

Orona 3G X-27

Solution for high-rise buildings

Machine-room above electrical gearless solution.

General specifications

Load	450 to 1,000 kg / 630 to 1,600 kg (2 and 2.5 m/s)
Capacity	6 to 13 persons / 8 to 21 persons (2 and 2.5 m/s)
Speed	1.6 / 2 - 2.5 m/s
Maximum travel	120 m / 130 m (2 and 2.5 m/s)
Maximum floors served	64 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 800 to 1,600 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 MACHINE-ROOM

A traditional solution simplifying lift maintenance.



3 ROBUST LIFT CAR

Provides greater comfort during lift travel, with reduced vibration and noise.



4 ACCESSIBLE SPACE BELOW THE PIT

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



5 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.



6 PARAMETRIC/FLEXIBLE

Flexible car and door configurations ensure available shaft dimensions can be optimised (optional).



7 CARS

Reinforced wall panels and flooring provides durability for heavy duty usage. Flexible configurations offering optimum car and door dimensions.



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							
								Side-opening doors ¹		Central-opening doors ¹			
						Entrances		AH ²	FH ³	AH	FH ⁴	HF ⁵	HUP ⁶
Speed		Q Load	AC Width	FC Depth	PL Clear opening	Accessibility	No. of entrances	Width	Depth	Width	Depth	Pit	Headroom
1.6 m/s	6	450 kg	1,000	1,250	800		1	1,500	1,800	1,750	1,750	1,200 ⁵	3,550 ⁶
							2x180 ⁰	1,600	1,700	1,750	1,600		
	8	630 kg	1,100	1,400	800		1	1,500	1,950	1,750	1,900	1,250 ⁵	3,600 ⁶
							2x180 ⁰	1,700	1,850	1,750	1,750		
	10	800 kg	1,350	1,400	800		1	1,750	1,950	1,750	1,900		
							2x180 ⁰	2,000	1,850	2,000	1,750		
	13	1,000 kg	1,600	1,400	900		1	2,000	1,950	2,000	1,900		
							2x180 ⁰	2,250	1,850	2,250	1,750		
		1,100	2,100	900	1	1,700	2,650	1,950	2,600				
					2x180 ⁰	1,750	2,550	1,950	2,450				
2 m/s - 2.5 m/s	8	630 kg	1,100	1,400	900		1	1,700	2,000	1,950	1,950	1,815 ⁷ - 2,180 ⁸	4,000 ⁹ - 4,250 ¹⁰
							2x180 ⁰	1,800	1,850	2,050	1,750		
	10	800 kg	1,350	1,400	900		1	1,800	2,000	1,950	1,950		
							2x180 ⁰	2,050	1,850	2,150	1,750		
	13	1,000 kg	1,600	1,400	1,000		1	2,050	2,000	2,150	1,950		
							2x180 ⁰	2,300	1,850	2,400	1,750		
			1,100	2,100	1,000	1	1,800	2,700	2,150	2,650			
						2x180 ⁰	1,850	2,550	2,150	2,450			
	17	1,275 kg	2,000	1,400	1,100		1	2,500	2,050	2,500	2,000	1,865 ⁷ - 2,230 ⁸	
							2x180 ⁰	2,800	1,850	2,500	1,750		
							1	1,850	2,850	2,350	2,850		
							2x180 ⁰	2,000	2,750	2,350	2,650		
	21	1,600 kg	2,100	1,600	1,100		1	2,550	2,250	2,550	2,150		
							2x180 ⁰	2,900	2,050	2,850	1,950		
			1,400	2,400	1,200		1	2,150	2,950	2,550	2,950	2,085 ⁷ - 2,230 ⁸	
							2x180 ⁰	2 200	2 850	2 550	2 750		

0 Minimum plumb measurements

1 TT doors / CC doors

2 Accessible space below the pit (counterweight with safety gear) add 70 mm to AH

3 R=60 mm, shaft depth with TT 2 panel telescopic door tracks projecting 60 mm on the landing

4 R=40 mm, shaft depth with CC 2 panel central door tracks projecting 40 mm on the landing

5 For travels over 75 m, HF=1,300 mm

6 Minimum HUP for internal car height (HC) of 2,100 mm
If side counterweight Q>630kg, HUP min=3,800 mm

7 (2m/s) HF minimum (HF=BC+1410) Table BC=100

8 (2,5m/s) HF minimum (HF=BC+1795) Table BC=100

9 (2m/s)HUP minimum with side counterweight (HUP=HC+1681) * Table HC=2300

(2m/s) HUP minimum with rear counterweight (HUP=HC+1561)

