

## Global Service Network-Overseas Area

**M/s IFE MIDDLE EAST ELEVATORS LLC**  
Tel: +971(0)42505888 Email: ae@ifelift.com  
Address: 502# Saphire Tower, Ittihad Road ,Deira Dubai, UAE

**IFE Elevators & Escalators (Australia) Pty Ltd**  
Tel: +61(0)8 9202 4666 Email: au@ifelift.com  
Address: 36 Beringarra Avenue Malaga WA 6090

**IFE ELEVATORS LANKA**  
Tel: +94112686867 Email: SI@ifelift.com  
Address: 158/9 Lake Drive colombo 08 Sri lanka

**PT.IFE ELEVATORS INDONESIA**  
Tel: +62 21 22604802 Email: ifeindo@ifelift.com  
Address: The Mansion Dukuh Golf Kemayoran Tower Fontana Lt.21 Unit L2 & m2,  
JI Trembesi Blok D4 Pademangan Timur Pademangan Jakarta Utara Dki Jakarta 14410

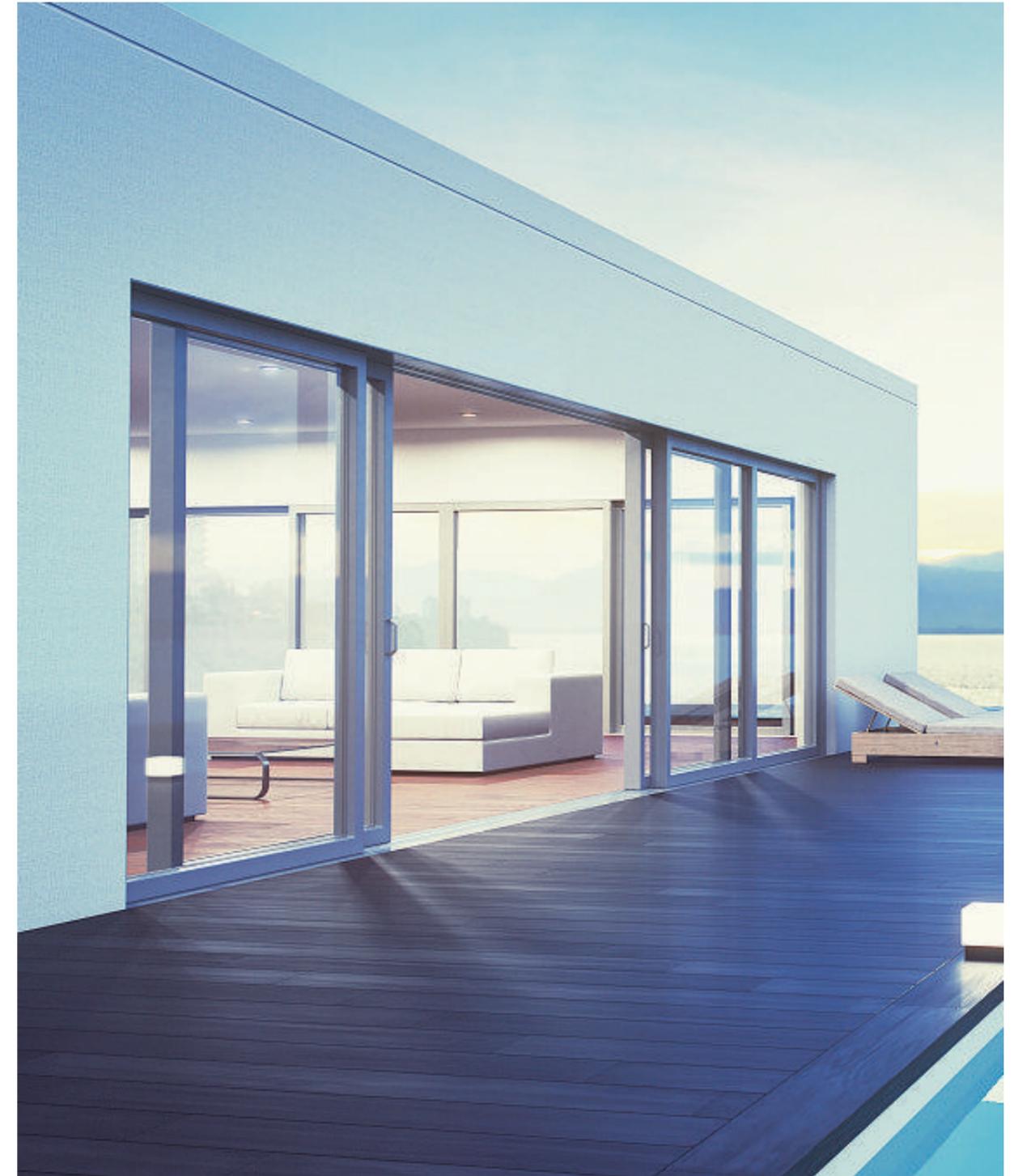


### IFE ELEVATORS CO.,LTD

China Factory: Qingxi Town, Dongguan City, Guangdong  
Tel: +86-769-82078888 Fax: +86-769-87732448  
Hotline: 400-6789-443 Website: www.ife.cn

The image and content are just for you reference and please be subject to the actual products. Please pardon us for not informing you in advance if anything updated.  
Please contact IFE for details.

