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**GOTS**

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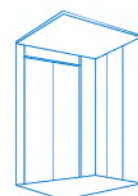
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**GOTS**

**VILLA  
ELEVATOR**

XIZIXIAO ELEVATOR CO., LTD



# *Bearing More Smoothly*



# Villa Elevator

Villa elevator is installed in private residence only for family members. It can also be installed in structures housing more than one family, used by members of one family to enter their home, but not the public or other residents in the building.

## Customized solutions

If you want to install an elevator in your new home in construction or existing villa, we can provide perfect customized solutions to you.

## Diversified configuration

We provide elevator car of wooden, stainless steel, and glass finishing and of a selection of colors. Xizi Xiao villa elevator can demonstrate extraordinary performance in a limited space. The machine room less (MRL) elevator with extremely small height of overhead floor can be installed in both old and new homes. Its standard guild rail installation system facilitates fast and convenient installation. Additionally, the stable starting and leveling system guarantee stable elevator operation that offers you greater comfort.

## Safe and energy-efficient door motor system

The variable-frequency door motor equipped with an efficient variable-frequency controller adopts primary drive, thereby reducing energy loss caused by secondary drive, saving more than 65% compared to ordinary variable-frequency door motor, and more than 70% to resistance one.

## Effective and energy-efficient motor

Targeted at the high-end villas market and other private clubs, the MRL traction home elevator is equipped with a lightweight permanent-magnet synchronous gearless traction motor, which greatly saves spaces, reduces noise and vibration caused by the elevator, optimize the arrangement of the hoistway and therefore significantly increase the space use ratio.

## Intelligent and efficient control system

Intelligent microcomputer module, by integrating and computing various types of signals, easily controls the direct stopping of elevator, which is safe and reliable, and improves transport efficiency.

## Full serial communication system

Reduction in system wiring facilitates easy installation and wiring; without setting the curve of running, the system can calculate the speed based on floor height automatically, and at the same time, provides extensive control functions. The processes of acceleration, deceleration and operation are smooth, and generate super low noise, guaranteeing a quiet life.



# Car Design (Standard)

## TS-B09 (standard)

Car ceiling: Hollow mirror polished stainless steel panel, translucent acrylic panel  
 Ventilation: Air coming from both sides of the ceiling  
 Car wall, car door and lintel: Rose golden stainless steel with capillary crack  
 Doorpost: Rose golden stainless steel with capillary crack  
 Car floor: 2.0mm-thick PVC mosaic marbled floor



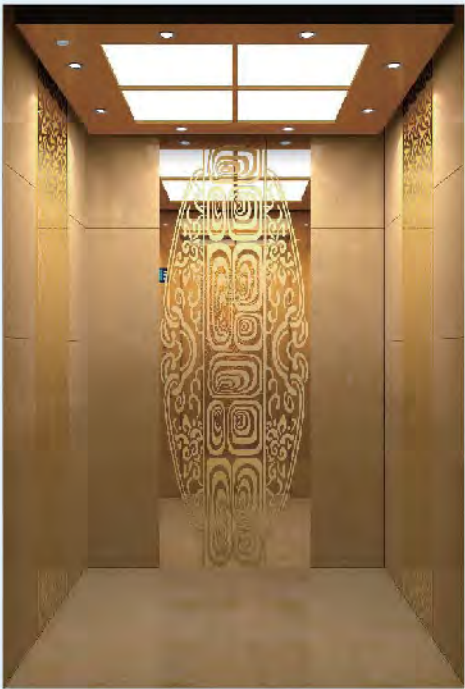
TS-P4 standard car operation panel (COP)  
 7-inch LCD display



TS-B4-B luxury mirror polished titanium call panel (wall mounted)

