

Let's present the perfect  
logistics transport experience for you



## FREIGHT ELEVATOR

LARSSON freight series products not only absorb German advanced freight elevator manufacturing technology, but also pick the high-strength car material. They can be qualified in all kinds of logistics transport mission easily, and to be your right-hand man in transport work.

### ► High-strength and durable, wide opening door

Solid and durable car is made of high-strength material. The highest load could reach 5000KG with special designed car batholith.

We adopt multi fold car structure, which opening door size and car have same width. It is convenient for free access of goods, meets the demand of forklift transportation, and improves transport efficiency.

### ► Constant moment of force, excellent operation

No matter how much freight elevator load, the operating speed, leveling precision and comfortable sensation will never be effected by its constant moment of force.

### ► Super load, brilliant performance

Stable and reliable product performance inherits German rigorous practical essence.



# ADVANCED TECHNOLOGY

## The art of unusual strong man, Be big and drive small

Based on German advanced full computer control system, variable frequency driving and VVVF door-motor system, LARSSON freight elevator is qualified in all kinds of logistics transportation mission easily.

### » High-intelligent control system

We adopt high-performance 64-bit microcomputer processing chip and with modular structure design to make data processing more quickly and precisely. Depending on high-efficient digital signal processing technology, we improve the system scheduling and operation rate further, and make freight elevator performance more excellent.

### » Variable frequency door-motor system

Advanced VVVF door-motor system ensures smooth speed of door switch. It is convenient for access of goods and carts.

### » The serial communication technology

Modulation signal pulse transformer technology could isolate strong interference signal from outside effectively to keep stable and reliable communication. Meanwhile, it reduces attachments and interface between various components to make the transmission signal more convenient. All of these ensure the precise control of freight elevator.



# ADVANCED TECHNOLOGY

Safe carriage



High-efficient  
and energy-saving

## ► Light curtain protection system

There's light curtain protective barrier at entrance, it could make sensitive response quickly to any objects in detection range in order to protect people and goods safe efficiently.



## ► High-efficient vector frequency converter

LARSSON freight elevator introduces German high-efficient vector frequency converter, and matches with long-life precise devices. Programmable function and portable operation solution are inside. All of these meet the technical requirement of engineers on spot, and reduce the maintenance difficulty. It presents developing direction of energy-saving and environmental elevator in future.



## ► Door load testing device

Door load testing device could monitor load change of each floor elevator door anytime, it ensures overall system in safe, reliable and stable status.

## ► VVVF host

We adopt VVVF technology to guarantee the stable running of freight elevator, changed the traditional elevator's drawback of big noise and vibration to make it more energy-saving and environmental when in efficient run.



# CAR DECORATION SOLUTION



➤ **DC301** Standard configuration

Ceiling	Ordinary steel plate spraying (P001)
Car wall	Ordinary steel plate spraying (P001)
Floor	Ordinary checkered plate
Car door	Ordinary steel plate spraying (P001)



➤ **DC302** optional configuration

Ceiling	Hairline stainless steel
Car wall	Hairline stainless steel
Floor	Stainless steel checkered plate
Car door	Hairline stainless steel

# CAR/HALL SIGNAL DEVICE



**COP001A**  
(Standard)

Material quality: Black plastic frame,  
hairline stainless steel panel  
Display: Orange dot matrix display  
Button: B001A



**HB001A**  
(Standard)



**HB101A**



**COP002A**  
(Optional)

Material quality: Aluminum frame, original  
hairline stainless steel panel  
Display: Orange dot matrix display  
Button: B001A



