

XIZI 西子电梯

UN-Bed

Hospital Elevator

XIZI2302



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【Pioneer of national brand】

40⁺ years of history

ABOUT XIZI ELEVATOR

Xizi Elevator Technology Co., Ltd. is a comprehensive elevator manufacturing enterprise integrating research and development, manufacturing, sales, installation and after-sales service. Company follow the west more than 40 years of elevator industry accumulation, in adhere to independent innovation, has the abundant research and development strength and complete product system, at the same time, continue deepening the domestic market, expand overseas markets, actively create and develop the global marketing service network system, and is committed to provide the customers with professional technology, products and services.



PRODUCT MARKET POSITIONING

Hospital Elevator

The UN-Bed series of hospital elevators take into account the special characteristics of the environment of hospitals and sanatoriums and adopt Variable Voltage and Variable Frequency (VVVF) control technology when designing the lifts from the perspective of transporting patients. With absolute memory of car displacement, the lift starts and stops smoothly and runs smoothly, making patients feel more comfortable; the soft and warm interior makes passengers feel the humanistic care; the design of enhanced safety performance effectively reduces the probability of accidental malfunction, allowing patients with limited mobility to enter and exit safely, making UN-Bed gearless hospital elevators ideal for hospitals and sanatoriums.

SCIENTIFIC TECHNOLOGICAL

Thoughtful design, fully optimized car structure

Medical lifts are designed for medical institutions, taking into account the special characteristics of medical lifts. Through quality and advanced technology, the company's philosophy is expressed in the best possible way for patients and medical staff.



Maximum Opening of The Door Satisfies The Need of Freely Access of Bed.

Two-panel side-opening sliding doors, the deep design of car depth, make the opening of door to the maximum, more convenient for the free access of bed.



VVVF Control Makes The Lift Run More Stable And Quiet

The control system uses the VVVF Variable frequency technology so that the lift starts and stops more steadily. The machine uses the global famous HEIDENHAIN encoder which accurately controls the speed of the machine, creating a quiet, warm space for the patients.



DECORATION CONFIGURATION



COP



COP BUTTON



iBS34M(BL)
Type: Hairline/mirror/ titanium st. steel BL button

Standard



iBR34M(BL)
Type: Hairline/mirror/ titanium st. steel BL button

Optional

Standard
Integrative COP
U-CY 100
Material: Hairline st. steel



Standard Decoration U-CR089

Ceiling: Hairline stainless steel+ painting
steel(black)+acrylic + Canister light
Handrail: Hairline stainless steel
Cabin wall: Hairline stainless steel
Floor decoration: PVC

HOP



HOP BUTTON



iBS34N(B)
Type: Hairline st. steel BL button

Standard



iBR34N(B)
Type: Hairline st. steel BL button

Optional

U-ZW1600
Material: Hairline st. steel

Optional Cabin Decoration



U-CR090

Ceiling decoration: Stainless steel+ acrylic
Handrail decoration: Hairline stainless steel
Cabin wall decoration: Hairline stainless steel
PVC Floor decoration: PVC



U-CR091

Ceiling decoration: Stainless steel
+ Arched acrylic+ Flat acrylic
Handrail decoration: Hairline stainless steel
Cabin wall decoration: Hairline stainless steel
Floor decoration: PVC



U-CR092

Ceiling decoration: Stainless steel + acrylic
Handrail decoration: Hairline stainless steel
Cabin wall decoration: Hairline stainless steel
Floor decoration: PVC

