Orona

Orona 3G

Technical solutions

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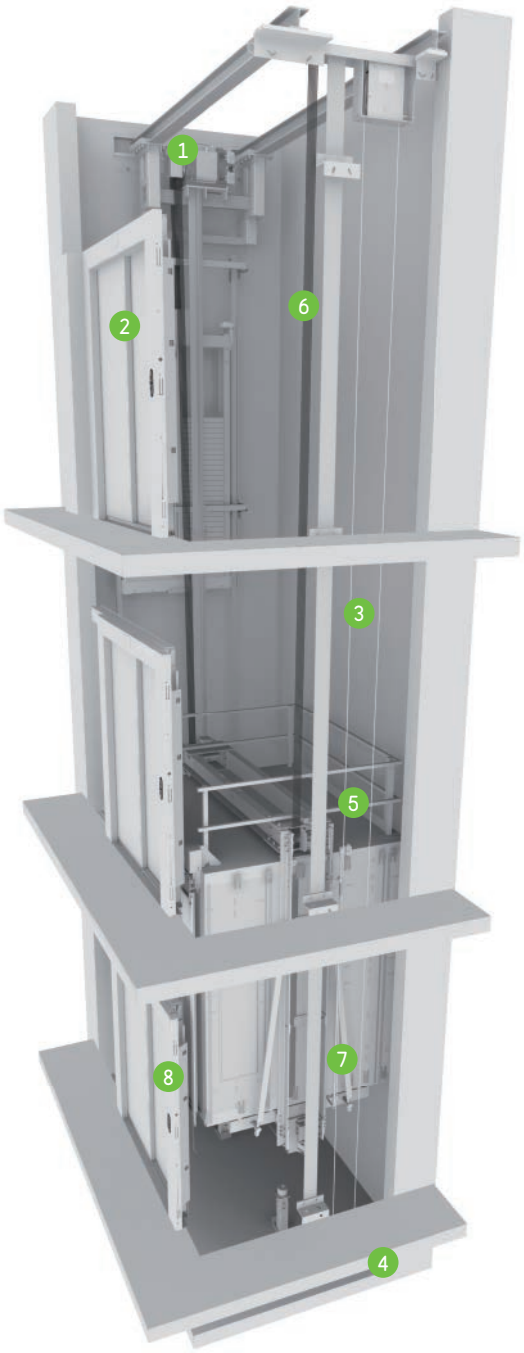
Orona 3G

X-16

Solution designed for the most demanding specifications in public buildings with heavy traffic

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



General specifications

Load	630 to 1,600 kg
Capacity	8 to 21 persons
Speed	1 - 1.6 m/s
Maximum travel	50 - 75 m
Maximum floors served	32 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 Public Packs / Orona 3G Public Plus

Standard Optional

1 DRIVE

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

2 SOLID DOORS

Extra robust doors with reduced sound levels inside and outside the lift and which are specially constructed for high volume passenger traffic.

3 PARAMETRIC/FLEXIBLE

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

4 ACCESIBLE SPACE BELOW THE PIT

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

5 ROBUST LIFT CAR

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

6 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.

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.