**HB005A**



**HB105A**

## Landing door



**Side opening double-folded door**

Small jamb: Match to landing door  
Landing door: Painted steel



**Center opening double-folded door**

Small jamb: Match to landing door  
Landing door: Painted steel

## Spray paint color



**P001**  
Milky-white



**P002**  
Camel gray



**P003**  
Ivory tint



**P004**  
Aircraft gray

## Floor



**FR201** Ordinary rifflid plate  
(standard configuration)



**FR301** Stainless steel rifflid plate  
(optional configuration)



# CAR ELEVATOR

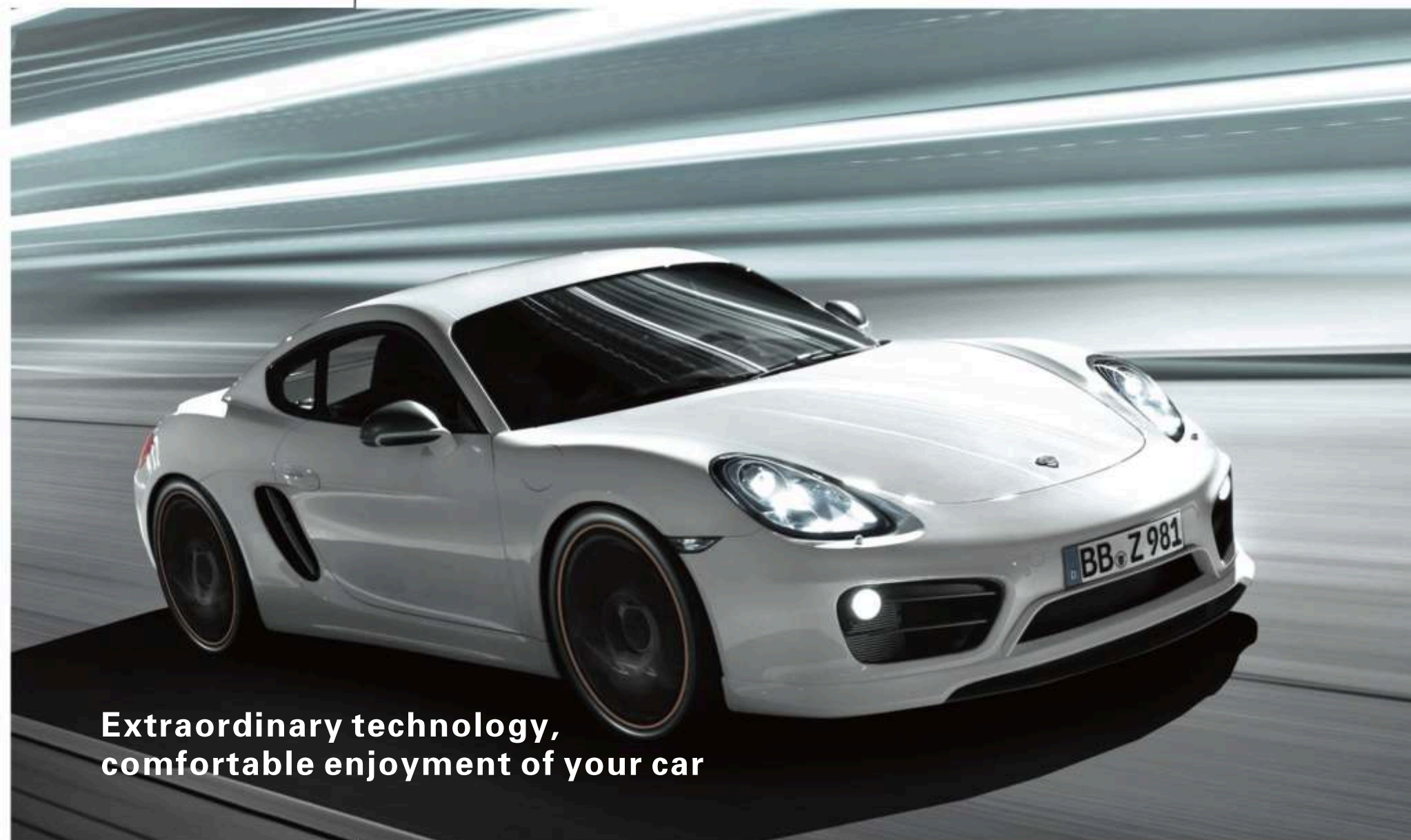
LARSSON car elevator uses German advanced auto lift technology and highly-mature VVVF technology. It solves the technical difficulty of car shaking and noise, optimizes car elevator performance, to take good care of your car.

## Photoelectricity protective system

Two independent Photoelectricity devices equipped at entrance of landing ensure more safety of your car.

## Landing light hinting system

Corresponding landing light will lighten after car receiving floor instruction, warning people at this landing that car is coming, to guarantee people and car to be safe.



