



Jan.2016 edition

International market products	Rated speed (m/s)	Rated capacity (kg)	The product described in this brochure
MS(CHOI-II)(I) SERIES) Small machineroom Machine roomless passenger elevator	1.0 1.6 1.75 2.0 2.5	400 450 630 800 900 1000 1150	
MS ( RICH ) Small machineroom high-end business passenger elevator	1.0 1.6 1.75 2.0 2.5	800 900 1000 1150 1275 1350 1600	•
MS(CHOI-II) Small machineroom passenger elevator	1.0 1.6 1.75 2.0 2.5	630 800 900 1000 1150	
NS (CHOI-MRL) Machine roomless passenger elevator	1.0 1.6 1.75 2.0	630 800 1000	
NS(RICH-MRL) Machine roomless high-end business passenger elevator	1.0 1.6 1.75 2.0	630 800 1000 1150 1275 1350 1600	
NS ( NS6100D ) Machine roomless passenger elevator ( Australian Standard )	1.0 1.6 1.75 2.0	630 800 1000 1150 1275 1350 1600	
NS 8600 Machine roomless passenger elevator	0.5 1.0 1.6	1800 2000 2700	
NVS ( RICH-MRLV ) Machine roomless panoramic passenger elevator	1.0 1.6 1.75	800 1000	
QVS ( RICH-V ) Small machineroom panoramic passenger elevator	1.0 1.6 1.75	630 800 1000	
FS Cargo elevator	0.5 1.0 0.25 0.5	2000 3000 5000	
BS Hospital elevator	1.0 1.6 1.75 2.0 2.5		
ZS Swing door villa lift	0.25 0.4	320 400	
ZS Auto door villa lift	0.25 0.4	320 400	
QS6100 High speed passenger elevator	3.0-4.0	1000-1600	
NAVI Super high speed passenger elevator	5.0 6.0 7.0 8.0	1350 1600 2000	
NS(CHIO-II-MRLA) Machine roomless passenger elevator ( Russia Standard )	1.0 1.6 1.75	400 630 800 1000	
MS(CHOI-II A) Small machineroom passenger elevator ( Russia Standard )	1.0 1.6 1.75	400 630 800 1000	
RS9200 Service lift			

# **FBLT** MS(RICH)

TECHNOLOGY LEADS THE MARKET  
SERVICES CREATE VALUE

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SHENYANG YUANDA INTELLECTUAL INDUSTRY GROUP CO., LTD.

TECHNOLOGY LEADS THE MARKET  
SERVICES CREATE VALUE

## BRILLIANT ELEVATOR

- Chinese Pride
- Trust by the world

BLT is the self-owned brand ranking with global elevators and the pioneer leading Chinese elevators to the world, providing the world-renowned buildings with perfect service. It is committed to making the intelligent transportation of every building more secure, comfortable and convenient, and to keeping creating science and technology benchmark.

Yuanda Intellectual Industry Group has been adhering to Three Self developing strategy of self-owned brand, self-owned intellectual property and self-owned marketing network, relying on marketing network with perfect layout, having the whole world in view and comprehensively realizing the function of integration and radiation of global business and service network.

After years of effort, BLT has set up over 140 sales service outlets at home and abroad, 7 wholly-owned subsidiaries in Peru, Mongolia, Singapore, Russia, Australia, Morocco and Papua New Guinea and one holding subsidiary. It has set up factories in India and Kazakhstan. Its own worldwide marketing service network has been built completely, which can provide lifelong top-level professional, high-quality, fast and convenient service for global customers.

Stock Code: 002689.SZ

National Customer Satisfaction Enterprise

National Customer Satisfaction Service



# RICH

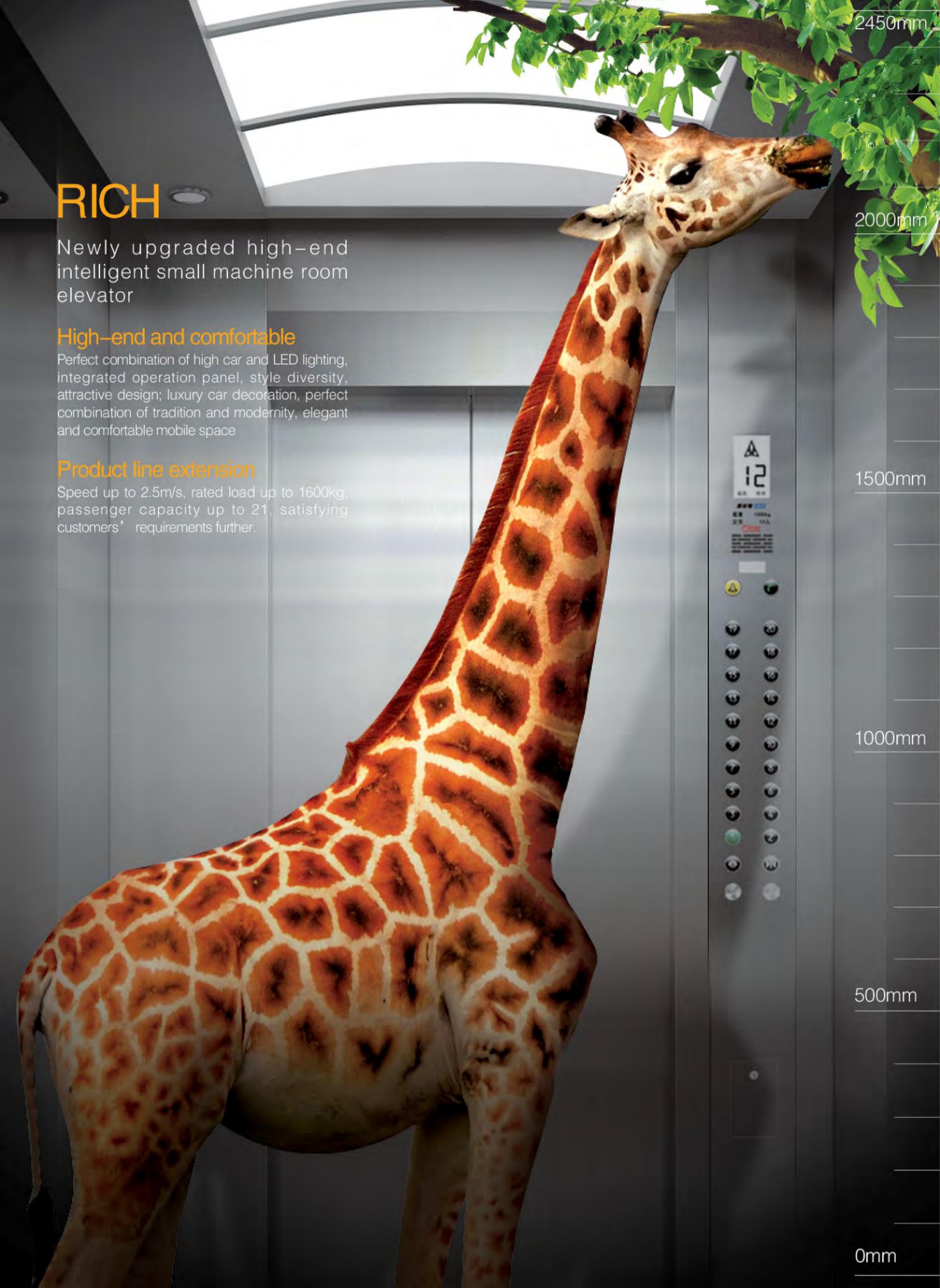
Newly upgraded high-end intelligent small machine room elevator

## High-end and comfortable

Perfect combination of high car and LED lighting, integrated operation panel, style diversity, attractive design; luxury car decoration, perfect combination of tradition and modernity, elegant and comfortable mobile space

## Product line extension

Speed up to 2.5m/s, rated load up to 1600kg, passenger capacity up to 21, satisfying customers' requirements further.