201901 © All Rights Reserved @ IFE



## JOYMORE-HL Home Lift VILLUX villa Elevator

Trusted by the World  
Stock code: 002774





## IFE | Villa Elevator Key Project · Appreciation

### Changdao, Zhongan

Zhongan Changdao, located in Sanxikou, Caijia, Chongqing, is the "Golden Triangle" at the junction of the northern New area, Shapingba and Beibei. As one of the 11 outer groups planned by Chongqing, Caijia Group will be built into an ecological garden city and a high-quality residential area, which will become a new economic highland in Chongqing. Changdao Zhongan is rich in natural resources such as rivers, mountains, lakes, islands and hot springs, which is extremely scarce in whole country. The 400,000 square meter villa community is located between Jialing River and Jade Lake; the community has 2000 meters of unblocked river shoreline; beside the 400,000 square meter Jade Lake, the living water of the two main streams keeps the water quality clear, and the mountains are separated from each other. The original woodlands are picturesque, with thousands of Mu golf courses fluctuating beside the community, with a wide view, fresh air and natural hot springs rich in various minerals. These are beautiful views you can enjoy at home.

At present, 200 units IFE Villa Elevators are selected.

# Classic Case

Every project is the footprint of IFE development! Every progress is a monument to architecture! Ten years of glorious experience, tens of thousands of examples have witnessed the IFE Elevator's contributions to the world's construction industry. Every day, tens of millions of people enjoy the comfortable enjoyment of IFE quality. Numberless well-known buildings in the world are better known for their use of IFE elevators. In the future, more projects will be built integrated with the efforts of IFE Elevator.



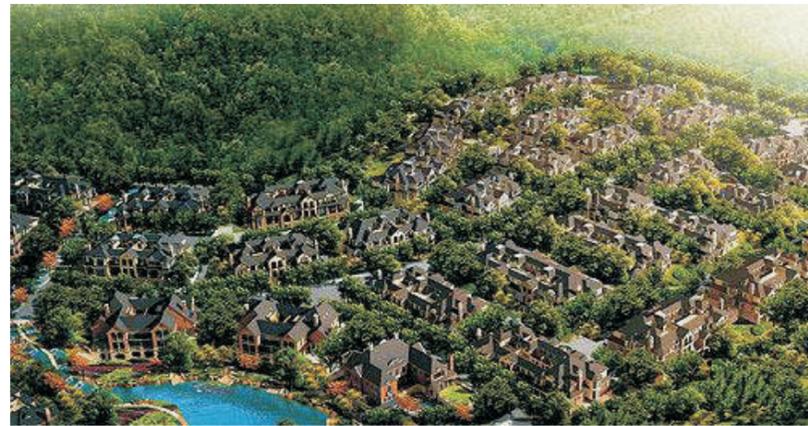
Hong Kong Hutchison Whampoa Group - Hai Yi Hao Ting



Guangdong Guangda Group-Dongguan Tianjiao Yufeng Garden



Xingtai Xingyao Real Estate Development Co., Ltd. (Sunshine Shangcheng)



Shenzhen Shuixiehuadu Real Estate Development Co., Ltd. - Leimeng Shuixieshan Garden



Hainan Coconut Wind Haiyun Garden



Kaifeng Zhengkai BiguiGarden



Pangkor Laut Villa, Malaysia



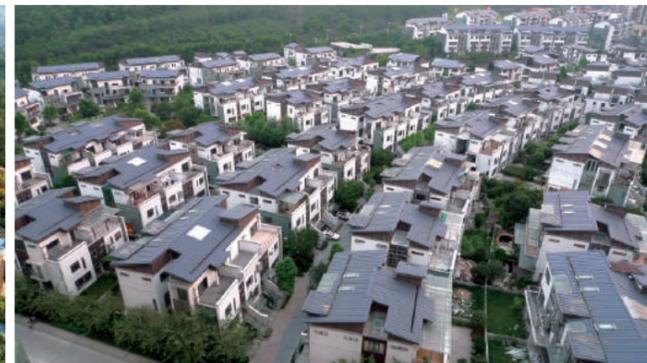
Balin Villa, Middle East



Huojianjun Beidaihe Recreation Home



Cangzhou Wansheng Real Estate Development Co., Ltd. (Luohuying County)



Shanxi Guxing Real Estate Development Co., Ltd. - Guzhai Villa



Ningxia Tianehu Garden Villa



Jiujiang Yulong Industrial Co., Ltd. (Yulong Hupan Garden)



## Safe Escort Human Experience

### CANBUS series communication, elevator operation stability improvement

CANBUS communication technology is widely used in aviation, automobile industry, now luxuriously joins in villa elevator series of camp to improve respond speed and stability of system, the control system is efficient and stable.

### Intelligent maintenance, safety inspection

Full detecting and implementing protection during elevator operation, intelligent safety system records failures accurately and informs the fault code to improve the efficiency of maintenance and facilitate maintenance personnel for maintenance.

### One emergency button, full contact

When press the Car emergency button and notify the property duty room, system will send a message to the designated mobile phone and call maintenance, family and friends. The security is completely safe.

### Intelligent light curtain configuration, firm family member protection

Adhering to the "safety-oriented" design concept, a dense infrared cross-light curtain is formed at the entrance of elevator to protect the safety of passengers using the elevator. It is especially suitable for children and the elderly with inconvenient hands and feet.

### No trap on power failure, smooth elevator ride

After blackout, the Automatic Rescue Device will start automatically to carry passengers to the nearest floor, eliminating passengers' fear and discomfort.

