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**GOTS**

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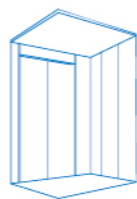
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**GOTS**



**FREIGHT  
ELEVATOR**

XIZIXIAO ELEVATOR CO., LTD





***Bearing  
More Smoothly***





# Product Performance

## Microcomputer Control

Multi-modular microcomputer-controlled system, and the five computer modules embedded in the data network system can upgrade the elevator control system to accurately and efficiently control the running and functions of elevators by modify the software and adjust the system parameters on site without changing the hardware configuration.

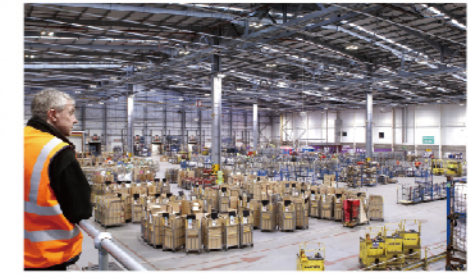


## Intelligent Dispatching

The intelligent elevator dispatching system featuring the fastest response can conduct precise calculation of call signals from the hall and response timely, which greatly shortens the waiting time and improves the efficiency of transportation

## Diverse Specifications

The freight elevators of various sizes are suitable for a variety of large and small logistics sites, bringing convenience to the transport personnel and shortening the transport time and frequency.



## Cost Control Concept

Motor structure of professional design not only reduces energy consumption and extend the service life of parts, but also streamline the maintenance, which control the cost in an all-around way for users.



## Excellent VF Asynchronous Motor Asynchronous Motor Asynchronous Motor

Traction motor of optimized design for freight elevators has higher stability and reduces noise pollution, making it durable.



## Simple Structure for Convenient Maintenance

Adopting sophisticated variable-frequency asynchronous motor technology leads to stable and reliable mechanical components, simple structure, reduction of loss, convenient and easy maintenance, and therefore cost reduction.



## Large Capacity

Motors of professional design carry capacity of different levels, with the highest one being 5000 kg, improving the efficiency of transportation and bringing great returns to users.



## Well-Oiled and Durable

The elevator has good lubrication function that can greatly reduce vibration and wear in the running, making the process of transportation smooth; meanwhile, it also has good maintenance function that extend the service life of the motor, and guarantee smooth running even under severe conditions.





# Power Technology Create The Future

## State-of-the-art technologies

State-of-the-art technologies of freight elevators are adopted to guarantee smooth running, comfort of passengers, stable performance, low failure rate, safety and reliability. In addition, elevators of various styles designed according to the hoistways of the users' buildings and the particularity of use, to meet users' requirements. There are three types of door divided by opening ways: Central opening, central opening and double-fold, and side opening doors; materials of the car are coated steel panel, streak-pattern stainless steel; the interior design is simple and lively.



### Solid Structure

The elevators are designed especially for cargo transportation. Steel panel bending technology is used in manufacturing the car which features the characteristics of large capacity, solid structure, and durability.



### People-Oriented Design

Each elevator has the function of delaying door closing to effectively prevent the door from closing into pressing the cargo entering into the elevator.



### The Unique Design of Cold Extrusion Sill

The sill is made of cold extrusion steel panel galvanized with zinc. Therefore, it is not easily damaged by large cargo and anti-rust. Door pockets have two sizes: Large and small ones.



### Safety Edge Protection

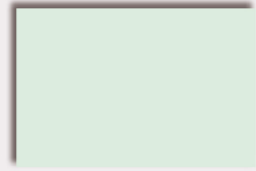
The elevator door is equipped with safety shoe which responds quickly to any passenger or cargo it touches in the process of door closing to fully guarantee the safety of passengers and cargo.