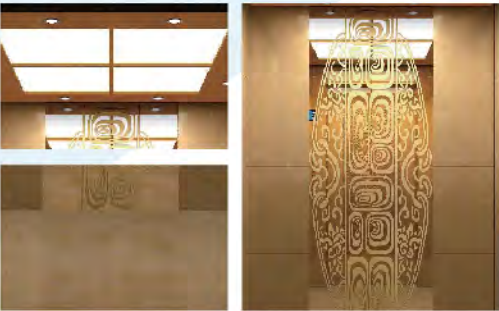


# Car Design (Optional)



TS-B01

Ceiling: Steel panel with baked finish (crown golden) + acrylic + LED downlight  
 Back wall: Marble honeycomb aluminum panel (imperial gold) + mirror polished etched stainless steel plated with titanium  
 Side wall: Marble honeycomb aluminum panel (imperial gold) + mirror polished etched stainless steel plated with titanium  
 Floor covering: Imperial gold (marble)  
 Recommended front wall: Mirror polished stainless steel plated with titanium



TS-B02

Integrated car ceiling:  
 Steel panel with baked finish (champagne gold) + acrylic  
 Back wall: White wood plank with baked finish + lines (champagne gold) on wood plank with baked finish + makeup mirror  
 Side wall: White wood plank with baked finish + lines (champagne gold) on wood plank with baked finish + makeup mirror  
 Floor covering: Magnolia marble + deep brown net + jade  
 Recommended front wall: Steel panel with baked finish (champagne gold)



TS-B04

Ceiling: Mirror polished stainless steel plated with black titanium + LED light  
 Front wall: Mirror polished stainless steel plated with black titanium  
 Car door: Mirror polished etched stainless steel plated with black titanium  
 Side wall: Glass (right)  
 Side wall: Mirror polished etched stainless steel plated with black titanium (left)  
 Back wall: Glass  
 Floor covering: Mosaic marble



TS-B09 (luxury car)

Ceiling: Woodgrain panel + chandelier  
 Back wall: Decorative wood panels (Sapele, paint closed, semi-matt) + window mirror  
 Side wall: Decorative wood panels (Sapele, paint closed, semi-matt)  
 Floor covering: Marble  
 Recommended front wall: Mirror polished stainless steel  
 Note: The window mirror on the back wall only simulates the views outside the elevator, and is not actually for sightseeing.



# Control Panel Outbound System

## Optional buttons



## Elevator LCD video player

### Product features:

- ★ Flexible display interface allowing modification and customization.
- ★ Industry-grade super-low power consumption, embedded design, integrated structure, and high stability.
- ★ Industry-grade color TFT LCD.
- ★ Direct connection to serial signals of major elevator manufacturers without conversion board.
- ★ Playing real-time network streaming media, VCD, DVD, and TV programs.
- ★ Flexible installation, horizontal or vertical.



TS-P4 standard car operation panel (COP)  
7-inch LCD display



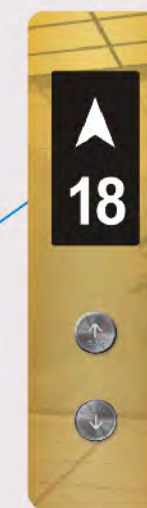
Parallel call panel



TS-W01 Integrated call and fire fighting panel at the first-floor base station (embedded)



Acousto-optic floor indicator



TS-W06 luxury mirror polished titanium call panel (wall mounted)



TS-B4-B luxury mirror polished titanium call panel (wall mounted)



Base station fire fighting panel (wall mounted)



Lock panel (wall mounted)



TS-W05 optional (wall mounted optional)



TS-W09 optional (wall mounted optional)



