

XIZI2504



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**XIZI ELEVATOR CO.,LTD.**

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The content of the sample is for reference only, and the actual product shall be subject to the contractual agreement between the parties and the actual product.

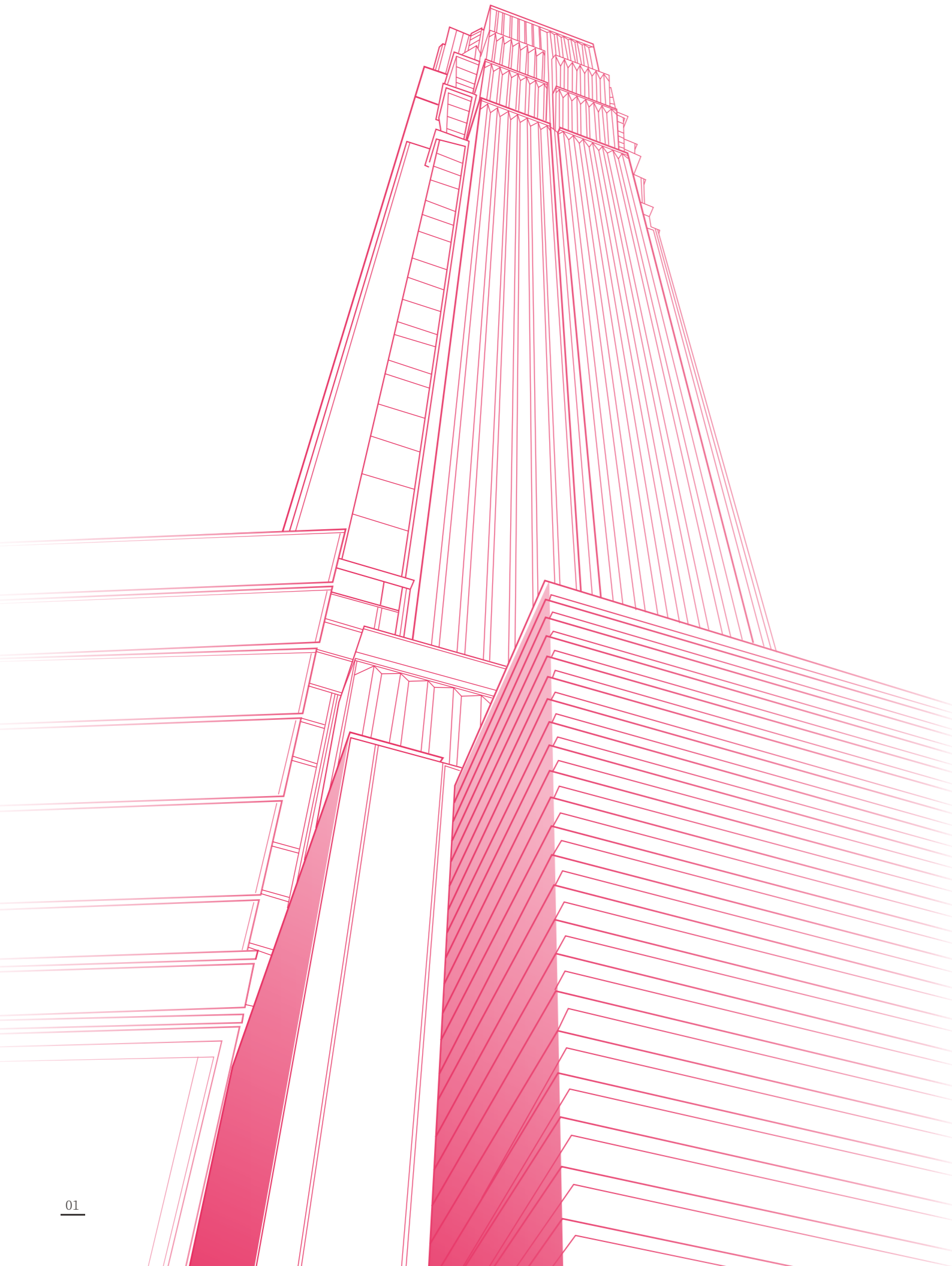
XIZI ELEVATOR

# High-speed Elevator

S-Speed

Passenger Elevator Create Infinite Possibility For Building Traffic

**XIZI**



**[Pioneer of national brand]**

# Over 40 years of history

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## ◆ **ABOUT XIZI ELEVATOR**

XIZI Elevator Co., Ltd. is a comprehensive elevator manufacturing enterprise integrating research and development, manufacturing, sales, installation, and after-sales service. Inheriting over four decades of experience of the **XIZI 西子**® brand, the company boasts strong research and development capabilities and a comprehensive product system. It constantly insists on independent innovation, continuously deepens its domestic market, expands overseas markets, actively creates and develops a global marketing and service network system, and is committed to providing more professional technology, products, and services to customers.



