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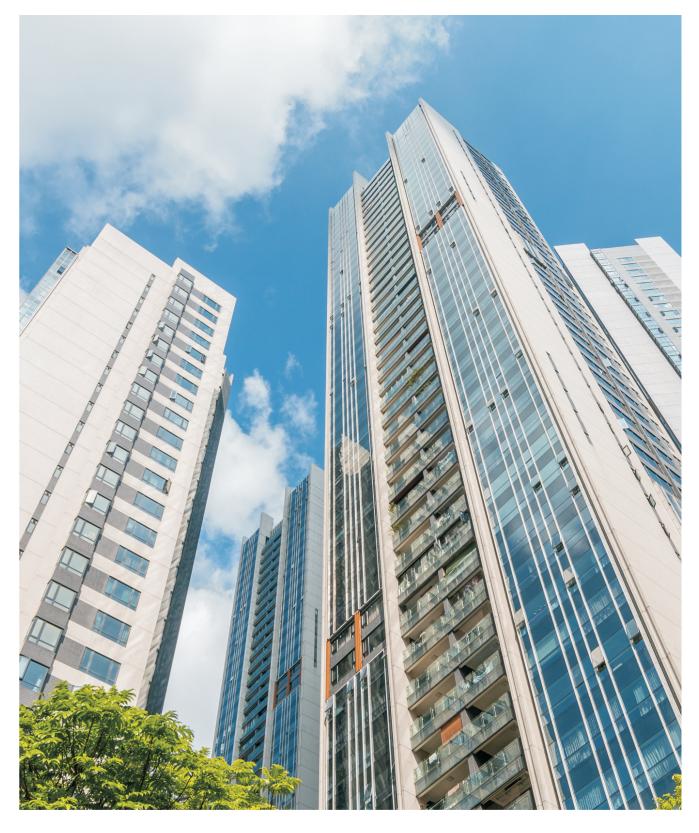


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# JOYMORE-7 Machine Roomless Passenger Elevator

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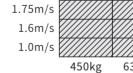
# Innovation Pays Tribute to Design

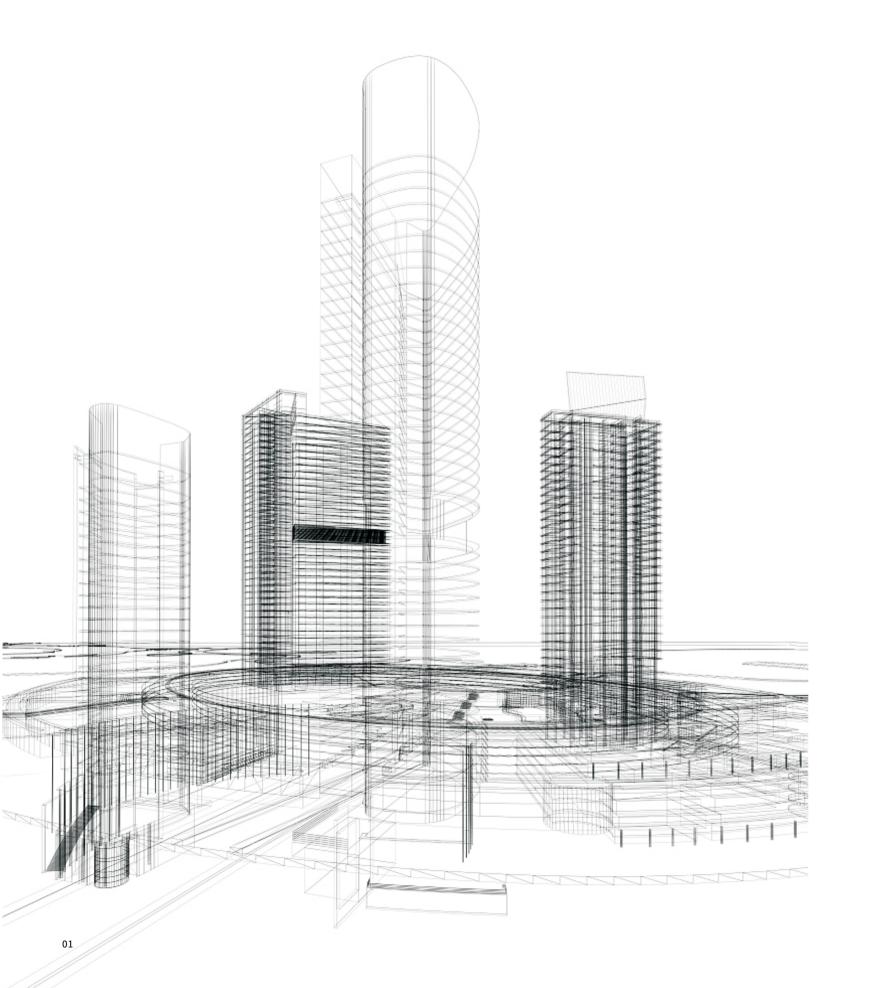
## Pay Tribute to Architects for a Better Life