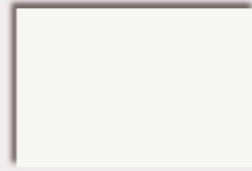
# Simplicity and Fashion

## Decoration Configuration

### Optional Car Wall Colors



Matt blue (Asc01)



Matt gray (Asc02)



Cream yellow (Asc04)



Apple green (Asc03)

## Floor Material

### Selection of Floor Material



Tread steel panel AF01



Tread stainless steel panel AF02 (optional)

# Cabin Configuration

### Acar101 (standard)

- Car ceiling: Spraying steel panel (colors available for selection)
- Car wall: Spraying steel panel (colors available for selection)
- Lighting: Energy-efficient ceiling lamp
- Car door: Spraying steel panel (colors available for selection)
- Floor: Tread steel panel



### A101 (standard)

- Door pocket: Small spraying steel panel pocket (colors available for selection)
- Layer: Spraying steel panel (colors available for selection)
- Door sill: Extrusion zinc-galvanized steel panelva





# Cabin Configuration

## Acarl02 (optional)

Car ceiling: Streak-pattern stainless steel panel  
 Car wall: Streak-pattern stainless steel panel  
 Lighting: Energy-efficient ceiling lamp  
 Car door: Streak-pattern stainless steel panel  
 Floor: Tread stainless steel panel



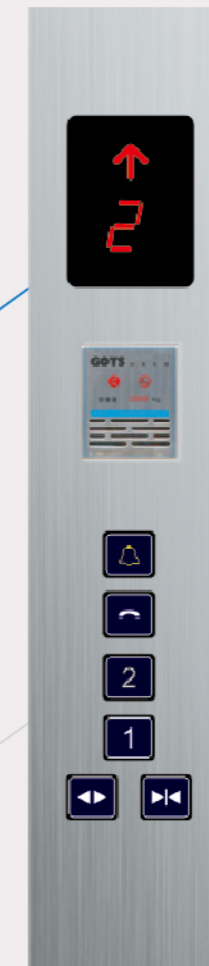
## A102 (optional)

Door pocket: Streak-pattern stainless steel  
 Floor door: Streak-pattern stainless steel  
 Door sill: Extrusion zinc-galvanized steel panel

# CAR OPERATION PANEL & OUTBOUND BOX



CBC-T100



CBC-T101



PLC-T100





# Door Opening Methods



## Door Opening Methods

Specification	Door opening method
D-01	Central opening
D-02	Side opening door
D-03	Three-fold side opening
D-04	Double-fold center opening

## Basic Specifications

Specification	Contents								
	0.5	0.63	1.0	0.5	0.63	0.5	0.63	0.25	0.5
Rated speed (m/s)	0.5	0.63	1.0	0.5	0.63	0.5	0.63	0.25	0.5
Rated capacity (kg)	1000		2000		3000		5000		
Max. rising height (m)	60								
Max. number of floor stops	16								
Way of operation	1C-2BC								
Way of control	Variable-frequencies								
Door opening method	Side opening and central opening								
	1D1G、1D2G、2D2G								
Net height of internal car (mm)	2200								
Location of traction motor	Upper part of hoistway								
Power supply of motor	380V, 50HZ and three-phase five-wire system								
Power supply of lighting	220V, 50HZ								

Note: 1D1G: Floor door and car door on the same side; 1D2G: Two car doors and one floor door on one floor; 2D2G: Two car doors, and two floor doors on at least one floor.



Central opening



Three-fold side opening



Side opening door



Double-fold center opening



# Standard Features

## Full collective control

When the elevator runs independently under full collective control, it will respond to calls of the same direction of car running from the hall in the order of calls. When the calls of the direction have all been responded, it will automatically respond to the calls of the opposite direction.

## Operator services

The regular operation of elevator will be completed by the operator.

## Running for inspection and repair

When the system is set to the state of inspection and repair, the elevator will go up or down at the inspection and repair speed after the up or down button is pressed, and stop after the button is released to meet the requirements for commissioning, maintenance, inspection and repair of the system.

