

**OMEGA**  
ELEVATOR

*Model MCE*



*The elevator that optimizes space and energy*

*Specially designed to be installed  
in existing buildings with reduced  
spaces, both in pit and in shaft and  
headroom*





# The tailor-made solution

## Maximum flexibility and performance

### Main characteristics

Load (kg)	320 / 375 / 450 / 525 / 630 kg		4 / 5 / 6 / 7 / 8 persons
Speed	1,00 m/s		
Travel	Up to 50 meters		
Stops	Up to 16 stops		
Shipments	Single entrance   Two entrance 180°   Two entrance 90°		
Conditioning system	Electric suspension 1:1		
Maneuver	VVVF controlled by electronic board		
Door types	2H and 3H telescopic opening automatic		Swing or semi-automatic
Free passage of doors	700 / 800 / 900 mm (standard)		600 / 650 / 700 / 750 / 800
Door clearance	2.000 / 2.100 mm		2.000 mm
Cabin dimensions	Customized according to project		
Interior cabin height	2.100 mm   2.200 mm		
Feeding	380 (3~)   220 (1~)		

### Technological advantages

#### ECO DESIGN



- Use of gearless motor with permanent magnets without gears or oils; as well as VVVF technology for control
- Timed cab light shutdown
- Low acoustic impact
- Significant reduction in operating costs
- Possibility of accumulating and regenerating energy
- Possibility of single-phase execution

#### CONFORT



- Soft, comfortable and quiet movements for the user
- Starts and stops are progressive and precisely
- The acoustic level of the machine (45 dB) causes that the noise generated in operation is imperceptible to the user

#### SAFETY



- Rescue system and automatic evacuation of the user in case of power failure
- Bidirectional communication system in the cabin
- Protection of passengers by means of infrared curtains when entering the cabin

#### OPTIMIZATION



- Achieving maximum cabin dimensions in minimum gaps
- Less space for mechanics and more space for cabin passengers
- The building will have a greater usable surface for architects, developers and end users