### 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, in line with EMC's electro magnetic compatibility and environmental protection standards, low radiation without electro magnetic pollution, giving passengers green security protection.

## Careful and Meticulous Care



### Low power supply requirements

AC220V Single-phase power supply, household air-condition power supply can drive elevator to move smoothly without additional power supply.

### Noise reduction device, quiet and comfortable elevator riding experience

Selecting material strictly, innovative process and non-contact magnetic induction technology can eliminate collision sound of switch on the end station, achieve forced speed change without noise and vibration. Noise reduction device create a quiet and comfortable elevator experience.

### Standard modern style independent small control cabinets, free to place and easy to integrate

Standard small control cabinet, using champagne gold on the surface, is dignified yet magnificent. Light cabinet can be arranged flexibly to improve the reliability of operation and convenience of maintenance. Perfect circuit protection and simple debugging reduce maintenance pressure.

## Efficient Energy Saving, Green Environment Protection

### Intelligent control system, more energy saving

The IFE responds to the needs of green environmental protection. When there is no one use the elevator, the intelligent control system will switch the lighting and ventilation to the standby mode automatically. Thus to create a green-driven elevator.

### Environment friendly drive system, power consumption reduction up to 45%

Creatively selecting permanent magnet synchronous tractor as driver to improve the operation efficiency, low starting current, small size, low noise. Compared with traditional hydraulic driven elevator and forced driven elevator, it saves energy 40 ~ 45%, reduces noise 5 ~ 10dB(A).

# Advantages of JOYMORE-HL Home Lift

## Space Saving, Flexible Layout

The minimum overhead height is 2900mm, the smallest pit depth is 450mm

The minimum overhead height is 2900mm, the smallest pit depth is 450mm, does not affect the housing infrastructure, aesthetic architectural space proposal presents perfectly.

**2900mm**

overhead height

**450mm**

pit depth

## Without machine room, more flexible building layout

Save costs and reduce building height, villas present more elegance.

## Human Design, Details Care

### 800mm Automatic door, convenience for people

To meet requirements of wheelchair and enter to the lift easily.

### Direct landing technology, positioning accuracy

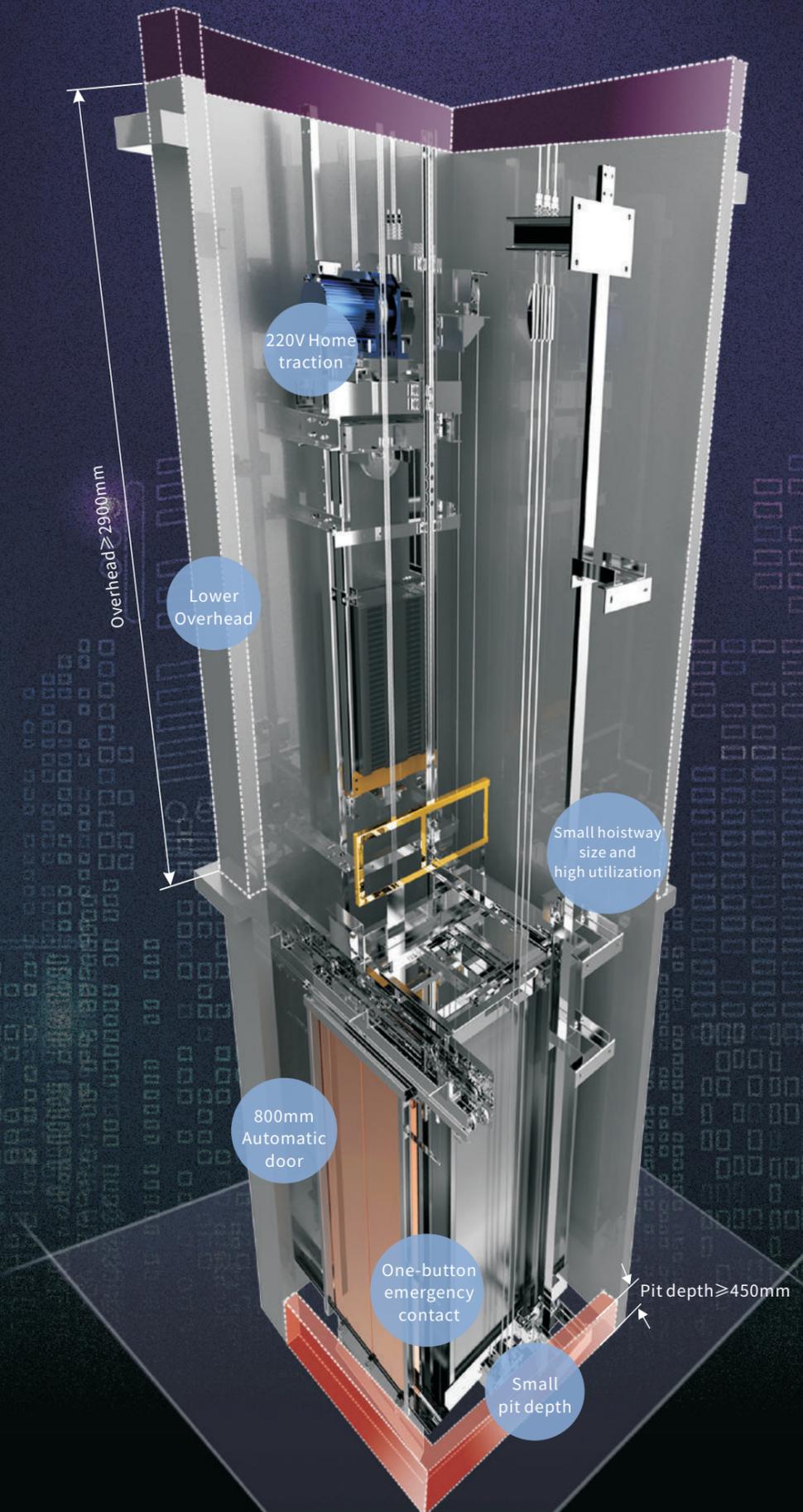
Passengers enter and exit the elevator stably, ensuring the lift runs in best state all the time, creating a comfortable space.

