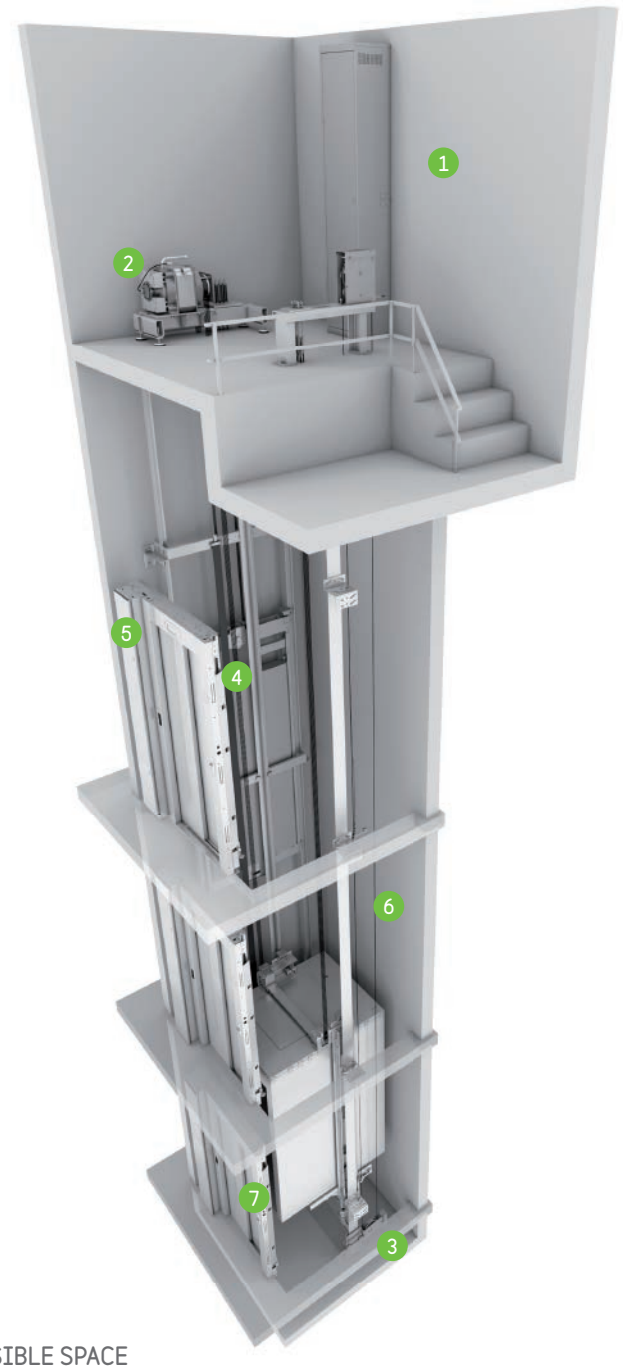
Orona 3G

X-25

Customised solution for residential and public buildings with high traffic

Machine-room above electrical gearless solution.



General specifications

Load	450 to 1,000 kg
Capacity	6 to 13 persons
Speed	1 - 1.6 m/s
Maximum travel	50 - 60 m
Maximum floors served	16 - 21 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 600 to 1,500 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 Domo Packs / Orona 3G Public Packs / Orona 3G Plus

Standard Optional

1 MACHINE-ROOM

A traditional solution simplifying lift maintenance.

2 DRIVE

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

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 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 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