2450mm

2000mm

1500mm

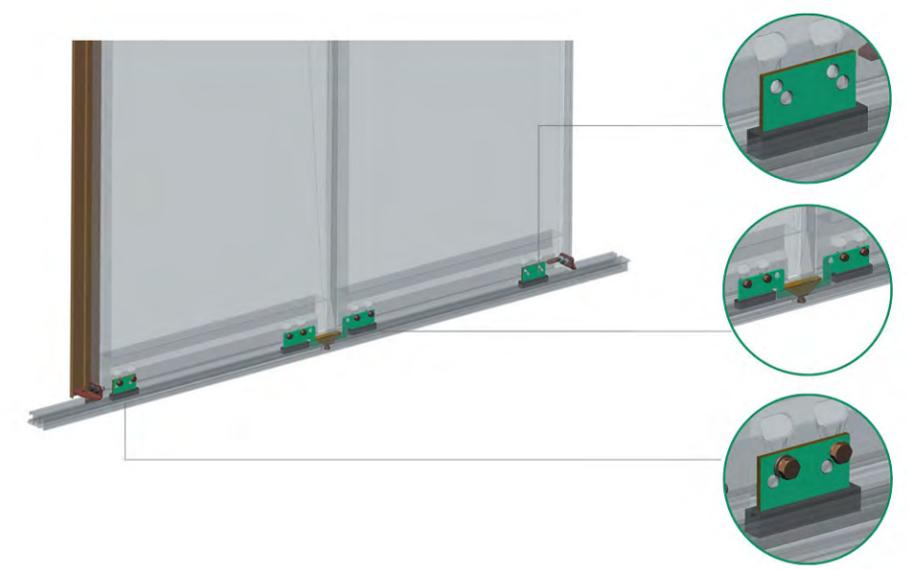
1000mm

500mm

0mm

○The elevator landing door adopts unique anti-dropping design to solve the problems, such as door panel deformation and dropping caused by external shocks.

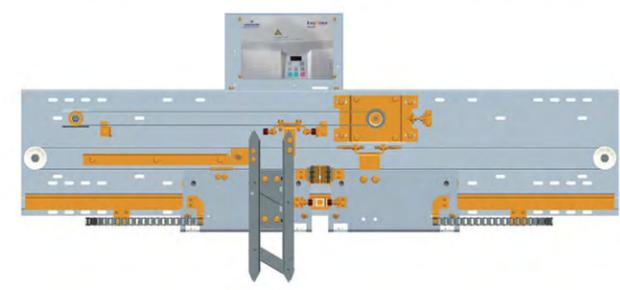
○The design has obtained China national patent: 201320169973.9



## Excellent door system

### Light curtain door

- High sensibility, non-contact design
- Response time < 75ms, effectively ensure safe access of passengers.



○Door system adopts permanent magnet synchronous driving technology, and full closed loop control, extending service life of the elevator.

○More than 8 million times of opening and closing tests ensure the safety of the elevator door system, and stable and reliable operation.



## 卓越的控制系统

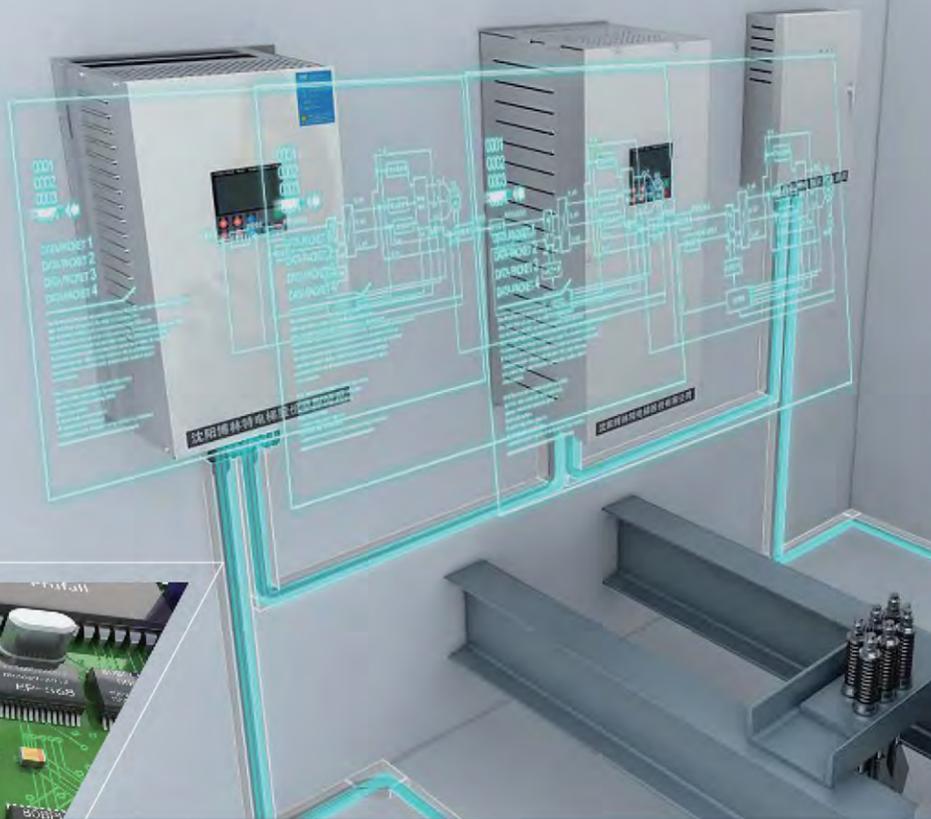
1. Direct arrival improves the efficiency of the elevator, and reduces door open holding time.

2. With strong expandability, strong anti-interference of interface and flexible expansion of the system elevator functions are getting richer.



3. Stable and reliable system adopts imported chip to realize perfect combination of control part and the drive part minimizing malfunction rate.

4. Customized I/O point, more flexible system, being convenient for customers to conduct personalized design



## Energy feedback technology (option)

Energy feedback: green, environmental friendly, healthy

As the scale of city is larger and larger, more and more skyscrapers appear. While the elevator is bringing convenient and comfortable life, it also consumes massive energy. With the arrival of pro-environment trend, elevator energy feedback technology emerges at the moment which is regarded as the revolutionary energy-saving technology.

### Principle

Energy feedback unit converts DC voltage of DC link of inverter to AC voltage with same frequency and phase as grid voltage by automatically detecting DC bus voltage of inverter. Through multiple noise filters, it is connected to AC grid so as to achieve the purpose of energy feedback to grid. The electric energy fed back to grid reaches more than 97% of generated energy, saving the electricity energy effectively.

### Advantages of energy feedback

○ Energy saving, green, environmental protection.

Energy feedback system converts electric energy generated under generation operation state to clean and pollution-free electric energy to feed back the grid, which will save energy up to 30% compared with the elevator without the function of energy feedback.

○ Prolong service life of parts

Due to the cancellation of the elevator regenerative resistance, the temperature inside the machine room drops, prolonging the service life of equipment components.