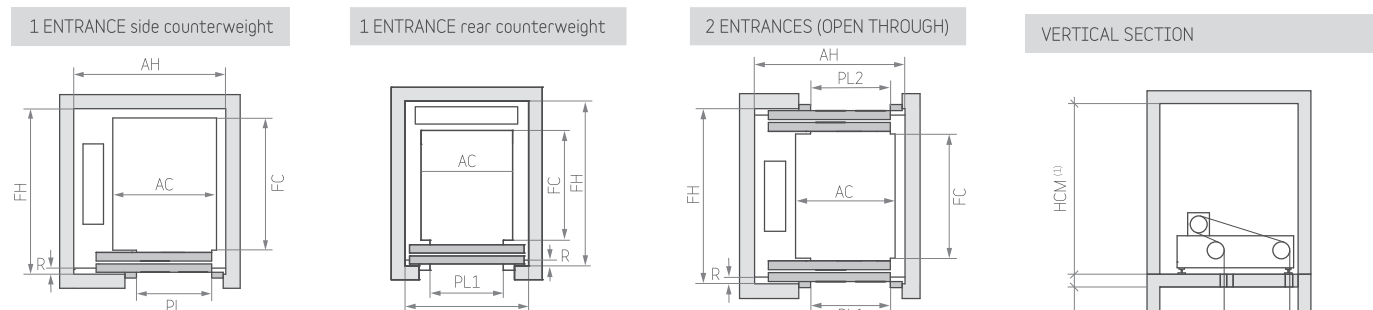
10 (2,5m/s) HUP minimum with side counterweight (HUP=HC+1905) *Table HC=2300
(2,5m/s) HUP minimum with rear counterweight (HUP=HC+1785)

*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*



* Note: The diagrams are for guidance only.

Customised car dimensions

Car width												
								13	12	11	10	1,600
							13	13	11	10	9	1,500
							13	13	12	11	10	1,400
							13	12	11	10	9	1,300
							13	12	11	10	9	1,200
							13	12	11	10	9	1,100
							13	12	11	10	9	1,000
							13	12	11	10	9	900
13	13	12	11	11	10	9	8	7	6			
12	12	11	10	10	9	8	7	6				
11	10	10	9	8	8	7	6					
2,100	2,000	1,900	1,800	1,700	1,600	1,500	1,400	1,300	1,200	1,100		

Car depth

Clear door opening

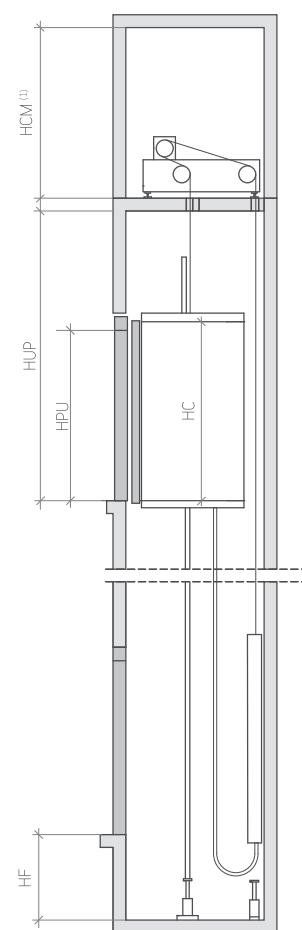
Car width												
								21	20	18		2,100
								21	20	18	17	2,000
								21	20	19	17	1,900
								21	20	19	18	1,800
								21	20	19	18	1,700
								21	20	19	18	1,600
								21	20	19	18	1,500
								21	20	19	18	1,400
								21	20	19	18	1,300
								21	20	19	18	1,200
								21	20	19	18	1,100
								21	20	19	18	1,000
								21	20	19	18	900
2,500	2,400	2,300	2,200	2,100	2,000	1,900	1,800	1,700	1,600	1,500	1,400	1,300

Car depth

Clear door opening

Note: Dimensions for one entrance. Car width and depth variable in increments of 5 mm.

For simplification, table samples increments of 100 mm.



(1) HCM - minimum 2,000 mm