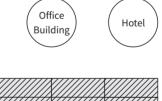
IFE JOYMORE-7 Machine Roomless Passenger Elevator is a leading technology that combines people-oriented design concepts to improve the utilization of the hoistway, reduce the overhead height and pit depth, meanwhile meeting the requirements of safety and comfort, providing flexible building vertical traffic solutions for architectural design.











		X////////
30kg	800kg	1050kg

## High hoistway utilization, Reduce construction costs

# Space Saving, Flexible Layout

# The minimum overhead height is 3500mm, and the smallest pit depth is 1100mm

It meets the minimum overhead height of 3,500 mm and the smallest pit depth of 1,100 mm, saving construction costs and perfecting the architectural space aesthetics.



#### High hoistway utilization and smaller footprint

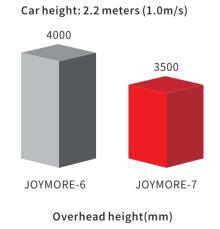
The JOYMORE-7 hoistway has high utilization rate, greatly improving utilization of building space and giving more freedom to building design.

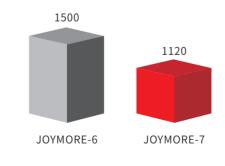
#### Flexible layout reduces construction costs

Flexible layout reduces overhead height and pit depth, making civil construction more flexible, effectively reducing construction costs, modern architecture wisdom preferred.

#### Easy installation and improved efficiency

The JOYMORE-7 machine roomless passenger elevator is structurally compact and light, easy to install and maintain, improves installation efficiency.





Pit depth(mm)





# Careful and Comfortable



## Intelligent light curtain configuration to protect passengers safely on delivery

Adhering to the "people-oriented" design philosophy, barrier-free concept is subtly influenced by industrial details. JOYMORE-7 forms a dense infrared cross-light curtain at the entrance of elevator, which can respond sharply to people or objects entering its detection area to protect passengers boarding safely.

#### Direct docking technology for smooth and comfortable operation

Passengers walk out of car as on flat land, direct docking, accurate positioning, to ensure elevator stay in optimal operation at all times, creating a free and comfortable living space.

#### Noise reduction device, quiet and comfortable ride experience

Strictly selected materials, innovative technology, non-contact magnetic induction technology, eliminate collision noise of terminal station switches, achieve forced speed change without noise and vibration, noise reduction device to create quiet and comfortable ride.

# Safety Escort, Human Experience

## Patent UCMP function to prevent accidental movement of car Patent No.: ZL201320606488.3

Car accidental movement protection device prevents car from accidentally moving without command in door opening area to protect passengers safely.

### **CANBUS** serial communication to improve elevator stability

Extensive application of CANBUS communication technology in aviation and automotive industries, comprehensively enhance the system response speed and stability, and control system efficiently and stably.

## Traction rope anti-loose detection, provides better security guard Patent No.: ZL201420470694.0

Traction rope anti-loose detection device detects whole process timely, when the traction rope is slack, elevator stops running immediately to ensure safe ride.

#### Intelligent maintenance, safe medical examination

Detect elevator operation and provides protection in whole process. Intelligent safety system accurately records fault and informs fault code to improve maintenance efficiency and bring convenience to maintenance staff.



06



# Energy Efficient, Green Living



German TüV energy efficiency certification, leading low carbon life Germany TüV energy-saving energy efficiency test and evaluation, obtained VDI 4707 PART1 highest level A-level energy-saving certification, achieved elevator energy-saving pioneer, leading low-carbon life.





# EU electromagnetic compatibility EMC standard, safety and intimate protection

Electromagnetic compatibility means that electronic equipment does not cause electromagnetic interference to other equipment during operation. EU CE certification, meet EMC's electromagnetic compatibility and environmental protection standards, low radiation without electromagnetic pollution, offering passengers green security protection.