# PRODUCT MARKET POSITIONING

## High-speed Elevator

S-Speed is a new generation of intelligent elevator integrating intelligence, humanization, and technology, with a maximum speed of 10m/s. It is widely used in high-rise residential buildings, high-end office buildings, star hotels, commercial centers, and other types of buildings. Its safe, comfortable and efficient performance brings more pleasure and speed to people's modern life.

## ENERGY SAVING AND ENVIRONMENTAL PROTECTION

Experience the efficient and smooth operation of the elevator with a green vision, and enjoy a spiritual journey between spaces.

### ► Energy saving machine

#### ■ Energy saving and environmental protection

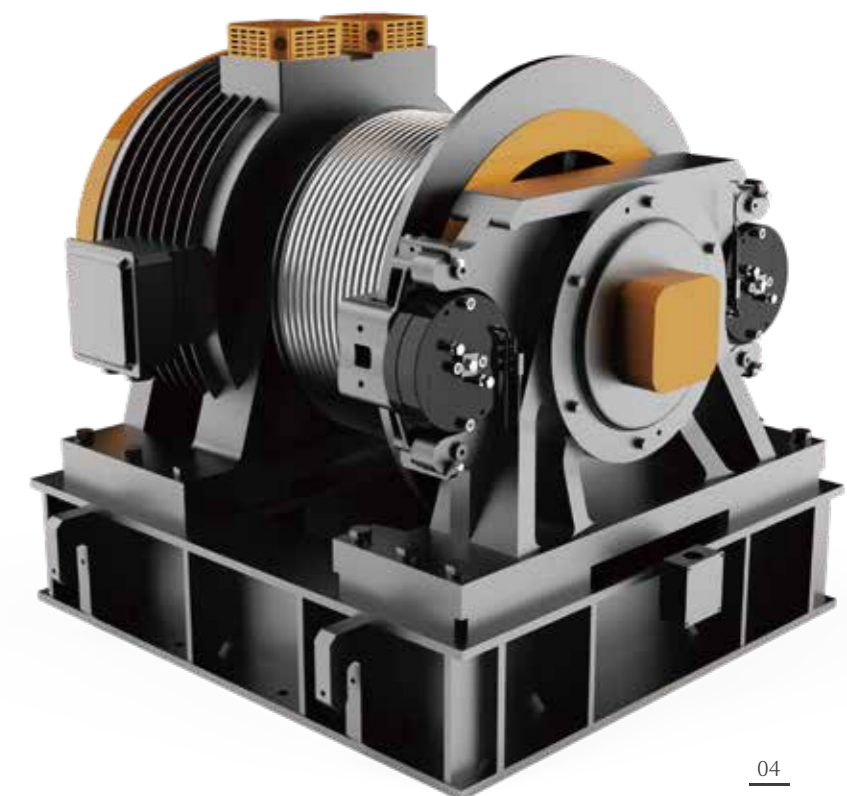
GETM series high speed permanent magnetic synchronous gearless traction machine specially designed for high speed elevator, saves more than 45% energy compared with geared traction machine.

#### ■ Comfortable running

Equipped with imported brakes, to provide sufficient security for the high-speed operation of the elevator. Imported rotary encoder to ensure the elevator installed at the best speed every time, to provide a highly comfortable passenger performance.

#### ■ Low noise

Equipped with imported brakes, 5~10dB lower than traditional brakes. The machine bedplate is flexibly installed to effectively reduce the impact of start-stop vibration.



## ► Lighting system



Adopting LED light source, energy saving and environmental protection.



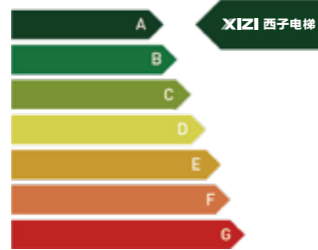
Adopting voltage and current overload protection technology, which is safer and more energy efficient, saves more than 80% of energy compared to incandescent lamps.



