

S800V ➤ Home elevator



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SWORD
HANGZHOU SWORD ELEVATOR CO.,LTD.



SWORD

STICK FOR TRAVEL WORLD IN HEART

**The manufacturing base of SWORD in Hangzhou
Yuhang Economic development Zone** ➔

- ⊙ Invest 500 million yuan
- ⊙ Covers an area of 160 acres
- ⊙ An annual output of 50000 units
- ⊙ Over 120 meters in height with the elevator testing ability of 10m/s leading domestic elevator testing tower

HANGZHOU SWORD ELEVATOR CO., LTD. was established in 2009 and located in National Economic and Technological Development Zone—Hangzhou City. We're the international comprehensive elevator manufacturer which integrates elevator and escalator R&D, design, production, sale, installation and after-sales maintenance. Our annual production capacity of elevator and escalator is up to 50,000 units which leading the industry. Our products cover small machine room passenger elevator, machine room-less passenger elevator, high-speed elevator, bed elevators, freight elevators, sightseeing elevators, escalators, moving walkways and car elevators, totally nine series, among which our high-precision, high-qualification environmentally friendly products have went through German TÜV certification, European Union CE, the Russian CU-TR certification, JKKP Malaysia certification, Algeria ENACT certification and successfully joined in the North American CSA and ASME certification system. We have provided service and solutions for more than 70 countries and regions worldwide by now, our brand influence and reputation are on the rise.

Elegant
Imposing Exquisite Gorgeous



home elevator

S800V

HANGZHOU SWORD ELEVATOR CO.,LTD

Outstanding classical quality promises superior honor、warm、comfort and ease. Luxury, magnificent and warm style enhances suited nobleness and luxury for you and ensures an ideal、homelike life, give a warmer and easier homelife.

