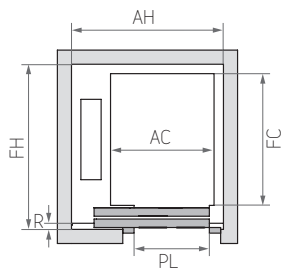
* The information is not contractually binding and is subject to the conditions of the shaft

TT - 2 panel telescopic door

CC - 2 panel central door

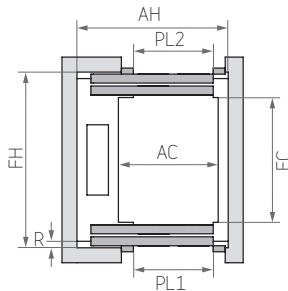
Layout*

1 ENTRANCE

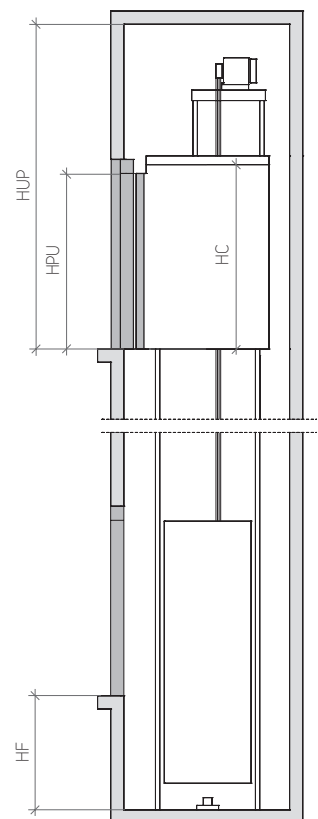


* Note: The diagrams are for guidance only.

2 ENTRANCES (OPEN THROUGH)



VERTICAL SECTION



Customised car dimensions

		Car width										Clear door opening												
							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	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											
														600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	

Note: Dimensions considering 1 entrance. Car width and depth variable in increments of 5 mm. For simplification, table samples show increments of 100 mm.