## Stable and Comfortable, Long Lifespan

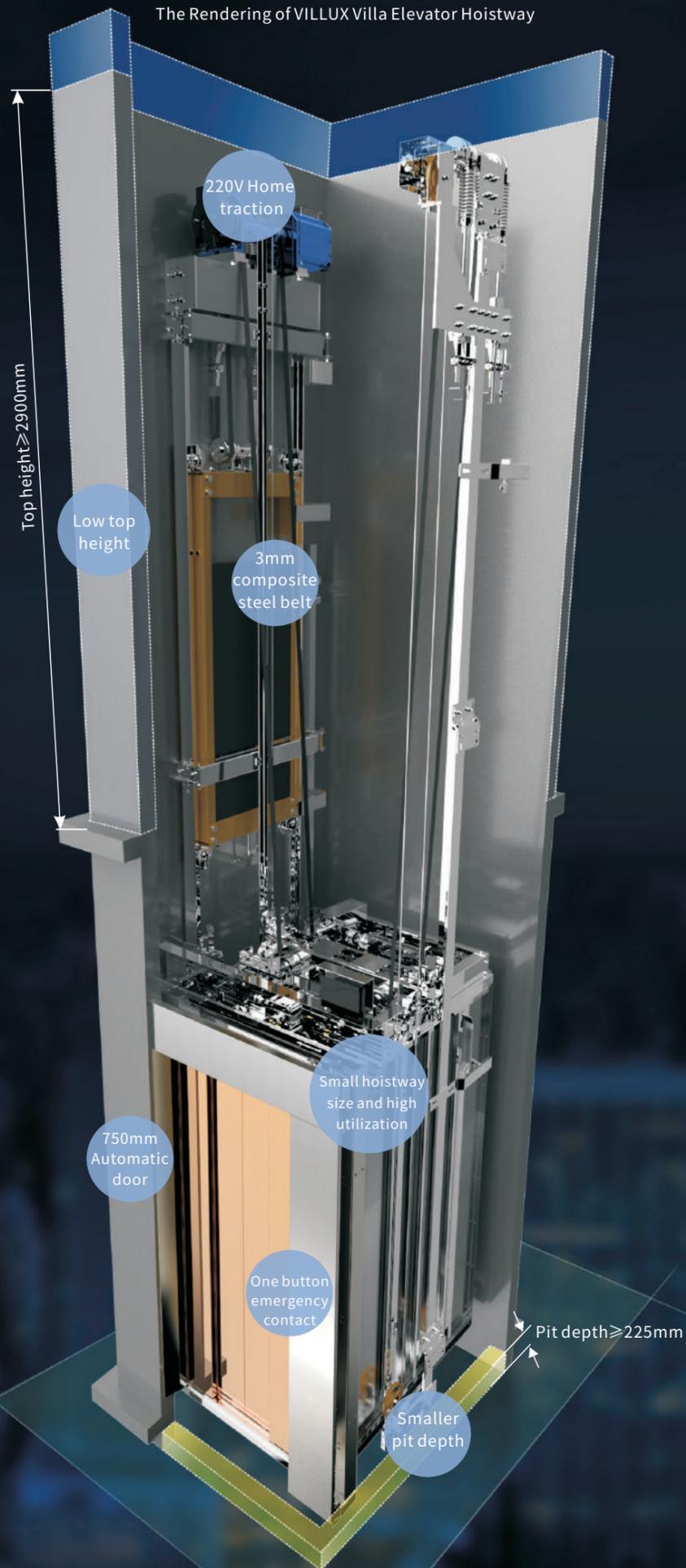
### Applied engineering mechanics

Suitable design of suspension and guiding device of car, using center suspension and guide rail plays guiding role during operation, not biased, to run more stably.

The Rendering of JOYMORE-HL Home Lift Hoistway



The Rendering of VILLUX Villa Elevator Hoistway



## Advantages of VILLUX Villa Elevator

### Space Saving, Flexible Layout

#### Smaller size of hoistway

400kg capacity elevator, its hoistway sectional dimension only needs 1350mm\*1350mm, has higher hoistway utilization and less elevator space, and indoor and outdoor layout are free.

**2900mm**  
The minimum overhead is 2900mm

**225mm**  
The smallest pit depth is 225mm

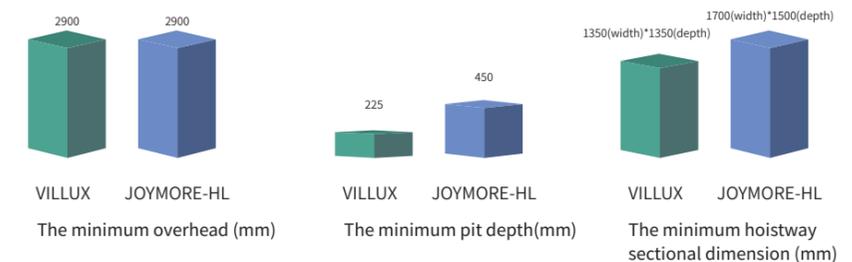
#### Lower overhead

The elevator overhead can be as low as 2900mm, which can meet the general construction requirement of villa elevator and not compete the height with the roof.

