



Orona

Orona 3G

Technical solutions





Orona 3G X-30

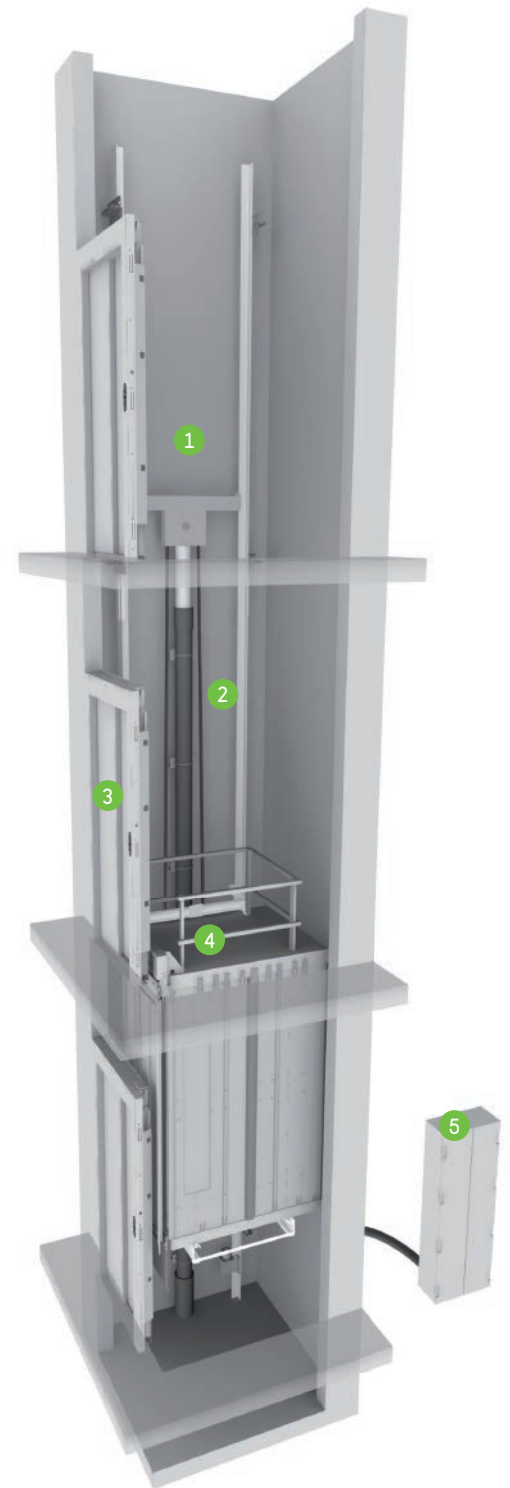
Hydraulic drive solution for buildings with moderate traffic

Hydraulic drive solution.

General specifications

Load	180 to 1,000 kg
Capacity	2 to 16 persons / 2 to 4 persons / 13 to 16 persons
Speed	0.6 m/s
Maximum travel	21 m
Maximum floors served	7 floors
Entrances	1 front / 2 open through / 2 front & side
Drive system	Hydraulic
Controller	ARC III controller, low energy consumption multiprocessor
Door types	Automatic side-opening / Automatic central-opening / Semiautomatic + Articulated (BUS)
Clear door opening	From 600 to 1,600 mm (in 100 mm increments)
Door height	2,000 / 2,100 mm
Car dimensions	Parametric car dimensions
Internal car height	2,100 / 2,200 mm
Aesthetic solutions	Orona 3G Domo Packs / Orona 3G Public Packs / Orona 3G Plus

Standard Optional



1 HYDRAULIC LIFTS

The hydraulic systems, renowned for their long life cycle, are very versatile and offer convenient solutions to high load requirements or reduced shaft spaces.



2 PARAMETRIC/FLEXIBLE

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



3 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.



4 CAR ACCESSIBILITY

Optional EN 81-70 accessible car. Optional car light control, including LED lighting options.



5 REDUCED MACHINE ROOM

As an alternative to a machine-room, the controller/machinery can be fitted into a metal cabinet and located in a convenient location within the building.