**Extraordinary technology,  
comfortable enjoyment of your car**

Photoelectricity  
protective system



Landing light  
hinting system

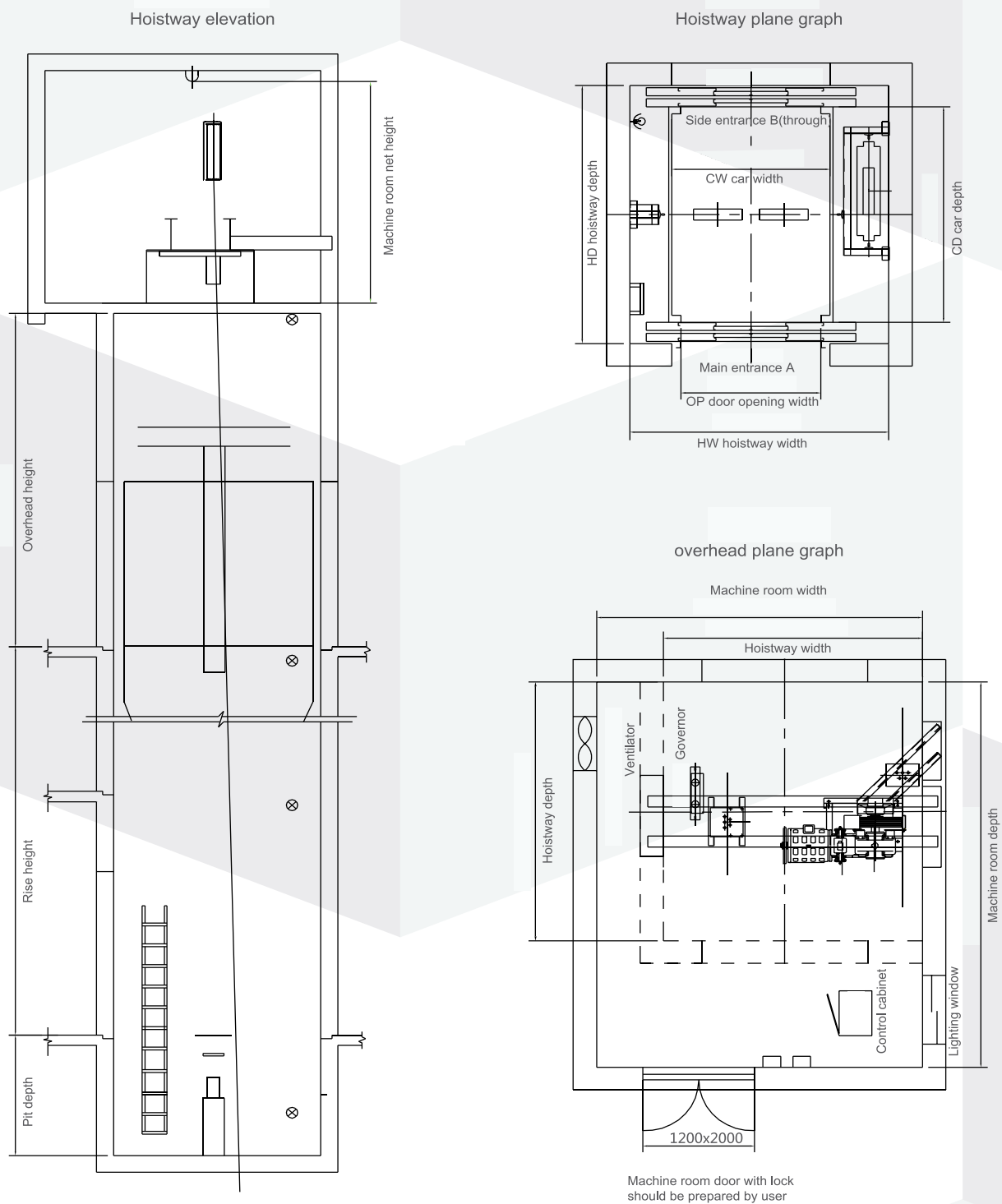


Perfect  
design

## Perfect design

Car equipped with front and rear doors provides more safe and convenient access for car. The ground of car equipped safety guide guarantees the security of your car. Car bottom floor of anti-skid treatment and with riffled plate is to provide strong guarantee for cars in and out.