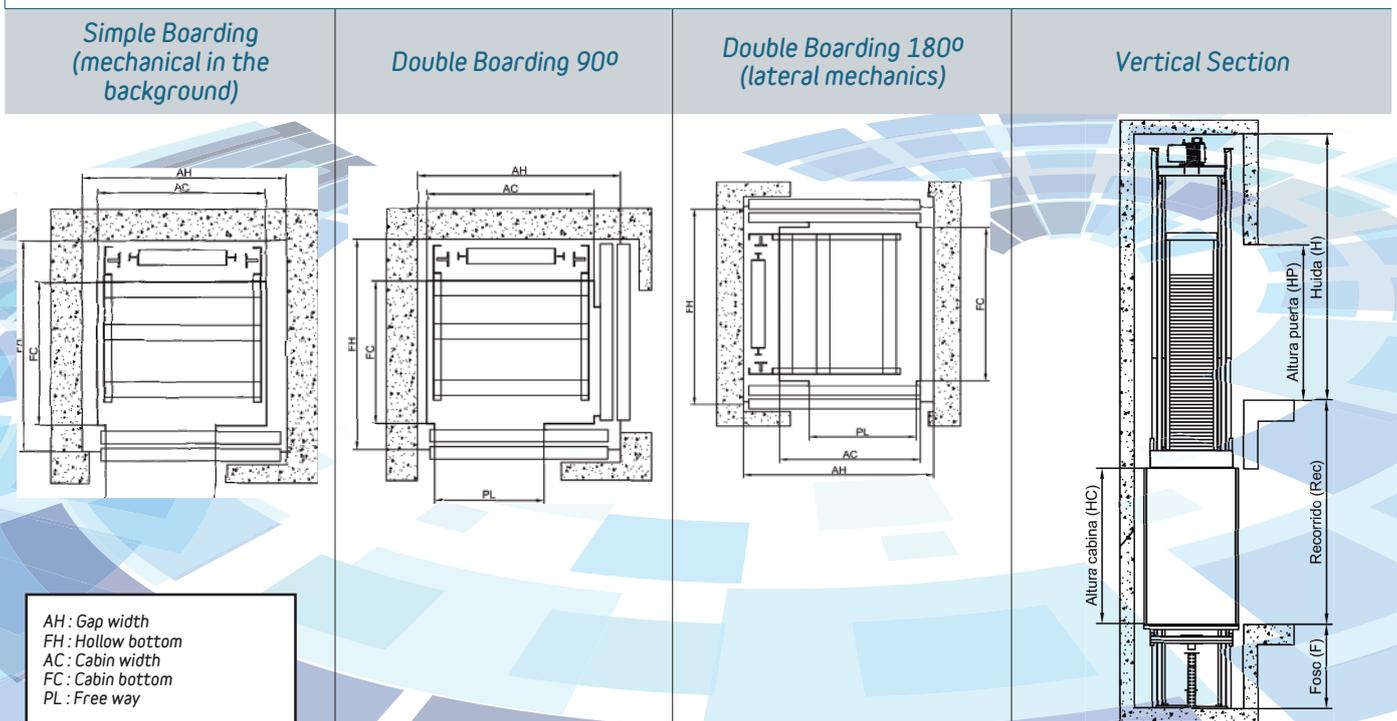
# Standard Dimensions

Single/Double 180 - Lateral Mechanics									
LOAD (KG)	PERSONS	CABIN	SHIPMENT	HOLE	DOOR	PIT	FLIGHT	PIT	FLIGHT
							EN 81-20		EN 81-21
320	4	900 x 1.000	Simple 2 x 180°	1.250 x 1.250 1.250 x 1.350	AT2H-700	1.200	3.600	350	3.600
450	6	1.050 x 1.200	Simple 2 x 180°	1.400 x 1.500 1.400 x 1.600	AT2H-800	1.200	3.600	350	3.600
630	8	1.100 x 1.400	Simple 2 x 180°	1.500 x 1.650 1.500 x 1.800	AT3H-900	1.200	3.600	350	3.600

- 1.- Simple boarding. Hollow bottom with the tread fully resting on the slab
- 2.- Double boarding. Hollow bottom with one tread fully supported on the slab and the other partially flown
- 3.- The cabin dimensions are configurable depending on the existing gap

Double Boarding 90 - Lateral Mechanics									
KG	PERSONS	CABIN	SHIPMENT	HOLE	DOOR	PIT	FLIGHT	PIT	FLIGHT
						EN 81-20		EN 81-21	
320	4	900 x 1.000	2 x 90°	1.470 x 1.350	AT2H-700	1.200	3.600	350	3.600
450	6	1.050 x 1.200	2 x 90°	1.400 x 1.400	AT2H-800	1.200	3.600	350	3.600
630	8	1.100 x 1.400	2 x 90°	1.500 x 1.650	AT2H-900	1.200	3.600	350	3.600

## Setting





# More about the MCE Model

<b>Regulations</b>	<b>The lift complies with :</b>		
	European Directive of lifts 2014/33/UE	EN 81-20	EN81-50
	EN 81-21	EN 81-28	EN 81-70
	EN 12015	EN 12016	
<b>Conditions</b>	<b>Operating</b>		
	Temperature range	of 5-40° in the machinery space according to (EN81-20:2014)	
	Humidity	up to 95%	
<b>Performance</b>			
	Capacity	125% of rated load	
	Stopping accuracy	+/- 5 mm	
	Acceleration	0,5 m/s <sup>2</sup>	
	Deceleration	0,5 m/s <sup>2</sup>	
	Noise level	less than 45dB on landing	
	Start frequency	120 - 180 starts / hour	

## ROPPING

- Ropping 1:1

## MACHINE

- GEARLESS synchronous permanent magnets machine
- Low energetic consumption
- Does not use oil
- Soft running and low noise (45 dB)
- Reduced diameter sheaves 160 mm. according to lifting loads and speeds
- Hardened traction pulley HRC50
- 380V-3 phases (also available in 220 V-1F)

## BRAKE

- Of double effect according to EN 81-20:2014

## ENCODER

- Absolute encoder BISS-C
- Absolute encoder Endat 1313





# Optional

## TIMER CAR LIGHT



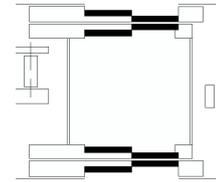
The turning off the car light can be timed so that after a certain time, an there is an automatic shut-off

## MECHANICAL LOCK DEVICE



This is a device that allows the locking of landing doors preventing its opening, unless the car door and the landing door are facing

## SELECTIVE OPENING OF DOORS



Option that allows lift cabins having double entrance on the same floor, to configure the door you want to be open

## FIRE ALARM



When the switch fire or fire sensors are activated, the elevator will return to the designated floor, opening doors and allowing the release of all passengers. All existing calls will be canceled and the elevator will be out of service (according to standard EN 81-73)

## FIRE ALARM



In addition to the fire emergency, the elevator allows it to be used by firefighters to evacuate people. For this, they have a panel for exclusive use that allows the elevator to move using keys and as long as the emergency fire alarm has been activated

## EARTHQUAKE ALARM



When the seismic sensor is activated, the cabin will stop at the next floor, will open doors and remain still with open doors

## AUTOTRANSFORMER



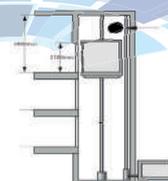
Electrical device that increases the input voltage, maintaining power. It is used to feed 380 V/3F engines or motors when the voltage is 208 V/3F or 220 V/3F

## REDUCED PIT KIT



It is used when it is impossible, for architectural or other issues, to obtain a regular pit for maintenance by qualified personnel. It consists of:  
Mechanical stop / System for detecting people in pit / Retractable spoiler with safety contact

## REDUCED HEADROOM KIT



It is used when it is not possible to obtain superior security space on top of the shaft (headroom). It consists of:  
Mechanical stop / System for detecting people on ceiling



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## OMEGA ELEVATOR

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