ECO-EFFICIENCY ADAPTABILITY DESIGN AND ACCESSIBILITY CONTROL AND SAFETY

19/05

Customised solution, examples of dimensions*

Load / capacity				Car			Lift shaft[0]						
								TT side-opening doors		CC central-opening doors			
Speed	Accessibility	Persons	Q Load	AC Width	FC Depth	PL Clear opening	No. of entrances	AH[1] Width	FH[2] Depth	AH Width	FH[3] Depth	HF Pit	HUP[4] Headroom
1 m/s		8	630 kg	1,100	1,400	900	1 2x180[0]	1,700	1,675 1,850	1,950	1,625 1,750	1,050	3,550
		10	800 kg	1,350	1,400	900	1 2x180[0]	1,975	1,675 1,850	1,975	1,625 1,750		
		13	1,000 kg	1,600	1,400	1,000	1 2x180[0]	2,225	1,675 1,850	2,225	1,625 1,750		
				1,100	2,100	1,000	1 2x180[0]	1,775	2,375 2,550				
		17	1,275 kg	1,200	2,300	1,100	1 2x180[0]	1,935	2,600 2,750				
		21	1,600 kg	1,700	1,950	1,000	1 2x180[0]			2,450	2,200 2,300	1,150	3,600
				1,400	2,400	1,200	1 2x180[0]	2,085	2,700 2,850				
1.6 m/s		8	630 kg	1,100	1,400	900	1 2x180[0]	1,725	1,675 1,850	1,950	1,625 1,750	1,200	3,700
		10	800 kg	1,350	1,400	900	1 2x180[0]	1,975	1,675 1,850	1,975	1,625 1,750		
		13	1,000 kg	1,600	1,400	1,000	1 2x180[0]	2,225	1,675 1,850	2,225	1,625 1,750		
				1,100	2,100	1,000	1 2x180[0]	1,775	2,375 2,550				
		17	1,275 kg	1,200	2,300	1,100	1 2x180[0]	1,935	2,600 2,750				
		21	1,600 kg	1,700	1,950	1,000	1 2x180[0]			2,450	2,200 2,300	1,250	3,750
				1,400	2,400	1,200	1 2x180[0]	2,085	2,700 2,850				

0 Minimum plumb measurements

1 Accessible space below the pit (counterweight with safety gear) add 50 mm to AH

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

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

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

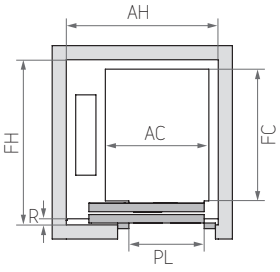
* The information is not contractually binding and is subject to the conditions of the shaft

TT - 2 panel telescopic door

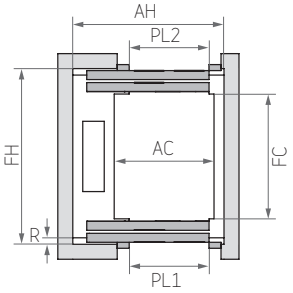
CC - 2 panel central door

Layout*

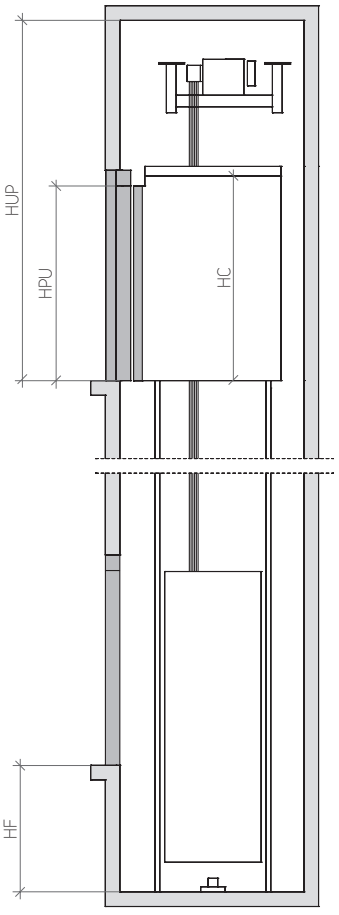
1 ENTRANCE



2 ENTRANCES (OPEN THROUGH)



VERTICAL SECTION



* Note: The diagrams are for guidance only.

Customised car dimensions

Car width

									21	20	18			2,100										
								21	20	18	17			2,000										
							21	20	19	17	16			1,900										
						21	20	19	18	16	15			1,800										
					21	20	19	18	16	15	14			1,700										
				21	21	19	18	16	15	14	13	12		1,600										
		21	21	19	18	17	17	15	14	13	13	11		1,500										
21	21	20	19	18	17	16	15	14	13	13	12	11	10	1,400										
20	19	18	17	16	16	15	14	13	12	11	10	9	8	1,300										
19	18	17	16	15	14	13	13	12	11	10	9	9	8	1,200										
		15	14	13	13	12	11	11	10	9	8	8		1,100										
				12	12	11	10	10	9	8				1,000										
				11	10	10	9	8	8					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	1,200		800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	

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 100 mm.