FUNCTION LIST

- Standard function
- Optional function

► Safety For Passenger

Function	Description	Remarks
Light curtain Protection	Light Curtain acts if there is any obstruction between door panels. the door will be reopened. This function will not be available during the fireman's operation. Class of light curtain protection: IP65.	●
ANS-Anti-Nuisance Car Call Protection	If there is only one passenger in the car, and an excessive number of call calls is registered, nuisance is detected and all car calls will be canceled, requiring registration of proper calls.	●
LNS- Load Non Stop	When a car is loaded to a predetermined percentage of its capacity, it is considered "full". The car will bypass further hall calls. Additional passengers would be unable to enter.	●
LWS-Overload Protection	If the load exceeds the rated load, the sound signal will be given out by the speaker, and "OVERLOAD" will be displayed, the car door will not close, the elevator will not start.	●
Button anti-adhesion protection	If adhesion on a button due to mechanical fault, the elevator will shield the button and no longer respond to the order from this button	●
Door closing torque protection	The door operator had set the closing torque, in case of jamming over the torque, the door will not close by improving the torque	●
ELTU-Emergency light	Emergency light in the car will start whenever there is a power cut.	●
ALARB-Alarm Bell	An alarm sound signal will be given to the outside by pressing alarm button in specific conditions.	●
DTC-Door Time Protection Close	If the car door does not close completely within an adjustable time after the door close command, after three unsuccessfully retries, the elevator will automatically enter a protection state. When normal door closing is detected, the elevator will recover to normal running.	●
DTO-Door Time Protection Open	If t car door does not open completely within an adjustable time after the door open command, car call and hall call signals will be automatically cancelled, and the elevator will stop at the next floor and open its doors.	●
Door panels forced the closing upon gravity	If the hall door connecting wires fails, gravity will force the main panel and auxiliary panel closed.	●
Mechanical stop for landing door forced opening	The function is to protect the person outside the landing door in case the wire rope of the landing door breaks	●
NTSD-End Protection	Both upper and lower terminal of the elevator is equipped with a terminal speed reducing switch and terminal limit switch, if the speed is not slowed to the preset value while the cat reaches the end floor, a forced deceleration will be carried out by system. in order to protect the safety of the car.	●
EFO-Emergency Fireman Operation	Upon recognition of fireman's service, a car shall return non-stop to the designated return landing and park with the doors fully open.	●

Fire feedback	When fireman operation is finished, a signal will be feedback to facilitate access to the building system.	●
Local leveling	Light Curtain acts if there is any obstruction between door panels. the door will be reopened. This function will not be available during fireman's operation. Class of light curtain protection: IP65	●
Door Opening Prohibition Outside Door Zone	For safety, door opening is disabled outside the door zone	●
Fault Self-Diagnosis	When a control circuit abnormal is detected, automatically stop the elevator to ensure the safety of the passenger.	●
Fire Display	There is display inside of the car when the list enter into fireman operation.	●
ARD-Automatic Rescue Device	This device is used for rescue operation in case of power shutdown, it is powered by a rechargeable battery, when a sudden power cut happens, the car will move towards to the near floor, keeping the door open to the passenger.	○
Earthquake Operation	With this function, in case of earthquake, earthquake detector acts and inputs signal to control system which drives elevator to near floor, opens door to release passengers and stop. (Earthquake detector shall be solved by customer)	○
Core Closing Anti-stall Function	When the elevator stops, it will start core closing circuit. During current production for cutting line of magnet-ic force of the permanent magnet, opposite torque is produced to avoid stall due to braking failure.	○
Light Sensor And Safety Edge Protection	Passenger access to the cabin is guaranteed by the dual action of a reliable mechanical flap and a sensitive infra-red light beam.	○
ACP-Anti Crime Protection	When the function is activated, the lift will open for inspection after a pre-set number of floors.	○
EFS-Emergency Fireman’s Service	When the preset key switch inside the car is activated, the lift cancels all summoning signals and the lift can only respond to commands inside the car to cooperate with the firefighter to extinguish the fire, this function needs to be used in conjunction with the fire fighting lift.	○
Password Floor Service	The password layer service function allows you to set a password for a specific floor in the building using the button inside the car to manage access to the building.	○
EPO-Emergency Power Operation	In case the regular power supply shuts down, the power supply of cars turns to Emergency Power, then cars in group except for cars in inspection mode run to defined landing (or next landings) one by one. After arrival to rescue position, the cars open doors and let passengers out. It’s available to define a part of cars in group for normal service during EPO which is needed by some users. The return to full normal operation is done automati-cally when the regular power supply is reestablished.	○

► Elevator basic function

Function	Description	Remarks
Floor Display	There is an arrow display in COP and HOP to show the running direction to the passenger.	●
FCL-Full Collective Operation	All car and/or hall calls registered are answered in the order in which the landings are reached. The direction of travel will be established by the first car command/hall call registered. All calls on their way will be served, irrespective of the time sequence in which the calls were registered.	●
ATT-Attendant Service	The attendant operation feature allows semi-automatic operation with manual control through the switch in COP.	●
Attendant Bypass	In-state of attendant operation, if the button NSB in COP is pressed, the elevator will not answer to hall call and directly run to the destination floor.	●