1		
(	<u>با</u>	-
	LED	

## Intelligent control system saves more energy

IFE responds to green environmental protection requirement. When no one is taking the elevator, the intelligent control system can automatically switch the lighting and ventilation to standby mode to create a green-driven elevator.



## Energy feedback system (Optional)

Energy feedback system can be customized to input electric energy from the motor into grid or to other electrical equipment to use, which can save more than 30% energy. Meanwhile, energy feedback system extends service lifespan of elevator other electrical equipments and can reduce temperature of machine room.

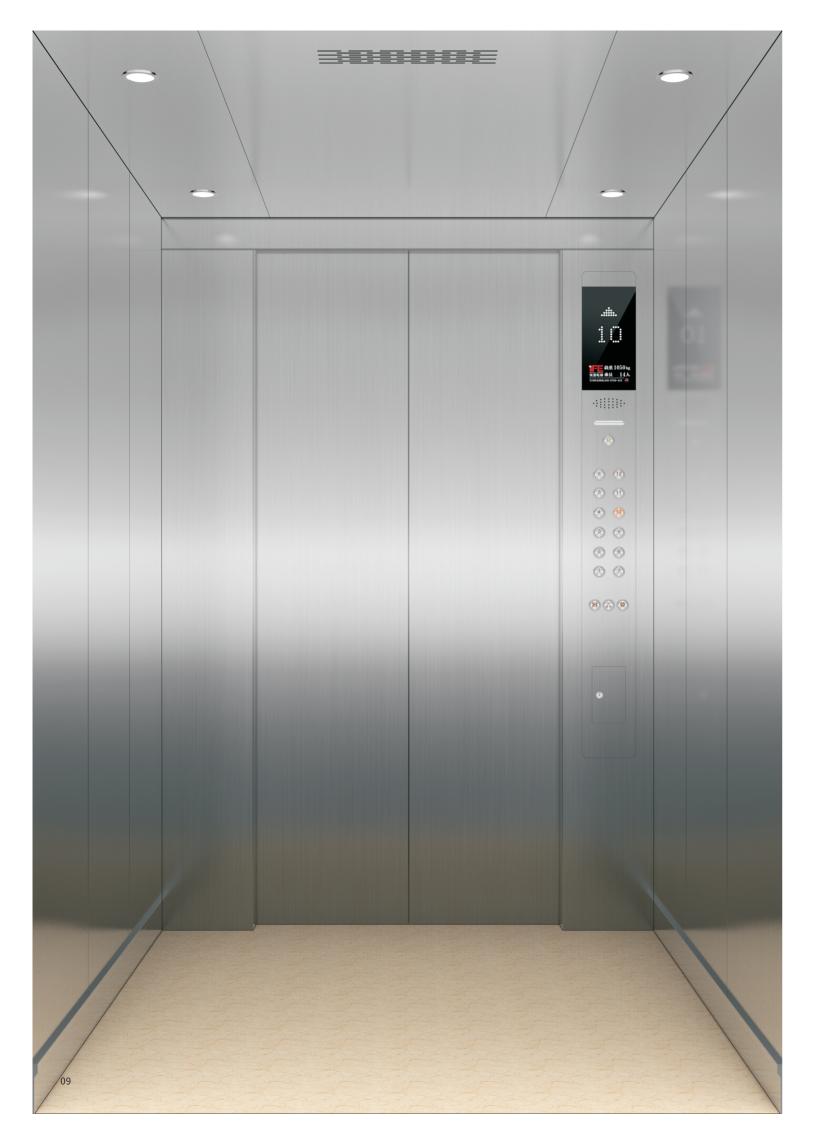


## Environmentally friendly drive system, energy saving up to 45%

Innovatively uses permanent magnet synchronous traction machine to drive elevator to improve operation efficiency, low starting current, small volume and low noise. Compared with the worm gear driven elevator, energy saving is 40~45%, noise is reduced by 5~10dB(A).