20/01

Customised solution, examples of dimensions*

Load / capacity			Car			Lift shaft[0]							
								TT side-opening doors		CC central-opening doors			
Speed	Persons	Q Load	AC Width	FC Depth	PL Clear opening	Entrances: Accessibility	Entrances: No. of entrances	AH Width	FH[1] Depth	AH Width	FH[2] Depth	HF Pit	HUP[4] Headroom
1 m/s	6	450 kg	1,000	1,250	800	♿	1	1,470	1,520	1,720	1,470	1,000 (850)[3]	3,400
							2x180[0]		1,690		1,590		
	8	630 kg	1,100	1,400	900		1	1,570	1,670	1,900	1,620		
							2x180[0]		1,840		1,740		
	10	800 kg	1,350	1,400	900		1	1,820	1,670	1,900	1,620		
							2x180[0]		1,840		1,740		
	13	1000 kg	1,600	1,400	1,000	♿	1	2,070	1,670	2,100	1,620		
							2x180[0]		1,840		1,740		
			1,400	1,600	1,000		1	1,870	1,870	2,100	1,820		
							2x180[0]		2,040		1,940		
			1,100	2,100	1,000		1	1,720	2,370	2,100	2,320		
							2x180[0]		2,540		2,440		
1,6 m/s	6	450 kg	1,000	1,250	800	♿	1	1,470	1,520	1,720	1,470	1,120	3,550
							2x180[0]		1,690		1,590		
	8	630 kg	1,100	1,400	900		1	1,570	1,670	1,900	1,620		
							2x180[0]		1,840		1,740		
	10	800 kg	1,350	1,400	900		1	1,820	1,670	1,900	1,620		
							2x180[0]		1,840		1,740		
	13	1,000 kg	1,600	1,400	1,000	♿	1	2,070	1,670	2,100	1,620		
							2x180[0]		1,840		1,740		
			1,400	1,600	1,000		1	1,870	1,870	2,100	1,820		
							2x180[0]		2,040		1,940		
			1,100	2,100	1,000		1	1,720	2,370	2,100	2,320		
							2x180[0]		2,540		2,440		

0 Minimum plumb measurements

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

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

3 HF reduced pit optional 850 mm

4 HUP minimum for internal car height (HC) 2,100 mm (HUP=HC+1,300)

Note: minimum AH dimensions calculated with the most favourable combination of controller cabinet and door pillar it is connected to

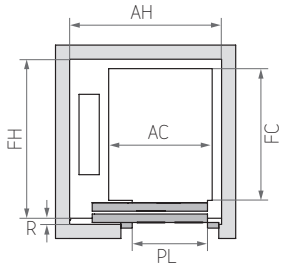
* The information is not contractually binding and is subject to the conditions of the shaft

TT - 2 panel telescopic door

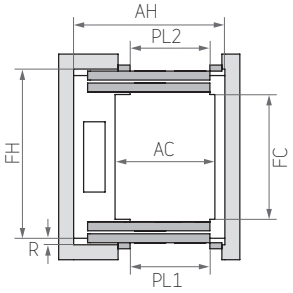
CC - 2 panel central door

Layout*

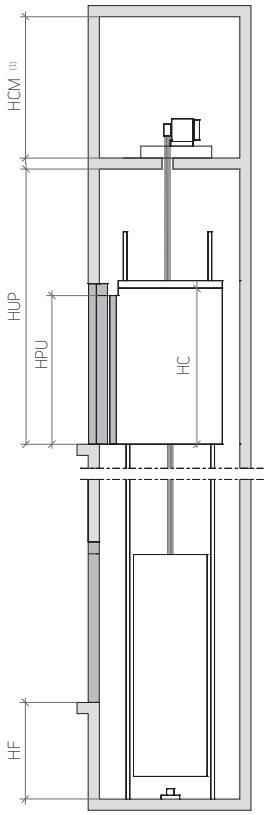
1 ENTRANCE



2 ENTRANCES (OPEN THROUGH)



VERTICAL SECTION



(1) HCM - minimum 2,000 mm

* Note: The diagrams are for guidance only.

Customised car dimensions

Car width

							13	12				1,600										
						13	13	11				1,500										
					13	13	12	11	10			1,400										
				13	12	11	10	9	8			1,300										
		13	13	12	11	10	9	9	8		6	1,200										
13	13	12	11	11	10	9	8	8	7	6	5	1,100										
12	12	11	10	10	9	8	7	7	6	5	5	1, 000										
11	10	10	9	8	8	7	7	6	5	5	4	900										
						6	6	5	5	4	4	800										
2,100	2,000	1,900	1,800	1,700	1,600	1,500	1,400	1,300	1,200	1,100	1,000		600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500

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.