#### Smaller pit depth

The pit depth only needs 225mm, does not affect the foundation of house and requires no additional construction cost.

The car height is 2m(0.4m/s)



### Human Design, Details Care

#### 3mm Composite steel belt

The Continental's composite steel wire belt has a service life of 2-3 times more than traditional wire rope. The outer uses polyurethane and lubrication-free, which is more environmentally friendly.

#### 750mm Automatic door

To meet requirements of wheelchair, easy to enter and exit.

#### Steel shaft structure (Optional)

The steel shaft structure can be configured to follow the elevator out of the factory according to actual hoistway condition. Users do not need to choose other shafts by themselves, which can reduce the installation cost and shorten the installation time.

# Decorating Configuration

## Car Standard Configuration



**CAR90-02**

Ceiling: C62-05(Rose Gold Mirror Stainless Steel + Ceiling light)  
 COP: COP37-05 (Rose Gold Hairline Stainless Steel)  
 Car Wall: CW03-05(Front Wall & Rear Wall: Rose Gold Mirror Stainless Steel / Side Wall: Rose Gold Hairline Stainless Steel)



**L01-08**



**L11-04**

Cabin Door: L01-08(Rose Gold Mirror Stainless Steel)  
 Floor: F02-06(Marble)  
 HOP: HOP24-03(Rose Gold Mirror Stainless Steel)  
 Landing Door: Rose Gold Mirror Stainless Steel  
 Landing Door Type: L01-08 CO/ L11-04 SO

Note: Ceiling lights are seasonal and popular products. The specific styles are subject to the popular styles of the current market. There is a slight difference between the physical objects and the effects. The final interpretation right belongs to our company.

# Car Optional Configuration



**CAR99-21**

Ceiling: C63-03(Rose Gold Mirror Stainless Steel + Ceiling light)  
 COP: COP37-06 (Rose Gold Hairline Stainless Steel)  
 Car Wall: CW06-01(Front Wall & Side Wall: Rose Gold Mirror Stainless Steel / Rear Wall: Artist Glass)  
 Cabin Door: L04-04(Rose Gold Mirror Stainless Steel + Safety Glass)



**L04-04**



**L12-04**

Floor: F02-09(Marble)  
 HOP: HOP24-03(Rose Gold Mirror Stainless Steel)  
 Landing Door: Rose Gold Mirror Stainless Steel + Safety Glass  
 Landing Door Type: L04-04 CO/ L12-04 SO

Note: Ceiling lights are seasonal and popular products. The specific styles are subject to the popular styles of the current market. There is a slight difference between the physical objects and the effects. The final interpretation right belongs to our company.

# Decorating Configuration

## Car Optional Configuration



**CAR90-04**

Ceiling: C61-05(Rose Gold Mirror Stainless Steel + Antique Light)  
 COP: COP38-06 (10.4 Inches Touch Screen)  
 Car Wall: CW04-09(Front Wall & Side Wall: Rose Gold Mirror  
 Stainless Steel / Rear Wall : Rose Gold Mirror Stainless  
 Steel Etching)

Note: Ceiling lights are seasonal and popular products. The specific styles are subject to the popular styles of the current market. There is a slight difference between the physical objects and the effects. The final interpretation right belongs to our company.