Reminding for Attendant	When hall call is registered under ATT, the corresponding command lamp will flash to remind the attendant to learn the situation of such registration. The function acts together with ATT.	●
VIP Independent Service	A special feature for VIP passengers that allows them to reach their destination floor as quickly as possible.	●
CBC-Cancel Error Calls	Before the car starts, the registration of a car or operation can be cancelled by a double click of this button. After the car starts, registration cancellation will not be allowed for the sake of passengers' safety. The function can be made available by parameter setting.	●
Automatic elimination of reverse command	When the first or last landing is reached and elevator has to reverse, all commands originally registered will be eliminated.	●
Door Re-opening	During normal door closing, when the call button that indicates the direction consistent with current running direction is pressed in the hall, the door will be re-opened.	●
Door opening	When the elevator stops in door zone, the opening button can be pressed in the car to re-open full or partly closed door.	●
Locking at main landing	When the locking switch is set, elevator back to the main landing, stop using.	●
Braille Button	Push-button with braille, convenient for the blind	●
ADO-Advanced Door Opening	In order to accelerate traffic, automatic door opening starts while the elevator car approaches a landing	●
Car Arrival Gong	During speed reduction and leveling, arrival gong on car top sounds to inform passengers and waiters of leveling and arriving.	●
Automatic Return To Main Landing	With this function, when there is no order or calls, after a period of time the elevator will automatic return to the main landing.	●
FLP-Fan And Light Protection	Elevator will enter energy-saving mode under no operation, turn off the car light and fan automatically within present time after door closing, and resume after new command is received.	●
DOB/DCB –Door Open/Close Button	The door open/close button in car operation panel permits to open/close an automatic door, and keep it open/close by constant pressure.	●
DOB/DCB –Door Open /Close Button Light	Door open/close button will be highlighted if the buttons are pressed	●
Separate Control DHT Of Car And Landing Door	The waiting time caused by hall call is longer than car call according to statistics, this function to improve efficiency through independent adjusting the door open holding time.	●
ADC-Advanced Door Closing	When the door is fully open and under the door hold period on normal running, push the door close button can close the door in advance.	●
Torque Compensation On Starting	To make the elevator more comfortable, the system calculator the load in car, optimize it by compensating the torque on starting.	●
Voice Calm	Overtime, overload, fireman operation, and leveling to nearest floor under fault, or open/close the door, automatic voice announcement will be played on calm and guide the passenger.	●

Digital Display In Hall And Car	The lift's floor station is displayed at all times on the control panel inside the car and on the lobby call box on each floor. This makes it easier for passengers to know where the lift is currently running.	●
LED Display In Car	Use the LED display as a high-class in-cabin display.	●
DHB-Door Hold Button	Can adjust the door open time through the DHB on the COP when need to hold the door opening.	○
Voice Announcement	With the function, the voice announcer announces floor to be reached on each landing, and forecast subsequent running direction before each door closes.	○
IC Card System	IC card management implements the right management for specific floor through car and hall card reading system, intelligently manage the passengers. The function is only effective for the elevator and can' t be integrated with other IC card management systems in a building.	○
RLEV-Re-Leveling Operation	Stopping error between the car sill and landing sill exceeds a limit due to load changing of passenger shall be corrected by automatically re-leveling.	○
Door Opening For Standby At Main Landing	With the function, when elevator is not used, it will wait with door opened at main landing.	○
Visit	The function is to open the elevator for visitors.(The function acts together with building system and intelligent IC system)	○
Hall Arrival Gong	Up/down arrival gong will be provided in the hall on each landing to inform passengers of arriving of the elevator with this optional function.	○
Second Operation Panel	Second Operation Panel can be provided in addition to main operation panel, passenger can register and door operation via Second operation panel.	○
Operation Panel For Handicapped	Operation panel for handicapped can be selected for special operation by handicapped.	○
Machine Room Sound Insulation And Shock Absorber	There is sound insulation and shock absorber under the machine bearing, to reduce the noise between cabin and top floor.	○
PRK Parking	Elevators in the same group will park on different floors once spare in order to shorten the response time.	○
CFT-Cafeteria Time	More open time for the cafeteria floor to meet the requirement of the extra passenger flow.	○
MIT&MOT-Moderate Incoming &Outgoing Traffic	Aiming at relieving the traffic peak in the building, for example, morning peak or evening park, all the elevators on services at the lobby will be activated once the load reached a predetermined value (generally 50%), and this model will continue at the predetermined peak times. (This function is only available to triplex and group control.)	○
Multimedia Display	Multimedia display can show the video or music ordered by the customer	○
Over Station Warning	Elevator will remind the passenger through buzzer over station, provide special service for blind passenger.	○
Time Setting	Time setting to auto controls the elevator.	○