The car lighting and car fan are equipped with an automatic switch function, which automatically starts when someone calls; when no one calls, the car lighting and fan are automatically switched off. This allows the lift to be energy efficient and continuously on call.

## ► ISO energy efficiency standard TUV certification

ISO25745 is the international elevator energy consumption rating standard. XIZI ELEVATOR has obtained TUV certification of ISO25745 energy efficiency rating. Achieve the highest grade A.



## ► Energy regeneration system (5-10 m/s standard)



Through the energy regeneration system, the energy generated when the elevator is fully loaded down or lightly loaded is converted into electrical energy and fed back to the grid for use by the equipment under the grid

# COMFORTABLE ENJOYMENT

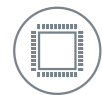
Let every encounter become a lasting impression  
Let comfort be your unique experience

## ▶ Control system

### Independent R&D Original factory and brand

S-Speed adds the application of 5G in control systems. The control cabinet is connected with the components, and the speed of the control processor is increased by 67% compared with the ordinary control cabinet. The transmission BUS is changed to CAN-BUS, which makes the foundation of intelligent transmission stronger and the operation of the elevator more stable.

The control cabinet itself becomes a network terminal, with its own network transmission function, no additional data processing terminal, reduce the user's network hardware requirements, can effectively save costs.



#### ● Precise control

Dual 32-bit CPU configuration with dual security protection for the control processor and drive processor, for the strongest security in elevator operation.



#### ● Comfortable experience

New load sensor-less start compensation technology provides excellent start-up comfort.



#### ● Run efficiently

Advanced direct stopping technology and more reasonable group control ladder logic are adopted to improve elevator carrying efficiency and save waiting time.



## ▶ Door system

### Independent R&D Original factory and brand



#### ● Science and technology intelligence

With 32-bit DSP as the core, the permanent magnet frequency conversion synchronous one-control and two-drive technology is adopted to control the speed of two kinds of motors. Under abnormal conditions, the power source can be intelligently selected to adjust the rhythm of opening the door of the car, effectively preventing the elevator from clamping people.



#### ● Waterproof motor

High protection grade motor, tested and certified by the National Special Inspection Centre, IP grade up to IP54.



#### ● Safety&efficient

The door machine adopts a double motor and double door knife configuration. Safe and reliable, low noise, high efficiency. The noise is only 50dB(A). The shortest opening time is 2S; It can adapt to a wide voltage fluctuation range of  $\pm 20\%$ . The electronic door lock is adopted to effectively prevent pulling the door on non-flat floor and ensure the safety of passengers.



#### ● Wind and noise reduction

Simple and compact structure in the form of a maze. Enhanced resistance to wind pressure and reduced noise in the car.



# SAFETY&EASE

Each meeting safeguards you, building trust with reassuring service  
Break the limitations of time and space



#### ● Light curtain door protection

1. Fault shielding function: when a non-adjacent photo-electric sensor fails, the light curtain shields it, the light curtain continues to work, and gives a fault warning; When more than five sensors are shielded due to faults, fault protection is performed;

2. Light curtain protection grade IP65;

3. Alarm function: When the light curtain fails, a warning message is given.



#### ● Car door lock

Prevents passengers from opening the door from the inside of the car in the event of a non-level stop due to a fault or power failure, eliminating all safety hazards.

# SCIENTIFIC TECHNOLOGICAL

Travel with technology, awaken the senses of space and deliver the lean of the brand with a elevator of wisdom.

## Destination floor group control system

Adopting the high intelligent logic control system to subvert the traditional elevator operation mode, relieve the crowded degree of the hall, dynamically disperse the waiting elevator, and greatly reduce the passengers waiting for the elevator.



## EMS elevator monitoring system (optional)

The monitoring center can monitor, control, report and manage the key operation functions of elevators through remote networking. It can quickly respond to the needs of elevator passengers, and can monitor up to 100 elevators at the same time, with a maximum distance of 5 kilometers.