TS-W04 optional

# Rebo Features

## Running

- Full collective control** On the basis of the signal control, collect all the call signals and response selectively.
- Direct running when fully loaded** When fully loaded, the car does not respond to external call signal and only implement the one inside.
- Automatic returning to base station** Within the set time, if there is no internal or external call, the car will automatically return to the set floor (base station).
- Automatic canceling opposite instruction** When the car is running, the opposite floor signal sent through the COP will be automatically canceled.
- Automatic learning of distance between floors** The system can automatically record the height of the each floor so as to precisely control the distance of elevator running.
- Automatic diagnosis of failure** The system can automatically diagnose and record the signal of failure of the elevator, and use special tools for quick troubleshooting.
- Anti-trouble-making** There is a switch on the mainboard. So the call instructions will be canceled simply by dialing, making it convenient for debugging and maintenance.
- Canceling the wrong instruction** If the elevator is not running, you can double click the call button of a certain floor to cancel the sent signal.
- Door open and door close buttons** Inside the car there are door open and door close buttons. If the elevator is not running, you can press the door open button to open the door, and press the door close button to cancel the waiting time to close the door immediately, improving the efficiency of running.
- Automatic correcting running** When the elevator is out of position, the elevator will automatically find the correct position.
- Reopening the door in the hall of a floor** When the elevator stops at a floor, you can press the call button indicating the running direction of the elevator to reopen the door.
- Torque compensation without weighing** When the elevator starts, no additional weighing switch is needed, the system will automatically carry out torque compensation based on the weight of the car, so as to guarantee comfort at the start.

## Safety

- End station protection** When the elevator arrives at the top floor but its speed has not been reduced to the speed set in the system, the protection device will force it to slow down to ensure safety.
- Light curtain door protection** There is a light curtain protection web at the entrance of the elevator. Each scan cycle contains more than 94 infrared beams, with the reaction time being less than 0.1 second.
- Door closing torque protection** If mechanical jam occurs when the car door closes, with the torque exceeding the predetermined value, the car door will reopen.
- Overload alarm** When the weight of passengers inside the elevator exceeds rated capacity, the buzzer will send out an alarm signal to remind the passengers to leave the car and cancel the instructions sent from the car.
- Delayed protection of car door opening and closing** When the elevator stops at a certain floor, if as a result of resistance or other factors, the door fails to open to the predetermined position within the set time, the elevator will enter the door opening protection mode, in which if the door still can't open successfully at three attempts, the elevator will then run to the next floor to open the door; if due to resistance or other factors, the door fails to close to the predetermined position within the set time, the elevator will enter the door closing protection mode, and not respond to the call instructions.
- Motor overheating protection** If the temperature of motor exceeds the limit, the elevator will enter the standby mode after finishing the current running, and automatically resume operation when the temperature drops to normal range.
- Abnormal speed detection** Through comparing the feedback signals of the encoder and the speed set in the system, the system can control the running speed of the elevator. Once the difference between the two exceeds the allowed range, the system will enter the protection mode, stopping the elevator from running.
- Detection of Contactor abnormality** The system monitors the main contactor and the brake contactor based on the command status of the contactors. In case of detecting any abnormality, the system will enter the protection mode, stopping the elevator from running.
- Detection of power supply system abnormality** If the fluctuations in the power supply system exceed a certain range, resulting in phase dislocation and phase loss, the system will enter the protection mode, stopping the elevator from running.
- Detection of brake abnormality** When the system sends out a command of running but detects that the brake is not opened, or the system does not send out a command of running, but detects that the brake is opened, the elevator will be protected and stopped from running.

## Emergency Devices

- Machine-room emergency electrical running** There is machine-room emergency electrical running devices inside the control cabinet. In case of emergencies, professionals can operate the elevator in the machine room.
- Emergency lighting in the car** Inside the car there should be equipped with emergency lighting.
- Alarm in the car** In case of emergencies, passengers can press the alarm button on the COP to seek help.

## Energy Conversation

- Automatic control of lightning and fan in the car** If there is no call signal within the set time, the lighting devices and fan inside the car will be automatically shut down to save energy.
- Canceling door close waiting time** By pressing the close button inside the car, the car door will be immediately closed.
- Elevator lock switch** After the elevator lock switch is turned on, the system will no longer responds to any calls and automatically return to the base station after responding to all the instructions sent from the car.
- Control of door open waiting time** The system can set different door open waiting time responding to calls from outside and inside the car if required.

