

# EMA-62

## Machine-room above solutions

Easy to use solutions with proven technology.

### General specifications

|                       |   |
|-----------------------|---|
| Load                  | 320 to 1,000 kg (1 m/s) or 400 to 630 kg (1.6 m/s)  |
| Capacity              | 4 to 13 (1 m/s) or 5 to 8 persons (1.6 m/s)   |
| Speed                 | 1-1.6 m/s   |
| Maximum travel        | 75 m  |
| Maximum floors served | 32 floors   |
| Entrances             | 1 front / 2 open through  |
| Drive system          | Tractor set consisting of a durable gear box, a three-phase asynchronous VVVF-regulated motor and an electro-magnetic brake |
| Controller            | ARCA II controller, low energy consumption multiprocessor   |
| Door types            | Automatic side-opening / Automatic central-opening  |
| Clear door opening    | 700 / 800 / 900 / 1,000   |
| Door height           | 2,000 / 2,100 / 2,200 / 2,300   |
| Car dimensions        | Parametric car dimensions   |
| Internal car height   | 2,100 / 2,200 / 2,300 / 2,400   |
| Standard              | Optional  |



#### 1 MACHINE-ROOM

A traditional solution simplifying lift maintenance.



#### 2 SUSPENSION AND ROPES

1:1 system with conventional guides and rear or side counterweight.



#### 3 ACCESSIBLE SPACE BELOW THE PIT

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



#### 4 PARAMETRIC/FLEXIBLE

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



#### 5 CONTROL SYSTEM

ARCA II controller, distributed in the machine room and in the shaft.