\* For more wisdom experience, please consult the sales staff

# CAR DECORATION

Make the building stand out

Make the choice colourful

Make the space infinite reverie

Make the ride enjoyable



## Standard decoration

### U-CR093

Ceiling: Mirror St. steel + silk screen acrylic + transparent acrylic (split)

Front wall: Mirror St. steel

Rear wall: Textured St. steel + mirror St. steel

Side wall: Hair line St. steel + mirror St. steel

Handrail: Wire drawn St. steel round tube



U-FL030



U-CL045



U-HR001

## ► Interface

Encounter technology  
Meet art  
In a small space  
Connecting you with the world

## Control panel and display



### Standard COP

U-CY300  
Panel: Hairline St. steel

### Standard HOP

U-ZW1500  
Panel: Hairline St. steel

### Standard Optional

U-ZW1500  
Panel: Hairline St. steel

## ◎ Optional

Charming



10.4" TFT

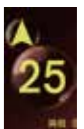


4.3" TFT

Coffee brown



10.4" TFT



4.3" TFT

Blue ocean



10.4" TFT



4.3" TFT

Mystical



10.4" TFT



4.3" TFT

# OPTIONAL CONFIGURATION



## U-CR097-1

Ceiling: Mirror St. steel frame + translucent marble panel (snow white) (split type)  
 Back wall: Mirror St. steel + mirror St. steel etching  
 Side wall: Mirror St. steel + honeycomb marble (wood grain travertine) + hairline St. steel inserts  
 Handrail: Flat handrail in hairline St. steel  
 Floor: Jazz white (marble)

\*The above effect pictures do not reflect the position of the ceiling emergency lights

## Optional car decoration



### U-CR077

Ceiling: Mirror St. steel frame + acrylic (split)  
 Rear wall: Hair lines of St. steel titanium plated black + mirror St. steel inset  
 Side wall: Hair lines of St. steel titanium plated black + mirror St. steel + mirror St. steel inlay  
 Handrail: Wire drawn St. steel round tube  
 Skirting line: Hair lines St. steel titanium plated black  
 Floor: Beige (marble)



### U-CR078

Ceiling: Hairline St. steel + acrylic + LED downlight (split type)  
 Rear wall: Hairline St. steel + Hairline St. steel inserts + Mirror St. steel  
 Side wall: Hairline St. steel + hairline St. steel inserts + mirror St. steel  
 Floor: PVC



### U-CR080

Ceiling: Mirror St. steel frame + acrylic + LED spotlights  
 Rear wall: Plastic coated steel + mirror St. steel inserts  
 Side wall: Plastic coated steel + mirror St. steel  
 Handrail: Round brushed St. steel tube  
 Skirting: Mirror St. steel  
 Floor: PVC



### U-CR096

Ceiling: Hairline St. steel bronze plated + painted steel plate + hairline St. steel bronze plated + translucent marble + LED concealed light strip  
 Rear wall: Hairline St. steel with bronze plating + Hairline St. steel with bronze plating inserts  
 Sidewall: Honeycomb marble + bronze inserts in hairline St. steel + titanium black plated mirror St. steel  
 Handrails: Brushed St. steel with black titanium plating  
 Flooring: Beige (marble)



### U-CR112

Ceiling: Lacquered steel plate + translucent roof marble panel + LED spotlights  
 Rear wall: Hairline St. steel etched with titanium + mirror St. steel etched with titanium  
 Side wall: Mirror St. steel etched with titanium plating  
 Handrail: Mirror St. steel titanium plated round tube + solid wood  
 Floor: Marble



### U-CR095

Ceiling: Titanium plated hairline St. steel + translucent marble + powder coated steel + downlight (split type)  
 Rear wall: Ebony wood veneer + titanium plated inserts in hairline St. steel + titanium black plated mirror St. steel  
 Side wall: Ebony wood veneer + titanium plated inserts in hairline St. steel + marble honeycomb panel (gold leaf beige)  
 Handrails: Mirror St. steel titanium plated + ebony  
 Floor: Beige + Golden Leaf Beige (marble)



### U-CR074

Ceiling: Painted steel plate (plain) + car roof laminated art panel + LED downlight (split type)  
 Rear wall: Honeycomb marble (golden leaf beige) + mirror St. steel titanium black plating  
 Side wall: Honeycomb marble (gold leaf beige) + mirror St. steel titanium black plating  
 Handrail: Mirror St. steel round tube  
 Floor: Gold Leaf Beige + Gold Inlay + Gold Line Beige (Marble)



### U-CR135

Ceiling: Mirror St. steel + acrylic + LED downlight (split type)  
 Rear wall: Mirror St. steel + hairline St. steel trim + metal mesh  
 Side wall: Metal mesh + hairline St. steel trim  
 Floor: Marble

\* The above renderings do not reflect the position of the ceiling emergency lights;  
 \* For more decoration choices, please refer to the decoration sample book, or consult the relevant sales.