► System Safety

Function	Description	Remark
Contact Detection And Protection On Safety Contactor	The system detects reliable action of safety relay and contact on contactor. If nonconformity of action of contact with driving state of coils found, any work in car will stopped.	●
Brake Feedback & Detection	The brake relay signal is always monitored. If nonconformity of actual state of brake relay with the preset command is found, running will be stopped.	●
Independent Dual Brake	Independent actuators are used for the main engine	●
Running Time Limiter	If leveling switch doesn't act after continuous running for time specified by running time limiter (max 45 s), any work in the car will be stopped.	●
Over Speed Protection	The function is to protect elevator against safety problem caused by running at speed out of control range	●
Low-Speed Protection	The function is to protect the elevator against safety problems caused by running at a speed lower than the control range.	●
OHT-Drive Over Heat Protection	Self-protection mode will be achieved if the temp of the motor exceeds the preset value due to the heat made by the motor itself or the high temp in the environment. The car stops at the nearest floor, unloads and shuts down the light and ventilation device; once the temp falls down to normal, the car will recover.	●
Safety Circuit Fault Protection	When a safety circuit fault signal is received, the elevator will be subject to an emergency stop, and prevented from running under fault.	●
Main Control CPU WDT Protection	WDT protection is provided on main control board. When the fault of CPU or program is detected, WDT circuit will forcibly disconnect main controller output point and reset the CPU.	●
Grid Filter Monitoring	If the voltage fluctuate continuously in one period, system will auto alarming.	●
Speed Detection	Once the system detects the actual running speed is unconformity with the preset speed, will shut off the safety circuit automatically and alarming	●
RIN-Re-Initialized	When the power is recovered from a cut, position signals cannot be given or the position cannot be detected, the car will move to lobby and reinitiate. After that, the floor info can be displayed and the elevator backs to normal.	●
Recover Running	Elevator recover from shut off, if it's out of the leveling zone, the system will run to the leveling position under lower speed, and auto opens the door to recovery.	●

► Maintenance function

Function	Description	Remark
Five Parties Intercom	The function is to keep contact with the machine room and monitoring center via intercom system provided on COP, car top, and pit. Cable from machine room to monitoring center shall be solved by the client.	●
Floor Height Self-Learning	Elevator automatically learns the floor height	●

Self-Position Of Max. Torque	After each power failure recovery, the elevator re-establishes the absolute position of max. Torque point to ensure running in high efficiency state.	●
Machine room safety distribution box	Controls the power up and power down of the lift and enables the power down and lock function to enable maintenance personnel to control the lift effectively. Protection against overloads and short circuits.	●
Pit Ladder	The ladder is provided in pit for the maintainer	●
Fault Recording/Reference	The latest 20 faults can be recorded, including the fault time, floor and code.	●
TCI-Top Of Car Inspection	An inspection box is provided on the top of the car, safer and easier to maintain	●
Inspection In Machine Room	Inspection running can be carried out in machine room	●
Leveling Adjustment	If there's slightly deflection in elevator leveling, manual intervention can be implemented with the function	●
Test Running	The function is designed for testing or examining new elevators. The elevator can automatically run after some parameters of AIO are established as state of test running. Total times of automatic running and interval between runs can both be established by parameter setting.	●
Full Shaft Double Control Lighting	Double control lighting is provided by installing lamps through the shaft wall.	●