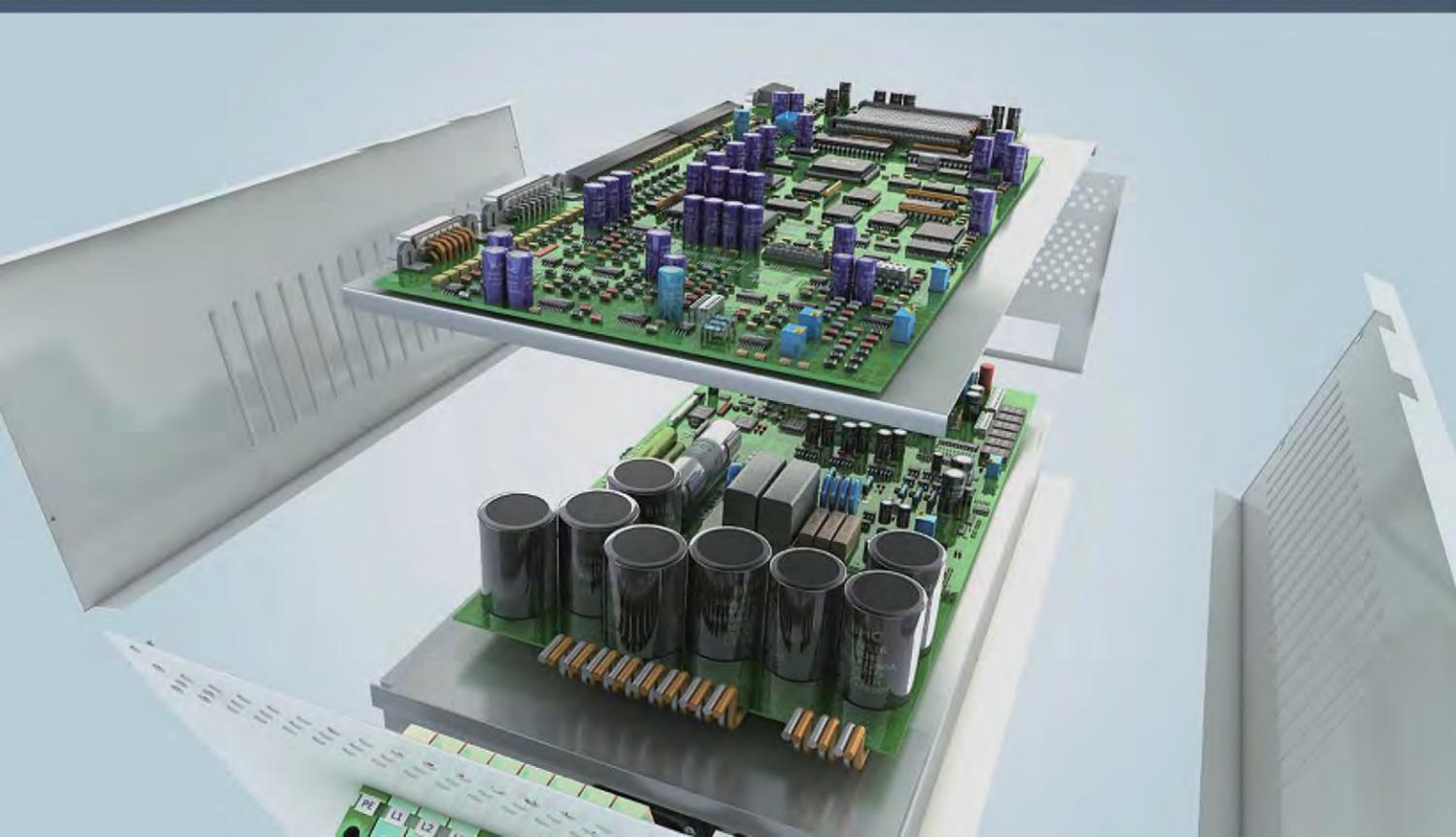
○ Save the investment for the cooling device in machine room.

As the temperature of machine room drops, the cooling device capacity required will also fall sharply, saving investment of equipment and electric charge for the customers.

○ Renewable energy is filtered by high-performance EMI, avoiding the interference of other devices within the grid. Renewable energy of renewable module filters harmonic interference off by the high-performance EMI filter.

○ Comprehensive energy feedback system

Module can achieve energy saving under condition of regenerating, and also act under the condition of motor energy consuming. It can greatly reduce the noise and vibration to improve comfort.





## Roller guide shoe

## Introduction of high-end elevators design concept

Comprehensive application of roller guide shoe is effective to reduce the running resistance; makes the elevator running more smoothly; advocates green environmental protection idea; needs no lubrication; thoroughly gets rid of oil pollution in the shaft.

## Practical, convenient, comfortable and humanized design

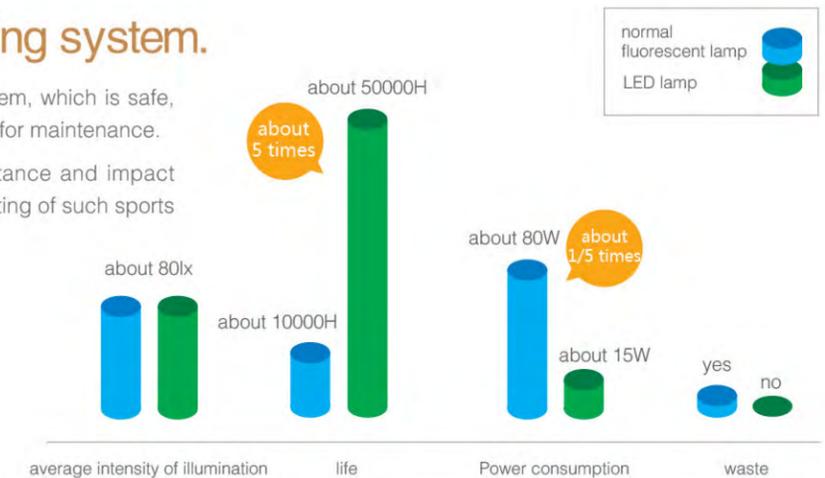
- Roller guide shoe
- Large-size guide rail
- High car+ multiple shock absorption
- Various style car designs
- Embedded integrated operation panel: elegant in appearance, easy for installation and convenient for maintenance.
- Stop directly: Taking the distance as principle it automatically generates running curve without creeping and directly stops at leveling position.
- Light load anti- nuisance function: The number of car calls registered at the same time is limited during light load. The default instruction is only for the first time.
- Car arrival chime is canceled automatically at night: Within the scope of the set time, the elevator will cancel the car arrival chime.
- Pre-opening: When elevator runs automatically, it starts to open the doors before leveling so that the elevator can reach the highest efficiency.
- No lubricant for guide rail
- Car intelligent energy-saving (fan and lighting stops automatically in case of no passengers)



Green lighting, do not contain mercury and other harmful substances!

## Car internal LED lighting system.

- Car is equipped with LED lighting system, which is safe, highly efficient, energy-saving, and easy for maintenance.
- Having the features of vibration resistance and impact resistance, it is especially suitable for lighting of such sports products as elevators.
- Actual life can reach above 50000 H.