# FUNCTION LIST

● Standard  
○ Option

## ► Safty 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 fireman's operation. Class of light curtain protection: IP65.	●
ANS-anti- nuisance function	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 of calls.	●
Intelligent anti- nuisance function	If the light curtains didn't act for three continuous floors, it will be deemed as illegal command and all car commands will be canceled.	●
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 rate load, the sound signal will be given out by 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 is due to a mechanical fault, the elevator will shield the button and no longer respond to the order from this button.	●
Door closing torque protection	Door operator had set the closing torque, in case of jamming cover the torque, the door will not dose by improving the torque.	●
ELTU-Emergency light	The emergency light in the car will start whenever there is a power cut.	●
ALARB-Alarm bell	An alarm sound signal will be given out to the outside 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 unsuccessful 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 the car door does not open completely within an adjustable time after the door open command, car call and hall call signals will be automatically canceled, and the elevator will stop at the next floor and open its doors.	●
Door panels forced closing upon gravity	If 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 terminals of the elevator are equipped with a terminal speed reducing switch and terminal limit switch, if the speed is not slowed to the preset value while the car reaches the end floor, a forced deceleration will be carried out by the system to protect the safety of the car.	●
EFO-Emergency fireman Operation	Upon recognition of the fireman's service, a car shall return non-stop to the designated return landing and park with the doors fully open.	●
EFO reservation	The fireman switch is reserved. The function acts together with EFO.	●
Fire feedback	When the fireman's operation is finished, a signal will be feedback to facilitate access to the building system.	●
Local leveling	If an accidental fault occurs in the elevator, the current floor will be memorized, so that for recovery it's no need to return to the terminal landing, which improves running efficiency.	●
Door opening prohibition outside the door zone	For safety, the door opening is disabled outside the door zone	●
ARD- Automatic rescue device	This device is used for rescue operations 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, and keep the door open to the passengers.	○
Earthquake operation	With this function, in case of an earthquake, the earthquake detectors input a contact signal to the control system which drives the elevator to the near floor, and open door to release passengers and stop. (Earthquake detector shall be solved by customer)	○

## ► Basic functions

Function	Description	Remarks
Floor Display	There is arrow display in COP and HOP to show the running direction to passenger.	●
FCL-Full Collective Operation	All car and/or hall calls registered are answered in the order in which the landings are reached. Direction of travel will be established by the first car command/ hall call registered. All calls on its way will be served, irrespective of the time sequence in which the calls were registered.	●
Dynamic display	The direction lights flash when the elevator is in motion. When the elevator stops at the floor, the direction light will stop flashing and kindly inform the waiting personnel outside the hall of the status of the elevator.	●
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, elevator will not answer to hall call and directly run to destination floor.	●
Reminding for Attendant	Registered under ATT, the corresponding command lamp will flash to remind the attendant to learn the situation of such registered. The function acts together with ATT.	●
VIP Independent Service	This function is designed for meeting VIP' S special needs. When switched on independent service the elevator will only answer the registered car call, regardless of the hall calls while opening or closing the door by manual control and operating according to VIP' s registered signals.	●
VIP display mode	In VIP , the display outside the hall is extinguished to ensure that the information of the floor where the VIP arrives is not disclosed, improve security performance, and avoid other passengers misunderstanding the state of the elevator.	●
CBC-Cancel error Calls	Before the car starts, the registration of a car or operation can be canceled 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 the elevator has to reverse, all commands originally registered will be eliminated.	●
Door Re-opening	During normal door closing, when the car button that indicates the direction consistent with the current running direction is pressed in the hall, the door will be reopened.	●
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.	●
Door opening	When the elevator stops in the door zone, the opening button can be pressed in the car to re-open the full or partly closed door.	●
Braille button	Push button with braille, convenient for the blind	●
Base station lock elevator	In a fully automatic OPERATION OR DRIVER state, after the switch of the lock ladder is set, all call registration will be eliminated, and only the instructions in the car will be responded to until there is no instruction to register. Then return to the base station, automatically open the door and turn off the car lighting and fan. Turn on the door button light, automatically close the door after 10 seconds delay, and then stop the operation of the elevator. When the lock switch is reset, the elevator starts normal operation again. No floor information will be displayed outside the rear hall of the lock ladder, only when the call button is pressed, the lock ladder prompt will be given.	●
RLEV-Releveling	Stopping error between the car sill and landing sill exceeds a limit due to load changing of a passenger shall be corrected by automatically releveling.	●
Advance door opening	When the elevator runs close to the door area, under safe conditions, the elevator will open in advance and move to the flat floor position at low speed. Improve elevator operation efficiency.	●
Time peak	Fast response to high passenger flow floor at set time.	●
Car arrival gong	During the deceleration and leveling process, the arrival gong mounted on the ceiling will sound to alert passengers inside the car and those waiting outside the hall that the elevator is leveling and will soon arrive at the station.	●
Automatic return to main landing	Fully automatic operation, if set automatic return to the base station function is effective, 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	The elevator will enter energy-saving mode under no operation, turn off the car light and fan automatically within the present time after the door closes, and resume after the new command is received.	●
Open door hold function	When the opening time needs to be extended, the opening time can be maintained by pressing the opening hold button on the control panel.	○
EMS(building management system)	The system is for elevator monitoring, control and management, suitable for hotel and community.	○