## Human-Machine Interface

- LCDs in the car and the hall** Color COP and LCDs for calls display information on floors and the running direction of the elevator.
  - Car arrival chime** When the elevator arrives at a station, the car arrival chime will ring to remind passengers that the elevator has arrived.
  - Directional indicator in the hall and the car** When the elevator is running, the running direction will be displayed on the the call panel and displayer in the car.
  - Customized floor display settings** The floor display information can be customized based on the customers' needs, which may include any two characters, one from 0 to 9, the other A to Z (please be noted that 0 can not be distinguished from O, 2 from Z, 5 from S, and 8 from B).
- ## Special Running
- Automatic parking** Based on the results of integrating the information on all floors, the elevators will be automatically parked on different floors, improving the working efficiency.
  - Five-party interphone** The car, car bottom, car ceiling, machine room and monitor room form an interphone system.
  - Switch for canceling the call from the hall** There is a switch on the mainboard. So the call instructions will be canceled simply by dialing, making it convenient for debugging and maintenance.
  - Static positioning** When installing the elevator, there is no need to disengage the steel wire rope from the motor to position the motor at a certain angle, hence easy installation.
  - Car ceiling inspection and repair** There is an inspection and repair switch on the car ceiling for the convenience of the maintenance personnel to carry out maintenance work in the hoistway. If the switch is on, the inspection and repair switch in the machine room is disabled.

# Optional Features

## Running

- Re-leveling** When the elevator door opens, the steel wire rope stretching caused by the entry of passengers causes the elevator leveling position to change. Under this circumstance, the elevator will automatically level to the correct position at a very slow speed.
- Down collective operation** When the down collective operation is selected, the up button is only available on the base station or the ground floor, and on the other floors there is only down button.
- Operator services** If the car is equipped with the driver switch and when it is on, the elevator will start operator services and controlled by the operator in opening and closing the door.
- Independent services** If the car is equipped with the independent service switch and when it is on, the elevator will get out of group control and not respond to the call instructions.
- Direct travel by operator** When the operator switch is on, the operator will press the direct travel switch to bypass all the calls. The elevator will not respond the the calls until the direct travel switch is off.
- Door open hold switch** The car is equipped with a door open hold switch and when it is on, the door will not be closed within the set hold time, after which the door will be automatically closed. During the hold time, the passenger can press the door close button to cancel the door open hold and immediately close the door.
- Parallel/group control function** The parallel function is available when there are two elevators, and group control function for three. When the parallel/group control function is activated, the system will, based on the priority of calls, send the fastest possible elevator to respond to the call instructions, so as to reduce the waiting time.
- Timer switch** Timing equipment is added for all-weather control of the elevator.

