

**OMEGA**  
ELEVATOR

*Model MQCH*



*The elevator that optimizes space and energy*

*Specially designed to be installed  
both in existing buildings and in  
new construction buildings*





# The tailor-made solution

## Maximum flexibility and performance

### Main characteristics

Load (kg)	800 / 925 / 1.000 / 1.200 kg		10 / 12 / 13 / 16 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 2:1		
Maneuver	VVVF controlled by electronic board		
Door types	2H and 3H telescopic opening automatic		
Free passage of doors	800 / 900 / 1.000 / 1.100 mm (standard)		
Door clearance	2.000 / 2.100 mm		
Cabin dimensions	Customized according to project		
Interior cabin height	2.100 mm   2.200 mm		
Feeding	380 (3 ~)		

### 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
- Significant reduction in noise in the electrical cabinet as a result of the elimination of contactors

#### 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
- Adapter for cabins with double boarding at 90° (EN 81-70 : 2018)
- The building will have a greater usable surface for architects, developers and end users



# Standard Dimensions

## Simple boarding (very narrow gap) - Mechanics in the background

LOAD (KG)	PERSONS	CABIN	SHIPMENT	HOLE	DOOR	PIT EN 81-20	FLIGHT	PIT EN 81-21	FLIGHT
800	10	1.300 x 1.400	Simple 2 x 180°	1.840 x 1.720 1.840 x 1.850	AT2H - 900	1.200	3.600	450	3.600
925	12	1.400 x 1.500 (*)	Simple 2 x 180°	1.950 x 1.820 1.950 x 1.950	AT2H - 900	1.200	3.600	450	3.600
1.000	13	1.400 x 1.600	Simple 2 x 180°	1.950 x 1.920 1.950 x 2.050	AT2H - 900	1.200	3.600	450	3.600

(\*) Cabin type 4 (EN 81-70 : 2018)

## Double Boarding 90° - Lateral Mechanics

KG	PERSONS	CABIN	SHIPMENT	HOLE	DOOR	PIT EN 81-20	FLIGHT	PIT EN 81-21	FLIGHT
800	10	1.300 x 1.400	2 x 90°	1.950 x 1.800	AT2H-900	1.200	3.600	450	3.600
900	12	1.400 x 1.500	2 x 90°	2.050 x 1.900	AT2H-900	1.200	3.600	450	3.600
1.000	13	1.400 x 1.600 (*)	2 x 90°	2.050 x 2.000	AT2H-900	1.200	3.600	450	3.600
1.200	16	1.500 x 1.800	2 x 90°	2.200 x 2.200	AT2H-1.100	1.200	3.600	450	3.600

(\*) Cabin type 4 (EN 81-70 : 2018)

## Setting

Simple Boarding (mechanical in the background)	Double Boarding 90°	Double Boarding 180° (lateral mechanics)	Vertical Section

AH : Gap width  
FH : Hollow bottom  
AC : Cabin width  
FC : Cabin bottom  
PL : Free way



# More about the MQCH Model

Regulations	The lift complies with :		
	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	
Conditions	Operating		
	Temperature range	of 5-40° in the machinery space according to ( EN81-20:2014 )	
	Humidity	up to 95%	
Performance			
	Capacity	125% of rated load	
	Stopping accuracy	+/- 5 mm	
	Acceleration	0,5 m/s²	
	Deceleration	0,5 m/s²	
	Noise level	less than 45dB on landing	
	Start frequency	120 - 180 starts / hour	

## ROPPING

- Ropping 2:1

## MACHINE

- GEARLESS synchronous permanent magnets machine
- Low energetic consumption
- Does not use oil
- Soft running and low noise (45 dB)
- Reduced diameter sheaves 240 mm.
- Hardened traction pulley HRC50
- 380V-3 phases

## BRAKE

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

## ENCODER

- Absolute encoder BISS-C
- Absolute encoder Endat 1313





# Optional

## TIMER CAR LIGHT



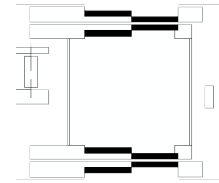
The turning off the car light can be timed so that after a certain time, an there is an auto-matic shut-off

## 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



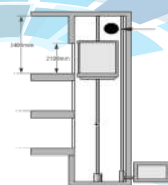
Electrical device that increases the input voltage, maintaining power. It is used to feed 380 V/3F engines or motors when the voltage is 208 V/3F or 220 V/3F

## REDUCED PIT KIT



It is used when it is impossible, for architectural or other issues, to obtain a regulatory pit for maintenance by qualified personnel. It is 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 is consists of:  
Mechanical stop / System for detecting people on ceiling





**OMEGA**  
ELEVATOR



FLIGHT

## OMEGA ELEVATOR

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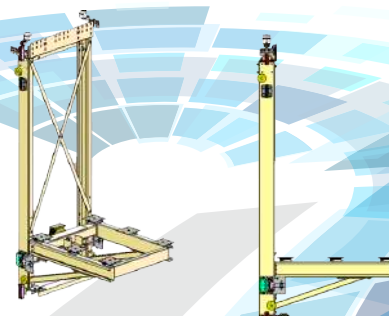
COUNTERWEIGHT  
CHASSIS



PIT



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