Innovation

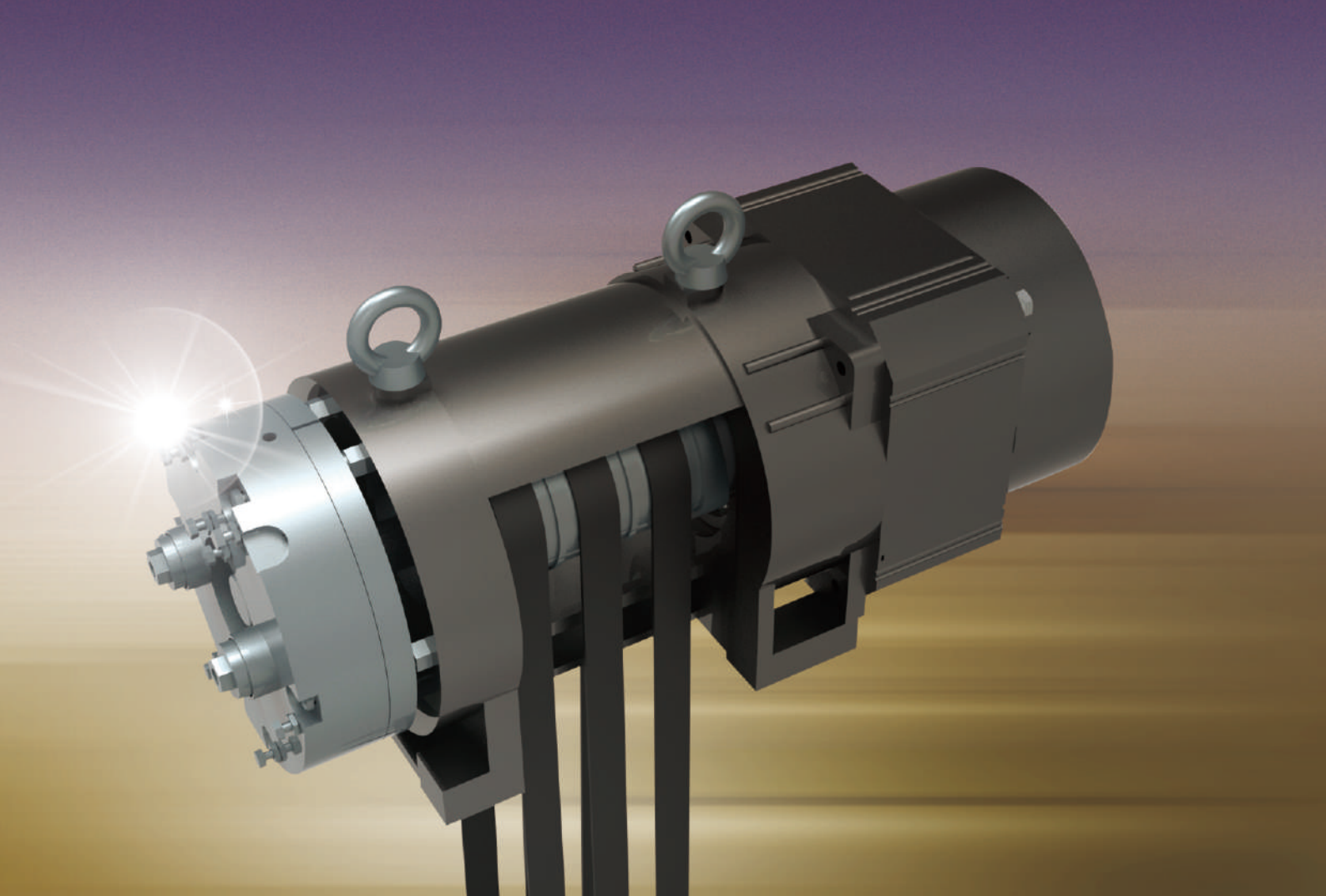
Quality Guaranteed

Create an innovative measure for the industry- Flat Steel Belt

Flat belt rearranges the rope strand, galvanized steel wire surface antirust, the outer wraps polyurethane which can protect steel rope strand and reinforce softness, without lubrication, increase the friction and Increase the traction capability in keeping the wire rope strength.

Advantage

- ⊙ keep hoistway clean all the time, without lubrication
- ⊙ Lighter but with less consumption than traditional wire rope than the traditional wire rope, less consumption
- ⊙ Softer increase the contact area with driving wheel, more energy saving, more efficient.
- ⊙ Lifetime is 3 times longer than traditional traction ropes.



Steel traction machine of condensed Most advanced technology

Efficient and environment protection ➡

S800V' s traction machine is made of tombarthite material, without carbon brush. High efficient electric machine which uses sealed bearing, gearless speed reducer gearbox without lubrication, avoid hoistway and machine room greasy dirt.



Green energy conservation ➡

S800V' s traction machine owns smooth wheel spindle, matches imported flat steel belt, increases the contact area and friction factor with driving wheel compared with the traditional traction wire rope, drive the elevator operating more efficient.



Room saving ➡

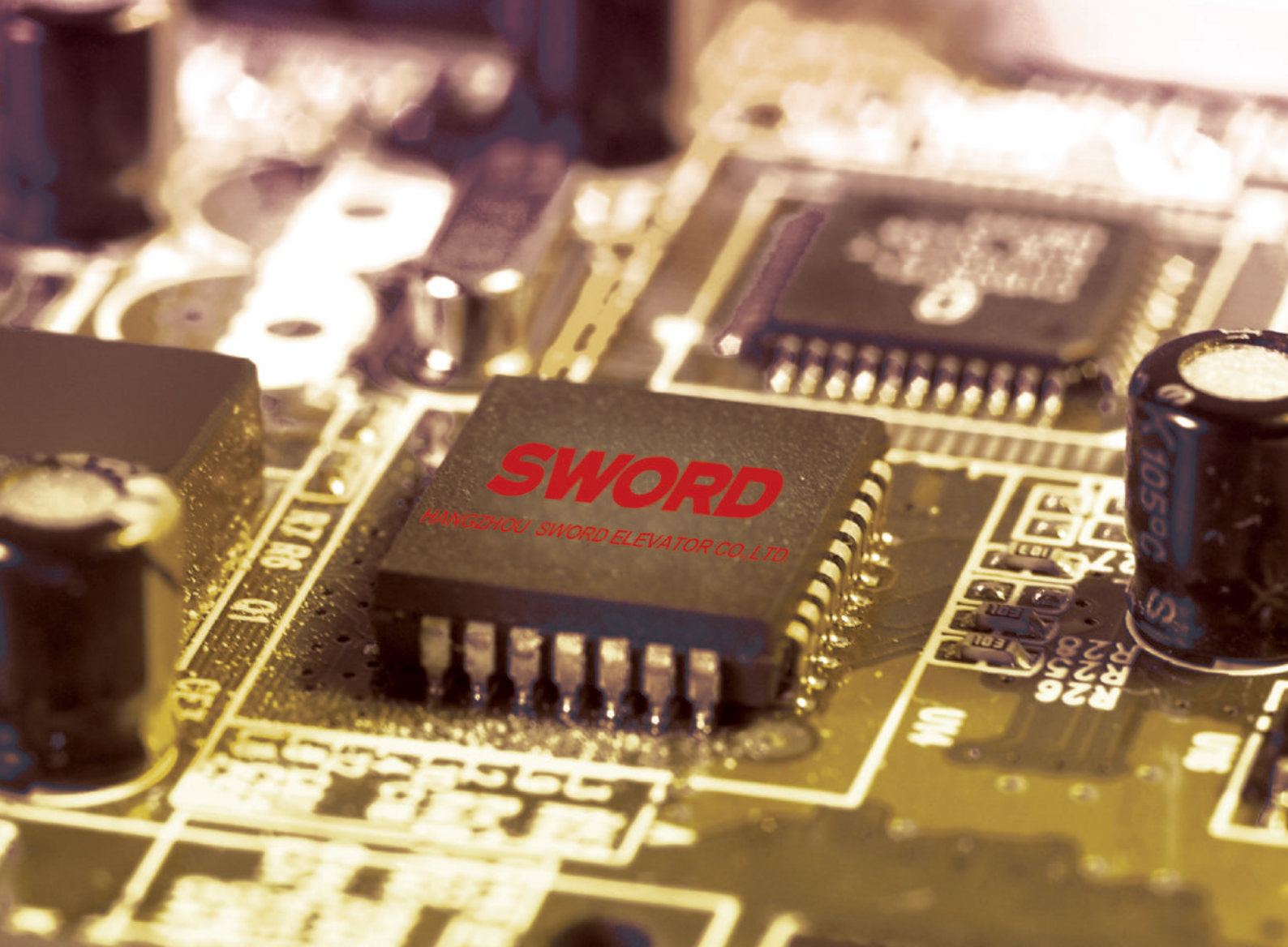
S800V adopts flat steel belt as traction intermediary, greatly reduces the driving wheel diameter.