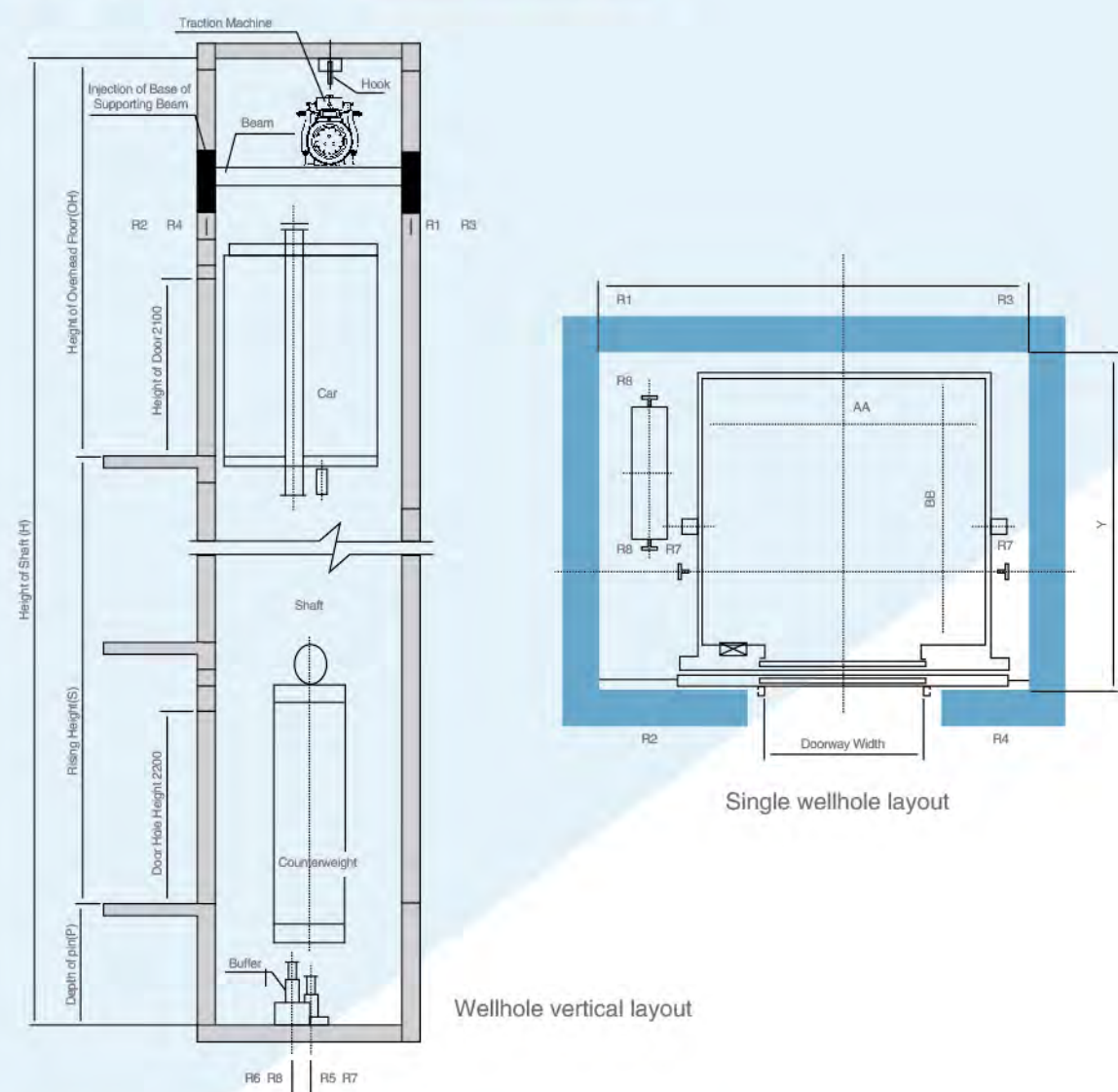
## Human-Machine Interface

- Elevator air conditioner** An air conditioner can be equipped to keep the temperature in the car within a range in which passengers feel comfortable.
- Arrival chime in the hall** Usually an arrival chime will be integrated into the call display in the hall.
- Voice indicator** A voice indicator is equipped to accurately tell passengers which floor the elevator arrives, door status and etc.
- Energy-efficient display in the hall** If there is no call signal after a long time, the display in the hall will automatically enter energy-saving mode.

## Safety

- Intelligent IC card management** When the IC card function is activated, only the card holder can use the elevator by swiping the card.
- Password-protected services** When this function is activated, calls of certain floors can be prohibited by setting a password, and only those who enter the correct password have the right to call the floor.
- Emergency fire-fighting switch** The base station is often equipped with an emergency fire-fighting switch and when it is on, the elevator will cancel all the sent instructions and directly travel to the fire-fighting floor before opening the door and responding to ant calls.
- Community monitoring system** Special video devices can be equipped to monitor the real-time status of the car.
- Emergency rescue device for power outage** When the elevator is equipped with the device, it will automatically switch to the emergency rescue mode in case of power outage, stopping on the nearest floor and then opening the door while pacifying passengers with voice message.
- Light curtain door protection** In the process of door closing, if the infrared beams covering substantially the entire height of the door detect passengers and objects, the door will be re-opened.

