www.chinaxots.com

GOTS

Xizixiao Elevator Co.,Ltd

Factory Address: Mumianzai,Shatou Village,Sanjiang Shitan Town,
Zengcheng District,Guangdong ,Guangzhou
Sales Office: Building B1\B2,Jinyu Commercial Area,Lijing Dadao,
Licheng Town,Zengcheng District,Guangzhou
The central production base: Chihu Industrial Zone Station,
Jiujiang Xian,Jiujiang,Jiangxi
The western production base: No.188,shuanghua Road,
China Southern Airlines Economic Development Zone,Shuangliu Xian,Cheng du
Tel : +86-13226684419
Fax: 020-32633078
E-mail: xizixiaodt@chinaxots.com

2016年版

FREIGHT ELEVATOR

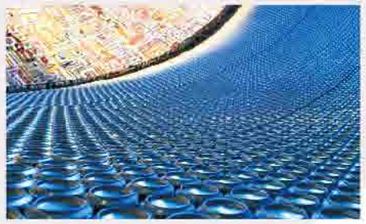
XIZIXIAO ELEVATOR CO., LTD

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 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

Selecotion of Floor Material

Tread steel panel AF01

Tread stainless steel panel AF02 (optional)

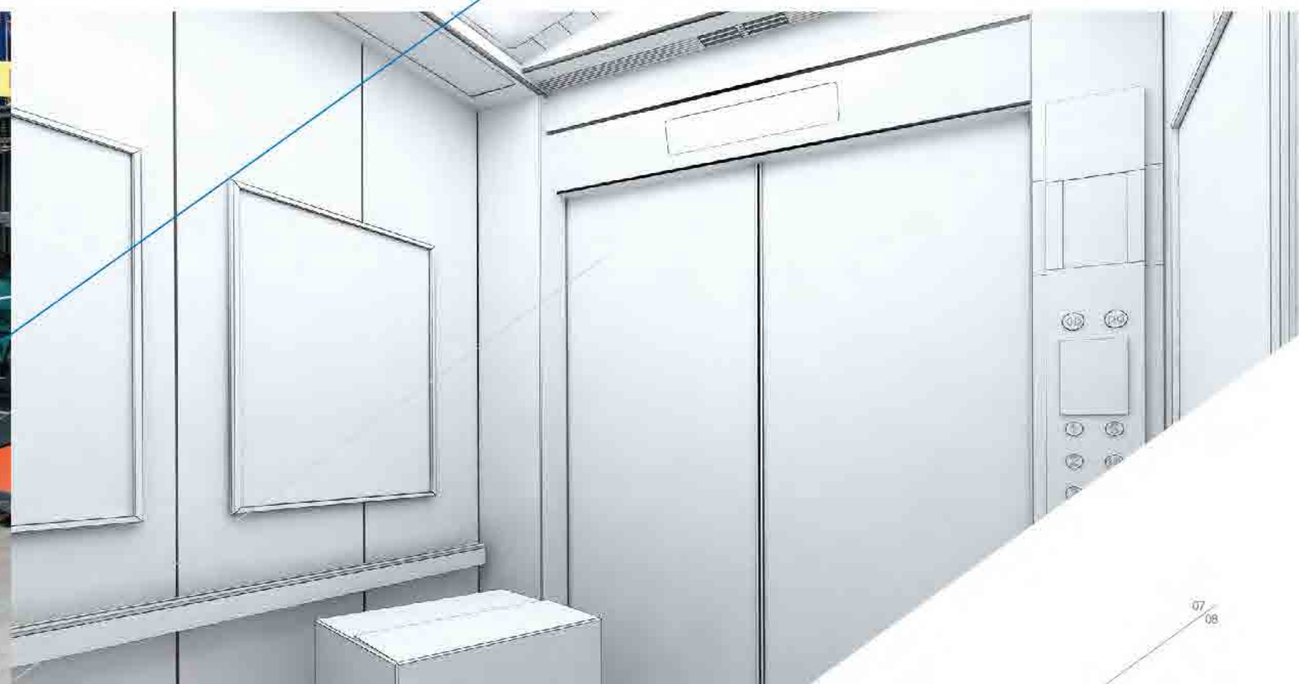
Cabin Configuration

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



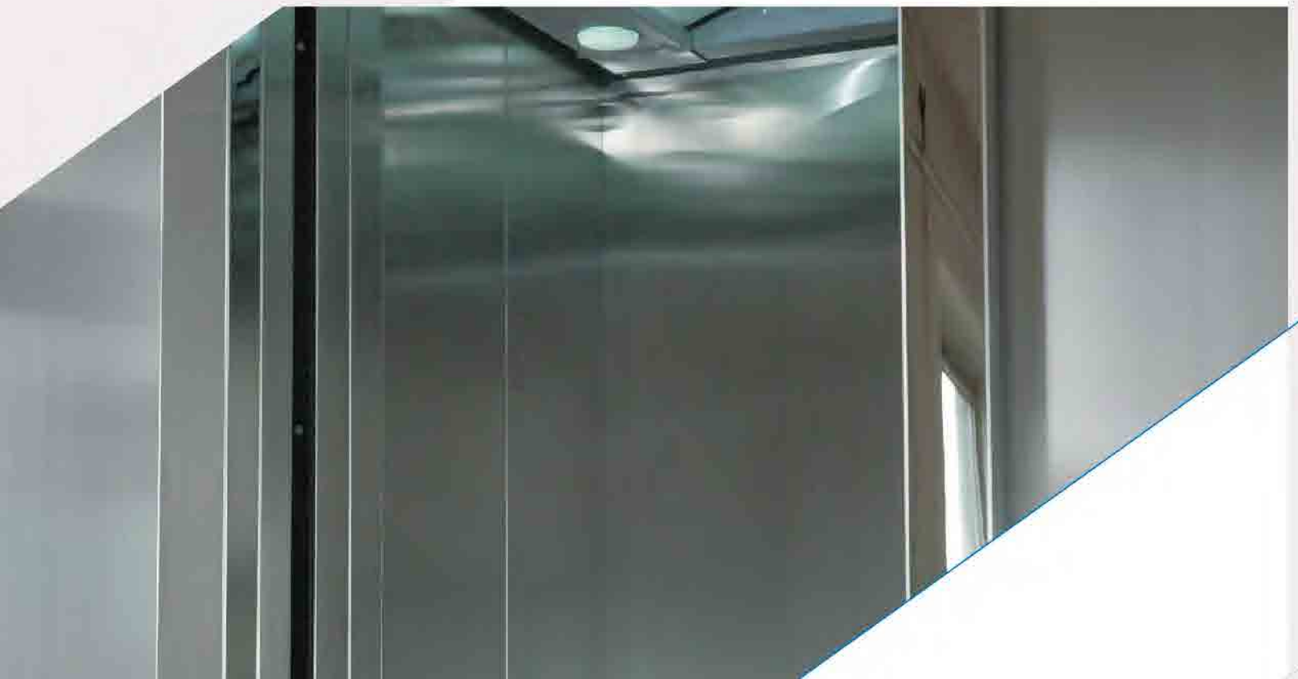
Cabin Configuration

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)

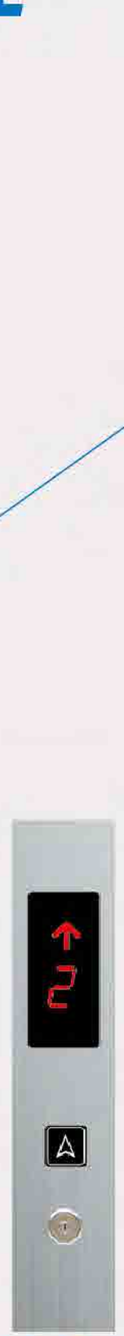
Door pocket: Streak–pattern stainless steel
Floor door: Streak–pattern stainless steel
Door sill: Extrusion zinc–galvanized steel panel



CAR OPERATION PANEL & OUTBOUND BOX

CBC–T100

CBC–T101



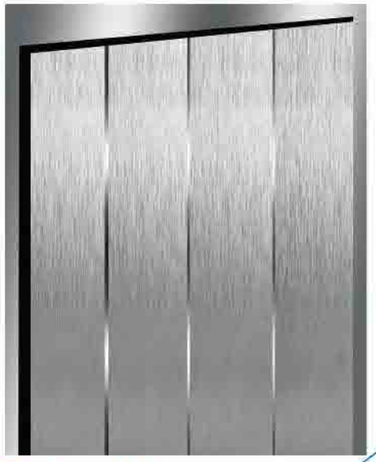
PLC–T100

Door Opening Methods

Central opening

Three–fold side opening

Side opening door



Double–fold center opening

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								
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.

