# Orona 3G X-16

# Machine-room-less electrical gearless solutions (MRLG)

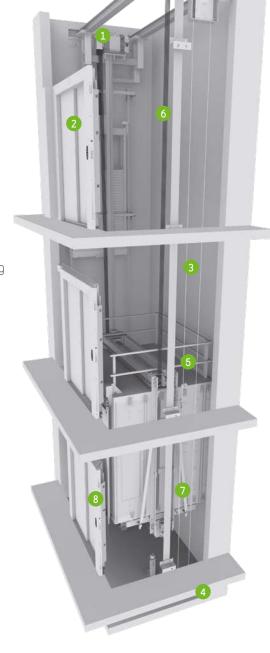
High efficiency for public buildings.

Maximum reliability.

The solution with maximum robustness and comfort for the most demanding environments and specifications.

# 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	Direct gearless
Controller	ARCA II $/$ 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



DRIVE

Standard Optional

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 **BELLOW 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 ecofriendly gearless machine.



### 7 CARS

Reinforced wall panels and flooring provides durability for heavy duty usage. Flexible configurations offering optimum car and door dimensions.



### **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.



















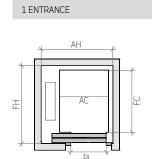


### Standard dimensions

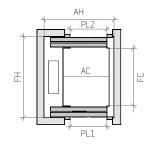
	l and / an				Coo		Lift shaft*										
	Load / cap	Dacity			Car			Side-oper	ning doors	Central-op	ening doors						
Speed	Accessibility	Persons	Q Load	AC Width	FC Depth	PL Clear opening	No. of entrances	AH <sup>1</sup> Width	FH <sup>2</sup> Depth	AH Width	FH <sup>3</sup> Depth	HF Pit	HUP <sup>4</sup> Headroom				
	iŁ	8	630 kg	1,100	1,400	900	1 2 x 180 <sup>0</sup>	1,700	1,675 1,850	1,950	1,625 1,750						
		10	800 kg	1,350	1,400	900	1 2 x 180 <sup>0</sup>	1,975	1,675 1,850	1,975	1,625 1,750	1,050	3,550				
1 m/s		13	1,000 kg	1,600	1,400	1,000	1 2 x 180 <sup>0</sup>	2,225	1,675 1,850 2,225		1,625 1,750	1,000	3,330				
			1,000 kg	1,100	2,100	1,000	1 2 x 180 <sup>0</sup>	1,775	2,375 2,550								
		17	1,275 kg	1,200	2,300	1,100	2 x 180 <sup>0</sup>	1,935	2,600 2,750			1150					
		21	1,600 kg	1,700	1,950	1,000	2 x 180 <sup>0</sup>			2,450	2,200 2,300		3600				
				1,400	2,400	1,200	1 2 x 180 <sup>0</sup>	2,085	2,700 2,850								
		8	630 kg	1,100	1,400	900	1 2 x 180 <sup>0</sup>	1,725	1,675 1,850 1,675 1,850	1,950	1,625 1,750						
		10	800 kg	1,350	1,400	900	2 x 180 <sup>0</sup>	1,975		1,975	1,625 1,750	1,200	3,700				
1.6 m/s	(jė	13	1,000 kg	1,600	1,400	1,000	1 2 x 180 <sup>0</sup>	2,225	1,675 1,850	2,225	1,625 1,750	1,200	3,700				
				1,100	2,100	1,000	2 x 180 <sup>0</sup>	0 <sup>0</sup> 1,775 2,375 2,550									
		17	1,275 kg	1,200	2,300	1,100	1 2 x 180 <sup>0</sup>	1,935	2,600 2,750								
		21	1,600 kg	1,700	1,950	1,000	1 2 x 180 <sup>0</sup>			2,450	2,200 2,300	1,250	3,750				
		21		1,400	2,400	1,200	1 2 x 180 <sup>0</sup>	2,085	2,700 2,850								

- $1\,$  Accessible space below the pit (counterweight with safety gear) add 50 mm to AH  $\,$
- 2 Shaft depth with door tracks projecting 60 mm on the landing
- 3 Shaft depth with door tracks projecting 40 mm on the landing
- 4 HUP minimum for internal car height (HC) 2,100 mm.
- \* Minimum plumb measurements

# Layout



### 2 ENTRANCES (OPEN THROUGH)



# Customised car dimensions

													Ca	ır wid	th								
									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
Card	depth	1																		Clea	r do	or op	ening

Note: Car width and depth variable in increments of 5 mm.

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VERTICAL SECTION