A Highest Level



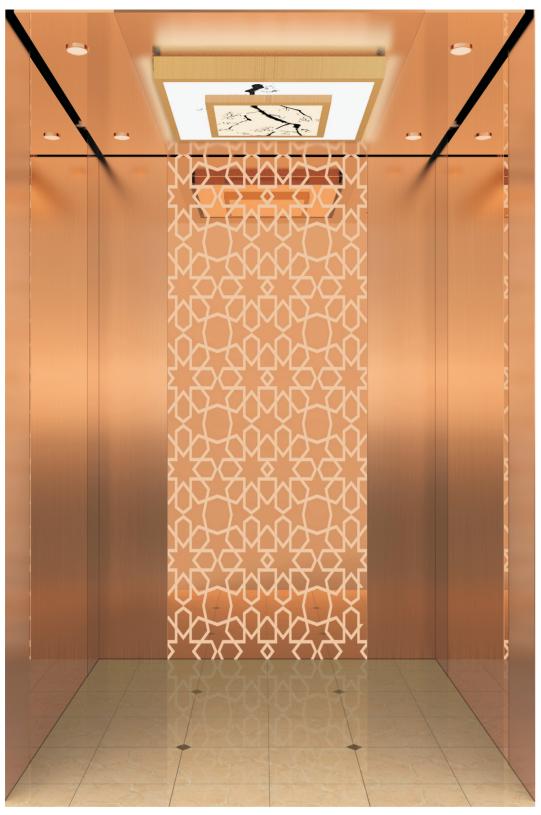
**Standard Configuration** Enjoy a different space experience while being comfortable and warm, clean, tidy and easy to maintain.





#### CAR75-06

COP: COP34-00 Hairline stainless steel / dark gray plexiglass / white dot matrix display Ceiling: C60-00 Hairline stainless steel / LED ceiling light Car wall: CW03-00 Hairline stainless steel Car door: L01-00 Hairline stainless steel Floor: F01-00 Wear-resistant PVC



## CAR90-06(Optional)

Ceiling: C61-05 Hairline stainless steel plated rose gold / mirror stainless steel plated rose gold / LED ceiling light / antique ceiling lamp

Car wall: CW04-08 Hairline stainless steel plated rose gold on both walls of side wall/ intermediate mirror stainless steel plated rose gold

- Hairline stainless steel plated rose gold on both walls of back side/ intermediate mirror stainless steel etched rose gold on both sides of the back wall
- Front wall hairline stainless steel plated rose gold

Car door: L01-09 Hairline stainless steel plated rose gold

Floor: F01-10 Wear-resistant PVC

Note: Antique ceiling lamps are seasonal and popular products. Specific styles are subject to popular styles in the current market. There is a slight difference between the physical objects and the effects. The final interpretation right belongs to our company.



## CAR80-02(Optional)

Ceiling: C99-09 Hairline stainless steel / LED ceiling light / mirror stainless steel etching Front wall: Hairline stainless steel Side wall: CW01-05 Two-sided hairline stainless steel / intermediate mirror stainless steel etching Rear wall: Two-sided hairline stainless steel / intermediate mirror stainless steel etching Car door: L01-00 hairline stainless steel Floor: F01-01 Wear-resistant PVC

# **Decoration Configuration**

COP, Display, HOP (Standard +Optional Configuration)





6 12

5 (11)

(4) (10)

3 9

2 8





HOP37-00 (Standard Configuration) Panel: Hairline Stainless Steel Dark grey plexiglass Display: White dot matrix



COP34-00 (Standard configuration)

Panel: Hairline Stainless Steel Display: White dot matrix

COP35-00 (Optional configuration)

Panel: Hairline Stainless Steel Display: White segment code LCD





LCDP070 (Optional Configuration)

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Picture machine LCD display Display size: 7 inches (154\*86mm)

> HOP38-00 (Optional configuration) Panel: Hairline Stainless Steel Dark grey plexiglass Display: White segment code LCD

HOP39-00(Optional configuration)

Panel: Hairline stainless steel Dark gray plexiglass Display: White dot matrix

## Ceiling(Standard +Optional Configuration)

Use the following ceiling style, hoistway overhead height should be ≥3700mm



C22-00 Hairline stainless steel / LED ceiling light Note: C22 ceiling is not suitable for deep car



C08-00 Hairline stainless steel/LED ceiling light /Translucent Acrylic Tubes



C16-00 Hairline stainless steel / PC light plate / LED ceiling light

### PVC Floor (Standard +Optional Configuration)





F01-00(Standard)

F01-03(Optional)

13



C17-00 Hairline stainless steel / Acrylic light transmission column / PC light transmission board