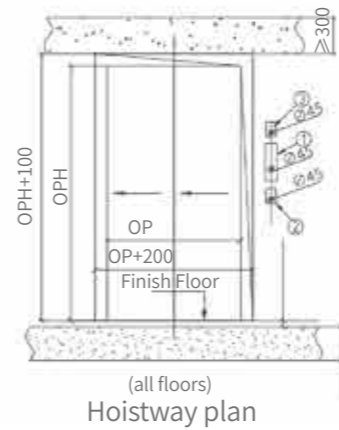
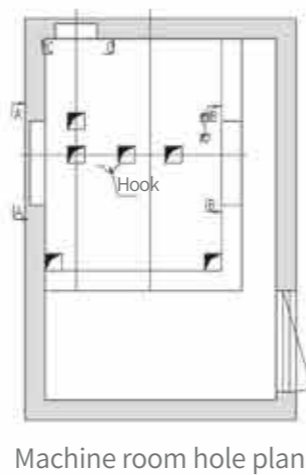
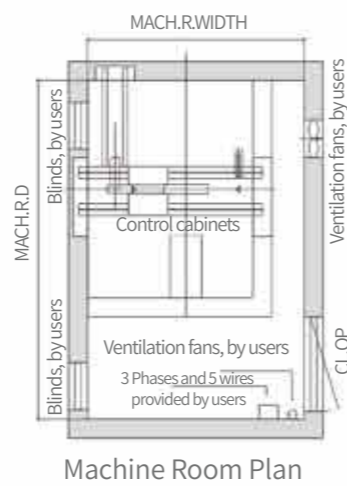
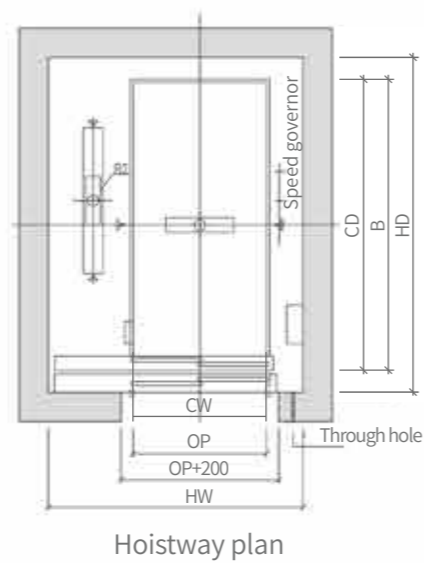
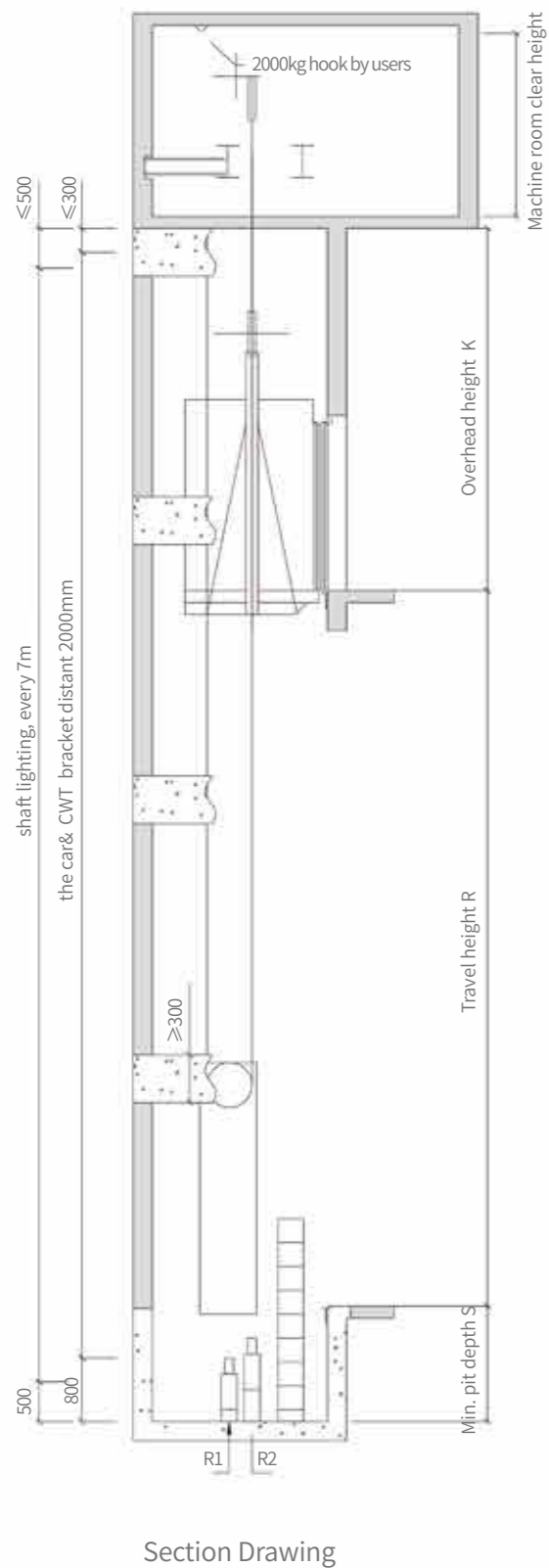
► Extension Function