Voice announcement	With the function, a voice announcer announces the floor to be reached on each landing, and forecast subsequent running direction before each door closes.	○
Car intelligent IC function	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 elevators and can't be integrated with other IC card management systems in building,	○
Security floor setting	The function is for specific blocked services on a designated floor within a specific period, For such service, hall call registration and comma and registration can be blocked or not.	○
Door opening for standby at home landing	With the function, when elevator is not used, it will wait with door opened at home landing.	○
Visit	The function is to open the elevator for visitors. The function acts together with the building system and into the intelligent IC system.	○
Hall arrival gong	Up/Down arrival gong will be provided in the hall on each landing to inform the passenger of arriving of the elevator with this optional function.	○
Auxiliary operation panel	Auxiliary Operation Panel can be provided in addition to the main (operation panel, passengers can register and door operation via the auxiliary operation panel.	○
Operation panel for the handicapped	Operation panel for the handicapped can be selected for special operations by the handicapped,	○
Group control	Used for two or over two elevators, respond with the optimized solution, avoid repeated stop, save the waiting time of passengers, and increase efficiency.	○

## ► System safety

Function	Description	Remarks
Contact detection and protection on safety contactor	The system detects reliable action of a safety relay and contact on the contactor, If nonconformity of action of contact with the driving state of the coil is found, any work in the car will be 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	Dual independent brakes protects machine	●
Running time limiter	If leveling switch doesn't act after continuous running for a time specified by the running time limiter(max, 45s), any work in the car will be stopped.	●
Overspeed 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 overheat 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, unload, and shut down the light and ventilation device; once the temp falls to normal, the car will recover.	●
Two-Way monitoring door lock	The effectiveness of the door lock circuit is detected by the introduction of high voltage. Whether a door lock circuit is effective secondly inspected by co-inverted d weak current.	●
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	Main control CPU WDT protection WD T protection is provided on the main control board. When the fault of the CPU or program is detected, the WD T circuit will force it by disconnecting the main controller output point and resetting the CPU.	●
HOP Checking	Whether the hall call board on each floor works normally can be inspected via manipulator.	●

## ► Maintenance

Function	Description	Remarks
Five Parties Intercom	The function is keep contact with 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 client.	●

Floor Height Self-learning	Elevator automatically learns the floor height.	●
Absolute position self-positioning	After each power failure recovery, elevator re-establishes the absolute position of max. Torque point to ensure running in high efficiency state.	●
Machine room distribution box	The device controls connection and disconnection of power up ly and supports locking after disconnection of power supply. With the device, the maintainer can effectively control the elevator and protect the elevator against overload and short circuits.	●
220V Inspection socket in machine room	AC220 V power socket is provided in machine room for servicing.	●
Pit ladder	A climbing ladder in a pit to facilitate access by maintenance personnel.	●
Fault-tolerant cable	When the cover of the travelling cable is broken of unconcerned reason, this design allows changing the travelling cable to a fixed cable, and replacing the fixed parts for travelling, reducing the maintenance cost.	●
Ceiling inspection	Integrated design on ceiling inspection, reduces fault points and facilitates maintenance.	●
Onboard manipulator (information reading)	The system has a simple onboard manipulator via which the elevator state can be learned. The function is provided for professionals.	●
Fault recording/ Reference	The latest 20 faults can be recorded, including the fault time, floor and code	●
Fault time inquiry	Fault record clearly specifies time of fault.	●
Ceiling Inspection Box	Inspection Box is on the top of car, which makes maintenance safer and faster.	●
Inspection in machine room	Inspection running can be carried out in machine room.	●
Inspection display	When the elevator runs under inspection, the hall display is closed, and the reminder display show in the cabin, if there is a hall call now. the hall display will show the position of the elevator.	●
Encoder interference evaluation	Interference with encoder signal can be detected via the manipulator	●
CAN communication interference evaluation	Quality of CAN communication can be inspected via manipulator.	●
Fine adjustment for leveling	If there's a slight 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 parameter of AIO is established as a state of the test running. Total times of automatic running and interval I between n runs can both be established by parameter setting.	●
Full-shaft double-control lighting	Double-control I lighting is provided by installing lamps through the shaft wall.	●
Customized cable reservation	The cable is reserved for the user for the functional extension function.	●

