

Orona 3G

X-27

## Machine-room above electrical gearless solutions

With the latest direct drive (gearless) technology.  
Designed for high-rise buildings.  
Great flexibility and high performance.

### General specifications

Load	450 to 1,000 kg
Capacity	6 to 13 persons
Speed	1.6 m/s
Maximum travel	120 m
Maximum floors served	64 floors
Entrances	1 front / 2 open through
Drive system	Direct gearless
Controller	ARCA II controller, low energy microprocessor
Door types	Automatic side-opening / Automatic central-opening
Clear door opening	From 700 to 1000 mm (at intervals of 100 mm)
Door height	2,000 / 2,100 / 2,200 / 2,300
Car dimensions	Parametric car dimensions
Internal car height	2,100 / 2,200 / 2,300 / 2,400
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.



## Standard dimensions

Load / capacity			Car			Lift shaft *							
Speed	Persons	Q Load	AC Width	FC Depth	PL Clear opening	Entrances		Side-opening doors		Central-opening doors		HF <sup>4</sup> Pit	HUP <sup>5</sup> Last Floor
						Accessibility	No. of entrances	AH <sup>1</sup> Width	FH <sup>2</sup> Depth	AH Width	FH <sup>3</sup> Depth		
1.6 m/s	6	450 kg	1,000	1,250	800	♿	1	1,500	1,800	1,750	1,750	1,200	3,550
							2 x 180°	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	3,600
							2 x 180°	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	1,250	3,600
							2 x 180°	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	1,250	3,600
							2 x 180°	2,250	1,850	2,250	1,750		
13	1,000 kg	1,100	2,100	900	♿	1	1,700	2,650	1,950	2,600	1,250	3,600	
						2 x 180°	1,750	2,550	1,950	2,450			

- 1 Accessible space below the pit (counterweight with safety gear) add 30 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 For longer travels to 75 m, HF = 1,300 mm
  - 5 HUP minimum for internal car height (HC) of 2,100 mm (HUP = HC + 1,350)  
Analyse for each example. If side counterweight Q > 630 kg, HUP min = 3,800 mm
- \* Minimum plumb measurements

## Layout

1 ENTRANCE side counterweight

1 ENTRANCE depth counterweight

2 ENTRANCES (OPEN THROUGH)

VERTICAL SECTION

WIDE-FRAMED DOOR DETAIL

WIDE-FRAMED DOOR DETAIL

## Customised car dimensions

		Car width										Clear door opening											
		13	12	11	10	9	8	7	6	5	4	3	2	1	0	800	900	1,000	1,100	1,200	1,300	1,400	1,500
Car depth	13																						
	12																						
	11																						
	10																						
	9																						
	8																						
	7																						
	6																						
	5																						
	4																						
	3																						
	2																						
	1																						
	0																						

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

(1) HCM - minimum 2,000 mm