Integrated design of wheel and the motor shaft drive, brake integrated in the machine to reduce the size of traction machine that can be placed on the top of hoistway, no need to add the top room or the machine room.



Quiet drive ➡

Compared with the traditional main machine, the motor saves the deceleration, not only reduces the consumption and space, and also avoids the noise and vibration caused by the worm and gear drive, giving you a quiet and warm rest room.

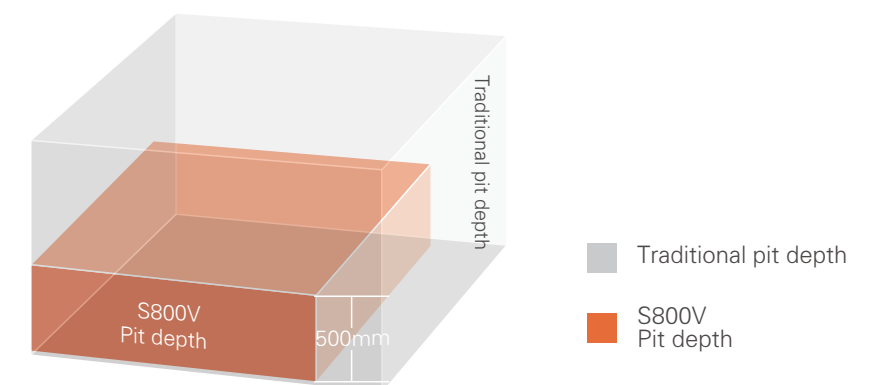
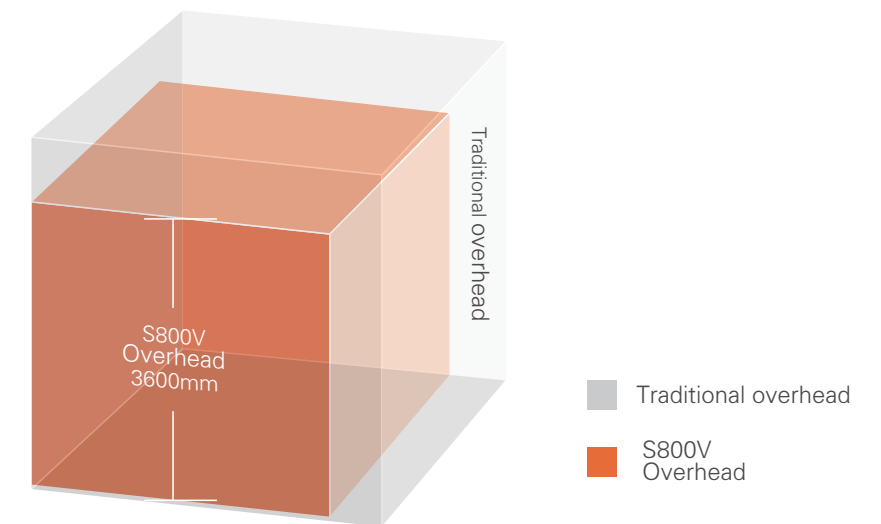


Extreme hoistway utilization rate

Flat steel belt matches strip design of wheel and the motor shaft drive, the utilization rate of hoistway is improved obviously, giving more freedom for architecture design.