## Overload protection

When the elevator is overloaded, the door will remain opened, the buzzer in the car will ring and the elevator will stop running.

## Door safety shoe

In the process of door closing, if the safety shoe of the door detects passengers and objects, the door will be re-opened.

## Emergency alarm

When passengers are trapped in the elevator car, they can immediately notify the management personnel through the alarm or communications device.

## Interphone

In case of emergency, passengers can constantly press the emergency button in the car to directly talk to the management personnel outside of the car.

## Emergency lighting

In case that the normal lighting power supply malfunctions, the emergency lighting device will be automatically turned on to keep the car illuminated.

## Automatic door opening

When the car is leveled, or when the call button or open button in the hall is pressed, the door will automatically open.

## Automatic turning off of lights and fan after 3-minute idleness

If the elevator receives no instruction or call for over 3 minutes, the lights and fans in the car will be automatically turned off. But upon receipt of instruction or call signal, they will resume to work immediately.

## Designated parking

When the key switch is on, the elevator will automatically return to the base station, turn off the lights, shut the door and stop running after responding to all instructions.

## Overspeed protection

If the speed of car exceeds the rated value, the elevator will automatically turn on the overspeed monitoring device to cut off the power supply and start the safety device.

## Automatic learning of hoistway data

The elevator will automatically learn the floor height of hoistway, positions of protection switch and speed reduction switch, and etc. and save the data permanently to ensure the accuracy of the leveling.

## End protection

End protection switch is installed in both ends of the elevator to ensure that the car will not go beyond the stroke.

## contacts of contactors

The system will automatically detect if the contactors related to running function normally; in case of any contactor malfunction, the car will be stopped from running.

## Door lock switch protection

The elevator can only run when all the door locks are closed; if the door interlock is broken or joggled, the elevator will stop running.

## Automatic correction of the signal of elevator position

The system will automatically correct the signal of elevator position on each operating point of each limit switch and leveling switch against the position pulse at the time of leveling.

## Anti-skid protection

If the system detects skid of the steel wire rope, it will stop the car and will not restart it until the system resumes to normal.

## Automatic adjustment of door opening time

When running without an operator, after arriving at a floor and opening the door for a certain amount of time, the elevator will automatically close the door

## Opening door in the hall

If the call button of the floor is pressed, the car door will be automatically opened; if the button is not released, the door will remain open.

## Early closing of the door with door close button

If automatically the door remains open, passengers can press the door close button to close the door in advance.

# Optional Features

## Opening of door with door open button

When the elevator stops at the door-opening area, passengers can press the door close button in the car to reopen the closed or not closed door.

## Repeated door closing

If the elevator fails to close the door lock after attempting to close the door for 15 seconds, it will switch to the state of door opening.

## No door opening outside door-opening area

For the sake of safety, the door cannot be opened as set in the system.

## Detection of contacts of safety contactor

The system will monitor if the contacts of safety relay and contactor function reliably; if it detects inconsistency between the operation of contacts and the status of drive of coil, it will stop the car and will not restart it until the problems are fixed.

## Main circuit failure protection

When the system receives the signal of main circuit failure, it will immediately shut down the elevator and prevent it from running.

## VF drive failure protection

When the system receives the signal of VF drive failure, it will immediately shut down the elevator and will not restart it until the VF drive is fixed and the system resumes to normal.

## 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.

## Low-speed running for automatic rescue

When not in the state of inspection and repair, as long as the safety requirements are met, the elevator not stopping at the leveling area will automatically travel to the leveling area at low speed and open the door to let the passengers out.

## Vector control technology

Precise and smooth adjustment of the elevator speed guarantees comfortable experience; compared with other types of AC speed-adjusting systems, this system is of high running efficiency, saving more than 30% of energy consumption.

## Fire fighting switch

When the fire-fighting switch is on, all the calls will be canceled and the elevator will be directed to immediately go back to the designated floor and only respond to the calls from the car for the sake of rescue.