**C99-09** Hairline stainless steel/LED ceiling light /mirror stainless steel etching



C21-00 Hairline stainless steel / Translucent Acrylic Tubes / LED ceiling light

Note: C21 ceiling is not suitable for deep car





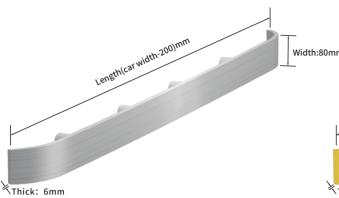
F01-04(Optional)

F01-05(Optional)

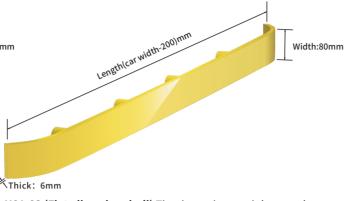


F01-07(Optional)

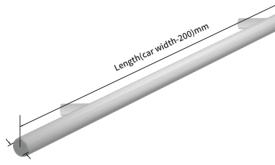
## Handrail (Optional Configuration)



H01-00 (Flat elbow handrail) Hairline stainless steel H01-01 (Flat elbow handrail) Mirror stainless steel



H01-02 (Flat elbow handrail) Titanium mirror stainless steel



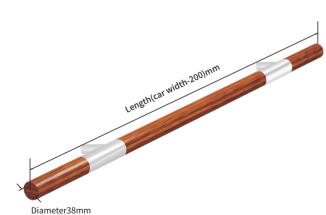
Diameter38mm

H05-00 (Cylindrical handrail) Hairline stainless steel H05-01 (Cylindrical handrail) Mirror stainless steel

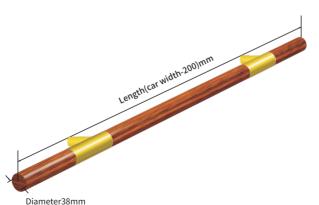


. Diameter38mm

H05-02 (Cylindrical handrail) Titanium mirror stainless steel



H06-00(Wooden cylindrical handrail) Black walnut wood cylinder+ Mirror stainless steel bracket



H06-01(Wooden cylindrical handrail) Black walnut wood cylinder + titanium mirror stainless steel bracket

## Landing Door and Jamb (Standard+ Optional Configuration)



Landing door:L01-00 (Standard) Hairline stainless steel (first floor )Landing door: L02-02 (Optional) Mirror stainless steel etchingL01-05 (Standard) Steel plate sprayed matt grey(other floor )Jamb: LDJ01-00 (Standard) Hairline stainless steel (first floor )LDJ01-01(Standard) Steel plate sprayed matt grey (other floor )Jamb: LDJ01-01 (Standard) Steel plate sprayed matt grey (other floor )



Landing door: L02-06 (Optional) Mirror stainless steel etching Jamb: LDJ01-00 (Standard) Hairline stainless steel





Landing door: L02-08(Optional) Mirror stainless steel etching Jamb: LDJ01-00(Standard) Hairline stainless steel

# **JOYMORE-7** Passenger Elevator

#### **BASIC FUNCTION**

### **BASIC FUNCTION**

#### Operation Function

01	Full Selective Collection	Collect at the calling signals to answer selectively based on the signal control system
02	Full Load By-pass	No response to the hall calling signal when the lift is at full load in automatic mode, but only answers the car calling signal
03	Car Call Reset	Double click the COP button to cancel the wrong command to achieve car call reset
04	Door Open / Close Button	Micro buttons on the cop to control the door open/close so that passengers could handle the open /close timing flexibly
05	Door Open /Close Button Light	Door open/close button light lights up to indicate the successful answer
06	Resume Operation in Power Supply	When the position signal is failed to retain or not sure about the elevator position after a power failure, the elevator would go to the end floor to re-position and be back to normal running
07	Automatic Home Landing	The elevator would be back to base floor to stand by under automatic condition if there is no calling command within the setting time
08	Anti-nuisance Car Call Protection	The computer detects the load and number of car calling registration then judges the command by logic. All signals will cancel if the command is not quite normal
09	Door Reopening by Landing Call	Push the HOP button same as the elevator going direction when the door is closing, then the door will reopen
10	Torque Compensation in Start	The system will calculate as per the load in elevator and optimize the torque compensation to give more comfort when the elevator starts
11	Direct Landing Technology	Micro-computer controller automatically calculates the optimum speed profile according to the target floor distance and directly lands without crawling