Side Counterpoise



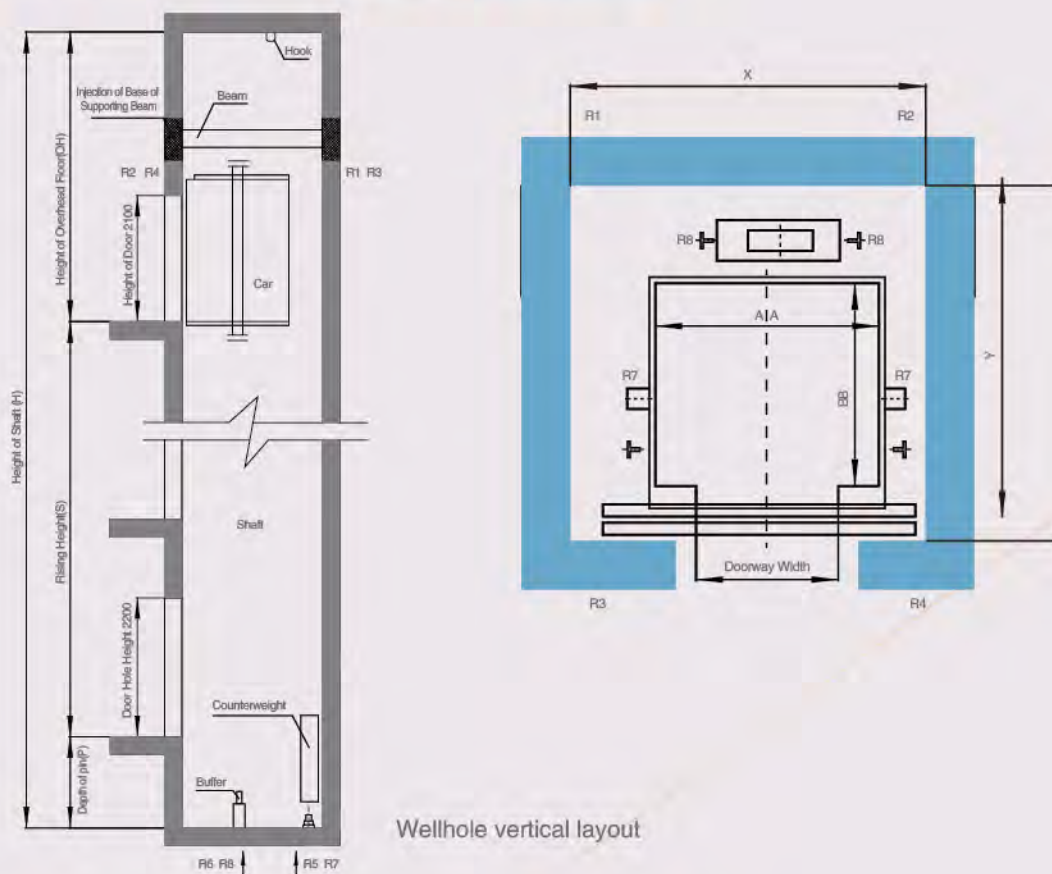
Technical Parameters

| Load<br>(kg/person) | Speed<br>(m/min) | Car Dimensions<br>AA*BB(mm) | Doorway Width<br>(mm) | Shaft<br>X*Y<br>(mm) | Machine Room Bearing Capacity(N) |       |       |       | Pit Bering Capacity(N) |       |       |      |
|---------------------|------------------|-----------------------------|-----------------------|----------------------|----------------------------------|-------|-------|-------|------------------------|-------|-------|------|
|                     |                  |                             |                       |                      | R1                               | R2    | R3    | R4    | R5                     | R6    | R7    | R8   |
| 320/4               | 30               | 1000x900                    | 700                   | 1950x1350            | 32000                            | 18000 | 19900 | 53000 | 47500                  | 33000 | 25000 | 5000 |
|                     | 60               |                             |                       |                      |                                  |       |       |       |                        |       |       |      |
| 400/5               | 30               | 1100x1000                   | 700                   | 1950x1400            | 30000                            | 18000 | 19000 | 50000 | 47000                  | 32000 | 25000 | 5000 |
|                     | 60               |                             |                       |                      |                                  |       |       |       |                        |       |       |      |

| Load(kg) | Speed(m/min) | Height of Overhead Floor(mm) | Depth of Pit(P)(mm) | Max.Rising Height(m) | Max.Number of Floor Stops |
|----------|--------------|------------------------------|---------------------|----------------------|---------------------------|
| 320-400  | 30           | 4200                         | 1500                | 30                   | 10                        |
|          | 60           | 4200                         | 1500                | 40                   | 14                        |