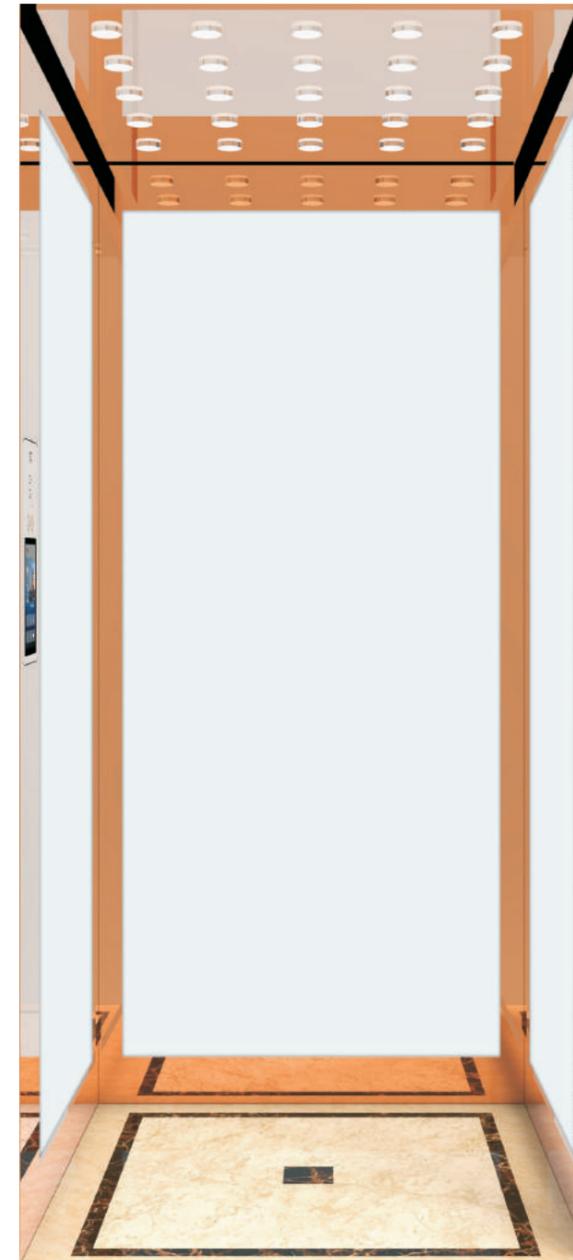
**L03-15**



**L13-03**

Cabin Door: L03-15(Rose Gold Mirror Stainless Steel)  
 Floor: F02-07(Marble)  
 HOP: HOP24-03(Rose Gold Mirror Stainless Steel )  
 Landing Door: Rose Gold Mirror Stainless Steel Etching  
 Landing Door Type: L03-15 CO/ L13-03 SO

# Car Optional Configuration



**CAR90-05**

Ceiling: C64-05 (Rose Gold Mirror Stainless Steel + Acrylic Light)  
 COP: COP38-06 (10.4 Inches Touch Screen)  
 Car Wall: CW05-03(Front Wall : Rose Gold Mirror Stainless Steel  
 / Side Wall & Rear Wall : Rose Gold Mirror Stainless Steel  
 + Safety Glass)



**L04-04**



**L12-04**

Cabin Door: L04-04 (Rose Gold Mirror Stainless Steel + Safety Glass)  
 Floor: F02-08 (Marble)  
 HOP: HOP24-03 (Rose Gold Mirror Stainless Steel )  
 Landing Door: Rose Gold Mirror Stainless Steel + Safety Glass  
 Landing Door Type: L04-04 CO/ L12-04 SO

## Decoration Configuration

### Man-machine Interaction Standard Configuration



**COP37-05**

Panel: Rose Gold Hairline Stainless Steel  
Button: B11C-06



**HOP24-03**

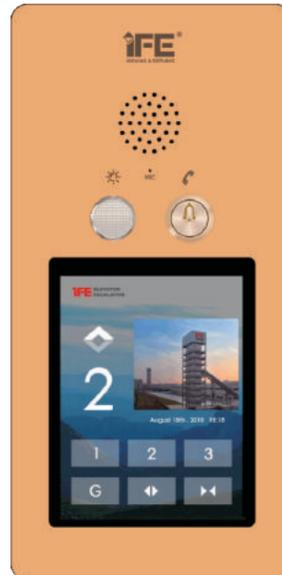
Panel: Rose Gold Mirror Stainless Steel  
Button: B11H-12

### Man-machine Interaction Optional Configuration



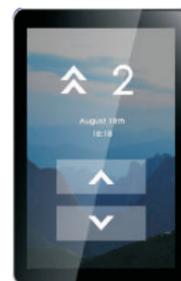
**COP37-06**

Panel: Rose Gold Mirror Stainless Steel  
Button: B11C-06



**COP38-06**

Panel: 10.4 Inches Touch Screen/  
Rose Gold Mirror Stainless Steel



**HOP40-00**

Panel: 7 Inches Touch Screen

Note: Fixed telephone mode is adopted for one-click call function. Customers need to provide fixed telephone interface and cable connecting this interface to controller.

## Decoration Configuration

### Landing Door Decoration Standard Configuration + Optional Configuration



**Standard Configuration of Landing Door and Door Jamb**

**L01-08**

Door Jamb	Rose Gold Mirror Stainless Steel
Landing Door	Rose Gold Mirror Stainless Steel
Door Sill	Aluminum



**Optional Configuration of Landing Door and Door Jamb**

**L04-04**

Door Jamb	Rose Gold Mirror Stainless Steel
Landing Door	Rose Gold Mirror Stainless Steel+Safety Glass
Door Sill	Aluminum



**Optional Configuration of Landing Door and Door Jamb**

**L13-03**

Door Jamb	Rose Gold Mirror Stainless Steel
Landing Door	Rose Gold Mirror Stainless Steel Etching
Door Sill	Aluminum



**Optional Configuration of Landing Door and Door Jamb**

**L03-15**

Door Jamb	Rose Gold Mirror Stainless Steel
Landing Door	Rose Gold Mirror Stainless Steel Etching
Door Sill	Aluminum

# JOYMORE-HL Home Lift / VILLUX Villa Lift

## Function Table

### Operation Function

01	Full selective collection	Collect all the calling signals to answer selectively based on the signal control system
02	Car call cancellation	Double click the COP button to cancel the wrong command to achieve car call reset
03	Door open\Close button	Micro buttons on the COP to control the door open\close to that passengers could handle the open\close timing flexibly
04	Door open\Close button light	Door\close button light lights up to indicate the successful answer
05	Direct landing function	Micro-computer controller automatically calculate the optimize the speed profile according to the target floor
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 reposition 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	Door reopening by landing	Push the hop button same as the elevator going direction when the door is closing, then the door will reopen
09	Torque compensation in start	The system will calculate as per the load in cabin and optimize the torque compensation to give more comfort when the elevator just starts

