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GOTS

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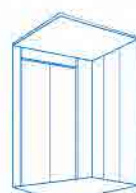
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2016年版

设计单位: 广州电梯厂 13226684419



PASSENGER ELEVATOR

XIZIXIAO ELEVATOR CO., LTD



Bearing More Smoothly

GOTS

Advanced technology Leading the new trend of elevator technology

The system uses a 32-bit microprocessor featuring high clock rate, fast calculation speed, and powerful functions; signal velocity of the open CAN bus network for data communication and management can be as high as 78kbits/sec. 2. Mature industrial bus technology and SMT circuit board printing technology improve the anti-interference performance of the elevator and ensure reliable operation of the system. 3. The advanced door motor system guarantee quick and gentle opening and closing of the hall door and car door. 4. The parameters and control data of the control system and auxiliary system are display and analyzed on personal PC, making the maintenance of the system easier and more predictable. 5. Convenient system management and accurate historical data storage offer you quick access to accurate information through different communication media. 6. The safety circuits of elevator system have been carefully demonstrated by experts to ensure safer operation of the elevator.

Value-added services (optional)

Seamlessly integrate convenient interphone services with the elevator for the property owners and visitors.

- When the owners open the lobby door, the elevator will automatically go down to the first floor;
- When the owners open the lobby door through the interphone for visitors, the elevator will automatically go down to the first floor and the visitor can use the elevator to go to the floors where the owners are at;
- Customized services can be provided to VIP owners;
- Direct traveling service may be provided for women or children use the elevator in night time.



★ Small machine room elevator

The small machine room design adopting compact motor and thin control cabinet can save up to 56% of machine room area, improving the use ratio of building, and fully lower the impacts of machine room on the appearance of building. Such design results in more reasonable building structure, and thereby provide customers with more space.



GOTS

Smaller space an easy solution for buildings

★ Building energy-saving environment

- Energy-saving permanent-magnet synchronous technology, LED lighting, and digital control significantly reduce more than 40% of the energy consumption.
- We are dedicated to guardian of resources and building a sustainable green living environment.



★ Permanent-magnet synchronous motor

- The thin permanent-magnet synchronous gearless traction motor of superior performance can reduce noise and vibration, and eliminate the possibility of failure during deceleration. Meanwhile, it also features the merits of small size, light weight and low power consumption.
- The gearless traction motor significantly reduces the noise in the machine room to a maximum extent of 10dB comparing with the traditional worm drive.
- In addition, permanent-magnet synchronous gearless traction motor needs no lubricant, which eliminates oil pollution and is more eco-friendly.

★ MRL passenger elevator

More independent and free. Space and money-saving due to smaller hoistway. Energy-efficient, more eco-friendly as no space except the hoistway is required. Construction cost effective and greater potential of property appreciation.



Accurate intelligence

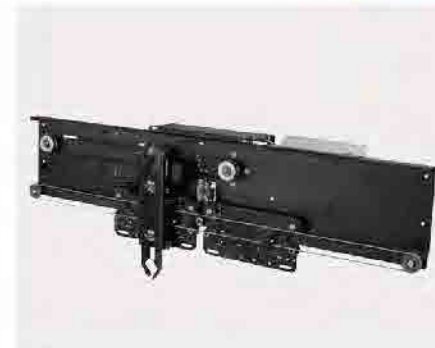
Integration Technology To Attain Quality

GOTS

Accurate Intelligence A

Permanent-magnet synchronous door motor

- The thin permanent-magnet synchronous door motor featuring dual-loop control current speed can open and close the door in multi-speed curve smoothly and efficiently.
- Additionally, several intelligent running curves are available to meet the needs of different occasions.
- The 32-bit microcomputer-controlled system of all-digital operation, by using the microcomputer control system and the highly integrated module technologies of the inverter system to fully improve the response speed and reliability of the system.
- The permanent-magnet synchronous door motor working in the form of direct drive features the merits of large drive torque, compact structure, low running noise, low failure rate, large low-speed torque, wide range of adjustment.



Accurate Intelligence B

AC variable-frequency door motor

Circular-arc-tooth synchronous belt connects to the synchronous door vane and door hanging board; the variable-frequency door motor drives the synchronous belt, door vane and door hanging board to open and close the door. In the processes of door opening and closing, the synchronous door vane has always hold to the lock roller of floor door to ensure synchronized movement of the car door; a bistable switch, photoelectric encoder, and optical encoder are used to position the door hanging boards on the left and right of the door motor; by adopting the integrated variable-frequency control system for the door motor, automatic control of door opening and closing with the door motor can be realized. The motor features the characteristics of simple transmission, high positioning accuracy, and smooth running. As the door hanging roller only contacts with a small area of the guide rail surface, the motor generates low noise and runs reliably.