Notes: 1) The main power specifications in the table above apply for power cable of length less than 150m. If the length exceeds 150m, it shall be calculated according to the following equation: Specification of main power cable(nm2) = actual length of cable/150 × data in the table above.

Back Counterpoise



Technical Parameters

| Load<br>(kg/person) | Speed<br>(m/min) | Car Dimensions<br>AA*BB(mm) | Doorway Width<br>(mm) | Shaft<br>X*Y<br>(mm) | Machine Room Bearing Capacity(N) |    |    |    | Pit Bering Capacity(N) |    |    |    |
|---------------------|------------------|-----------------------------|-----------------------|----------------------|----------------------------------|----|----|----|------------------------|----|----|----|
|                     |                  |                             |                       |                      | R1                               | R2 | R3 | R4 | R5                     | R6 | R7 | R8 |
| 320/4               | 30               | 1000x900                    | 700                   | 1650x1650            |                                  |    |    |    |                        |    |    |    |
|                     | 60               |                             |                       |                      |                                  |    |    |    |                        |    |    |    |
| 400/5               | 30               | 1100x1000                   | 700                   | 1750x1750            |                                  |    |    |    |                        |    |    |    |
|                     | 60               |                             |                       |                      |                                  |    |    |    |                        |    |    |    |

| Load(kg) | Speed(m/min) | Height of Overhead Floor(mm) | Depth of Pit(P)(mm) | Max.Rising Height(m) | Max.Number of Floor Stops |
|----------|--------------|------------------------------|---------------------|----------------------|---------------------------|
| 320-400  | 30           | 4200                         | 1500                | 30                   | 10                        |
|          | 60           | 4200                         | 1500                | 40                   | 14                        |

| No. | Load speed<br>(person)<br>Kg-m/min | Power<br>supply<br>voltage | Rated current of power<br>circuit breaker in<br>machine room (A) |     | Capacity of power<br>transformer<br>(kVA) |      | Specifications<br>of main power cable<br>(mm²) |     | Specifications<br>of ground wire<br>(mm²) |     | Ventilation in machine room (one) |                           |                      |
|-----|------------------------------------|----------------------------|------------------------------------------------------------------|-----|-------------------------------------------|------|------------------------------------------------|-----|-------------------------------------------|-----|-----------------------------------|---------------------------|----------------------|
|     |                                    |                            | One                                                              | Two | One                                       | Two  | One                                            | Two | One                                       | Two | Heat<br>(J × 10³/h)               | Ventilation<br>rate(m³/h) | Size of fan<br>(Φmm) |
| 1   | 320(4)-30                          | 3Φ<br>380V                 | 20                                                               | 30  | 5                                         | 10   | 6                                              | 8   | 6                                         | 8   | 2.83                              | 330                       | 200                  |
|     |                                    |                            | 20                                                               | 30  | 6.3                                       | 10   | 6                                              | 8   | 6                                         | 10  | 3.46                              | 400                       | 200                  |
| 2   | 400(5)-30                          | 1Φ<br>220V                 | 30                                                               | 40  | 8                                         | 12.5 | 8                                              | 16  | 8                                         | 16  | 5.19                              | 590                       | 250                  |
|     |                                    |                            | 30                                                               | 50  | 10                                        | 16   | 8                                              | 16  | 8                                         | 16  | 6.05                              | 690                       | 250                  |

2)The calculation of the ventilation rate is based on the case that the ambient temperature does not exceed 40℃, otherwise, cooling devices should be used.