#### 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.



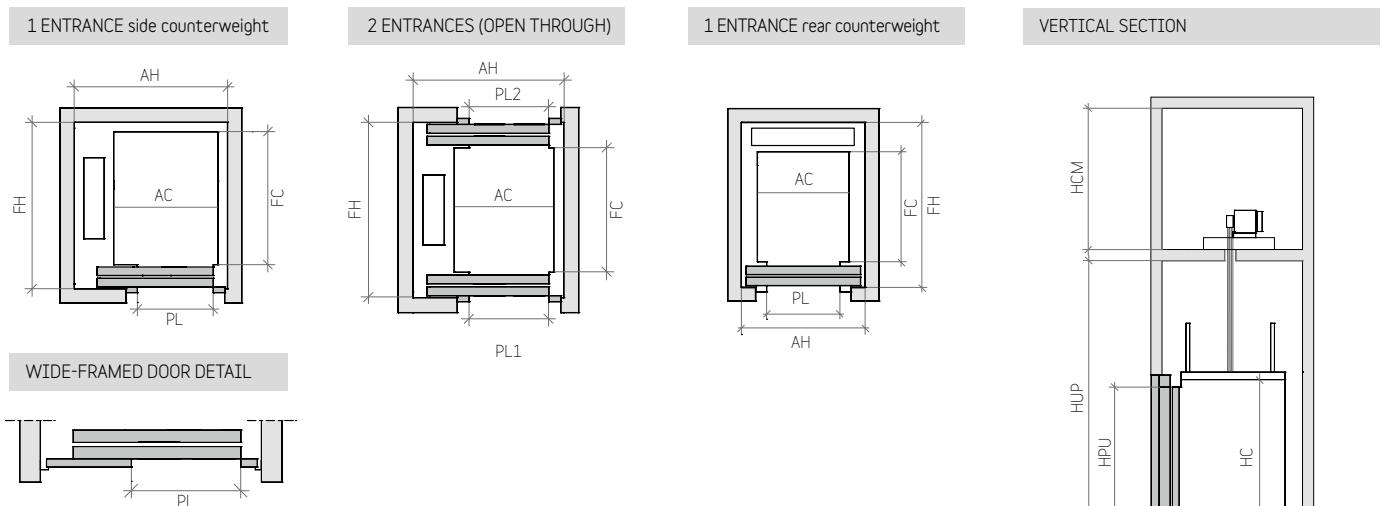
## Standard dimensions

| Load / Capacity |         |          | Car      |          |                      | Lift shaft *  |                      |  |                       |   |                       |                             |                                     |       |
|-----------------|---------|----------|----------|----------|----------------------|---------------|----------------------|--|-----------------------|---|-----------------------|-----------------------------|-------------------------------------|-------|
| Speed           | Persons | Q Load   | AC Width | FC Depth | PL Clear opening     | Entrances     |                      | SIDE COUNTERWEIGHT<br>Side-opening doors |                       | REAR COUNTERWEIGHT<br>Central-opening doors |                       | HF <sup>5</sup> Pit<br>Std. | HUP <sup>4-5</sup> Headroom<br>Std. |       |
|                 |         |          |          |          |                      | 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                    | 1,325                                    | 1,420                 | 1,525                                       | 1,500                 | 1,100                       | 3,450                               |       |
|                 |         |          |          |          |                      |               | 2 x 180 <sup>0</sup> | 1,325                                    | 1,490                 | -   | -                     |                             |                                     |       |
|                 | 6       | 450 kg   | 1,000    | 1,250    | 800                  |               | 1                    | 1,500                                    | 1,570                 | 1,725                                       | 1,650                 |                             |                                     |       |
|                 |         |          |          |          |                      |               | 2 x 180 <sup>0</sup> | 1,500                                    | 1,640                 | -   | -                     |                             |                                     |       |
|                 | 8       | 630 kg   | 1,100    | 1,400    | 900                  |               | 1                    | 1,650                                    | 1,720                 | 1,925                                       | 1,800                 |                             |                                     |       |
|                 |         |          |          |          |                      |               | 2 x 180 <sup>0</sup> | 1,650                                    | 1,840                 | -   | -                     |                             |                                     |       |
|                 | 10      | 800 kg   | 1,350    | 1,400    | 900                  |               | 1                    | 2,050                                    | 1,780                 | 1,925                                       | 1,925                 |                             |                                     |       |
|                 |         |          |          |          |                      |               | 2 x 180 <sup>0</sup> | 2,050                                    | 1,840                 | -   | -                     |                             |                                     |       |
|                 | 13      | 1,000 kg | 1,600    | 1,400    | 1,000                |               | ♿                    | 1  | 2,300                 | 1,720                                       | 2,125                 |                             |                                     | 1,925 |
|                 |         |          |          |          |                      |               |                      | 2 x 180 <sup>0</sup>                     | 2,300                 | 1,840                                       | -                     |                             |                                     | -     |
| 1,100           |         |          | 2,100    | 1,000    | 1                    | 1,825         |                      | 2,420                                    | -                     | -   |                       |                             |                                     |       |
|                 |         |          |          |          | 2 x 180 <sup>0</sup> | 1,825         |                      | 2,540                                    | -                     | -   |                       |                             |                                     |       |
| 1.6 m/s         | 6       | 450 kg   | 1,000    | 1,250    | 800                  | ♿             | 1                    | 1,600                                    | 1,570                 | 1,725                                       | 1,725                 | 1,200                       | 3,600                               |       |
|                 |         |          |          |          |                      |               | 2 x 180 <sup>0</sup> | 1,600                                    | 1,640                 | -   | -                     |                             |                                     |       |
|                 | 8       | 630 kg   | 1,100    | 1,400    | 900                  |               | 1                    | 1,700                                    | 1,720                 | 1,925                                       | 1,875                 |                             |                                     |       |
|                 |         |          |          |          |                      |               | 2 x 180 <sup>0</sup> | 1,700                                    | 1,840                 | -   | -                     |                             |                                     |       |

- 1 Accessible space below the pit (counterweight with safety gear) add 30 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 If side counterweight Q > 630 kg, HUP min = 3,800 mm
  - 5 Please contact engineering team if you need a reduced pit or last floor
- \* Minimum plumb measurements

## Layout



## Customised car dimensions

|           |    | Car width |       |       |       |       |       |       |       |       |       |       |       |                    |     |       |       |       |       |       |       |  |  |
|-----------|----|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-----|-------|-------|-------|-------|-------|-------|--|--|
|           |    | 13        | 13    | 12    | 11    | 10    | 9     | 8     | 8     | 1,400 |       |       |       |                    |     |       |       |       |       |       |       |  |  |
|           |    | 13        | 13    | 12    | 11    | 10    | 9     | 8     | 8     | 6     | 1,300 |       |       |                    |     |       |       |       |       |       |       |  |  |
|           |    | 13        | 12    | 12    | 11    | 10    | 9     | 8     | 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     | 4     | 800   |       |                    |     |       |       |       |       |       |       |  |  |
|           |    | 2,100     | 2,000 | 1,900 | 1,800 | 1,700 | 1,600 | 1,500 | 1,000 | 1,300 | 1,200 | 1,100 | 1,000 | 800                | 900 | 1,000 | 1,100 | 1,200 | 1,300 | 1,400 | 1,500 |  |  |
| 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.

