

# Orona 3G 2025

## Machine-room above electrical gearless solutions

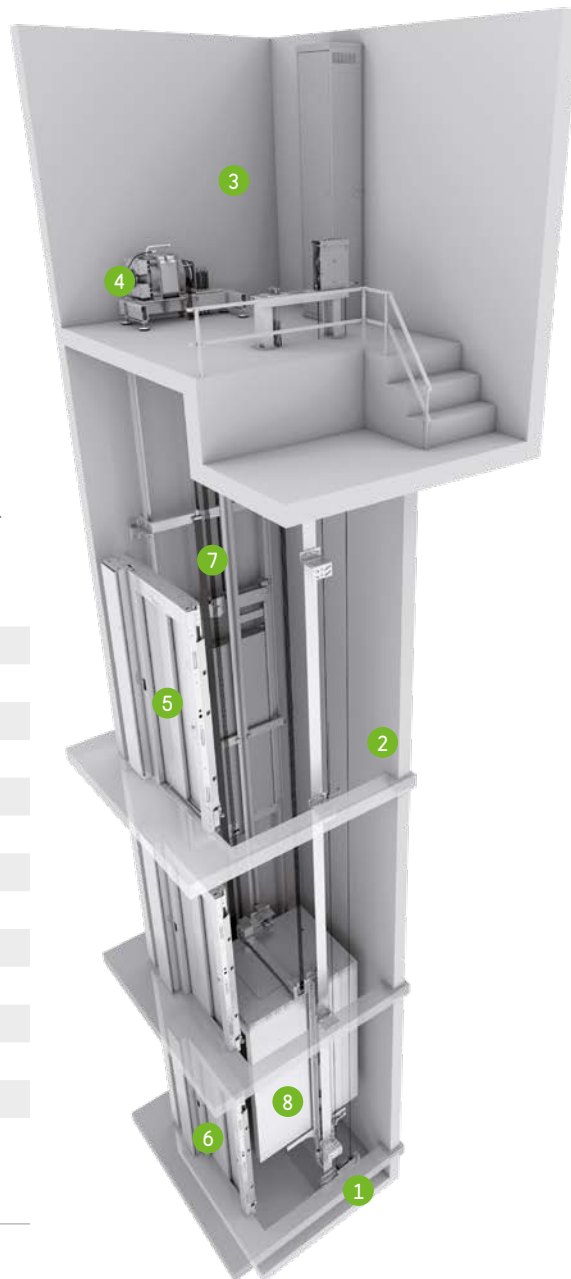
With the latest direct drive technology in public buildings.  
Less noise and more accessible maintenance.  
The customised solution with a machine room and the latest technology.

### General specifications

|                       |   |
|-----------------------|---|
| Load                  | 320 to 1,000 kg   |
| Capacity              | 4 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          | Direct gearless   |
| Controller            | ARCA II controller, low energy consumption multiprocessor |
| Door types            | Automatic side-opening / Automatic central-opening        |
| Clear door opening    | From 800 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  
PR1 / PR2 / PR3 / PR4 / PR5  
PS1 / PS2 / PS3 / PS4 / PS5 / PS6 / PS7 / PS8 / PS9 / Orona 3G Public Plus

Standard Optional



#### 1 ACCESSIBLE SPACE BELLOW THE PIT

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



#### 2 PARAMETRIC/FLEXIBLE

Flexible car and door configurations ensure available shaft dimensions to meet the requirements of the lift well (optional).



#### 3 MACHINE-ROOM

A traditional solution simplifying lift maintenance.



#### 4 DRIVE

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



#### 5 SOLID DOORS

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



#### 6 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.



#### 7 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.



#### 8 TWO-WAY COMMUNICATIONS

Between the lift and the emergency 24-hour Service Call Centre according to EN 81-28.