#### Safety Function

12	Safety Loop Protection	When the elevator falls, elevator microcomputer control system will report the fault code based open the preset fault code to bring convenience to maintenance staff
13	Absent or Mistaken Epsilon Phase Device	When the power supply is off phase or phase sequence is wrong, system safety circuit will be disconnected and the elevator will stop running
14	Overload Protection	When the car is loaded beyond the rated load, overloading buzzer will sound to alert. At this moment, the door is not closing and the elevators is not working
15	Safety Curtain with Multiple Light Beams	System forms dense infrared across the door. When a person or object enters the detection area, the system will response sharply in order to protect passengers from the risk of door
16	Door Reverse	The door is subjected to a reverse resistance exceeding the preset torque value when it is closing, the elevator will reopen

Safety Function
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17	Door Interlock Protection	When the landing door normally only when the
18	Landing Zone Guard	For safety reason, the ca
19	Downward Over Speed Protection	When the downward sp the safety circuit will be
20	Upward Over Speed Protection	When the upward speed safety circuit will be cut
21	Reversal Movement Guard	When the system detect the car stops immediate
22	Brake Guard	Brake relay signals are l actual states is inconsis
23	Contractor Non-releasing Protection	No matter the elevator i to a preset value, the sy
24	Speed Limited Switching in Terminator	When the elevator pass the contractor conditio operating
25	Buffer Safety Protection	When the elevator pass buffer will star the prote
26	Microcomputer self-check Protection	The system scans the in will stop starting if the c
27	Anti-locked-rotor Feature of Motor	If the traction machine operating and it exceed
28	Fault Storage	The computer stores the and maintenance staff f
29	Star Closure Method	When the brake fails an the permanent magnet state. It drives the eleva to ensure the safety of
30	Hoisting Rope Anti-loose Detection	The hoisting rope is und multiple hoisting ropes
31	Hoisting Rope Anti-loose Detection	The hoisting rope is und multiple hoisting ropes
32	Brake Monitoring Device	Brake monitoring devic reliable If they are incor brake fault detection , s
33	UCMP	When the elevator is sto closed, the car is uninte stop if the UCMP dashbe

r and car door are both in normally closed status, the elevator will operates the control system judges the elevator is normal

car door cannot open in the non-leveling area

peed of elevator exceeds a specified speed, the governor will take action and be cut off while safety gear brakes, then the car stops on the guide-rail

ed of elevator exceeds a specified speed, the governor will take action and the it off while the action machine brakes, then the car stops

cts the actual running direction is inconsistent with the specified direction, tely and alarms

being monitored in the entire process, when the brake relay finds the istent with the specified command, the system will stop the elevator operating

r is running to the terminal station and the operating speed is not reduced ystem will be forced to slow down to ensure the safe operation of elevator

ses over the terminal nation and the operating state, the system will output on. Once, the contractor is in abnormal state, the system will stop the elevator

ses over the terminal floor for some reason, car buffer and counterweight tection and the safety circuit will be cut off in the meantime

nput and output points of controller before the start of elevator. The elevator data is abnormal

e does not run due to mechanical jamming when the elevator is starting ds the preset timing, the system will stops the elevator operating

he accidental record of elevator. It can be supplied to elevator manufacturers for statistical analysis

nd leads to an unintended movement of elevator, the three-phase winding of tic synchronous motor will be in short circuit and turn to power generation vator running at the speed of 0.1m/s and eliminates the risk of high-speed slip f passengers

der real-time detection during the elevator operation and when single or s are detected to be stack relaxation, the elevator stops immediately

nder real-time detection during the elevator operation and when single or s are detected to be stack relaxation, the elevator stops immediately

ce detects if the left and right sides of the brake action are consistent or onsistent or unreliable, the control system will automatically report to the so that the motor stops running to prevent the traction machine brake failure

copping at the leveling floor and the landing door or the car door is not totally rended moving t and leaves the lock open area, then the elevator is forced to poard detects danger signals so that it protects the passengers