# MEET

## INDIVIDUALIZED NEED

K178 (800-1600kg) (standard)



K182 (1150-1600kg)



Car ceiling:	PD060
Front car wall:	Hairline stainless steel; acrylic lamp decoration; down light
Door transom:	Hairline stainless steel
Car door:	Hairline stainless steel
three-side car wall:	Hairline stainless steel+ mirror stainless steel
Operation panel:	K178: integrated operation panel C117Y 7" segment code LCD K182: integrated operation panel C124Y 8.4" dynamic color LCD
Floor:	Plastic MA-025

(computer drawing. May vary from the actual product)

K179 (800-1600kg)



K183 (1150-1600kg)



Car ceiling:	PD121
Front car wall:	Mirror stainless steel, powder spray steel sheet(black), white arc steel sheet acrylic lamp decoration
Side car wall:	Hairline stainless steel
Car transom:	Hairline stainless steel
Car door:	Hairline stainless steel
Rear car wall:	Mirror etched stainless steel
Operation panel:	K179: integrated operation panel C121Y 7" segment code LCD K183: integrated operation panel C124Y 8.4" dynamic color LCD
Floor:	Plastic SJ-025

(computer drawing. May vary from the actual product)

# MEET

## INDIVIDUALIZED NEED

K180 (800-1600kg)



K184 (1150-1600kg)



Car ceiling:	PD057 Mirror stainless steel, acrylic lamp decoration, Down lamp
Front car wall:	Titanium black hairline stainless steel
Side car wall:	Titanium black mirror etched stainless steel+ Titanium black mirror stainless steel
Door transom:	Mirror stainless steel
Car door:	Mirror stainless steel
Rear car wall:	Titanium black mirror etched stainless steel+ Titanium black mirror stainless steel
Operation panel:	K180: integrated operation panel C117Y 7" segment code LCD K184: integrated operation panel C120Y 8.4" dynamic color LCD
Floor:	Plastic SJ-024

(computer drawing. May vary from the actual product)

K181 (800-1600kg)



K185 (1150-1600kg)



Car ceiling:	PD120 Zirconium golden hairline stainless steel etched black filler decoration, white arc steel plate, acrylic lamp decoration
Front car wall:	Zirconium golden hairline stainless steel
Side car wall:	Zirconium golden hairline stainless steel+ mirror etched sand blasting Zirconium golden stainless steel
Door transom:	Zirconium golden hairline stainless steel
Car door:	Mirror stainless steel
Rear car wall:	Mirror etched sand blasting Zirconium golden stainless steel
Operation panel:	K181: integrated operation panel C121Y 7" segment code LCD K185: integrated operation panel C124Y 8.4" dynamic color LCD
Floor:	Plastic SJ-018

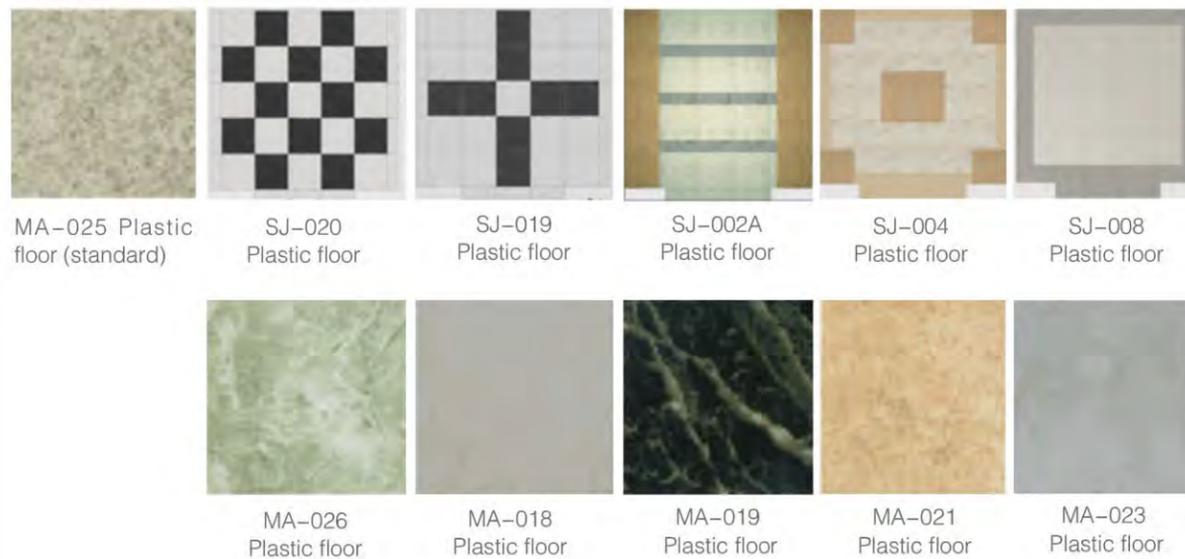
(computer drawing. May vary from the actual product)