# LAYOUT SPECIFICATIONS AND DIMENSIONS OF FREIGHT ELEVATOR



## Specification Parameter of freight elevator

Note: Standard floor height is 4 meters

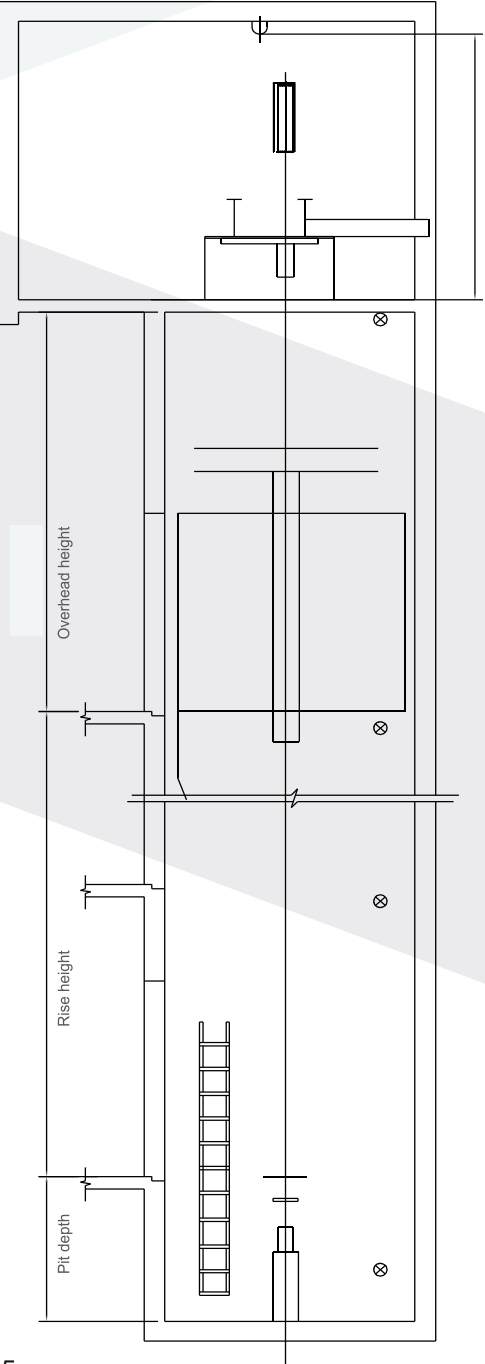
KG Capacity	m/s Speed	Car dimension mm			Door opening dimension mm		Hoistway dimension mm				Highest landing	Highest rise height m	MRW mm Machine room net width	MRD mm Machine room net depth	MRH mm Machine room net height
		CW Width	CD Depth	CH Height	OP Width	OPH Height	HW Width	HD Depth	K Overhead	S Pit depth					
1000 single entrance	0.5	1400	1600	2200	1300	2100	2500	2080	4300	1400	8	30	3300	3800	2600
	1.0										15	60			
1000 Through door	0.5	1400	1600	2200	1300	2100	2500	2080	4300	1400	8	30	3300	3800	2600
	1.0										15	60			
2000 single entrance	0.5	1700	2400	2200	1500	2100	2800	2880	4300	1400	8	30	3800	4500	2600
	1.0										15	60			
2000 Through door	0.5	1700	2400	2200	1500	2100	2800	2880	4300	1400	8	30	3800	4500	2600
	1.0										15	60			
3000 single entrance	0.5	2000	2800	2200	1700	2100	3200	3280	4300	1400	8	30	4000	4500	2600
	1.0										15	60			
3000 Through door	0.5	2000	2800	2200	1700	2100	3200	3280	4300	1400	8	30	4000	4500	2600
	1.0										15	60			
4000 single entrance	0.25	2000	3600	2400	2000	2300	3450	4080	4500	1500	4	15	4000	4800	2600
	0.5										8	30			
4000 Through door	0.25	2000	3600	2400	2000	2300	3450	4080	4500	1500	4	15	4000	4800	2600
	0.5										8	30			
5000 single entrance	0.25	2400	3600	2400	2200	2300	3750	4080	4500	1500	4	15	4300	5300	2600
	0.5										8	30			
5000 Through door	0.25	2400	3600	2400	2200	2300	3750	4080	4500	1500	4	15	4300	5300	2600
	0.5										8	30			

The drawings and specifications shown on sample are only for your reference, any order please confirm with LARSSON company.