### Safety Functions

10	Safety loop protection	When the elevator fails, elevator micro-computer control system will report the fault code based on the preset fault code to bring convenience to maintenance staff
11	Overload protection	When the car is overload, the overload buzzer will sound alert, at this moment, that door is not closing and the elevator is not working
12	Safety curtain with multiple phase 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 the passengers from the risk of door
13	Door reverse	The door is subjected to a reverse resistance exceeding the preset torque value when it is closing the elevator will reopen
14	Door interlock protection	When the landing door and car door are both in normally closed state, the elevator will operates normally only when the control system judges the elevator is normal
15	Landing zone guard	For safety reason, the car door cannot open in the non-leveling zone
16	Downward over speed protection	Then the downward speed of elevator exceeds a specified speed, the govern will take action and the safety circuit will be cut off while safety gear brakes, then the car stops
17	Upward over speed protection	Then the upward speed of elevator exceeds a specified speed, the govern will take action and the safety circuit will be cut off while the traction machine brakes, then the car stops
18	Reversal movement guard	When the system detects the actual running direction is inconsistent with the specified direction, the car stops immediately and alarms
19	Brake guard	Brake relay signals are being monitored in the entire process. when the brake relay finds the actual state is inconsistent with the specified command, the system will stop the elevator operation
20	Contactors non-releasing protection	No matter the elevator is under standby state or operation state, the system will output the contactors condition. once the contactor is abnormal state, the system will stop the elevator operation
21	Speed limited switching at terminals	When the elevator is running to the terminal station and the operation speed is not reduced to a preset value the system will be forced to slow down to ensure the safe operation of elevator
22	Buffer safety protection	When the elevator passes over the terminal floor for any reason, car buffer and counterweight buffer will start the protection and the safety circuit will be cut off in the meantime
23	Micro-computer scanning protection	Before the elevator be back to power after power failure, it would scan input and output points of govern, when finds abnormal state after checking data, the elevator stops running
24	Anti-locked-rotor feature of motor	If the traction machine does not run due to mechanical jamming then the elevator. the elevator is starting operating and it exceeds the preset timing, the system will stop the elevator operating
25	Fault code storage	The computer would store fault records of elevator and report to manufacturer maintenance staff to take statistical analysis
26	Star closure method	When the brake fails and leads to an unintended movement of elevator, the three-phase winding of the permanent magnetic synchronous motor will be in short circuit and turn to power generation state. it drives elevator running at the speed of 0.1m/s and eliminates the risk of the high-speed slip to ensure the safety of passengers

## Function Table

### Special Operation

27	Main floor setting	According to site requirement 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 operation
28	Fire Layer Setting	The fire floor can be set by the fire floor in the basic parameters according to the requirements of the site. When the fire signal is input, the elevator will be lowered to the floor
29	Overhaul and Manipulation of Car Roof	The elevator can be operated at a low speed in the selected direction by pressing the upper, lower and public buttons of the car roof overhaul box. The open and close buttons control the opening and closing of the elevator so as to make the overhaul and maintenance safer and faster
30	Specific Layer Service Functions	According to the customer's needs, whether the elevator stops on a certain floor or not can be set up

### Interface

31	Digital Floor Display	On the control panel in the car and the call box in the hall of each floor! Display the floor station of the elevator with dot-matrix LED lamp at any time, so as to facilitate passengers to know the current running position of the elevator
32	Rolling Direction Display	The control panel in the sedan car and the call box in the hall of each floor are used to display the direction of the elevator at any time by rolling the dot array LED arrow lamp, so as to facilitate passengers to understand the current operation status of the elevator
33	Customization of Floor Display	Special floor display fonts can be customized depending on the need

### Emergency Function

34	Automatic Rescue Operating Device	When the elevator is powered off suddenly in normal operation, the device will move quickly, driving the elevator to run at low speed to the nearest floor, opening the door to evacuate passengers
35	One touch call	When family members are trapped in the elevator in an emergency, they can use the telephone fixed in the car to contact the outside world for timely help
36	Emergency Electricity	When safety forceps, upper limit, lower limit, upward overspeed, speed limiter switch action, emergency electric function can be operated in the control cabinet, so that the elevator slowly up or down, in order to facilitate rapid rescue

### Energy Saving Function

37	Energy saving standby	In the absence of any operation instructions, the elevator will enter the energy-saving mode within the predetermined time after closing the door, closing the lighting and fans in the sedan car
----	-----------------------	---