Standard Features

Full collective control
When the elevator runs independently under full collective control, it will respond to calls ofthe 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 thebutton 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 andobjects, 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 carto 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 willbe automatically turned off. But upon receipt of instruction or call signal, they will resume to workimmediately.

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 overspeedmonitoring 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-speedand 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 issent, the system will promptly assign it to the nearer elevator that responses 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 thatexceeds a certain value, it will move towards the opposite direction.

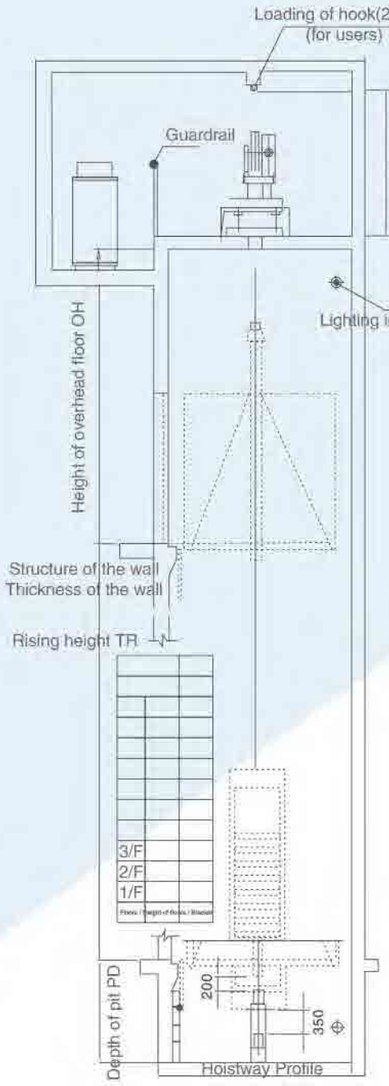
Canceling calls when switching direction
When the elevator switches to the opposite running direction, the sent calls from the car will be automatically canceled and the passengers need to reselect the floors, which improves the runningefficiency of the elevator and reduces waiting time.

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

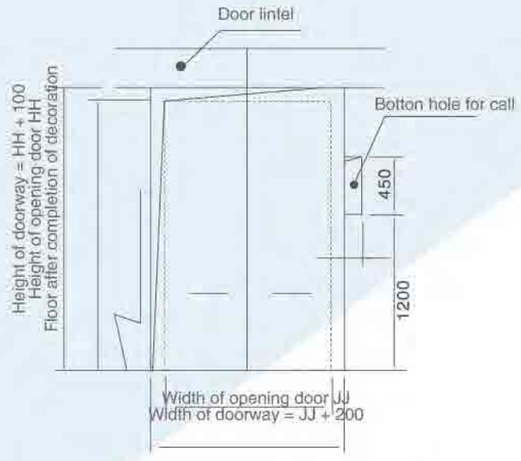
Automatic diagnosis of failure
The codes of recent failures will be recorded for timely and effective analysis of and solutions to failures.

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)