## Serial communication

Bus is used for serial data communication among the components, which not only ensures high-speed and reliable transmission of large amounts of data, but also greatly reduces the wiring among the components and improve the reliability of the machine.

## Adjustment of door closing time

The door closing waiting time will be adjusted by referring to number of passengers to save the waiting time and further improve the running efficiency of the machine.

## Parallel control

Two elevators use the communication bus for data transfer so that they can reasonably distribute and conduct parallel control of the call signals using the principle of distance. In other words, when a call is sent, the system will promptly assign it to the nearer elevator that responds faster to minimize the passengers' waiting time

## Dot matrix display

Dot matrix display featuring the merits of abundant characters, vivid displaying effect and good-looking font is used in the hall and the car.

## Arrival chime

Electronic arrival chime is used to, in the process of leveling, remind the passengers in the car and the hall that the elevator is leveling with appropriate voice volume.

## Automatic rescue in power outage

When normal power supply is cut off, the rechargeable battery will supply power to the elevator for it to travel to the nearest floor.

## Door motor protection

In the door opening/closing process, when the elevator door is stopped by external resistance that exceeds a certain value, it will move towards the opposite direction.

## Canceling calls when switching direction

When the elevator switches to the opposite running direction, the sent calls from the car will be automatically canceled and the passengers need to reselect the floors, which improves the running efficiency of the elevator and reduces waiting time.

## Canceling the wrong instruction

After pressing the wrong button which has been responded, passengers can cancel the call by double clicking the wrong button.

## Automatic diagnosis of failure

The codes of recent failures will be recorded for timely and effective analysis of and solutions to failures.

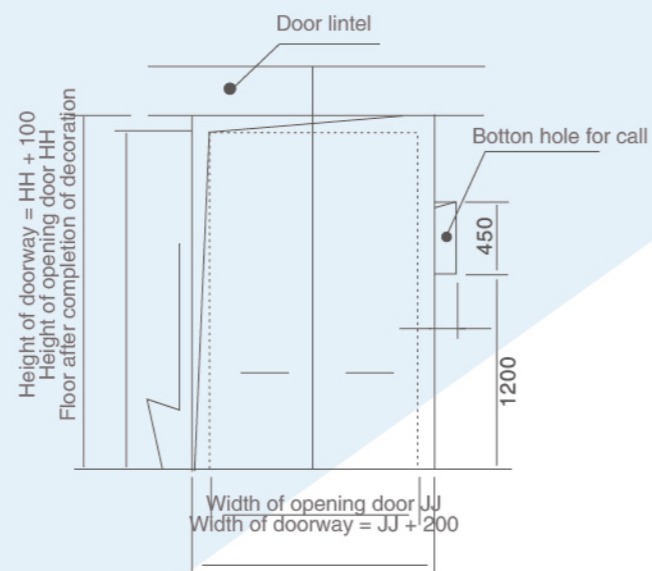
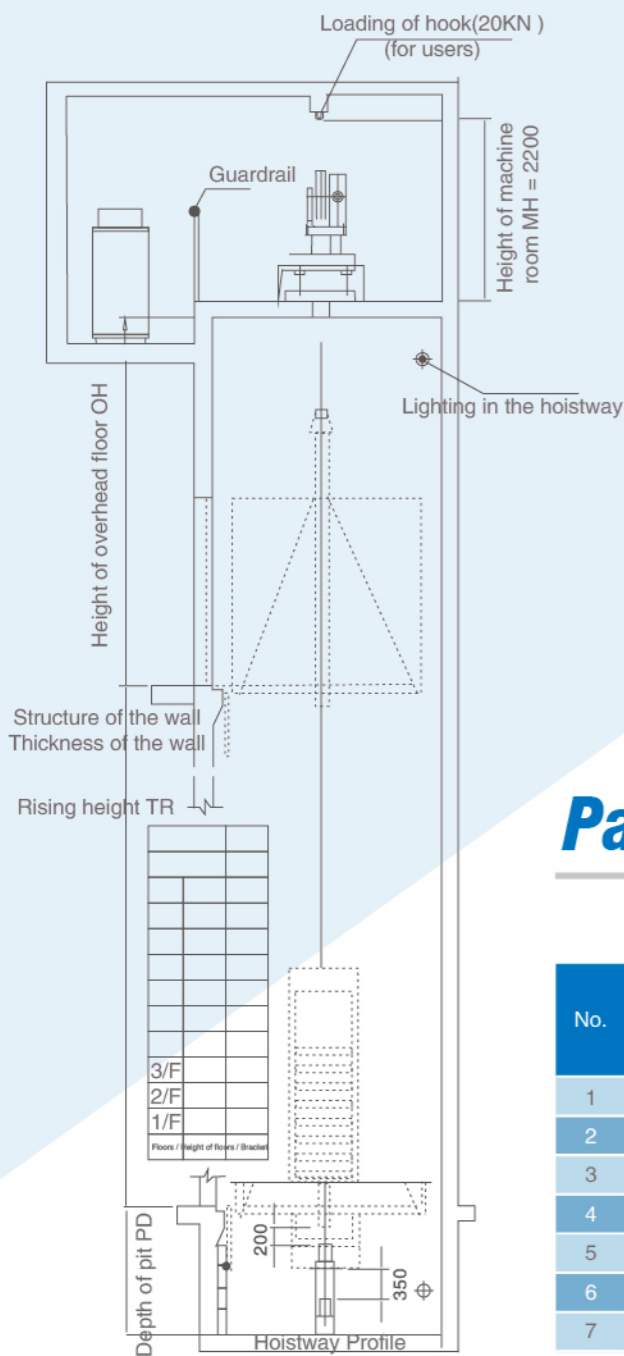
## IC card management