## MEET

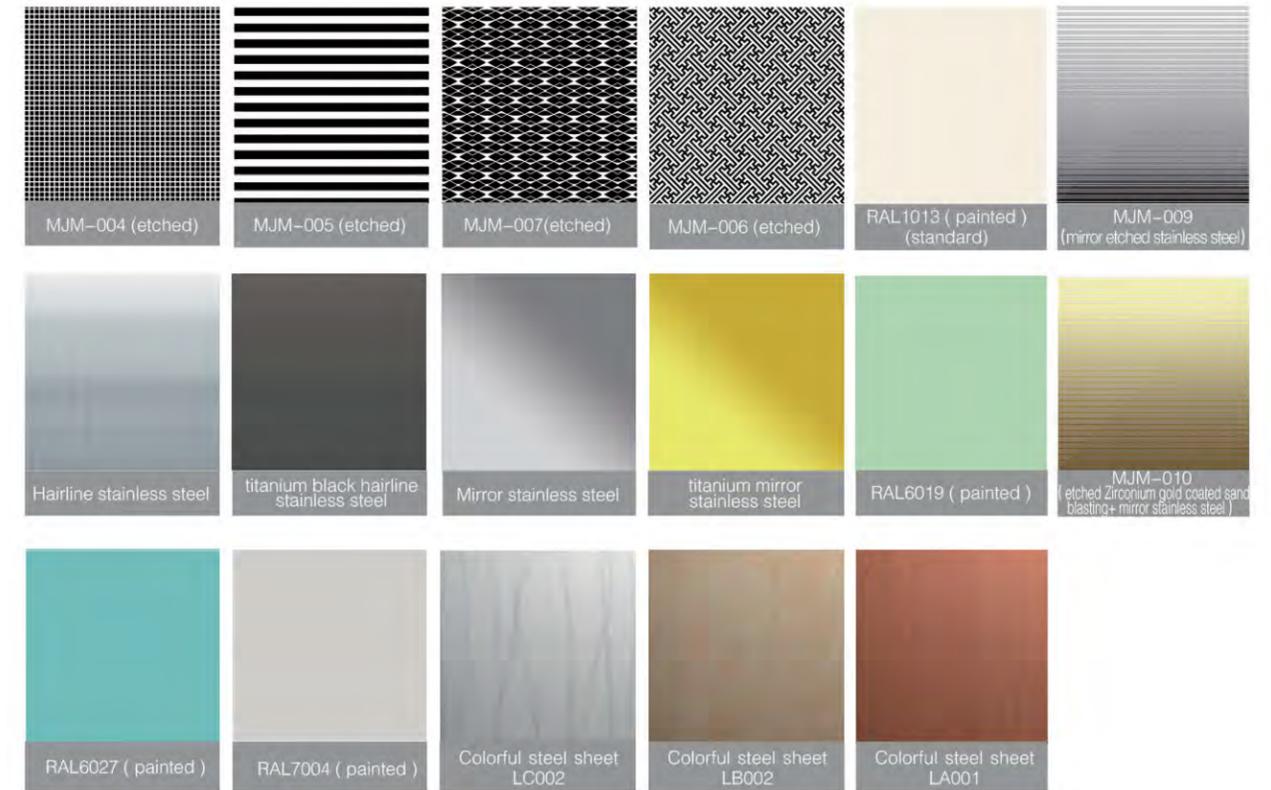
### INDIVIDUALIZED NEED



## CAR FLOOR



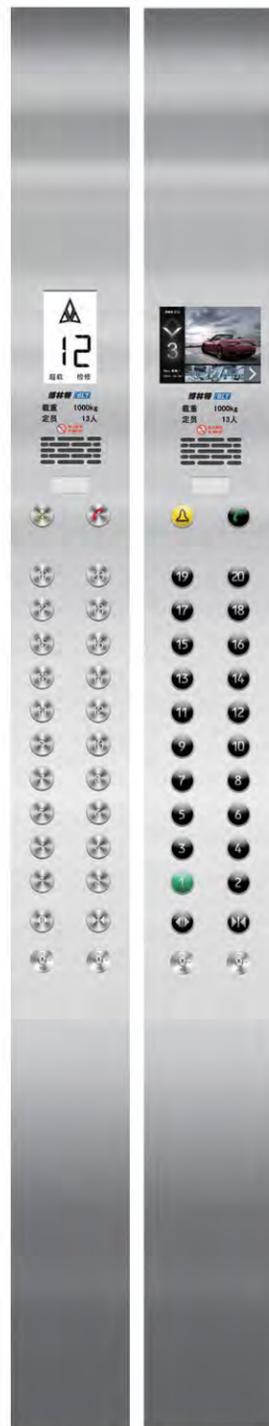
## MATERIAL



## HANDRAIL



## COP & HALL CALL



C117Y  
( standard )      C120Y



8.4-inch dynamic color LCD



10.4-inch dynamic color LCD



C117Y/C118Y/C119Y Hairline stainless steel integrated panel; round white light no Braille metal contact face button; (7-inch static segment code LCD); black text on white background / white text on blue background / white text on black background

C117Y/C118Y/C119Y Titanium black hairline stainless steel (or rose gold hairline stainless steel) integrated panel; round white light no Braille metal contact face button; (7-inch static segment code LCD); black text on white background / white text on blue background / white text on black background

C121Y/C123Y/C122Y Hairline stainless steel integrated panel (Titanium black hairline stainless steel or rose gold hairline stainless steel); round white light no Braille PC contact face button; (7-inch static segment code LCD); black text on white background / white text on blue background / white text on black background

C113Y/C115Y/C114Y Hairline stainless steel integrated panel (Titanium black hairline stainless steel or rose gold hairline stainless steel); round white light metal contact face Braille button; (7-inch static segment code LCD); black text on white background / white text on blue background / white text on black background

C120Y Hairline stainless steel integrated panel (Titanium black hairline stainless steel or rose gold hairline stainless steel); round white light no Braille metal contact face button; (8.4-inch dynamic color LCD);

C124Y Hairline stainless steel integrated panel (Titanium black hairline stainless steel or rose gold hairline stainless steel); round white light no Braille PC contact face button; (8.4-inch dynamic color LCD);

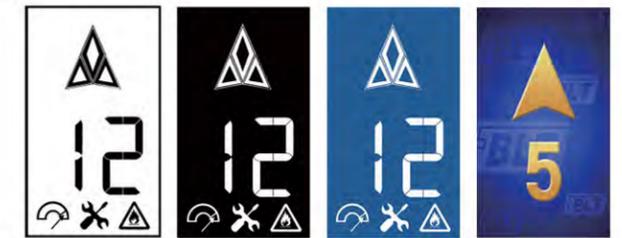
C116Y Hairline stainless steel integrated panel (Titanium black hairline stainless steel or rose gold hairline stainless steel); round white light metal contact face Braille button; (8.4-inch dynamic color LCD);

(computer drawing. May vary from the actual product)

## COP & HALL CALL



H148A  
( standard )      H148AB  
( standard )

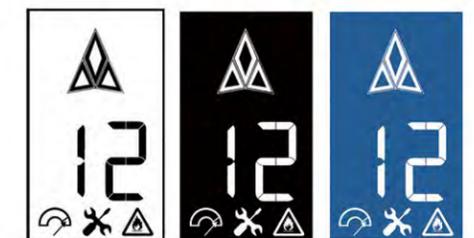


H148A/H151A/H154A/H157A Circular arc hairline stainless steel panel shell; round white light no Braille metal contact face button; 5-inch static segment code LCD; 4.3-inch color LCD; black text on white background / white text on blue background / white text on black background

H148AB/H151AB/H154AB/H157AB Circular arc hairline stainless steel panel shell; round white light no Braille metal contact face button; 5-inch static segment code LCD; 4.3-inch color LCD; black text on white background / white text on blue background / white text on black background; duplex



H139A      H139AB



H139A/H142A/H145A Square aluminum alloy frame fingerprint proof panel shell; round white light no Braille metal contact face button; 5-inch static segment code LCD; black text on white background/white text on blue background /white text on black background

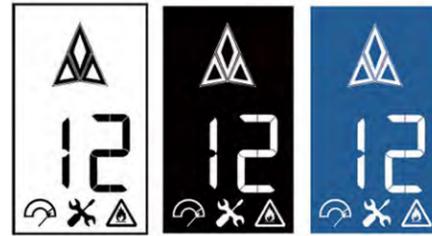
H139AB/H142AB/H145AB Square aluminum alloy frame fingerprint proof panel shell; round white light no Braille metal contact face button; 5-inch static segment code LCD; black text on white background/white text on blue background /white text on black background ; duplex

(computer drawing. May vary from the actual product)

## COP & HALL CALL



H138A H138AB

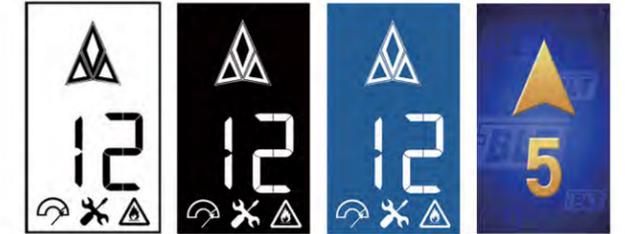


H138A/ H141A/H144A Square aluminum alloy frame fingerprint proof panel shell; round white light no Braille PC contact face button; 5-inch static segment code LCD; black text on white background/white text on blue background /white text on black background

H138AB/ H141AB/H144AB Square aluminum alloy frame fingerprint proof panel shell; round white light no Braille PC contact face button; 5-inch static segment code LCD; black text on white background/white text on blue background /white text on black background; duplex



H147A H147AB

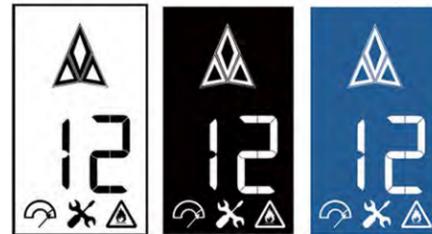


H147A/ H150A/H153A/H156A Circular arc hairline stainless steel panel shell; round white light no Braille PC contact face button; 5-inch static segment code LCD; 4.3-inch color LCD; black text on white background/white text on blue background/white text on black background

H147AB/ H150AB/H153AB/H156AB Circular arc hairline stainless steel panel shell; round white light no Braille PC contact face button; 5-inch static segment code LCD; 4.3-inch color LCD;black text on white background/ white text on blue background/white text on black background ; duplex



H140A H140AB



H140A/ H143A/H146A Square aluminum alloy frame fingerprint proof panel shell; round white light metal contact face Braille button; 5-inch static segment code LCD; black text on white background/white text on blue background /white text on black background

H140AB/ H143AB/H146AB Square aluminum alloy frame fingerprint proof panel shell; round white light metal contact face Braille button; 5-inch static segment code LCD; black text on white background/white text on blue background /white text on black background; duplex