Intelligent and efficient control system

Intelligent vector control sets elevator stop at the station directly easily, improves the transport efficiency. The serial communication system reduces the traditional wiring, it is convenient to install and set wiring. The system doesn't need to set operation circle line, and automatically calculates operation speed according to the building height, and also could offer rich control functions.



Noble Reserved Elegant Luxury

Car matching decor



XO-Z2105 ➡

Ceiling: Dusting steel, bronze mirror trim, LED lights with hidden
Car wall: Front wall: bronze mirror stainless steel
Back wall: decorative wood panel (classic rosewood, partial brown),
solid wireframe modeling, beauty mirror
Side wall: decorative wood panel (classic rosewood, partial brown),
mirror-plated bronze decoration
Ground: Marble (Gold color in laid with Jade color Yu+jazz white+violet)



XO-Z2103 ➡

Ceiling: Painted wooden frame + four sides with
hidden lights
Car wall: Front wall: mirror stainless steel
Back wall: paint wood finishes, white mirror moldings,
decorative wallpaper
Sidewall: paint wood finishes
Ground: Marble (Gold color in laid with Jade color +
gold leaf beige)



XO-G023 ➡

Car Cover: Rose gold mirror stainless steel
Ceiling: Rose gold mirror stainless steel + gold foil veneer + LED lights
Car wall: Front wall: rose gold mirror stainless steel + transparent
laminated glass
Left and right side wall: Rose gold mirror stainless steel + transparent
laminated glass
Back wall: Rose gold mirror stainless steel + transparent laminated glass
Handrails: Rose gold, hairline stainless steel flat handrail
Ground: Marble mosaic



Note: The pictures are all computer impression drawing, please according to the real object,
more car decoration, please to consult the catalogue <SWORD elevator, decoration>.

Car standard decoration ➡

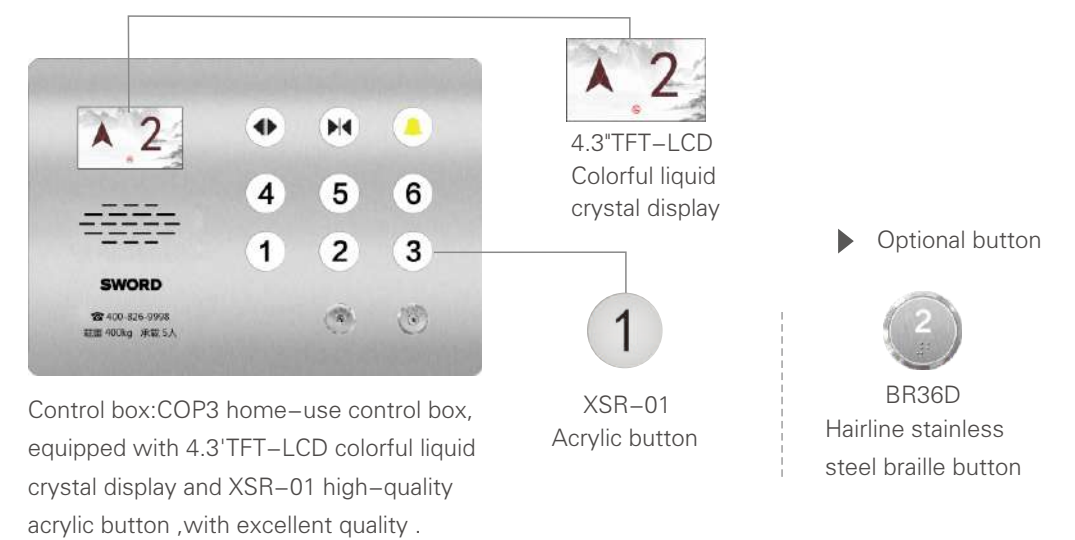


Ceiling:XO-ZO237D(L)large plate
lights+aluminum alloy frame
Car wall:XO-ZO237J milky painted steel
Car door:miky painted steel
Floor:XO-O237P(PVC)