Accurate Intelligence C

Control system

- The direct parking technology controlling distance offers greater conform at the starting and stopping, and higher efficiency than creeping parking;
- Integrating advanced 32-bit CAN-BUS, MDBUS, DSP dual-port RAM communications, and multi-CPU redundancy control, the variable-frequency control technology is becoming more mature and stable, guaranteeing low failure rate
- The advanced remote monitoring technology can be used to monitor the real-time use of elevators in buildings, provide reliable information and high anti-jamming capability.



Accurate Intelligence D

Sound and reliable IC card system solutions (optional)

External call systems: Preventing people without a card or with an invalid one from entering the elevator; offering the functions of charging and management.

Internal call system: Meeting the needs of floor management, elevator charging and security.

Visitors system: Meeting the needs of visitors through the interphone system, fingerprint system and coin system.

Fingerprint system: Furthering the upgrading of the intelligent elevator to meet the needs of a high level of security by equipping charging function in the community.

Remote system: Meeting the needs of real-time control and management of the elevator.



Real-time monitoring

Real-time monitoring of the elevator to understand its operation and status



Data monitoring



Map monitoring



Video monitoring

- ▶ Collecting elevator data to simulate elevator running.
- ▶ Presenting the status of elevator running in maps.
- ▶ Real-time video monitoring of what is going on in the elevator.



Elevator alarm

In case that the passengers are trapped, Xingchen Internet of Things will immediately notify the property management office, maintenance personnel and other related parties to the rescue them. Additionally, the LCD screen in the car will be immediately switched to videos pacifying and guiding the passengers to properly respond to the situation and wait for rescue by ways of voice and video to avoid secondary accidents.



Intelligent statistical analysis

- ▶ The system will tell you which elevators often malfunction;
- ▶ The system will tell you which elevators need maintenance;
- ▶ The system will help you analyze the causes of elevator malfunctions;
- ▶ The system will tell you which elevators have potential safety risks.

Xingchen Internet of Things
Your elevator safety guardian



IOT. Big data. Cloud computing. New media

Open platform, easy access

The Alibaba Cloud-based data center of distributed architecture and low power consumption can, on the basis of fully-secured data stability and security, provide elevator manufacturers with more convenient and efficient modular access.

Internet car new media

Based on the best practice of Internet cross-border thinking, the car advertisement distributed via the Internet greatly enhances the timeliness and accuracy of distribution as only by clicking on the phone, the advertisement will be distributed for broadcasting, which thoroughly address the existing problems of manual replacement of advertisement: Long cycle, high labor costs and delayed replacement.



Standard car design



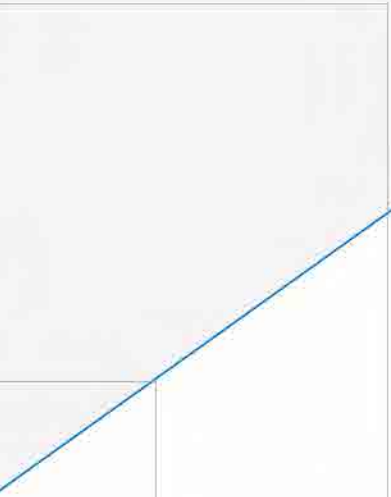
TS-J01 (standard)

Car ceiling: Suspended ceiling TS-D04, transparent LED lamps on the stainless steel panel with white transparent plate of subdued lighting design in the middle

Back wall/central panel: Mirror polished stainless steel

Panels on both walls/auxiliary panel: Streak-pattern stainless steel

Car floor: TS-B05 2.0mm-thick PVC mosaic marbled floor



BA541 (standard)
Braille function



Standard COP 7-inch LCD display
Split COP
Panel: Stainless steel, displaying 7-inch color images



TS-W04 standard
Call box without bottom box
Panel: Stainless steel
Display: 4.3-inch crystal blue background and white characters

Luxury car design



TS-J03
(optional and to be paid)

Car ceiling: Suspended ceiling TS-D04, transparent LED lamps on the stainless steel panel with white transparent plate of subdued lighting design in the middle
Central panel: Mirror polished, etched and streak-pattern
Auxiliary panel: Streak-pattern
Car floor: TS-B04, 2.0mm-thick PVC mosaic marbled floor