ECO-EFFICIENCY



ADAPTABILITY



DESIGN AND ACCESSIBILITY



CONTROL AND SAFETY

## Standard dimensions\*

| Load/Capacity |          |          | Car      |          |                  | Lift shaft <sup>0</sup>   |                           |                       |                       |                       |                       |                          |   |
|---------------|----------|----------|----------|----------|------------------|---------------------------|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------------|---|
| Speed         | Persons  | Q Load   | AC Width | FC Depth | PL Clear opening | Entrances                 |                           | Side-opening doors    |                       | Central-opening doors |                       | HF Pit                   | HUP <sup>5</sup> Headroom               |
|               |          |          |          |          |                  | Accessibility             | No. of entrances          | AH <sup>1</sup> Width | FH <sup>2</sup> Depth | AH Width              | FH <sup>3</sup> Depth |                          |   |
| 1 m/s         | 4        | 320 kg   | 825      | 1,100    | 700              |                           | 1<br>2 x 180 <sup>0</sup> | 1,300                 | 1,350<br>1,500        |                       |                       | 1,000 (830) <sup>4</sup> | 3,400<br><br>3,400 (3,050) <sup>6</sup> |
|               | 6        | 450 kg   | 1,000    | 1,250    | 800              | ♿                         | 1<br>2 x 180 <sup>0</sup> | 1,450                 | 1,500<br>1,650        | 1,725                 | 1,450<br>1,550        |                          |   |
|               | 8        | 630 kg   | 1,100    | 1,400    | 900              |                           | 1<br>2 x 180 <sup>0</sup> | 1,600                 | 1,675<br>1,850        | 1,925                 | 1,625<br>1,750        |                          |   |
|               | 10       | 800 kg   | 1,350    | 1,400    | 900              | ♿                         | 1<br>2 x 180 <sup>0</sup> | 1,825                 | 1,675<br>1,850        | 1,925                 | 1,625<br>1,750        |                          |   |
|               | 13       | 1,000 kg | 1,600    | 1,400    | 1,000            |                           | 1<br>2 x 180 <sup>0</sup> | 2,075                 | 1,675<br>1,850        | 2,150                 | 1,625<br>1,750        |                          |   |
|               |          |          | 1,100    | 2,100    | 1,000            | ♿                         | 1<br>2 x 180 <sup>0</sup> | 1,775                 | 2,375<br>2,550        | 2,125                 | 2,300<br>2,400        |                          |   |
|               |          |          | 825      | 1,100    | 700              |                           | 1<br>2 x 180 <sup>0</sup> | 1,325                 | 1,350<br>1,500        |                       |                       |                          |   |
|               |          |          | 1,000    | 1,250    | 800              | ♿                         | 1<br>2 x 180 <sup>0</sup> | 1,475                 | 1,500<br>1,650        | 1,725                 | 1,450<br>1,550        |                          |   |
| 8             | 630 kg   | 1,100    | 1,400    | 900      |                  | 1<br>2 x 180 <sup>0</sup> | 1,625                     | 1,675<br>1,850        | 1,925                 | 1,625<br>1,750        | 1,120                 | 3,550                    |   |
| 10            | 800 kg   | 1,350    | 1,400    | 900      | ♿                | 1<br>2 x 180 <sup>0</sup> | 1,850                     | 1,675<br>1,850        | 1,925                 | 1,625<br>1,750        |                       |                          |   |
| 13            | 1,000 kg | 1,600    | 1,400    | 1,000    |                  | 1<br>2 x 180 <sup>0</sup> | 2,100                     | 1,675<br>1,850        | 2,175                 | 1,625<br>1,750        |                       |                          |   |
|               |          | 1,100    | 2,100    | 1,000    | ♿                | 1<br>2 x 180 <sup>0</sup> | 1,775                     | 2,375<br>2,550        | 2,125                 | 2,300<br>2,400        |                       |                          |   |

0 Minimum plumb measurements

1 Accessible space below the pit (counterweight with safety gear) add 115 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 HF reduced pit optional 830 mm

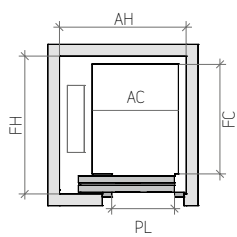
5 Minimum HUP for interior car height (HC) of 2,100 mm (HUP=HC+1300)

6 HUP optional reduced (HUP=HC+900). Consult availability of car dimensions.

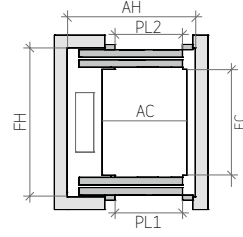
\* The information is not contractually binding and is subject to the conditions of the shaft

## Layout

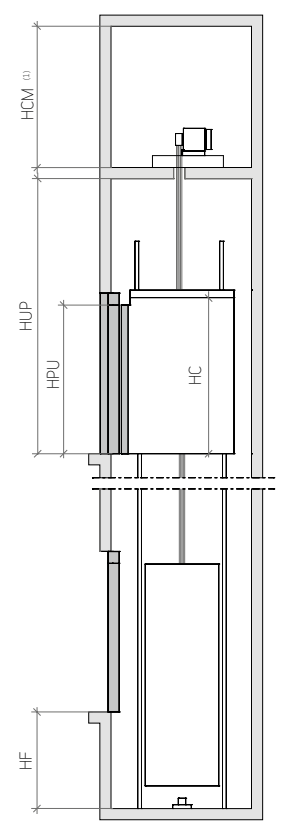
### 1 ENTRANCE



### 2 ENTRANCES (OPEN THROUGH)



### VERTICAL SECTION



## Customised car dimensions

| Car width |       |       |       |       |       |       |       |       |       |       |                    |       |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|
|           |       |       |       |       |       | 13    | 12    | 12    | 1,600 |       |                    |       |       |       |       |       |       |
|           |       |       |       | 13    | 13    | 12    | 11    | 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     | 1,200 |                    |       |       |       |       |       |       |
| 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   |       |                    |       |       |       |       |       |       |
| 2,100     | 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 |
|           |       |       |       |       |       |       |       |       |       |       | Clear door opening |       |       |       |       |       |       |
| Car depth |       |       |       |       |       |       |       |       |       |       | Clear door opening |       |       |       |       |       |       |

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

For simplification, table samples show increments of 100 mm.

(1) HCM - minimum 2,000 mm