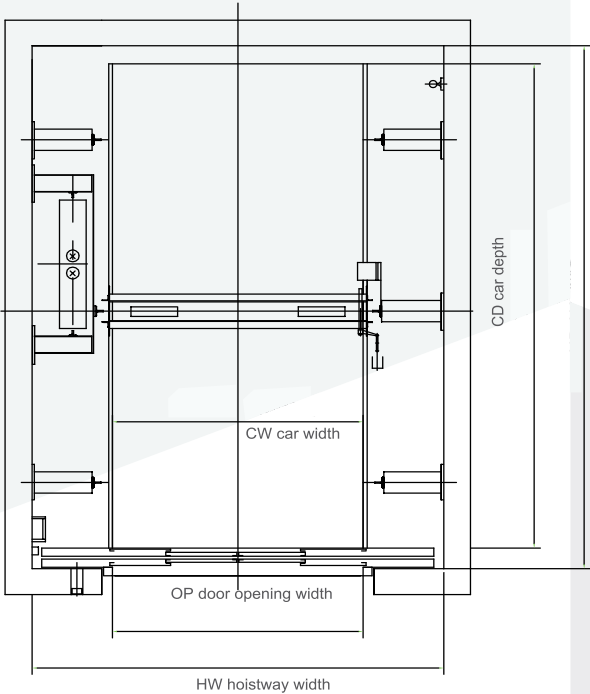
# LAYOUT SPECIFICATIONS AND DIMENSIONS OF CAR ELEVATOR



Hoistway elevation



hoistway plane graph



## ► Specification Parameter of car elevator

Note: Standard floor height is 4 meters

KG Capacity	m/s Speed	Car dimension mm			Door opening dimension mm	
		CW Width	CD Depth	CH Height	OP Width	OPH Height
3200	0.5	2800	5650	2200	2800	2200

KG Capacity	m/s Speed	Hoistway dimension mm				Machine room dimension mm
		HW Width	HD Depth	K Overhead	S Pit depth	
3200	0.5	4600	6130	4500	1500	4600X6100X2600

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# FREIGHT ELEVATOR

## FUNCTION TABLE



### General Protection

Closing time protection	Protection against reverse travel
Emergency fire operation (EFO)	Prevent slipping protection
Emergency lighting in the car	Safety circuit protection
Overload warning (Caution light and buzzer)	Limit protection
The screen door protection device	Upper and lower limit protection device
Car roof and control cabinet emergency electric operation	Door interlock protection
Fault automatic diagnosis	Operation contactor protection
Alarm bell	Brake detection and protection
Hitting the bottom buffer device	Manual brake release rescue
Outside door zone without opening door	Machine room door switch
Wave detection of grid voltage	Driven equipment overheating protection (OHT)
Contactor feedback detection	Fire signal feedback
Relay detection protection	Power-off emergency leveling ○
Speed feedback detection	Emergency power supply device operation ○
Fault low-speed self-rescue	Firefighters service (in car) ○
HB button embedded self-diagnosis	



### Steady Running

Return to base station without call	End station for speed and floor number correction
Full collective control	Parking
Independent service	Two parallel
Full-load direct running (LNS)	Door opening re-leveling ○
Automatic door switch	Advance door opening ○
Pre-torque output	Group control operation management ○
Upon elevator floor setting	Double-door elevator ○
Hoistway self-learning	Door open holding button ○



### Comfortable Ride

Hall and car door setting time	Manually selected floor
Open and close button	Cancellation of wrong landing
Automatic ventilation and lighting of automatic control in car	Anti-nuisance operating
Automatic cancellation of reverse order	Car arrival gong
HB calls door opening	Attendant control ○
Repeated closing door	Voice announcement ○
Bypassed stop setting	Liquid display ○
Input port evaluation	



### Information Display

Hall and car digital position indicator	Running number display
Hall and car call/register	Floor display character arbitrary setting
Hall and car running direction display	



### Security Monitoring

Intercom from monitor room to machine room, car (Exclude machine room wired to monitor room)	Card reader ○
CCTV cable (From car to machine room) ○	BA interface (Dry contact) ○
Elevator remote control	Community monitoring panel ○
	Community computer monitoring ○



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