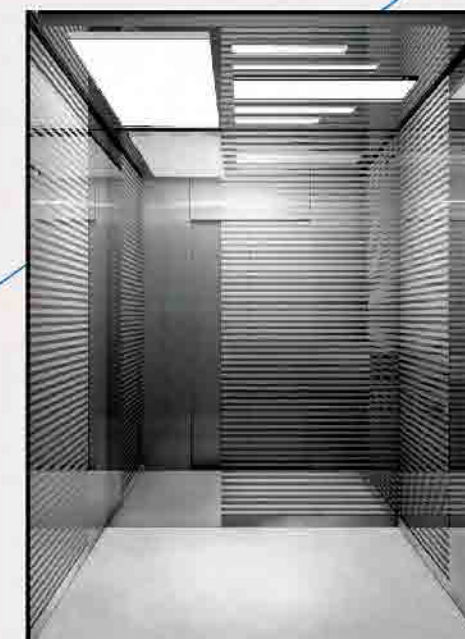
Luxury car design

GOTS



TS-J18 (optional and to be paid)

Car ceiling: Suspended ceiling TS-D04, transparent LED lamps on the stainless steel panel with white transparent plate of subdued lighting design in the middle
Central panel: Mirror polished, etched and streak-pattern
Auxiliary panel: Streak-pattern
Car floor: TS-B04 2.0mm-thick PVC mosaic marbled floor



TS-J19 (optional and to be paid)

Ceiling: Mirror polished stainless steel + acrylic light fixture
Back wall: Mirror polished etched stainless steel + mirror polished stainless steel
Side wall: Mirror polished etched stainless steel + mirror polished stainless steel
Car floor: Volakas white PVC



Luxury car design



TS-J06 (optional and to be paid)

Car wall: Rose golden mirror polished stainless steel in the middle, streak-pattern etched panel on both sides
Car ceiling: Mirror polished stainless steel and acrylic light fixture
Car floor: 2.0mm-thick PVC mosaic marbled floor



TS-J09 (optional and to be paid)

Car ceiling: Hollow mirror polished stainless steel panel, translucent acrylic panel
Ventilation: Air coming from both sides of the ceiling
Car wall, car door and lintel: Rose golden streak-pattern stainless steel
Doorpost: Rose golden streak-pattern stainless steel
Car floor: 2.0mm-thick PVC mosaic marbled floor



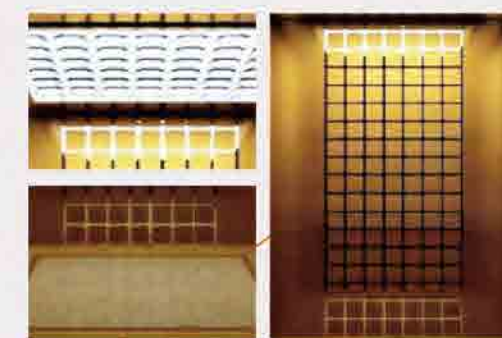
Luxury car design

GOTS



TS-J12 (optional and to be paid)

Ceiling: Curly-grain and titanium-plated frame + acrylic top panel + spotlight
Car wall: Curly-grain and titanium-plated
Car floor: 2.0mm-thick PVC mosaic marbled floor

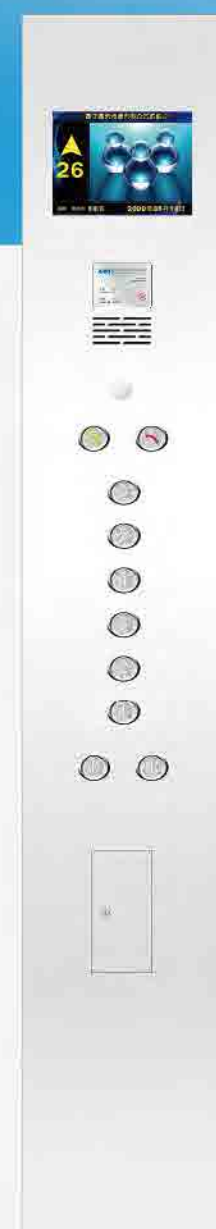


TS-J13 (optional and to be paid)

Ceiling: Powder coated stain panel
Car wall: Mirror polished titanium-plated stainless steel + titanium-etched stainless steel
Car floor: 2.0mm-thick PVC mosaic marbled floor



Control panel outbound system



Integral COP (optional)
10.4-inch LCD display



Standard COP
7-inch LCD display

Optional button



Elevator LCD video player

Product features:

- ★ Flexible display interface allowing modification and customization
- ★ Industry-grade super-low power consumption, embedded design, integrated structure, and high stability
- ★ Industry-grade color TFT LCD
- ★ Direct connection to serial signals of major elevator manufacturers without conversion board
- ★ Playing real-time network streaming media, VCD, DVD, and TV programs
- ★ Flexible installation, horizontal or vertical



Parallel call panel



TS-W01 Integrated call and fire fighting panel at the first-floor base station (embedded)



Acousto-optic floor indicator



TS-W06 luxury mirror polished titanium call panel (wall mounted)



Base station fire fighting panel (wall mounted)



Lock panel (wall mounted)