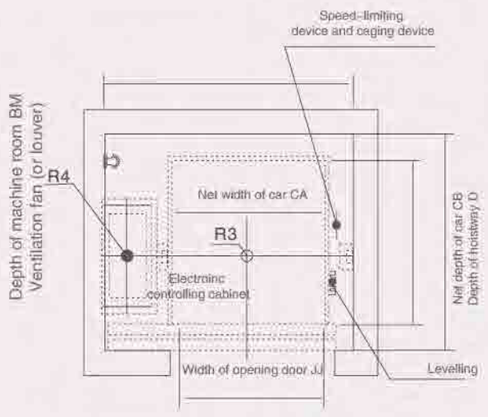


Longitudinal Section of Well

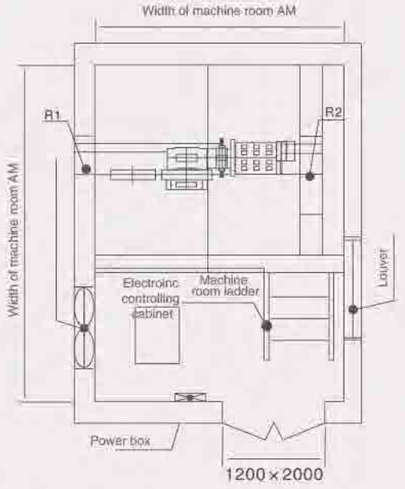


Schematic Diagram of Door Opening

Schematic Diagram



Hoistway Plan



Schematic Diagram of Machine Room

Parametric Programming

No.	Model	Rated capacity (kg)	Car dimension (mm) W×D×H	Speed (m/s)	Door opening method	Door opening size (mm)	Rising height (m)	Power of motor (kw)	Hoistway dimension (mm) W×D	Machine room dimension (mm) W×D×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

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

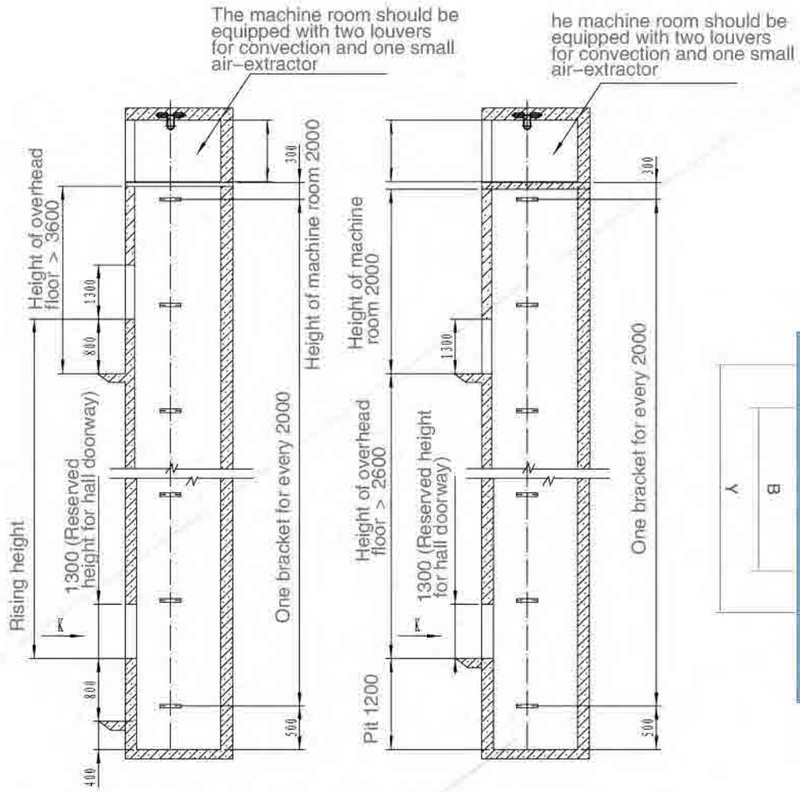
Window type car

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	

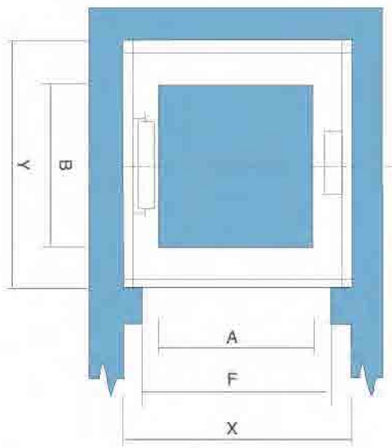
Note: F=A+200

Debris Elevator
Hoistway Plan



Hoistway Vertical Section(Window Type)

Hoistway Vertical Section(Cart Type)