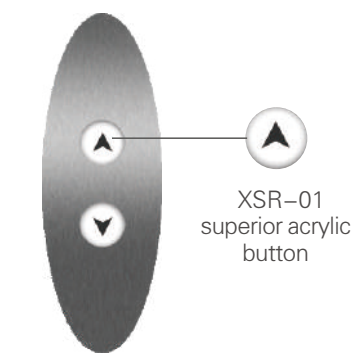
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Man-machine interface ➡

Control panel ➡

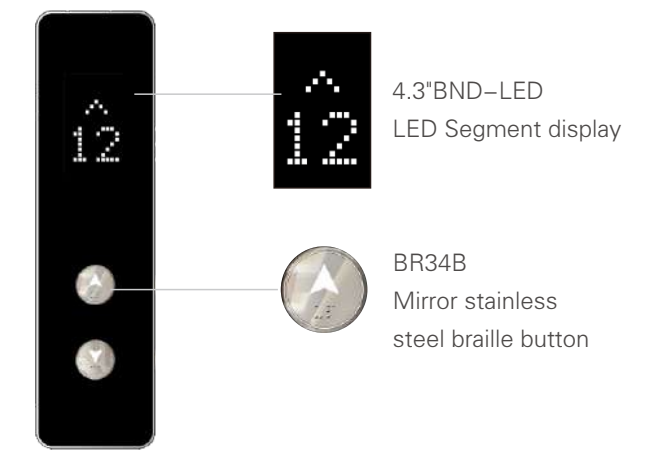


Call ➡



XHB5-A home-use elevator calling box,
equipped with XSR-01 high-quality acrylic
button,the whole is elegant appearance,
apply to different kinds of decoration styles.

Optional calling box



XHB17-A
Bottomless calling box

Standard function

Run function	
Full collective operation	In the automatic operation state, the elevator will automatic response the signal from instructions, operation direction etc.
Load nonstop	When the cabin is fully loaded.the elevator doesn’ t response the hall calling signal. executes the car–internal signal.
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, then the car will move towards to the near floor, keep the door open to the passengers.
Cancel error calls	Before the car starts, the registration of a call or operation can be canceled by double click of this button
Hoistway floor space self learning	The system automatically record each floor height when the elevator normal operation, it can win precisedistance control, so as to realize the dock directly.
Door opening button Door closing button	Door open and close button are set up Inside of the cabin,when the elevator is not running, you can press the open button to open the door,press the close button to cancel the open waiting time ,close the door at once. improve the running efficiency.
Door opening closing adjusting	Rise the system performance by adjusting the door hold time for both car door and landing door separately.
Auto–correct operation	When elevator lose position, elevator auto–correct operation to the right position
Re–opening for landing door	In normal closed process. when pressing the hall button. if the running direction of hall call button is the same with the elevator running direction. the elevator will be open again.
Torque compensation without weighing	When elevator starts, system woud compensate torque due to car current weighing without adding weigh button, to create good starting comfort. When the elevator is installed.without take the wire cables away from the main machine,
Statics location function	Host angle positioning.convenient to install for worksite.
Top of car inspection	Set up the repair switch in the top of car.convenient for maintainer,When the maintainers are repairing or other operations in the wellhole.the repair switch is invalid at this time.
Skew–line interrupt the electric current	When meet the elevator stop operating.the drive interrupt the electric current,become a mode of skewline.improve the comfort level of elevator lay off.
Repair zero speed stop	Under the repair,elevator stop operating with zero speed,increase the service life of main machine braking.
Adjust–free function	By the toggle and repire switch in control plate,after the elevator operating automaticly.complete the debug.

Security features	
End protection	If the speed is not slowed to the preset value while the car reach the end floor, a forced deceleration will be carried out by system in order to protect the safety of the car.
Error self–diagnosis function	The system can automatically diagnose and record the elevator errors signal, use the special tool quickly eliminating errors.
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 motor itself or thehigh temp in the environment. The car stops at the nearest floor, unload and shut down the light and ventilation; once the temp fallsdown to the preset value, the car will recover.
Close torque protection	If the resistance torque reached the preset value, the door will reopen.
Speed anomaly detection	By monitoring and comparing the encoder feedback speed signal and system preset speed value.The system can master the elevator running speed. Once both difference value is beyond the scope of the system allows, the system into the protection of state, the car stop running.
Contactors anomaly detection	According to the contact device control command system detecting state main contactor feed–back, if discovery is unusual, the system will enter a state of protection. the elevator stops running.