TS-W05 optional (wall mounted optional)



TS-W09 optional (wall mounted optional)



TS-W04 optional

Elevator very boring series

Elevator hall door series

GOTS



TS-M01 standard base station

Door pocket: Small streak-pattern stainless steel door pocket
Hall door: Streak-pattern stainless steel
Door sill: Hard aluminum alloy



TS-M02
None-standard base station

Door pocket: Small spraying steel panel pocket (colors available for selection)
Hall door: Spraying steel panel (colors available for selection)
Door sill: Hard aluminum alloy



TS-M03
(optional and to be paid)

Door pocket: Large streak-pattern stainless steel door pocket
Hall door: Streak-pattern stainless steel
Door sill: Hard aluminum alloy



TS-M04
(optional and to be paid)

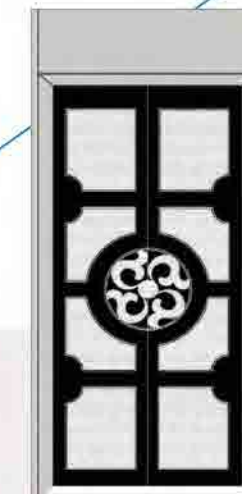
Door pocket: Large streak-pattern stainless steel door pocket
Hall door: Etched stainless steel
Door sill: Hard aluminum alloy



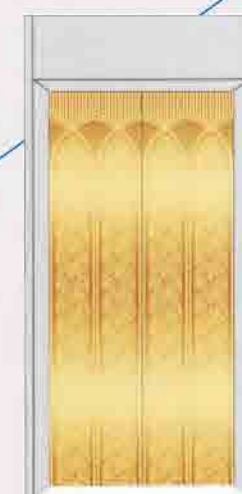
TS-M05 (optional)
Mirror polished/etched



TS-M18
polished/etched/streak-pattern/curly-grain



TS-M07 (optional)
Mirror polished/etched/streak-pattern



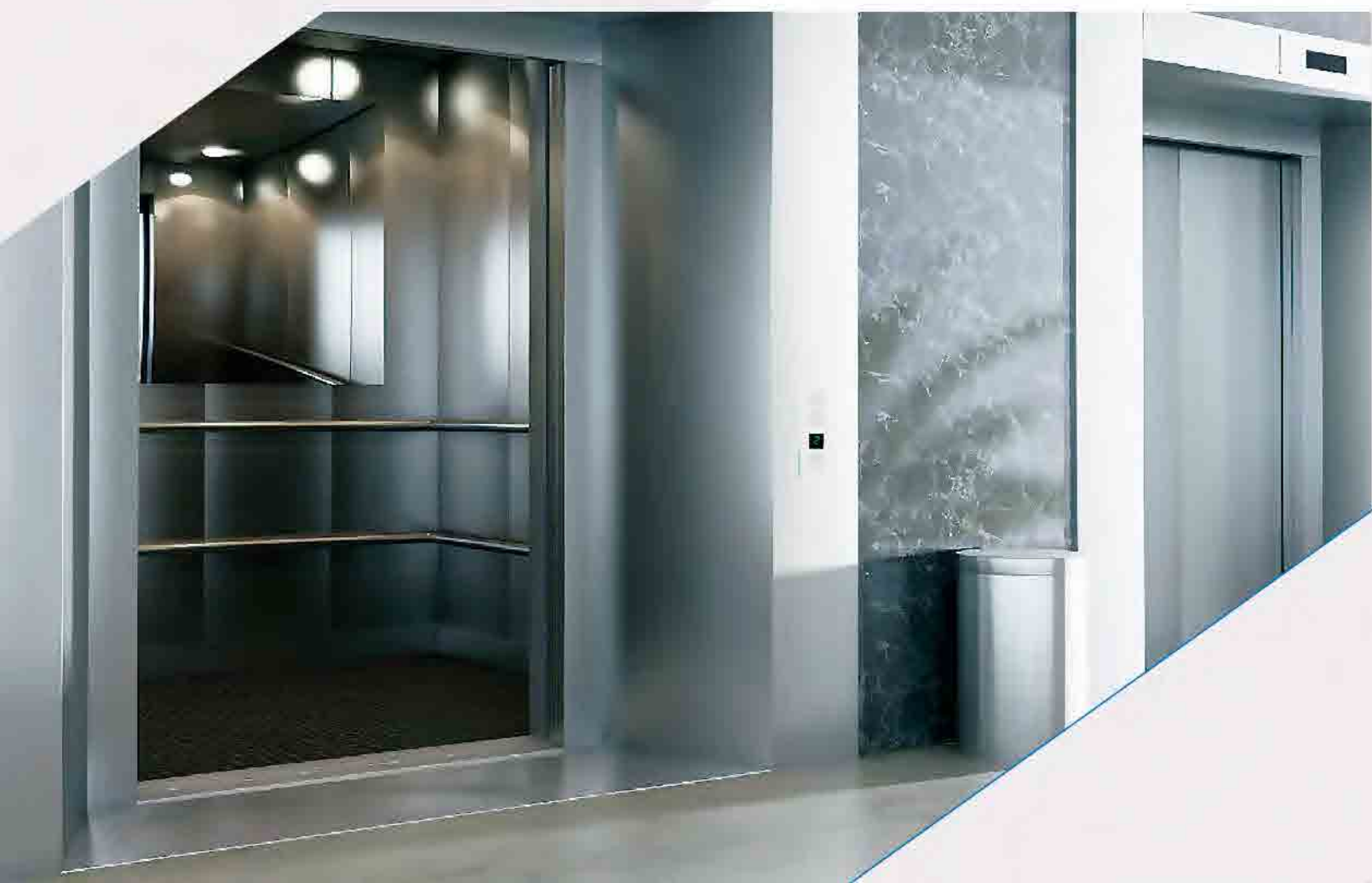
TS-M08 (optional)
Mirror polished/etched/titanium-plated