Hoistway Plane Layout

Car Elevator

汽车电梯

随着经济的发展，人们的生活条件不断提高，汽车逐渐走进寻常百姓之家。西子西奥系列汽车电梯，充分利用西子西奥的多年汽车电梯制造技术，结合国内行情而研发的系列。采用先进成熟的控制技术精确调速，高强度坚固设计，避免了因轿厢受力不均而导致的曳引系统负载加重而产生噪音及轿厢抖动，最大程度优化了这一系列产品的特性。令汽车的出入更加安全可靠。可广泛应用于停车场、汽车修理厂、地下车库等场所。

功能特点/The Characteristics

轿厢内设有两只操纵按钮箱，司机不用走出汽车，就可操纵电梯。
专门的电路控制及显示系统，既方便轿内司机，又方便轿外候梯的司机。
轿内地面设有安全导向装置，保证了电梯及汽车的安全。
前后开门的电梯轿厢，更方便了汽车进出轿厢和安全。

Civil Engineering Technology Planning

土建技术规划

一：电梯土建应满足电梯的工作环境要求如下：
1.机房的空气温度应保持在5–40℃之间。
2.环境最高相对湿度不大于90%（在25℃时）。
3.介质中无爆炸危险，无足以腐蚀金属和破坏绝缘体的气体及导电尘埃。
4.供电电压波动应在380V±7%范围内。

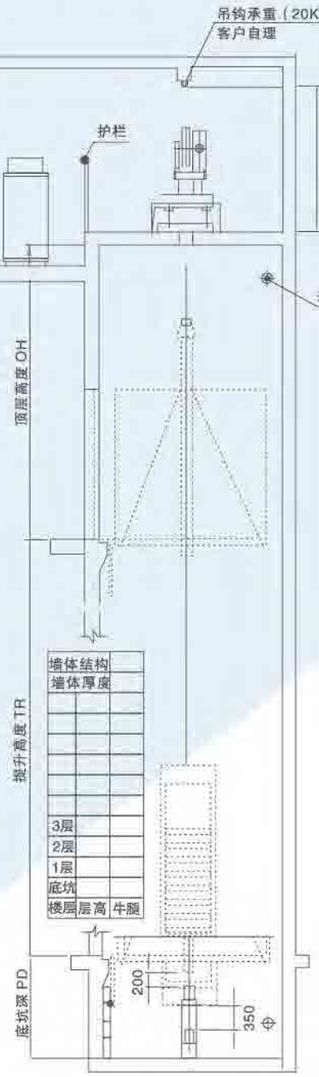
二：机房
1.机房地板应能承受685Pa的压力，地面应采用防滑材料，通向机房的道路应畅通，且门窗应防雨。
2.当建筑物的功能有要求时，机房的地板，墙壁和房顶应能大量吸收电梯运行产生的噪音，主电源开关应装在机房内入口处距离地面1.3–1.5米的墙上，几台电梯共用同一机房时，各电梯的主要电源应易识别。
3.电源采用三相五线制，且零线和地线分开。

三：井道
1.每一电梯的井道有无孔的墙，底板和顶板完全封闭。
2.井道的墙地面和顶板应具有足够的机械强度、坚固和非易燃的材料制造。
3.当相邻两层地坎的距离超过11M时，其中间位置应设安全门。
4.门与活动板均应有锁，当门与活动板开启后不用钥匙也能关闭和锁住，检修门和安全门即使在锁住的情况下，也应能不用钥匙从井道内将门打开。
5.检修门，安全门以及检修活动板均应是无孔的，并且有与层门一样的机械强度。
6.井道顶部应设置通风孔，其面积不得下于井道水平断面面积的1%，通风孔可直接通向室外，或经机房通向室外，除为电梯服务的房间外。
7.井道四壁应垂直，井道尺寸允许偏差值：高度大于30m的井道0±25mm，高度大于60m的井道0±35mm，高度大于90m的井道0±50mm。
8.井道应为电梯专用，井道内不得装设与电梯无关的设备，电缆等，如有应协商处理。
9.采用膨胀螺栓安装电梯导轨支架时，满足以下要求：
A：混凝土墙应坚固结实，其耐压强度应不低于24Mpa。
B: 混凝土墙壁的厚度应在120mm以上。