Security features	
Power grid anomaly detection	Power grid volatility by over a certain safety margin, the system into the protection of state,the elevator will stop running.
Light curtain proection	Light curtain protection fence is set up in the entrance of elevator,every scan loop has 154 bunches infrared rays, reaction time of 1 second.
Overload protection	When the load of the car exceeds rated capacity. Overload operations is triggered, this operation opens the door, sounds the buzzer, and illuminations the overload lamp. The overload conditions is removed when the weight of the car falls below the rated load.
Delayed car protection	When the elevator reaches a floor layer,the door isn't opened completely in the established time because of obstacle or other reasons,the elevator will enter the open protected mode,after try to open the door unsuccessfully in this layer three times,and runs to the next layer to open the door;When the door isn't closeed completely in the established time because of obstacle or other reasons,the elevator will enter the close protected mode,no response to the command for calling.
Break anomaly detection	Real–time detection system brake arm action state, if different is discovered between the actual state; And control command,the system will state into protection status,the elevator stops running.
Landing door self–learning function	When add the layer stop,carry out the landing door self–learning,after make sure the safety,the elevator Can operate norma y.

Emergency functions	
Three parties intercom	Intercom system between cabin,car roof,machine room.
Alarm bell	In case of emergency, the alarm bell will be activated by pressing the alarm button in operating panel.
Emergency electric operationin machine room	An emergency operation with electric device is installed in machine room, when an emergency happens, the professional maintenance staff operate the device rapidly to rescue operations in the machine room.
Emergency light	Emergency light in the car will start whenever there is a power cut.

Energy-saving features	
Lighting & Fan control in car	The elevator in standby mode, if the lift donlt receive any instructions within the preset time, the elevator, automatically shut off the car lighting and fan, in order to save energy.
Display energy saving	After a preset timeout without hall call registration, display will turn off for energy saving.