Customised solution, examples of dimensions*

Load / capacity		Lift shaft ⁰																				
		Side piston (TT)								Rear piston (HH)		HF Pit		HUP ² Headroom								
		Standard car				Lift shaft																
Persons	Q Load	AC Width	FC Depth	PL Clear opening	Entrances		AH Width	FH ¹ Depth	AH Width	FH ¹ Depth	Std.	With safety space	Without safety space (EN 81-21)	Std.	Without safety space (EN 81-21)							
					Accessibility	No. of entrances																
2	180 kg	750	750	600		1	1200	1,000	1,100	1,300	1,200	1,100	615	3,010								
						2x180 ⁰	1,200	1,150														
						2x90 ⁰	1,350	1,000	1,100	1,300												
4	320 kg	825	1,100	700		1	1,250	1,350	1,175	1,650												
						2x180 ⁰	1,250	1,500														
						2x90 ⁰	1,400	1,350	1,175	1,650												
6	450 kg	1,000	1,250	800		1	1,425	1,500	1,325	1,800							860	3,150				
						2x180 ⁰	1,425	1,650														
						2x90 ⁰	1,575	1,500	1,325	1,800												
8	630 kg	1,100	1,400	900		1	1,575	1,650											3,400	3,150		
						2x180 ⁰	1,575	1,800														
						2x90 ⁰	1,675	1,650														
10	800 kg	1,350	1,400	900		1	1,800	1,650	1,700	1,975											875	3,230
						2x180 ⁰	1,800	1,800														
						2x90 ⁰	1,925	1,650	1,700	1,975												
13	1,000 kg	1,100	2,100	900		1	1,550	2,350			1,250	1,150	875	3,230								
						2x180 ⁰	1,550	2,500														
						2x90 ⁰	1,675	2,350														
16	1,250 kg	1,200	2,300	1,000		1			1,700	1,975												
						2x180 ⁰																
						2x90 ⁰			1,850	1,975												
						1	1,650	2,550														
						2x180 ⁰	1,650	2,700														
						2x90 ⁰	1,775	2,550														

⁰ Minimum plumb measurements

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

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

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

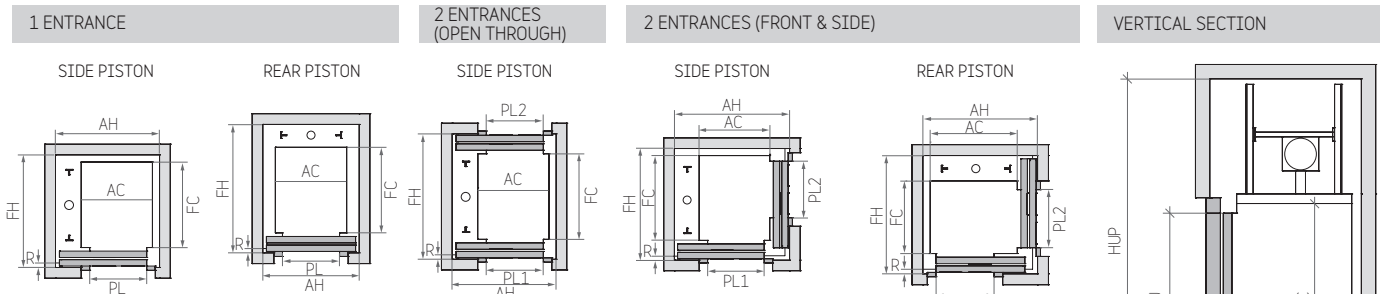
TT - 2 panel telescopic door

NN - 3 panel telescopic door

CC - 2 panel central door

HH - 4 panel central door

Layout*



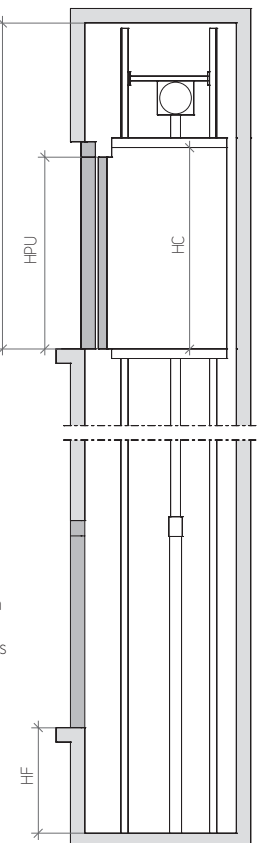
* Note: The diagrams are for guidance only.

Customised car dimensions

SIDE PISTON												Car depth	Clear door opening	
		16	15	14	13	12	11	10	9	8	7			
													1,500	
													1,400	
													1,300	
16	16	15	13	13	12	11	10	9					1,200	
15	14	13	13	12	10	10	9	8	8	7	6	5	5	4
13	13	12	11	10	10	9	8	8	7	6	5	5	4	4
12	11	10	10	9	8	8	7	7	6	5	5	4	4	4
10	10	9	8	8	8	7	6	6	5	5	4	4	4	4
9	8	8	8	7	7	6	5	5	5	4	4	4	4	4
2,100	2,000	1,900	1,800	1,700	1,600	1,500	1,400	1,300	1,200	1,100	1,000	900	800	
														600
														700
														800
														900
														1,000
														1,100
														1,200
														1,300
														1,400
														1,500
														1,600

REAR PISTON												Car depth	Clear door opening	
			13	12	10	9								
													2,100	
													2,000	
													1,900	
													1,800	
													1,700	
													1,600	
													1,500	
													1,400	
													1,300	
													1,200	
													1,100	
													1,000	
													900	
													800	
1,500	1,400	1,300	1,200	1,100	1,000	900	800							600
														700
														800
														900
														1,000
														1,100
														1,200
														1,300
														1,400
														1,500
														1,600

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



Maximum distance machine room to cylinder 10 m.