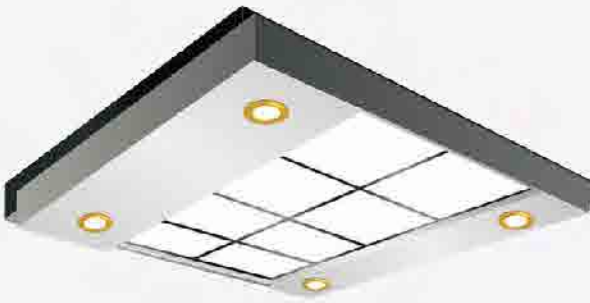
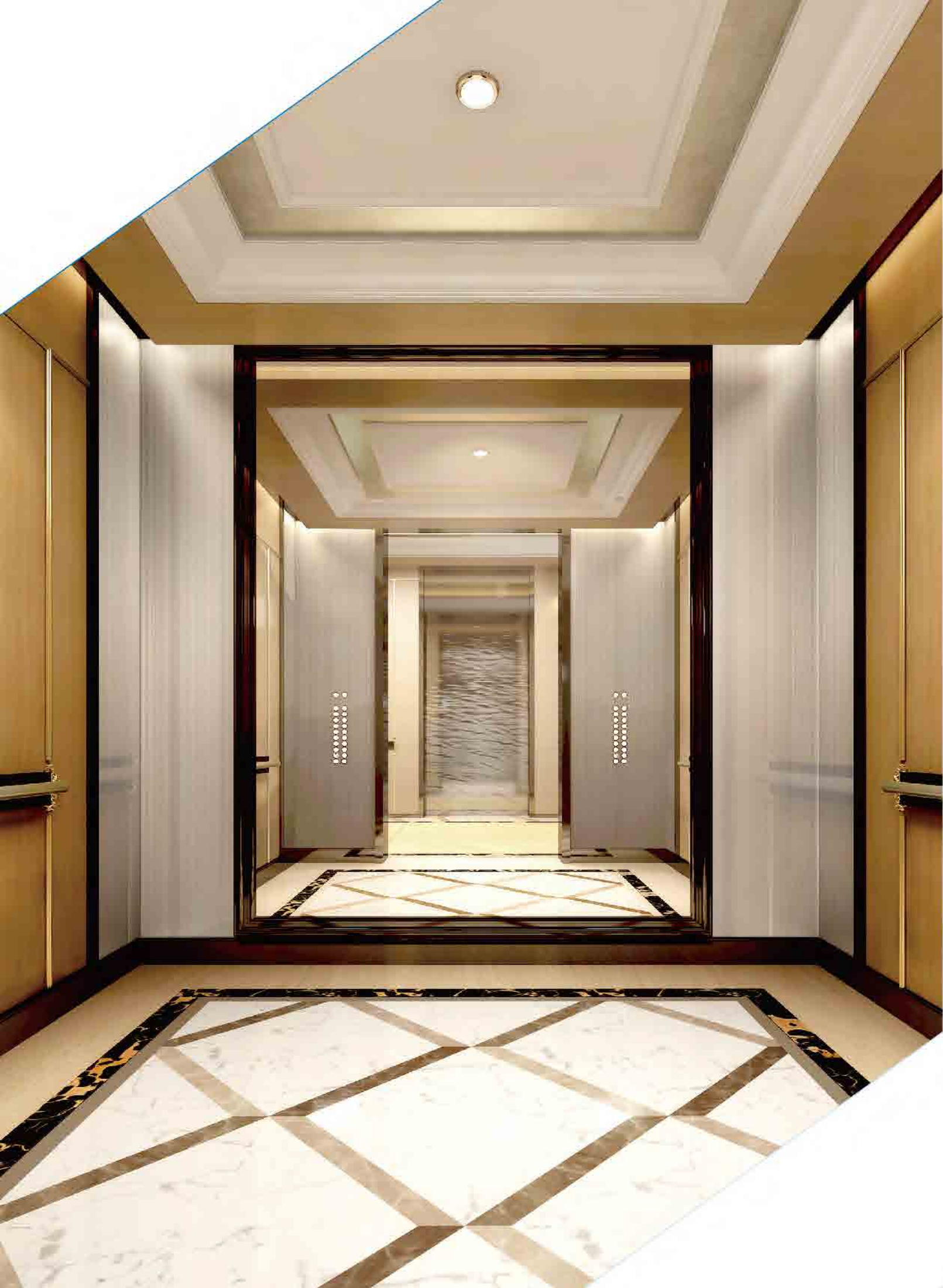
TS-M09 (optional)
Mirror polished/etched/streak-pattern