## ► Extension Function

Function	Description	Remarks
EMS quasi-interface	The system reserves interface with the building management system.	●
Show of special letter	The character shown on each floor can be established via a manipulator. For example, that shown on B1 can be established as B.	○

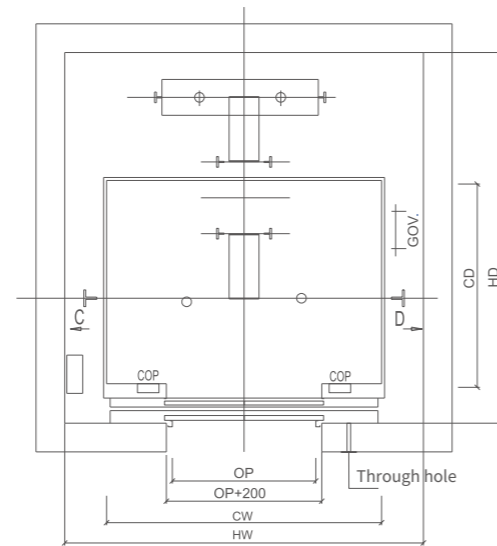
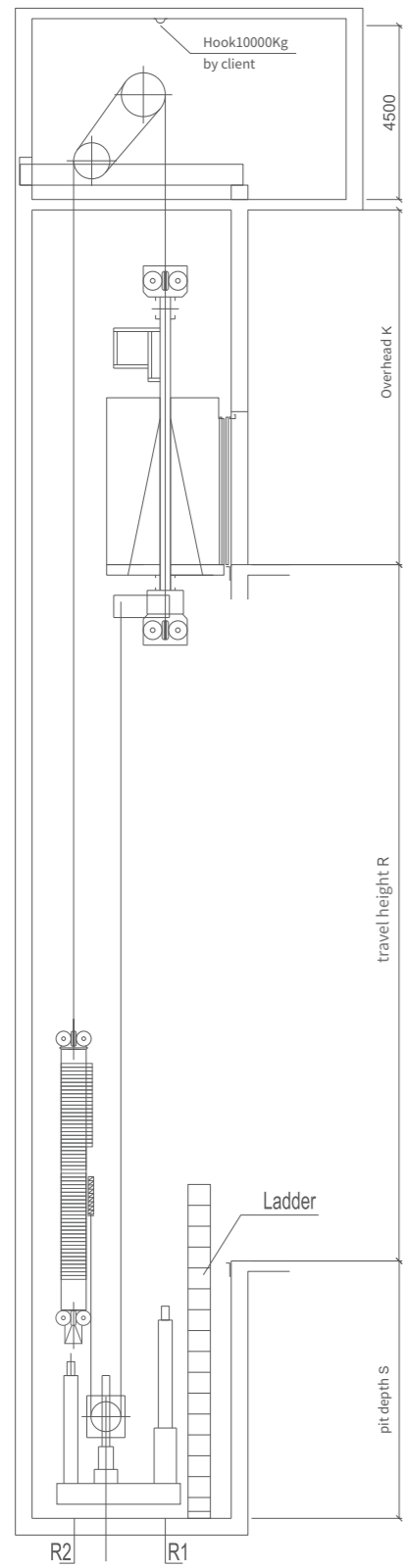
## ► Basic Structure

Function	Description	Remarks
Frame-type box	Rectangular high-strength frame structure	●
Elastic soundproof car body	On the bottom of the car, there's a rubber that reduces vibration and noise transferred from the shaft to the car.	●