H149A H149AB



H149A/ H152A/H155A/H158A Circular arc hairline stainless steel panel shell; round white light Braille metal contact face button; 5-inch static segment code LCD; 4.3-inch color LCD;black text on white background/white text on blue background /white text on black background

H149AB/ H152AB/H155AB/H158AB Circular arc hairline stainless steel panel shell; round white light metal contact face Braille button; 5-inch static segment code LCD; 4.3-inch color LCD;black text on white background/ white text on blue background/white text on black background; duplex

(computer drawing. May vary from the actual product)

## COP & HALL CALL



H159C

H160C

H162C

H163C

H159C/ H160C/ H161C Square aluminum alloy frame fingerprint proof panel shell; round white light no Braille PC contact face button/ no Braille metal contact face button / metal contact face Braille button; no display

H162C/ H163C/ H164C Circular arc hairline stainless steel panel shell; round white light no Braille PC contact face button / no Braille metal contact face button / metal contact face Braille button; no display



HF300 ( standard )

HF330

H130G

HF300 Hairline stainless steel; circular arc panel upper and lower ends

HF330 Aluminum alloy frame fingerprint proof panel; square panel upper and lower ends

H130G Hairline stainless steel panel; color LCD



C156G

304 hairline stainless steel panel; wall-mounted structure; round white light stainless steel sand blasting contact face Braille button

(computer drawing. May vary from the actual product)

## HALL LANTERNS



HD020  
Hairline stainless steel, vertical installation, ultra thin wall-mounted, with hall arrival chime, white column lamp



HD021  
Hairline stainless steel, horizontal installation, ultra thin wall-mounted, with hall arrival chime, white triangle lamp



HD010  
Square transparent acrylic, milky white acrylic on the back



HD011  
Square transparent acrylic, milky white acrylic on the back



HD012  
Square transparent acrylic, milky white acrylic on the back



HD013  
Square transparent acrylic, milky white acrylic on the back



HD014  
Square transparent acrylic, milky white acrylic on the back



HD015  
Round transparent acrylic, milky white acrylic on the back



HD016  
Round transparent acrylic, milky white acrylic on the back

## STANDARD FUNCTION

### 1 Full collective selective control

In the state of automatic operation the elevator automatically responds to car and hall calls signals. Passengers on every floor can register up and down call signals to call the elevator.

### 2 Door open time setting

According to set time, the system can distinguish holding time for door open of hall call, car call, door protection and delay.

### 3 Service floor setting

The system can choose to close or activate single or multiple elevator service floors as needed.

### 4 Timing service

The system can flexibly set the time and floors for service.

### 5 Door pre-close by the door close button

During door open holding in automatic running state, passengers can press the door close button to close the door in advance, which improves the efficiency.

### 6 Light curtain protection

When the light curtain is blocked during door closing, the door will open again. But light curtain protection doesn't work in the state of firefighting.

### 7 Automatic car light and ventilation fan shut off

If no call or call registration is registered after set time, car light and fan are automatically shut off. If a call is received, light and fan are switched on again.

### 8 Automatic door open upon door lock abnormality

If the system detects that the door lock circuit is abnormal during door open/close, the elevator automatically opens and closes the door again, and reports a fault after the set door open/close times is reached.

### 9 Landing at another floor

If door open limit signal is still invalid after door open time exceeds protection time, elevator will automatically run to the nearest floor.

### 10 Response and landing during acceleration

For calls during the acceleration, elevator will respond to the calls and land.

### 11 Cancellation of wrong car calls

Passengers can press the button consecutively twice to cancel wrong car calls.

### 12 Attendant running

In attendant state, the running of the elevators is controlled by the attendant.

### 13 Self-rescue at low speed

When elevator is under normal service and doesn't stop at the leveling zone, elevator will move to the leveling zone with slow speed as long as it meets the safety requirements of starting.

### 14 Button stuck diagnosis

The control system can automatically identify whether a hall call button is stuck and cancel the stuck call, preventing the condition that the elevator cannot close the door.

### 15 Startup torque automatic compensation

The system automatically implements startup torque compensation based on the current car load, achieving smooth startup and the riding comfort.

### 16 Direct landing

The control system automatically calculates to generate running curve and directly land at leveling position without creeping.

### 17 The best curve automatic generation

The control system automatically generates speed curve which is most suitable for human-machine function principle.

### 18 Record of running times

Elevator can record the running times automatically.

### 19 Record of running time

Elevator can record the actual running time automatically.

### 20 Independent travel

All hall call signals are cancelled, elevators only respond to the car call signals.

### 21 Overload indication

When the load in car is more than related load, the elevator door will keep opening and there will be overload indication in the car.

### 22 Full load indication

Landing indicator shows the elevator is in the state of full load.

## STANDARD FUNCTION

### 23 Full load bypass

In the state of full load the elevator only responds to car call signals.

### 24 Electronic weighing

An electronic weighing device measures car load accurately.

### 25 Non-leveling zone protection

If the control system detects landing door or car door has been opened while the elevator is in the non-leveling zone, the car operation will be stopped.

### 26 Fault data record

The control system can record the detailed fault information automatically to improve the efficiency of maintenance.

### 27 Simple maintenance keypad

The keypad provides the functions, such as commissioning the running floors, door opening, closing and etc.

### 28 Commissioning in car

The hand operation panel can be connected to the system in the car for elevator commissioning, which improves commissioning efficiency.

### 29 Hoistway self-learning function

The elevator runs to the highest floor from the lowest floor at inspection speed and save all of the parameters automatically in the operational process.

### 30 Inspection running

During inspection, the control system will cancel automatic operation of elevator and door. Pushing up (or down) button can make the elevator inch at inspection speed.

### 31 Motor parameters tuning

By parameters setting, the system can complete learning of the related control parameters of motor with or without load.

### 32 Floor position intelligent correction

When elevator arrives at terminal floor, the system will automatically check and correct car position information and completely eliminate faults for over travel top terminal or bottom terminal.

### 33 Fire emergency travel

Elevator will cancel registered calls, return to firefighting main floor and keep doors open after receiving fire signal.

### 34 Fire emergency travel indication

During fire emergency travel landing operation indicator displays fire emergency travel.

### 35 Fireman service operation

Under the mode of fireman service operation the elevator only can open or close the door by constantly pushing open or close buttons. At this time the elevator only responds to car calls (Only one car call can be registered every time.)

The longest traveling time shall be less than 60s (standard function)

### 36 Firefighting "No entry" indication

In case of fire and elevator on the firefighting floor, the "No entry" light on the fire box will be lit.

### 37 Firefighting feedback

When elevator receives the fire alarm signal or fireman service signal, it will return to the firefighting floor to provide relay output interface for fire-service center or BAS system.

### 38 Parking switch

In the state of automatic operation, if elevator parking switch is actuated, the elevator will return to main floor and stop automatic running.

### 39 Troubleshooting based on fault levels

Faults are classified into different levels based on the severity. Different levels of faults are rectified by using different methods to improve efficiency.

### 40 Overspeed stop running

If the elevator speed exceeds the limit, the elevator immediately stops running.

### 41 Terminal floor data correction

If the system detects the abnormal location, the elevator will travel to the terminal level for inspection in order to secure the safety and reliability of the system.

## STANDARD FUNCTION

### 42 Passenger rescue first

Elevator classifies the fault levels automatically, and it will return to leveling position to let passengers get out under the condition of safe running.

### 43 Light load anti-nuisance function

The number of car calls registered at the same time is limited under light load.

### 44 Intercom

A five-way intercom linking car top, the car, the pit, the machine room, and the monitoring room is provided.