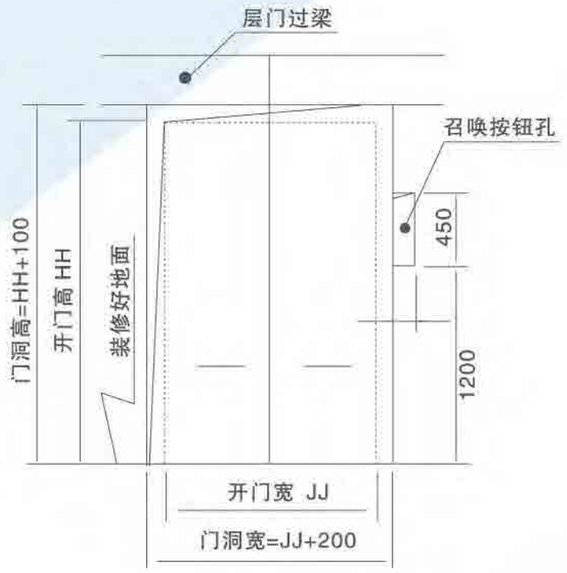
四：底坑
1.底坑不得漏水或渗水，底坑底部应光滑平整且做防水处理。
2.电梯井道最好不要设在人们能够到达的空间上面，如果轿厢或对重之下确有人们能到达的空间存在，底坑的
底面应至少按5000pa载荷设计，并且：
A：将对重缓冲器安装在一直延伸到坚固地面上的实心桩墩上。
B：或对重上装设安全钳。
3.底坑内应设一个电源插座。

五：层门
1.在层门附近，层站的照明，在地面上应至少为50勒克斯。
2.层门口上下应有足够的强度(不小于200mm的混凝土过梁)。
3.每层楼面应有水平基准标识。

Technical Planning
技术规划（汽车电梯）

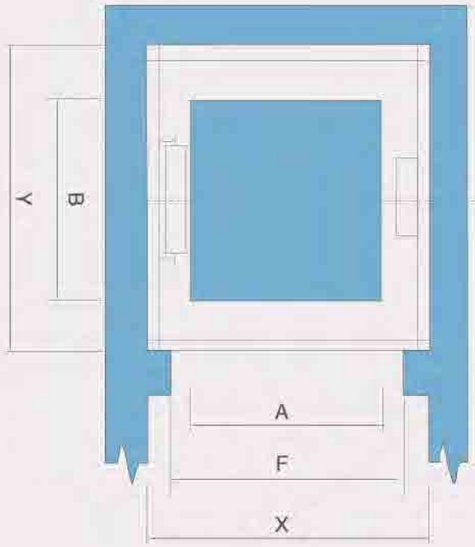


井道剖面图
Longitudinal Section of Well

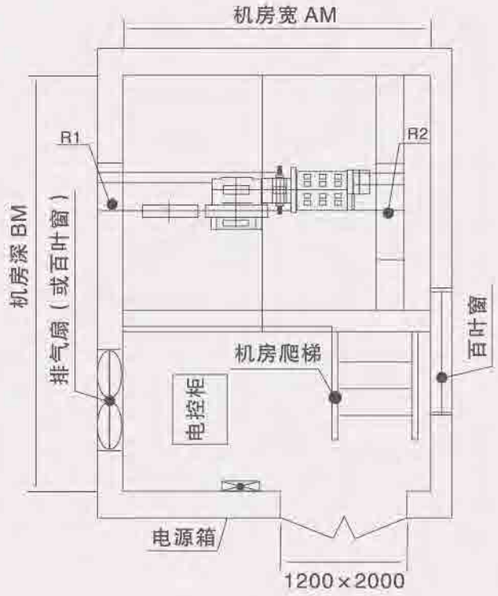


门洞示意图
Schematic Diagram of Door Opening

Schematic Diagram
示意图



井道平面图
Well Plan



机房示意图
Schematic Diagram of Machine Room

Basic Parameters 基本参数

载重(kg)	速度(m/s)	轿厢尺寸(mm)(XxYxH)	井道尺寸(XxY)	开门尺寸/方式(opxh)	机房尺寸(mm)	顶层高度(mm)	底坑(mm)
3000	0.5	2500×6600×2200	4200×6600	2400×2100/中分双折	4200x6600	4800	1700
5000	0.5	2700×7000×2500	4500×7650	2700×2400/中分双折	4500x7650	4900	1700

注：F=A+200