TS-M10 (optional)
Mirror polished/etched/streak-pattern/curly-grain



Ceiling decorating



TS-D01



TS-D02



TS-D03



TS-D04



TS-D05



TS-D06



Car floor decorating



TS-B01



TS-B02



TS-B03



TS-B04



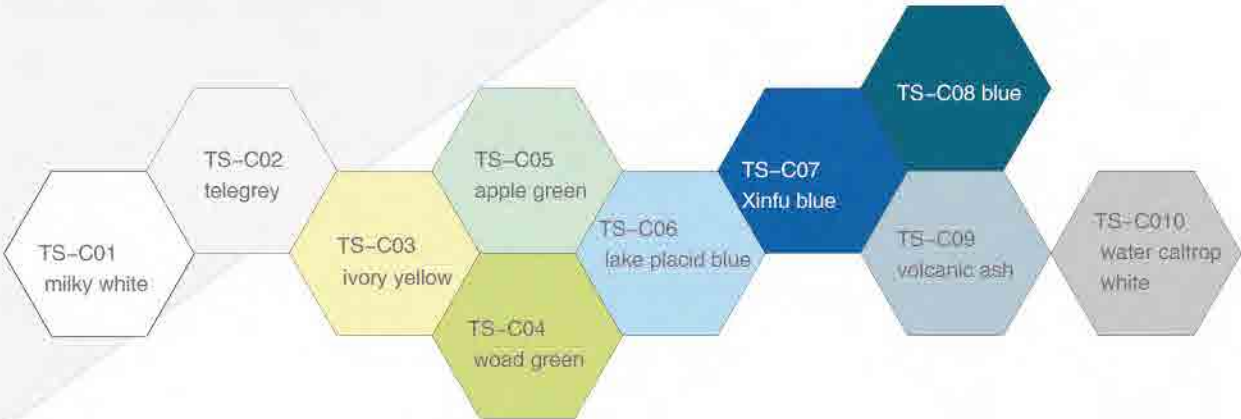
TS-B05



TS-B06

★The car floor is decorated with 2.0mm-thick PVC mosaic marbled panel featuring the merits of light weight, easy installation, good color, and elegance, comparable with marble.

Elevator decorating-swatch



Armrest series



TS-F01 material surface treatment: Stainless steel, matt, shout grain
Size (mm): 51X1000



TS-F04 material surface treatment: Triple combination of stainless steel and titanium
Size (mm): 25.4X1000



TS-F06 material surface treatment: Combination of log and titanium
Size (mm): 51X1000



TS-F06 material surface treatment: 6mm short grain stainless steel and circular ends
Size (mm): 80X1000

Rebo features

Running

Full collective control

On the basis of the signal control, collect all the call signals and response selectively.

Direct running when fully loaded

When fully loaded, the car does not respond to external call signal and only implement the one inside.

Automatic returning to base station

Within the set time, if there is no internal or external call, the car will automatically return to the set floor (base station).

Automatic canceling opposite instruction

When the car is running, the opposite floor signal sent through the COP will be automatically canceled.

Automatic learning of distance between floors

The system can automatically record the height of the each floor so as to precisely control the distance of elevator running.

Automatic diagnosis of failure

The system can automatically diagnose and record the signal of failure of the elevator, and use special tools for quick troubleshooting.

Anti-trouble-making

The system will compare the car load against the instruction, and will automatically cancel the signals inside the car if there is only a few passengers but too many instructions.

Canceling the wrong instruction

If the elevator is not running, you can double click the call button of a certain floor to cancel the sent signal.

Door open and door close buttons

Inside the car there are door open and door close buttons. If the elevator is not running, you can press the door open button to open the door, and press the door close button to cancel the waiting time to close the door immediately, improving the efficiency of running.