Function	Description	Remark
Special Letter Display	The character shown on each floor can be set via a manipulator. For example, shown B for Base floor.	○
Group Control	Used for two or more elevators, response with the optimized solution, avoid the repeated stopping, save the waiting time of passengers, increase the efficiency.	○
BA-Building Monitor Ports	Elevators with BA function can provide scattered elevator status for computer management of the building, such as running directions, floor numbers, safety signals, door signals.	○
REM	24 hours remote elevator monitoring can be implemented through internet or telephone line. Auto alarming to REM center when elevator faulty.	○
AMS-Area Monitoring Screen	It can be installed in the porter's lodge, simply display the condition signals by LED indicators and lock/unlock the elevator.	○
Air Conditioner	Specifically designed for the air conditioning in the cabin, it is an independent circulation system, through the automatic atomization of condensate, automatic switching of the working mode and water level limit protection, air purification, and other functional adjustments, so that the air temperature, humidity, cleanliness and airflow speed parameters in the cabin remain within the range of human comfort, creating a cool space inside the cabin.	○
UV Sterilization	UV Sterilization system cleans the air into the cabin.	○
Negative Oxygen Ions Bactericidal	Add the negative oxygen ions generator to the ventilation system, sterilization, and purification of the air in the cabin	○

*For more functions please consult the sales representatives

LAYOUT

UN-Bed Gearless hospital elevator



- 1.Button and display
- 2.LOP only for base floor
- 3.Fire switch(if have EFS), only for base floor
- 4.Suggest to use 45mm PVC tube for wire reservation

Done by the owner & builder

1. Any equipment, power supply or hole not relating to the elevator should not be installed in the hoistway, and all building parts in the hoistway should comply with the fireproof requirements.
2. Hoistway should be vertical enough with tolerance 0~+25mm/0~30m, 0~+30mm/30~60m, 0~+50mm/60m.and its min. horizontal size is regarded as the hoistway size marked in the drawing.
3. The counterweight should be installed on a solid base that stands on the strong floor directly or a counterweight safety should be installed if there, under the pit, is a space big enough for access of the person.
4. All the hole for the landing door must set safety protection barrier, with height no less than 1.2m and enough intensity before installation of an elevator.
5. Close hoistway should own ventilating hole (usually at the top or bottom) with protection net and the whole square is no less than 1% of the whole hoistway horizontal square.
6. The reserved hole for the landing door, calling display units etc. should be filled in after the installation of an elevator.
7. It's better than the hoistway is made of concrete. If it is made of brick, the concrete The enclosure of 300mm height should be made in the hoistway wall where the guide brackets will be fixed. Besides, the concrete girder of 300mm height, with the same width as that of hoistway should be the edges of the hole (up and down the edge) that is pre-placed for the landing door.
8. A safety door (neither less than 350mm width nor 1800mm height) should be installed and shouldn't be allowed openly to the hoistway if the distance between the two adjoining sills is more than 11m.Safety door shall be equipped with a lock that can be opened and closed without The key, and even can be opened inside the hoistway when it is locked.
9. The pit should be waterproof and the plash should be placed at the corner of the pit.
10. According to the requirement of the technical parameter sheet, the power should be lined to. the machine room with a protection switch and in the lock. The fluctuation of the power should be less than $\pm 7\%$. The N wire and earth wire should be separated and the ground resistance is not more than 4ohm.
11. All reactions marked in the drawing include impact amendment unless it is separately marked force.
12. The matters (Bearing PLATE etc.) prepared by the customers shown in the drawing should be pre-placed.
13. The temperature of the machine room should be kept between 5-40°C. The floor of the machine room should be flat and can bear the average load of 7.0KN per square meter.
14. A rescue room and communication line shall be installed by the customer. A six-core RVSP ($3 \times 2 \times 0.75\text{mm}^2$) is needed when the distance is less than 500m and a category V is needed when it is more than 500m.

Notes to users

1. Technical condition is the important constituents of the layout, must be complied strictly. For other items not mentioned above, please refer to national code En81;
2. If the layout construction didn't execute according to this drawing and item, the modification should be responsible by the client, and the related after effect be bored by the client;
3. If there are changes of above layout dimension, please inform us in writing in time, it can't be changed unless getting our confirmation.

Capacity (kg)	Speed (m/s)	Cabin inner size CW(mm)×CD(mm)	Opening size OP(mm)×OPH(mm)	Shaft inner size HW(mm)×HD(mm)	Pit depth S(mm)	Over head K(mm)
1350	1.0	1300X2250	1200X2100 (2P-SO)	2300X2810	1550	4550
	1.5				1650	4750
	1.75				1750	4850
1600	1.0	1400X2400	1300X2100 (2P-SO)	2400X2960	1550	4550
	1.5				1650	4750
	1.75				1750	4850

· The above example drawing is for reference only.