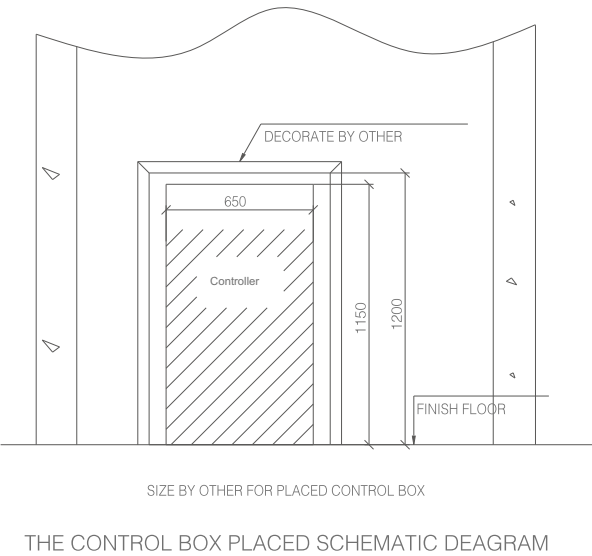
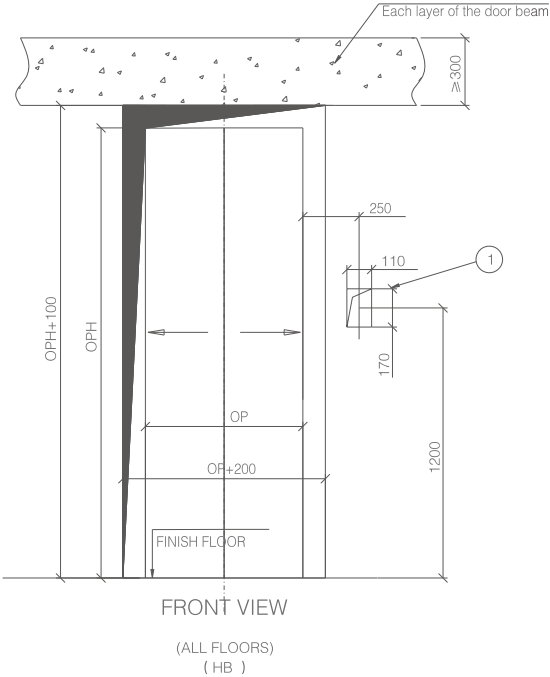
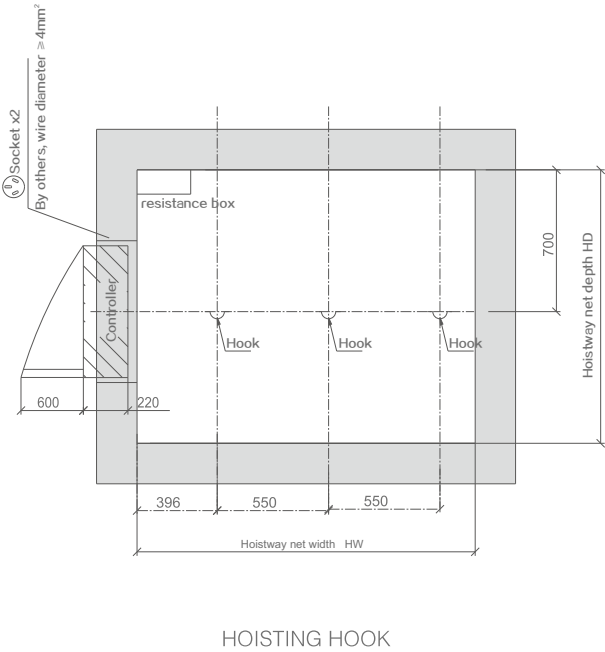
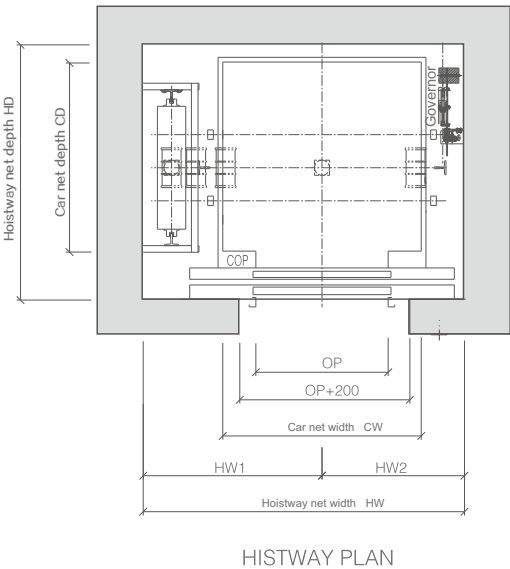
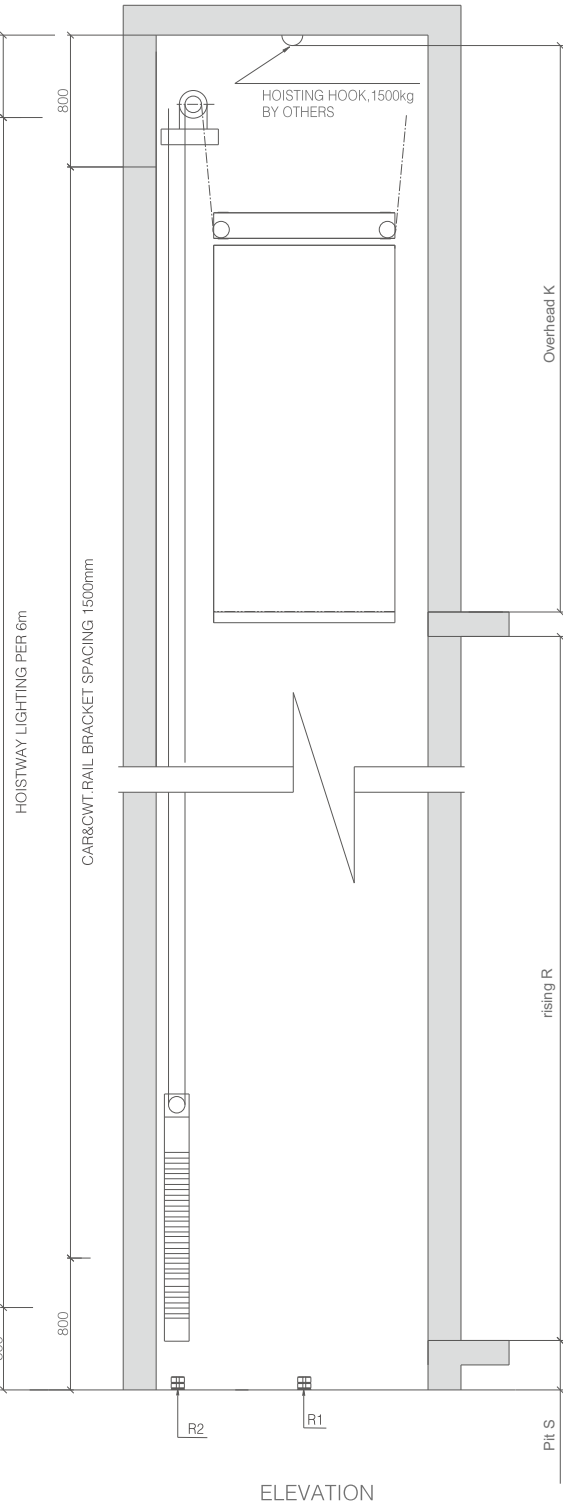
Human interface	
Car direction Indicator	Car screen will display the elevator running direction.
LCD car screen	The LCD indicator in the hall call panel will display the elevator floor position and running direction by arrow signals.
Creative floor display	According to the customer’s needs,the elevator sets up different display messages,the messages contain0–9,A–Z or two characters combination,also adopt three aspects to display. Notice:o and 0,5 and S, cann’t be distinguished.