Automatic correcting running

When the elevator is out of position, the elevator will automatically find the correct position.

Reopening the door in the hall of a floor

When the elevator stops at a floor, you can press the call button indicating the running direction of the elevator to reopen the door.

Torque compensation without weighing

When the elevator starts, no additional weighing switch is needed, the system will automatically carry out torque compensation based on the weight of the car, so as to guarantee comfort at the start.

Safety

End station protection

When the elevator arrives at the top floor but its speed has not been reduced to the speed set in the system, the protection device will force it to slow down to ensure safety.

Light curtain door protection

There is a light curtain protection web at the entrance of the elevator. Each scan cycle contains more than 94 infrared beams, with the reaction time being less than 0.1 second.

Door closing torque protection

If mechanical jam occurs when the car door closes, with the torque exceeding the predetermined value, the car door will reopen.

Overload alarm

When the weight of passengers inside the elevator exceeds rated capacity, the buzzer will send out an alarm signal to remind the passengers to leave the car and cancel the instructions sent from the car.

Delayed protection of car door opening and closing

When the elevator stops at a certain floor, if as a result of resistance or other factors, the door fails to open to the predetermined position within the set time, the elevator will enter the door opening protection mode, in which if the door still can't open successfully at three attempts, the elevator will then run to the next floor to open the door; if due to resistance or other factors, the door fails to close to the predetermined position within the set time, the elevator will enter the door closing protection mode, and not respond to the call instructions.

Motor overheating protection

If the temperature of motor exceeds the limit, the elevator will enter the standby mode after finishing the current running, and automatically resume operation when the temperature drops to normal range.

Abnormal speed detection

Through comparing the feedback signals of the encoder and the speedset in the system, the system can control the running speed of the elevator. Once the difference between the two exceeds the allowed range, the system will enter the protection mode, stopping the elevator from running.

Detection of Contactor abnormality

The system monitors the main contactor and the brake contactor based on the command status of the contactors. In case of detecting any abnormality, the system will enter the protection mode, stopping the elevator from running.

Detection of power supply system abnormality

If the fluctuations in the power supply system exceed a certain range, resulting in phase dislocation and phase loss, the system will enter the protection mode, stopping the elevator from running.

Detection of brake abnormality

When the system sends out a command of running but detects that the brake is not opened, or the system does not send out a command of running, but detects that the brake is opened, the elevator will be protected and stopped from running.

Emergency devices

Machine-room emergency electrical running

There is machine-room emergency electrical running devices inside the control cabinet. In case of emergencies, professionals can operate the elevator in the machine room.

Emergency lighting in the car

Inside the car there should be equipped with emergency lighting.

Alarm in the car

In case of emergencies, passengers can press the alarm button on the COP to seek help.

Energy conservation

Automatic control of lightning and fan in the car

If there is no call signal within the set time, the lighting devices and fan inside the car will be automatically shut down to save energy.

Canceling door close waiting time

By pressing the close button inside the car, the car door will be immediately closed.

Elevator lock switch

After the elevator lock switch is turned on, the system will no longer responds to any calls and automatically return to the base station after responding to all the instructions sent from the car.

Control of door open waiting time

The system can set different door open waiting time responding to calls from outside and inside the car if required.

Human-Machine interface

LCDs in the car and the hall

Color COP and LCDs for calls display information on floors and the running direction of the elevator.

Car arrival chime

When the elevator arrives at a station, the car arrival chime will ring to remind passengers that the elevator has arrived.

Directional indicator in the hall and the car

When the elevator is running, the running direction will be displayed on the call panel and display in the car.

Customized floor display settings

The floor display information can be customized based on the customers' needs, which may include any two characters, one from 0 to 9, the other A to Z (please be noted that 0 cannot be distinguished from O, 2 from Z, 5 from S, and 8 from B).

Special running

Automatic parking

Based on the results of integrating the information on all floors, the elevators will be automatically parked on different floors, improving the working efficiency.

Five-party interphone

The car, car bottom, car ceiling, machine room and monitor room form an interphone system.

Switch for canceling the call from the hall

There is a switch on the mainboard. So the call instructions will be canceled simply by dialing, making it convenient for debugging and maintenance.

Static positioning

When installing the elevator, there is no need to disengage the steel wire rope from the motor to position the motor at a certain angle, hence easy installation.

Car ceiling inspection and repair

There is an inspection and repair switch on the car ceiling for the convenience of the maintenance personnel to carry out maintenance work in the hoistway. If the switch is on, the inspection and repair switch in the machine room is disabled.

Optional features

Running

Re-leveling

When the elevator door opens, the steel wire rope stretching caused by the entry of passengers causes the elevator leveling position to change. Under this circumstance, the elevator will automatically level to the correct position at a very slow speed.