# JOYMORE-7 Passenger Elevator

## **BASIC FUNCTION**

#### Special Operation

34	Attendant Operation	By opening the switch in COP, the elevator will be turned into the attendant operation state so the driver may manage the number of passengers in the car, hall call response and opening/closing doors
35	By-pass Switch	After entering the driver operation state, pressing by-pass button before the start, the elevator does not respond external call in the next course of operation, and goes straight to the floor with the registration by drivers operating instructions in the car
36	Buzzer	When the elevator is the drive operation state, buzzer will sound to alert the drives that someone is calling if it is registered by external call
37	Independent Service	The dedicated operation function, when the elevator no longer responds to the call signal outside the hall, but can only be manually controlled to open and close the door
38	Main Floor Setting	According to site requirements by setting the main station based on basic parameters, the elevator will return to the preset floor when it exceeds a specified timing without any operations
39	Firefighting Floor Settings	According to site requirements by setting fire man service floor based on the basic parameters, the elevator will land to the preset floor when inputting the fireman service signal
40	Inspection Operation	Pressing direction buttons on the junction box at car top to control the elevator to go forwards the direction selected or opening closing buttons to control the operation of doors makes the maintenance faster and more convenient
41	Flexible Car Park Set	Clients can decide the elevator stops or not on a specified floor

#### Interface

42	LED Display Inside the Car	LED simply on the COP shows the information about floors and directions
43	Hall LED Display on the First Floor	Hall LED display shows the information about floors and directions
44	Floor Mark Flexible Set	The type of words special floors can be customized regarding to the requirements
45	Arrival Chime	Arrival chime will sound when the elevator is arriving at a certain floor
46	Braille button	Braille buttons are used in the control panel and buzzer of the car for the convenience of the blind and the passengers with poor eyesight

#### Emergency Function

47	Car Alarm	For passengers to notify outside world in time by connecting alarm button in the car under special circumstances
48	Emergency Lighting	Emergency lighting devices installed in car will be used when power failure occurs
49	Inside Call Device	Realize five-way communication among car, bottom pit, car roof, engine room and monitoring center. Customers provide cable from the monitoring center to the first floor of the elevator Specification: 4x0.75mm <sup>2</sup> (for distances less than 1800m)

#### **BASIC FUNCTION**

#### Emergency Function

50	Fire Emergency Landing	Elevator will cancel all cal fire signal. It will also keep normal use when the fire s
51	Fire Emergency Landing Feedback	The system will give a signal and is waiting for the operat fire man service floor
52	Emergency Rescue	When the safety gear, oil b operating the emergency to swiftly save people

#### Energy Saving Function

53	Parking Service	The parking stop switch, w to the lock landing after ar state
54	Energy Standby	Under the circumstance w on/off mode within the pre

#### **OPTIONAL FUNCTION**

	OPTIONAL FUNCTION	
01	Voice Announcement	Voice announcement will
02	Auto Rescue Device	When the elevator sudder elevator slowly operate to
03	Power Regeneration Device	Elevators' reciprocating l energy and kinetic energy energy and kinetic energy frequency, then they feed
04	Multiple Operation	When two elevators are u operational efficiency via
05	Group Control Operation	Group control system is c automatically select the r shorten the waiting time
06	Monitoring system	A microcomputer intellig in community and provid
07	IC Card Management	passengers can only call t
08	Sub-COP	It is convenient for passe

lling signals and go straight to the fire man service floor after receiving the p the door opening and wait for the operation of fire man. It will return to signal is canceled

al to the management center to indicate the elevator has received the fire signal ition of firemen after the elevator receiving the fire signal and being back to the

buffer ,upper limit switch, lower limit switch and governor take action, rescue function in the control panel makes the elevator run slowly in order

when the key switch is set on the designated floor, the elevator will return answering all the instructions, and close the door to enter the energy-saving

without any operation instructions, the elevator will enter automatic turn reset timing and closing door, turning off the lights and fans inside the car

ll sound when the elevator arriving at station

enly stop during normal operation, the device immediately work and drive to the nearest floor, then elevator open door to rescue passenger

lifting and repeated braking respectively result in an elevator potential gy released. When using power regeneration device, the release or potential gy from elevator are converted to electrical energy in phase with the same dback to the grid so as to achieve energy-saving purpose

using together, achieving co-ordination of hall call instructions to improve a serial communication to transfer data

capable of 3 to 8 elevators for centralized control, so the elevator group can most appropriate response, to avoid repeating the stops of elevator and to e of passengers, improving operational efficiency, saving energy

gent management system that can comprehensively monitor the elevator de the data to building functional management

the elevator by swiping the card (authorized by the elevator owner)