Optional function	
Door open standby	Change the door close standby function in usual elevator ,by set up the parameters to make the elevator open the door and standby,maintain the air to circulate.
Anti–trouble outside the hall	Hall call is divided into up call and down call;if the passenger operate wrongly,the elevator will open and close twice,this function can reduce open and close the door,improve the operate efficiency.
Auto–return to main floor	If no registration of calls or operations after preset timeout, the car will return to preset main stop and wait there.
LCD Hall screen	The LCD indicator in the hall call panel will display the elevator floor position and running direction by arrow signals.
Front and back doors	When elevator is set form door and back door at the same time, the two doors can be controlled by this function.

Home elevator

S800V

LAYOUT OF S800V



Done by owner or builder

- The hoistway should be exclusively used for the lift. It shouldn't contain cables or devices etc. other than for the lift. Hoistway and all parts attached to it should meet the requirements for the fire protection
- The well should be vedical The minimum cldarance dimensions id the dimension of the well. And the error is above 0~-+25mm/0~12m.
- If accessible spaces do exist below the car and the counterweight working stroke should be placed on solid pile pier or install a counterweight safety
- Safety protection barrier with enough strength should with enough height is not less than 1.2m should be placed in front of all entrance of hoistway before lift installation.
- Enclosed hoistway should be provided with performed ventilation opening in the upper or lower hoistway, and the ventilation opening should be at least 1% of the available hoistway area.
- The reserved hole for landing door,hall call units etc. should be filled in after installation.
- We prefer concrete hoistway. If you adopt brick structure,concrete beam of 300mm in height should be made in the hoistway wall where the guide brackets will be fixed in. Meanwhile, there should be concrete girders of 300mm in heigh with the same width as the hoistway's, locating upper and lower the edge of landing door hole.

- If auxiliary concrete ring beam structure is needed to ensure safety of guide rail installation, the strength of concrete should be at lease C20.
- When the distance between adjacent landing doorsills exceeds 1 lin, emergency exit should be needed which should not be open towards inside of the hoistway. The size should be net less than 350mm width and 1800mm height.
- The pit should be impervious to infiltration of water. If there is a plash, it should be installed in the corner of the pit
- According to requirement of the technical parameters, the power supply should be placed in the switch box with protection switch and locked off. The fluctuation of the power supply should be less than $\pm 7\%$. The neutral conductor and the protection conductor should always be separated, and the ground resistance should be no more than 4Ω . If add electricity leakage protection function, the suggested rated residual current should be 500mm.
- All the force marked in the drawing has included the impact factor except specialnotes. The hoistway wall and pit strength should bear the force marked.
- The matter (bearing plate etc.) prepared by users shown in the layout should be pre-embedded.
- Users shoud establishi security room. Each lift should be provided with 6-wiring shield able used as interphone cable (each wiring is not less than 0.5mm^2), CAT-5 cable is acceptable if the above cable is not available.

Capacity (kg)	Speed (m/s)	Car inner size CW(mm)xCD(mm)	Opening net size OP(mm)xOPH(mm)	Hoistway net size HW(mm)xHD(mm)	HW1 (mm)	HW2 (mm)	Pit S(mm)	Overhead K(mm)	Pit reactions (KN)		Max. floor (floor)	Max. rising
									R1	R2		
400	0.4	1050x1000	700x2000	1700x1350	946	754	500	3600	41.6	33.6	6	12

NOTE: DO NOT SACALE THS DRAW NG, UNLESS OTHERW SE STATED