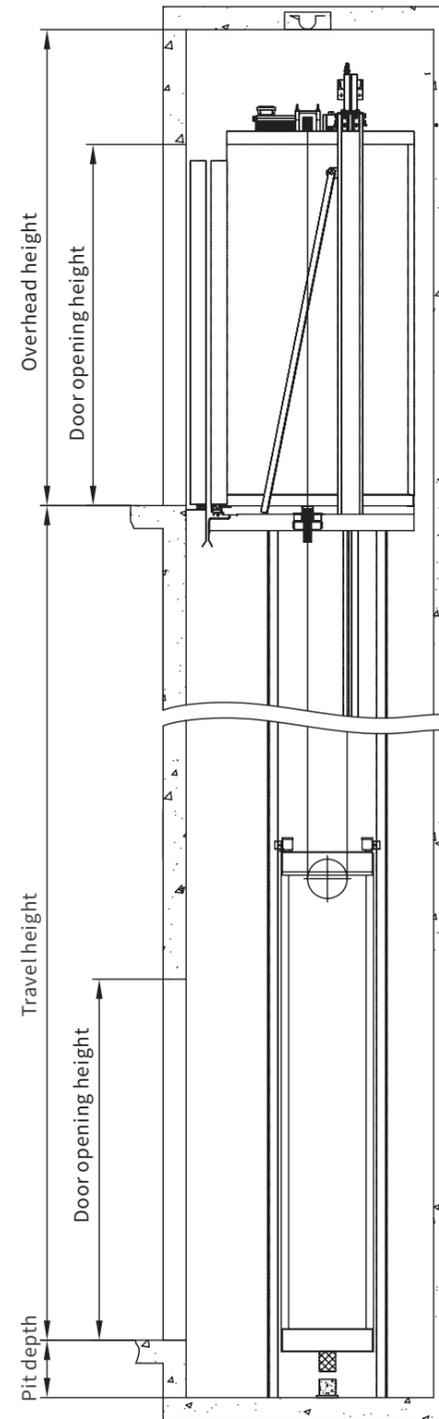
## Optional Function

01	Braille button	Braille button is used for the control panel and external call in the car, which is convenient for the blind and the elderly with poor eyesight
02	Touch button	Outside call for high-grade touch button
03	Cabin LCD display	Using liquid crystal display as interior floor of high-grade sedan car, running direction shows as arrow
04	Hall LCD display	Using LCD as the floor of high-grade hall, the running direction shows as arrow

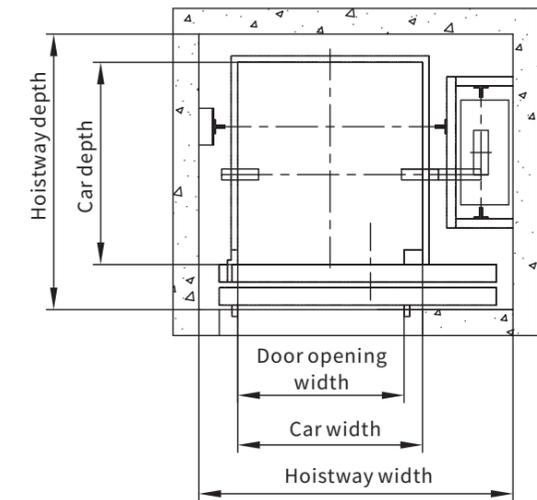
# JOYMORE-HL Home Lift Technical Parameters

NO.	Specification	250	320	400
01	Rated capacity(kg)	250	320	400
02	Speed(m/s)	0.4		
03	Control method	Full Collective Selective		
04	Drive method	VVVF		
05	Door control	VVVF Door Controller		
06	Traction machine	Permanent Magnet Synchronous Gearless Motor		
07	Control System	CTRL80 Integrated Controller		
08	Communication method	Serial Communication		
09	Car size(mm)(width*depth*height)	800*900*2200	900*1000*2200	1000*1100*2200
10	Door opening size(mm) (width*height)	2 Panels SO 800*2100	2 Panels SO 800*2100	2 Panels SO 900*2100
11	Travel height(TR)	≤12		
12	Hoistway size(width*height)mm	1500*1350	1600*1400	1700*1500
13	Motor position	Above the guide rail		
14	Overhead(OH) mm	≥2900		
15	Pit depth(PD)(mm)	≥450		
16	Motor rated capacity(kW)	0.7	0.9	1.1
17	Rated current(A)	6	8	10
18	Starting Current(A)	9	12	15
19	Brake Voltage(V)	Dc110		
20	Power supply and wire	220V, 50Hz single-phase power supply, see the civil layout requirements of 2.5m copper core sheath line + 2.5mm yellow-green line		

Note: maximum area of cabin =( rated load / 250)m.



Hoistway Plan



Hoistway layout profile

# VILLUX Villa Elevator Technical Parameters

NO.	Specifications	400				
01	Rated Load (kg)	400				
02	Shape	Square				
03	Speed (m/s)	0.4				
04	Control method	Full collective selective				
05	Drive method	VVVF				
06	Door device control	VVVF Door controller				
07	Traction machine	Permanent Magnet Synchronous Gearless Motor				
08	Control System	CTRL80 Integrated Controller				
09	Communication method	Serial Communication				
10	Car Specification (mm)	Single door	900*1150*2000			
		Dual opening	900*1150*2000	---	---	---
11	Door door size (mm) (width and height)	4 panel CO (Wide door jamb) 750*2000	4 panel CO (Narrow door jamb) 750*2000	CO (Narrow door jamb) 800*2000	Left SO (Narrow door jamb) 800*2000	
12	Travel height (m)	≤12				
13	Hoistway size(widn*height)mm	Single door	1350*1350	1450*1450	1700*1400	1500*1500
		Dual opening	1350*1370	---	---	---
14	Motor position	Above the guide rail				
15	Overhead(OH) mm	≥2900				
16	Pit depth(PD)(mm)	≥225				
17	Motor rated capacity(kW)	1.2				
18	Rated current(A)	5				
19	Starting Current(A)	7.5				
20	Brake Voltage(V)	DC110				
21	Power supply and wire (Each unit)	50Hz single-phase power supply, refer to the civil layout requirements of 2*2.5m copper core sheath wire + 2.5 m yellow-green wire				

Note: 1. Maximum area of car (rated load/250m).

2. Special attention should be paid to when dealing with the contract: when it's 2 panels CO door opening mode, the scheme of matching the door jamb should be selected only when the hoistway size is small (the width and depth is less than 1450 mm \* 1450 mm), and when the hoistway size is large (the width and depth is not less than 1450 mm \* 1450 mm), please give priority to the scheme of matching the narrow door jamb.

3. Requirements for door cut-out size refer to civil layout drawings.