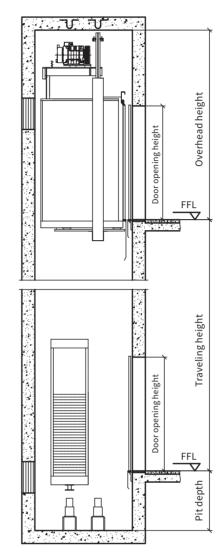
engers to choose floor in the cabin

# JOYMORE-7 Technical Specification

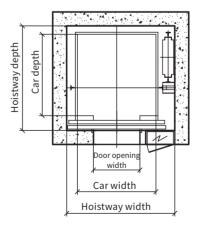
NO.	Specification		450		630			800			1050				
01	Capacity(kg)		450		630			800			1050				
02	Speed(m/s)		1.0	1.6	1.75	1.0	1.6	1.75	1.0	1.6	1.75	1.0	1.6	1.75	
03	Operation System		Full collective selection operation												
04	Driving System		VVVF Driving												
05	Door Operator System		VVVF Door Control												
06	Traction machine		PM/Gearless												
07	Control System		CTRL80												
08	Сог	nmunication	Serial Communication												
	Central	Car Size(mm) (width*depth*height)	unsuitable		1100*1400*2200			1350*1400*2200			1400*1600*2200				
09	Opening Width	Opening Size(mm) (width*height)	unsuitable		800*2100			800*2100			900*2100				
	Car	Shaft Size(mm) (width*depth)	unsuitable			1770*1800			1920*1800			2000*2000			
		Car Size(mm) (width*depth*height)	unsuitable			unsuitable			unsuitable			1100*2100*2200			
10	Central Opening Deep Car	Opening Size(mm) (width*height)	unsuitable			unsuitable			unsuitable			800*2100			
		Shaft Size(mm) (width*depth)	unsuitable			unsuitable			unsuitable			1800*2500			
11		Car Size(mm) (width*depth*height)	1000*1200*2200		1100*1400*2200			1350*1400*2200			1100*2100*2200				
	Side Opening	Opening Size(mm) (width*height)	800*2100		800*2100			900*2100			900*2100				
		Shaft Size(mm) (width*depth)	1570*1600		1670*1800			1920*1800			1700*2500				
12	Travel Height(m)		≪45	≤	75	≪45	≤	75	≪45	≤	75	≪45	<	75	
13	Motor Position		Inside the shaft												
14	Overhead Height(mm)		3500	37	00	3500	37	00	3500	37	00	3500	37	00	
15	Pit Depth(mm)		1120	12	230	1120	12	30	1120	12	30	1120	12	30	
16	Power Supply & Min.Wiring Requirement		380V,50Hz,3-phase 5-wire,zero wire and ground separated,Grounding resistance≤4Ω, see requirements on hoistway plan drawing												
			3*6mm <sup>2</sup> + 2*6mm <sup>2</sup>	3*10mm <sup>2</sup>	<sup>2</sup> +2*6mm <sup>2</sup>	3*6mm <sup>2</sup> + 2*6mm <sup>2</sup>	3*10mm <sup>2</sup>	+2*6mm <sup>2</sup>	3*6mm <sup>2</sup> + 2*6mm <sup>2</sup>	3*10mm <sup>2</sup>	+2*6mm <sup>2</sup>	3*6mm <sup>2</sup> + 2*6mm <sup>2</sup>	3*10mm <sup>2</sup>	+2*6mm <sup>2</sup>	

Note: 1. Deep car is used for specified application, such as for stretcher delivery in evacuation occasions.

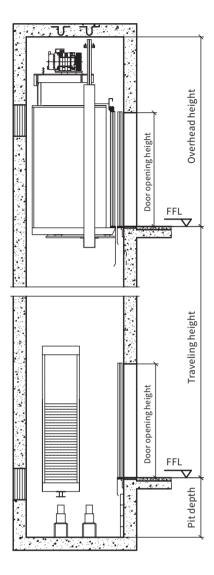
2.Car height is 2200mm, Refers to the height of the car floor to the car roof. Optional rest of the ceiling to be increased accordingly tall top. 3.If dual opening, cover plate needed in the pit. center opening hoistway plan



#### center opening hoistway layout profile



#### Side opening hoistway plan



#### Side opening hoistway layout profile