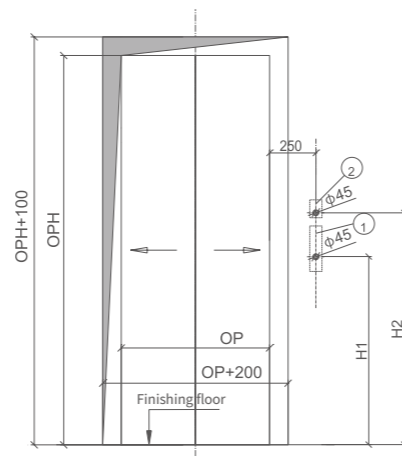
\*For more functions please consult the sales

# LAYOUT DRAWING

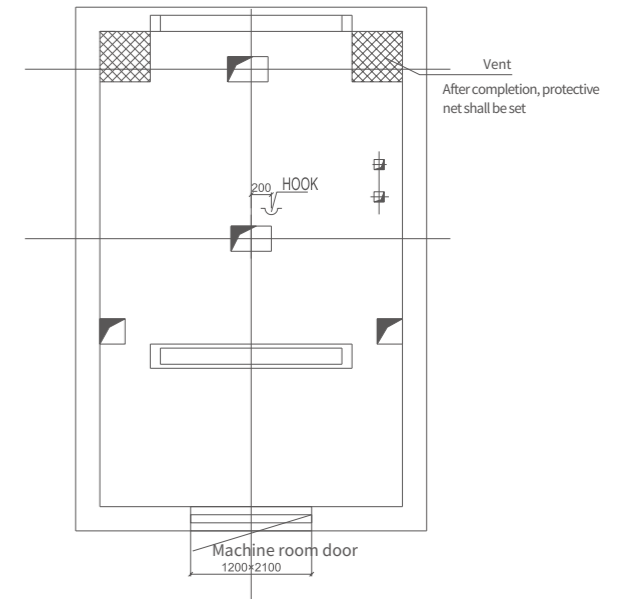
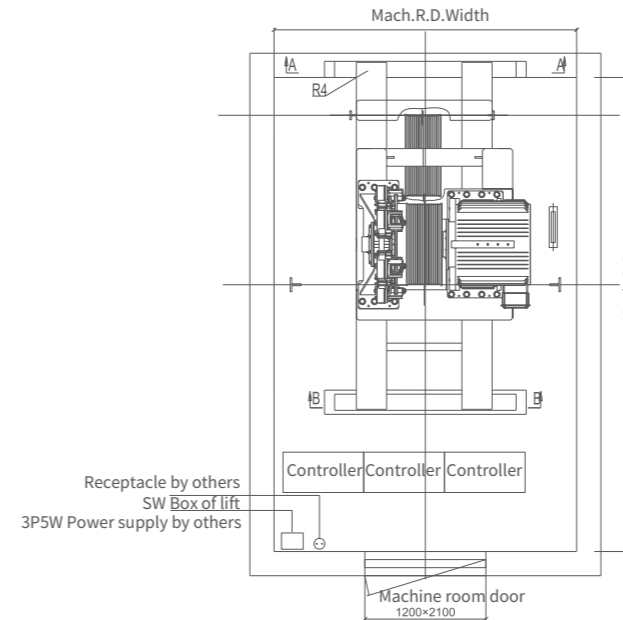
## S-Speed (5~7m/s)



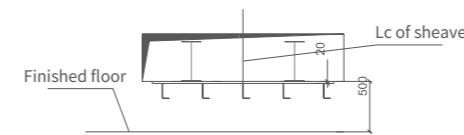
Hoistway Plan



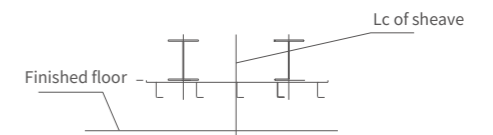
All floors



Cutouts Of Machine Room



A-A Bearing hole



B-B Bearing frusta  
Rebar should be embedded between bearing wall

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)	Min. pit depth S(mm)	Min. overhead K(mm)
1350	5	2000X1550	1100X2100	2700X2450	4700	7200
	6				4850	7300
	7				5000	7500
1600	5	2000X1750	1100X2100	2700X2650	4700	7200
	6				4850	7300
	7				5000	7500
2000	5	2200X1750	1100X2100	2900X2650	4700	7200
	6				4850	7300
	7				5000	7500

\* The above figures are for reference only