### 45 Alarm bell

When the alarm bell button is pushed, the alarm bell will ring.

### 46 Parameter copying

Uploading and downloading parameters to control system by hand-held operator.

### 47 Parameter inspection

Use this function to find out the parameters set by system which are not insistent with original parameters.

### 48 Special display

The system is able to set the display if non-sequenced floor display in car and hall is requested by the customer.

### 49 Running direction and floor display

The floor number on which the elevator is and current running direction is displayed on car operation panel and landing call box.

### 50 Door open with floor button

Before elevator starts, push the button on this floor, the car door will be opened automatically.

### 51 Reverse hall call registration

The call will be registered if the call direction of this floor is not in the travel direction.

### 52 Anti-slip protection

The elevator will stop running when steel wire rope slipping is detected.

### 53 Power failure data holding

All running data will be saved completely and correctly when the power supply is cut off.

### 54 Automatic main floor returning

Under automatic travel, the elevator will return to the main floor waiting if there is no car call or hall call for a period of time. The elevator will respond to any call immediately during the process of returning to the main floor.

### 55 Emergency car lighting

Emergency lighting in car will turn on automatically during power failure.

### 56 Landing display of out-of-service

Landing indicator shows the out-of-service state of elevator.

### 57 Door interlock short-circuit protection

Elevator would stop and send out alarm message when short circuit of door interlock is detected. The elevator will not operate until the fault is eliminated.

### 58 Brake monitoring function

The system automatically monitors the working condition of the brake to ensure the reliable operation of the brake.

### 59 Motor overheat protection

The system monitors whether the motor is overheated, the elevator will stop until the motor recovers to normal condition.

## OPTIONAL FUNCTION

### 1 Duplex running

The duplex control aims at fulfilling two lifts' coordinated responding to the landing call through the data transmission from serial communication bus so that it can enhance the lift running efficiency.

### 2 Group control running

The group control means the concentrated control of the multiple elevators. The system can have a group control of maximum 8 elevators. In using the group control system, the elevator group can automatically choose the most appropriate response so as to avoid the repeated elevator stop, reduce the passengers' waiting period and increase the running efficiency, save the electric energy.

### 3 Distribution waiting

It is optional in duplex or group control.

### 4 Peak service

It is optional in duplex or group control.

### 5 Door safety edge protection

When the door safety edge is touched, the door will open again.

### 6 Integrated light curtain and door safety edge

Integrated light curtain provides dual protection of light curtain and safety edge.

### 7 Door nudging

When door nudging function is started, the elevator will enter door nudging state and slowly close the door with buzzing in the event the elevator cannot close door in excess of set time due to light curtain action. The function is optional when the elevator has integrated light curtain or safety edge.

### 8 Car arrival gong

After elevator arrives at destination landing according to passengers' requirements, there will be prompting signal from car top board. The function is included when there are functions of voice announcement or background music.

### 9 Arrival gong cancellation at night

Within the set time period, the arrival can be cancelled. The function is optional when there is car arrival gong.

### 10 Earthquake emergency travel

When the seismic sensors are actuated, all elevators will stop promptly at the nearest available floor and park there with doors open.

### 11 ARD(automatic rescue device)

If the elevator suddenly stops the running in the mid way due to power failure, this device will actuate rapidly to slowly drive lift to the leveling position. After the leveling, it opens the door to rescue the passengers.

### 12 Standby power transfer device

A standby power transfer device is provided. (Three-phase 380V automatic transfer device can be provided by us, and automatic transfer device of other voltage classes are provided by customers)

### 13 Standby power transfer device interface

Standby power transfer device interface is provided.

### 14 Voice announcement function

Such information as running direction and arrival floors are automatically announced to passengers in the process of running.

### 15 Background music function

Melodious background music is provided in car when elevator is put into operation.

### 16 Pre-opening

When the elevator normally decelerates to the destination landing door zone, if it satisfies the function of opening the door ahead of time, it will do so.

### 17 Releveling

After the elevator parks at the current floor, as too much passengers enter into or leave the elevator, it results in the expansion or shrink of the steel rope, the car will be separated from the leveling zone. Under the door open conditions, the lift will start the low speed running to the leveling point.

### 18 Hall lantern

When the elevator arrives at destination floor, hall lantern will be lit.

### 19 Security floor

After the security floor function is enabled, the security floor is used at 10:00 p.m. to 6:00 a.m, and the elevator runs to the security floor first every time, stops and opens the door, and then runs to the destination floor.

### 20 Car camera interface reserved

Coaxial communication cable is included in traveling cable. The function is included when there is car camera device.

### 21 Car camera device

Cameras are installed in car to monitor situation in car.

### 22 Automatic lock elevator

Make elevator enter into and exit the state of lock elevator automatically by setting automatic lock elevator period in control system.

### 23 Auxiliary car operation panel

This panel can be conveniently used for passengers in large-capacity elevators.

### 24 Operation panel for the disabled

The operation panel is designed for the disabled and has such functions as door open and close, floor selection and sending out rescue signals under special circumstance.

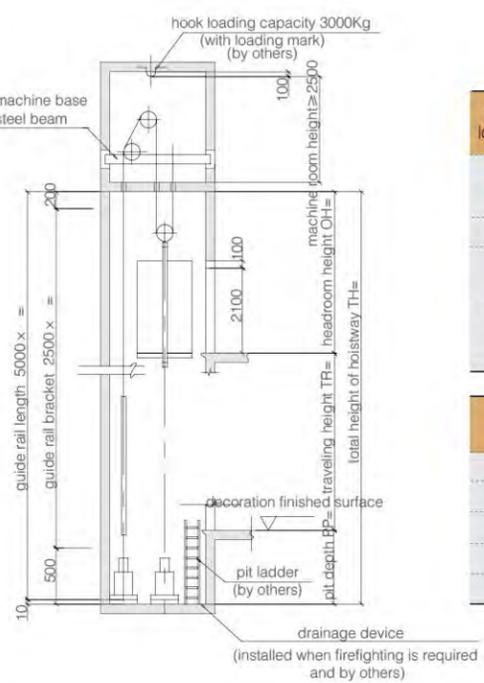
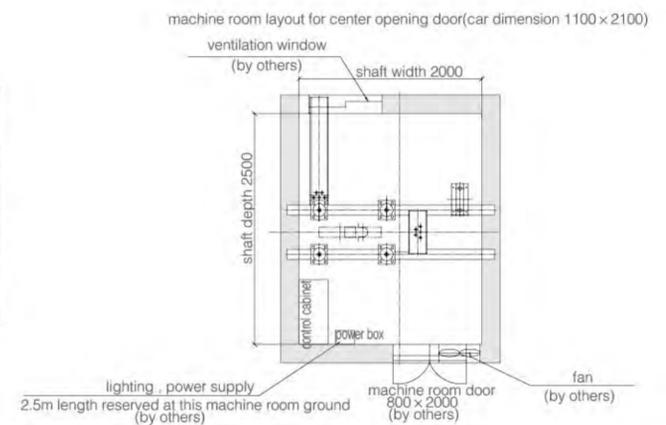
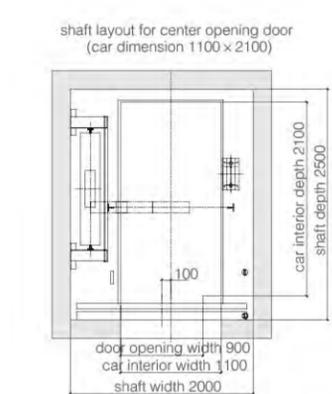
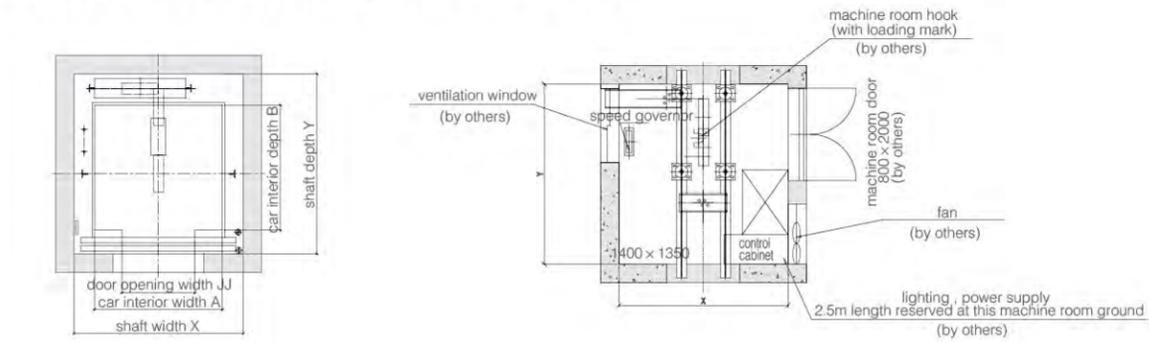
### 25 Through opening door function

