

Orona 3G

X-22C

Machine-room above electrical gearless solutions for heavy loads and high performance

Electrical solution for heavy loads.
High-performance capacity.

General specifications

Load / Capacity	2,550 to 3,500 / 3,550 to 5,000 kg
Speed	0.5 - 1 m/s / 0.5 m/s
Maximum travel	30 m to 50 m / 30 m
Maximum floors served	14 floors
Entrances	1 front / 2 open through
Drive system	Direct gearless
Controller	ARCA II controller, low energy consumption multiprocessor
Door types	Automatic side-opening / Automatic central-opening
Clear door opening	From 900 to 2,900 mm (in increments 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	Heavy loads Aesthetics

Standard Optional



1 DRIVE

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



2 MACHINE-ROOM

A traditional solution simplifying lift maintenance.



3 ACCESSIBLE SPACE BELOW THE PIT

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



4 ROBUST LIFT CAR

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



5 PARAMETRIC/FLEXIBLE

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



6 CARS

Special car dimensions, with extra depth and wider doors. Designed with reinforced panels and floors for multiple and intensive uses.



Standard dimensions

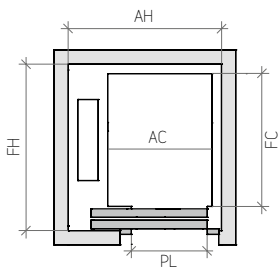
Load / Capacity		Car				Lift shaft *				
Speed	Q Load	AC Width	FC Depth	PL Clear opening	Doors ²	Entrances	AH ³ Width	FH Depth	HF Min. pit	HUP ⁴ Headroom
0.5 m/s	2,550 kg	2,300	1,900	900 - 2,900	PL < 2,100 HH	1	3,300	2,260	1,350	3,500
		1,900	2,500			2x180 ⁰		2,470		
	3,000 kg	2,500	2,200			1	2,975	2,770		
		2,100	3,000			2x180 ⁰		2,890		
	3,500 kg	2,500	2,500			1	3,520	2,560		
		2,500	2,500		2x180 ⁰	2,770				
	4,000 kg	2,500	2,800		1	3,520	2,860			
		2,100	3,000		2x180 ⁰		3,070			
	4,500 kg	2,500	2,800		1	3,225	3,270			
		2,700	2,800		2x180 ⁰		3,390			
5,000 kg	2,500	2,800	1	3,520	3,160					
	3,000	2,800	2x180 ⁰		3,370					
1 m/s	2,550 kg	2,300	1,900	900 - 2,900	PL < 2,100 HH	1	3,250	2,260	1,350	3,550
		1,900	2,500			2x180 ⁰		2,470		
	3,000 kg	2,500	2,200			1	2,975	2,770		
		2,500	2,500			2x180 ⁰		2,890		
	3,500 kg	2,500	2,500			1	3,520	2,560		
		2,100	3,000		2x180 ⁰	2,770				
	4,000 kg	2,500	2,800		1	3,520	2,860			
		2,700	2,800		2x180 ⁰		3,070			
	4,500 kg	2,500	2,800		1	3,225	3,270			
		3,000	2,800		2x180 ⁰		3,390			
5,000 kg	2,500	2,800	1	3,520	3,160					
	3,000	2,800	2x180 ⁰		3,370					

- The possible car dimensions vary by 50 mm increments only
- Two and three panel telescopic door also possible
- Shaft width calculated for maximum PL and central doors, telescopic doors also available

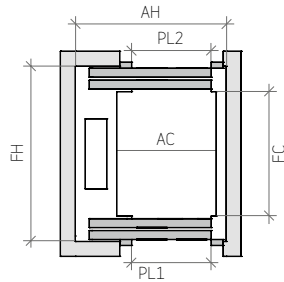
- HUP for internal car height of 2,200 mm
HUP will be reduced by 70 mm for LED lighting
- HH - Four panel central door
- MM - Six panel central door
- * Minimum plumb measurements

Layout

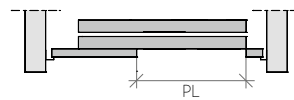
1 ENTRANCE side counterweight



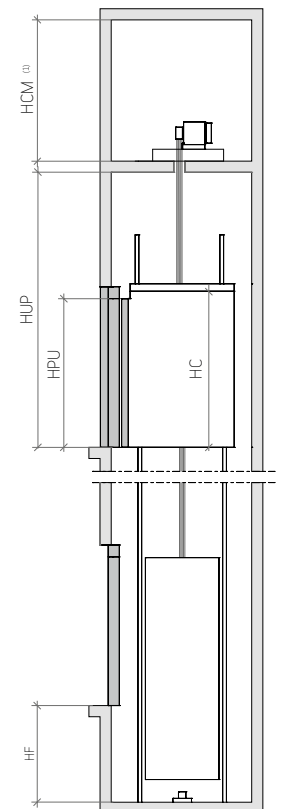
2 ENTRANCES (OPEN THROUGH)



WIDE-FRAMED DOOR DETAIL



VERTICAL SECTION



Customised car dimensions

Car width										Clear door opening																								
										900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900				
			□	#	+	-																												
			□	#	+	-	○	X																										
		□	#	#	+	-	○	X																										
	□	□	#	+	+	-	○	X																										
	□	#	#	+	-	-	○	X																										
	#	+	+	-	-	○	X	X																										

X = 2,500 - 2,950 kg / ○ = 3,000 - 3,450 kg / - = 3,500 - 3,950 kg
+ = 4,000 - 4,450 kg / # = 4,500 - 4,950 kg / □ = 5,000 kg

Note: Car width and depth variable, in increments of 5 mm.
For simplification, table samples show increments of 100 mm and s = 0.5 m/s.

(1) HCM - minimum 2,000 mm