Orona

Orona 3G

Technical solutions

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Orona 3G

X-11

Solution for shafts with reduced pits and headrooms with an enhanced space of the car size for existing buildings

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

General specifications

Load	180 to 630 kg / 180 to 450 kg (single-phase)
Capacity	2 to 8 persons / 2 to 6 persons (single-phase)
Speed	1 m/s / 0.6 m/s (single-phase)
Maximum travel	40 m / 25 m (single-phase)
Maximum floors served	16 floors
Entrances	1 front / 2 open through / 2 front and side
Drive system	Regulated gearless (180 connections / hour)
Controller	ARCA III controller, low energy consumption multiprocessor
Door types	Automatic side-opening / Automatic central-opening / Semiautomatic + Articulated (BUS)
Clear door opening	From 500 to 900 mm
Door height	2,000 / 2,100 / 2,200 mm
Car dimensions	Parametric car dimensions
Internal car height	2,000 / 2,100 / 2,200 mm
Supply	Three-phase / Single-phase
Aesthetic solutions	Orona 3G Domo Packs / Orona 3G Public Packs / Orona 3G Plus

Standard Optional

1 MRL

Compact machine-room-less solution, with optional reduced headroom version.

2 OPTIMISED PASSENGER UNIT

Saves space, reduces weight, improves safety, and improves the installation process.

3 ACCESIBLE SPACE BELOW THE PIT

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

4 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.

5 DRIVE

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

6 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.

7 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.

8 SHAFT USABILITY

Lifts designed to take maximum advantage of the shaft space, especially in existing buildings with very reduced headrooms or pits, obtaining a good available space to number of passenger ratio.

ECO-EFFICIENCY ADAPTABILITY DESIGN AND ACCESSIBILITY CONTROL AND SAFETY

19/05

Customised solution, examples of dimensions*

Load / capacity			Lift shaft[0]															
			Standard car			Entrances	Doors side counterweight				Doors rear counterweight		HF Pit			HUP[2] Headroom		
							Telescopic Doors				Central Doors HH			Reduced			Reduced	
Accessibility	Persons	Q Load	AC Width	FC Depth	PL Clear opening	No. of entrances	AH[1] Width	FH[1] Depth	TT	NN	AH[1] Width	FH[1] Depth	Std.	With safety space	Without safety space (EN 81-21)	Std.	With safety space	Without safety space (EN 81-21)
	4	320 kg	825	1,100	700	1	1,200	1,350		X	-	-	1,000	830	310	3,400	3,000	2,600
						2x180[0]	1,200	1,500		X	-	-						
						2x90[0]	1,400	1,350		X								
	6	450 kg	1,000	1,250	800	1	1,375	1,500		X	1,350	1,815						
						2x180[0]	1,375	1,650		X	-	-						
						2x90[0]	1,525	1,500		X								
	8	630 kg	1,100	1,400	800	1	1,475	1,650	X		-	-						
						2x180[0]	1,475	1,800	X		-	-						
						2x90[0]	1,625	1,650	X									

0 Minimum plumb measurements

1 Automatic doors projecting 60 mm on the landing (TT or HH) or projecting 105 mm on the landing (NN) (always adapted to space 50 mm). Calculation for reduced headroom with safety space. For reduced headroom without safety space add 60 mm to AH

2 HUP minimum for internal car height (HC) of 2100 mm

NOTE: All of the examples are calculated with a 90 mm sill on car doors

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

TT - 2 panel telescopic door

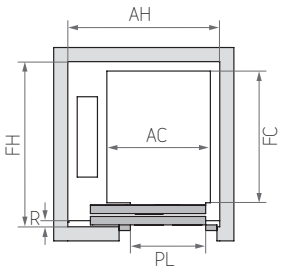
NN - 3 panel telescopic door

CC - 2 panel central door

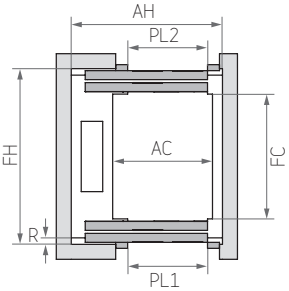
HH - 4 panel central door

Layout*

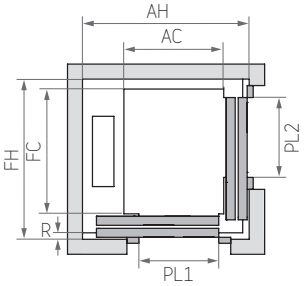
1 ENTRANCE



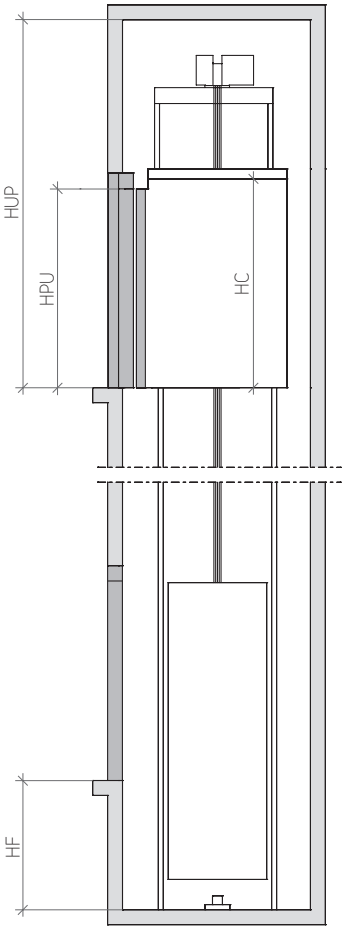
2 ENTRANCES (OPEN THROUGH)



2 ENTRANCES (FRONT & SIDE)



VERTICAL SECTION



* Note: The diagrams are for guidance only.

Customised car dimensions

														Car width
														1350
														1300
			8	8	8	7	7	7	6	6	5	5		1250
		8	8	8	7	7	7	6	6	5	5	5		1200
	8	8	8	7	7	7	6	6	5	5	5	5		1150
8	8	8	7	7	7	6	6	5	5	5	5	4		1100
8	8	7	7	7	6	6	5	5	5	5	4	4		1050
8	7	7	6	6	6	5	5	5	5	4	4	4		1000
7	7	6	6	6	5	5	5	5	4	4	4	4		950
6	6	6	6	5	5	5	5	4	4	4	4	3		900
6	6	5	5	5	5	5	4	4	4	4	3	3		850
5	5	5	5	5	5	4	4	4	4	3	3	3		800
5	5	5	5	4	4	4	4	3	3	3	3	3		750
5	5	4	4	4	4	4	3	3	3	3	3	2		700
1450	1400	1350	1300	1250	1200	1150	1100	1050	1000	950	900	850		500 600 700 800 900

Car depth*

Clear door opening

Note: Dimensions considering 1 entrance. Car width and depth variable in increments of 5 mm.
For simplification, table samples show increments of 50 mm.

* Car depth only valid in the event of side car frame.