Passengers must use an IC card to gain authority to send calls in the car on all (part) of the floors

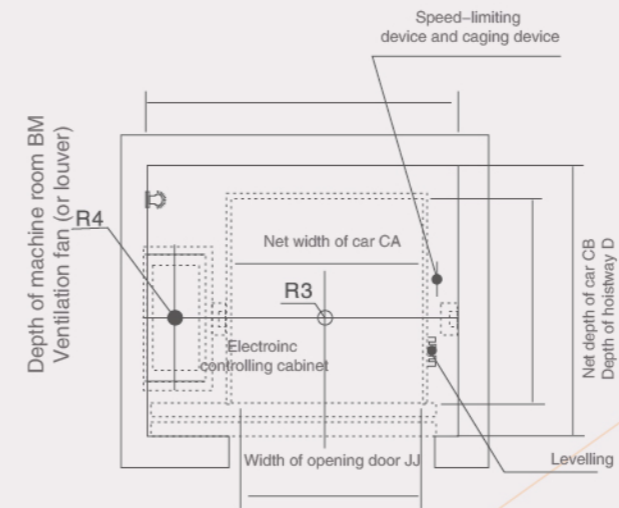


# Technical Planning (Passenger and freight elevators)

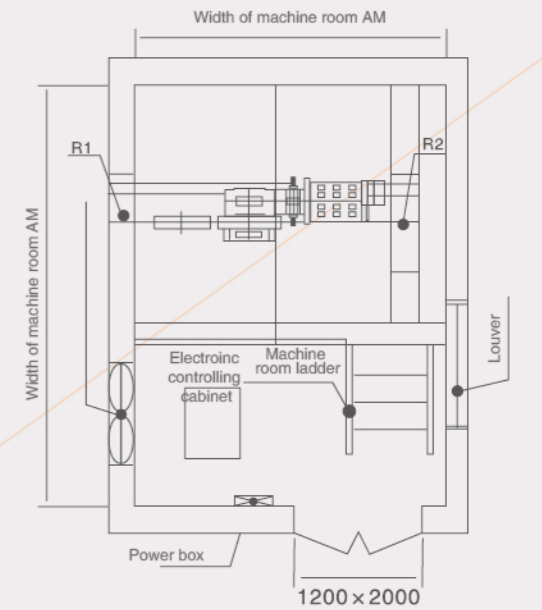
# Schematic Diagram



Schematic Diagram of Door Opening



Hoistway Plan



Schematic Diagram of Machine Room

## Parametric Programming

No.	Model	Rated capacity (kg)	Car dimension (mm) W x D x H	Speed (m/s)	Door opening method	Door opening size (mm)	Rising height (m)	Power of motor (kw)	Hoistway dimension (mm) W x D	Machine room dimension (mm) W x D x H	Height of overhead floor (mm)	Depth of pit (mm)	Main force bearing point			
													R1	R2	R3	R4
1	THJ1000/0.5-JXP	1000	1500x1600x2200	0.5	Double-fold side opening	1300x2100	60	7.5	2500x2200	2900x3600x2200	≥4300	≥1500	30	35	100	80
2	THJ1500/0.5-JXP	1500	1600x2100x2200	0.5	Double-fold side opening	1400x2100	60	11	2600x2600	3100x4000x2200	≥4500	≥1500	65	60	150	110
3	THJ2000/0.5-JXP	2000	1940x2160x2200	0.5	Double-fold side opening	1600x2100	60	11	2900x2700	3200x4200x2200	≥4500	≥1500	75	65	170	120
4	THJ2000/0.5-JXP	2000	1940x2160x2200	0.5	Double-fold center opening	1600x2100	60	11	3000x2700	3400x4200x2200	≥4500	≥1500	75	65	170	120
5	THJ3000/0.5-JXP	3000	2140x2700x2200	0.5	Double-fold side opening	1800x2100	60	15	3200x3200	3600x4600x2200	≥4500	≥1500	80	100	190	155
6	THJ3000/0.5-JXP	3000	2140x2700x2200	0.5	Double-fold center opening	1800x2100	60	15	3350x3200	3700x4600x2200	≥4500	≥1500	180	100	90	155
7	THJ5000/0.5-JXP	5000	2400x3600x2500	0.5	Double-fold center opening	2200x2400	60	25	3900x4200	4100x5800x2200	≥4800	≥1500	200	150	100	150

Longitudinal Section of Well