When there are two doors for a car, automatic control on the two doors depends on your requirements.

### 26 IC card

Passengers need to use the IC card to go to floors that require authorization.

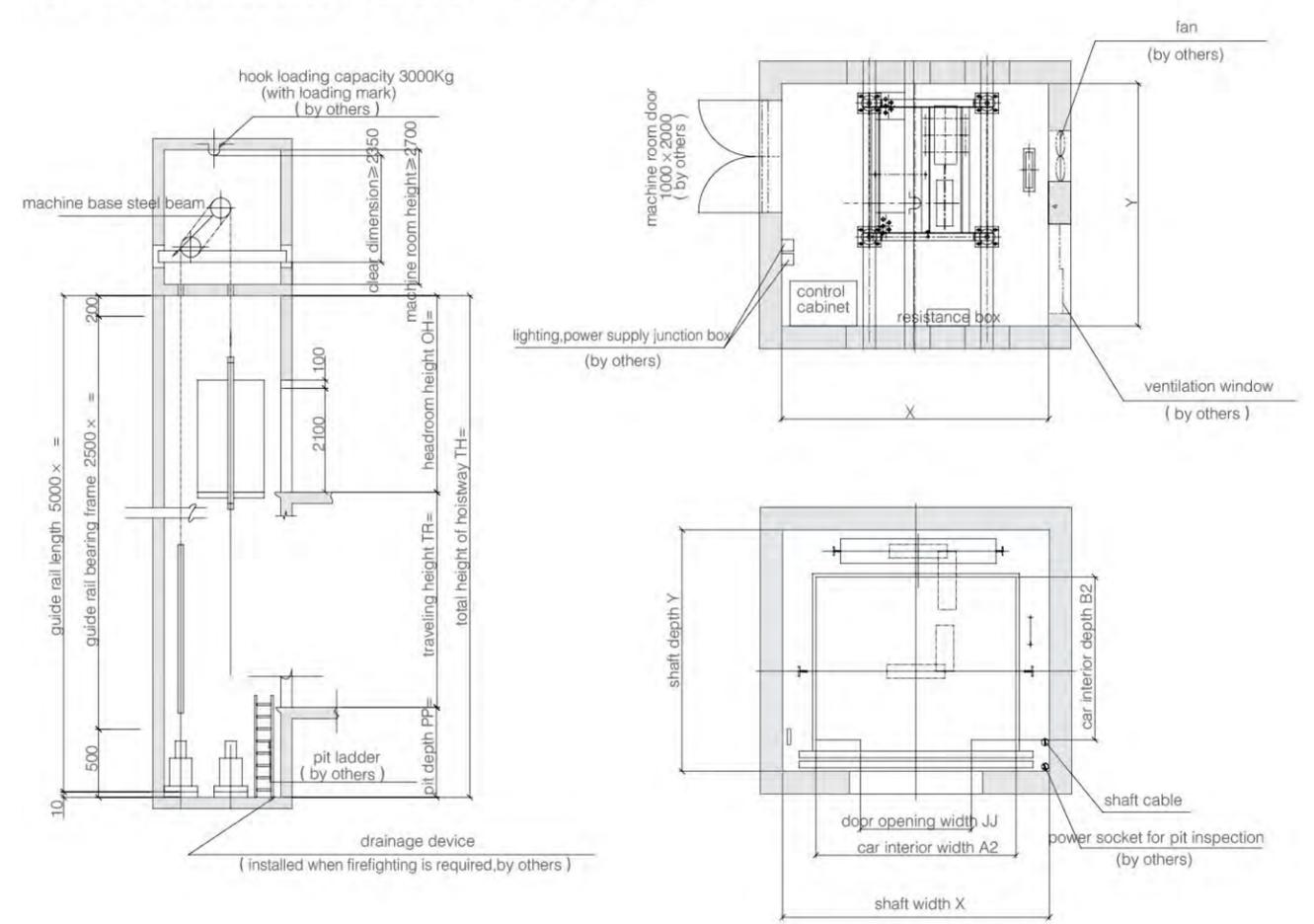
# PLANFORM OF HOISTWAY/MACHINE ROOM



Rated load(kg)	Rated speed(m/s)	Car dimension (width x depth x height)	Door opening dimension (width x height)	Shaft dimension Machine room dimension
800	1.0-2.5	1350 x 1400 x 2450	CO 800 x 2100	1800 x 2000
		1400 x 1350 x 2450	CO 800 x 2100	1850 x 1950
900	1.0-2.5	1600 x 1350 x 2450	CO 900/1000 x 2100	2000/2200 x 1950
		1500 x 1500 x 2450	CO 900 x 2100	2000 x 2100
		1600 x 1400 x 2450	CO 900/1000 x 2100	2000/2200 x 2000
		1600 x 1500 x 2450	CO 900/1000 x 2100	2000/2200 x 2100
1000	1.0-2.5	1100 x 2100 x 2450	CO 900 x 2100	2000 x 2500

Rated speed(m/s)	Top landing height(mm)	Pit depth(mm)
1.0	4050	1200
1.6	4200	1300
1.75	4250	1350
2.0	4380	1550
2.5	4600	1600

# PLANFORM OF HOISTWAY/MACHINE ROOM



Rated load(kg)	Rated speed(m/s)	Car dimension (width x depth x height)	Door opening dimension (width x height)	Shaft dimension Machine room dimension
1150	1.0-2.5	1800 x 1450 x 2450	CO 1000 x 2100	2400 x 2150
		2000 x 1350 x 2450	CO 1100 x 2100	2600 x 2050
1275	1.0-2.5	2000 x 1400 x 2450	CO 1100 x 2100	2600 x 2100
1350	1.0-2.5	2000 x 1500 x 2450	CO 1100 x 2100	2600 x 2200
1600	1.0-2.5	2000 x 1750 x 2450	CO 1100 x 2100	2600 x 2450

Rated speed (m/s)	Top landing height(mm)	Pit depth (mm)
1.0	4450	1460
1.6	4550	1510
1.75	4650	1550
2.0	4700	1600
2.5	4900	1800

Power specification:  
AC380V-50Hz Power supply: three-phase AC380V-50Hz  
AC220 V-50Hz Lighting power supply: single phase AC220 V-50Hz