Note: The company can provide customized design according to the special hoistways of users. For detailed information, please contact our marketing or technical staff.



# Debris Elevator

## The Characteristics

Xizi Xiao's debris elevator can provide fast, convenient and economic vertical transportation for small freight elevators in a variety of buildings. It boasts minimized hoistway space, significant energy efficiency, extremely low running noise, top class passenger experience, and life-time maintenance. Additionally, its car of simple, elegant and people-oriented design makes it a shining example of safety and stability, greatly saving both time and human resources to maximize the beauty of environment.

## The Application

It is widely used in hotels, restaurants, homes, banks, office buildings, hospitals, commercial buildings, factories, libraries, laboratories, postal institutions to deliver things like beverage, tableware, daily necessities, coins, documents, medicines, goods, books, instruments, and letters.

Customers can choose elevators with up-down opening or double-fold side opening door, window type or cart type car according to their own needs.



Cart type car



Window type car

## Basic Parameters

Capacity (kg)	Speed (m/s)	Car dimension (A × B × H)	Hoistway dimension (X × Y)	Door opening size/method (op × h)	Machine room dimension (mm)	Height of overhead floor (mm)	Depth of pit (mm)
100	0.28	700x700x1200	1450x1000	700 × 1200/ Up-down opening	1450x1000x2000	3600	1200
200		800x800x1200	1550x1100	800 × 1200/ Up-down opening	1550x1000x2000	3600	
250		1000x1000x1200	1700x1400	800 × 1200/ Double-fold side opening	1700x1400x2000	2600	

Note: F=A+200

# Debris Elevator Hoistway Plan