Down collective operation

When the down collective operation is selected, the up button is only available on the base station or the ground floor, and on the other floors there is only down button.

Operator services

If the car is equipped with the driver switch and when it is on, the elevator will start operator services and controlled by the operator in opening and closing the door.

Independent services

If the car is equipped with the independent service switch and when it is on, the elevator will get out of group control and not respond to the call instructions.

Direct travel by operator

When the operator switch is on, the operator will press the direct travel switch to bypass all the calls. The elevator will not respond the calls until the direct travel switch is off.

Door open hold switch

The car is equipped with a door open hold switch and when it is on, the door will not be closed within the set hold time, after which the door will be automatically closed. During the hold time, the passenger can press the door close button to cancel the door open hold and immediately close the door.

Parallel/group control function

The parallel function is available when there are two elevators, and group control function for three. When the parallel/group control function is activated, the system will, based on the priority of calls, send the fastest possible elevator to respond to the call instructions, so as to reduce the waiting time.

Timer switch

Timing equipment is added for all-weather control of the elevator.

Human-Machine interface

Elevator air conditioner

An air conditioner can be equipped to keep the temperature in the car within a range in which passengers feel comfortable.

Arrival chime in the hall

Usually an arrival chime will be integrated into the call display in the hall.

Voice indicator

A voice indicator is equipped to accurately tell passengers which floor the elevator arrives, door status and etc.

Energy-efficient display in the hall

If there is no call signal after a long time, the display in the hall will automatically enter energy-saving mode.

Safety

Intelligent IC card management

When the IC card function is activated, only the card holder can use the elevator by swiping the card.

Password-protected services

When this function is activated, calls of certain floors can be prohibited by setting a password, and only those who enter the correct password have the right to call the floor.

Emergency fire-fighting switch

The base station is often equipped with an emergency fire-fighting switch and when it is on, the elevator will cancel all the sent instructions and directly travel to the fire-fighting floor before opening the door and responding to any calls.

Community monitoring system

Special video devices can be equipped to monitor the real-time status of the car.

Emergency rescue device for power outage

When the elevator is equipped with the device, it will automatically switch to the emergency rescue mode in case of power outage, stopping on the nearest floor and then opening the door while pacifying passengers with voice message.

Light curtain door protection

In the process of door closing, if the infrared beams covering substantially the entire height of the door detect passengers and objects, the door will be re-opened.

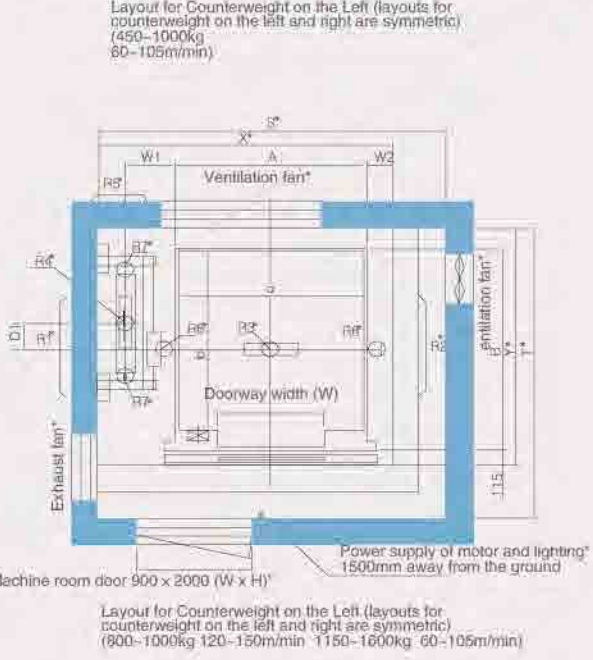
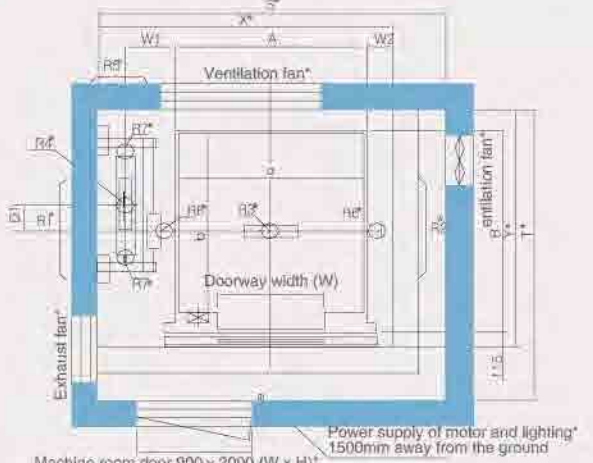
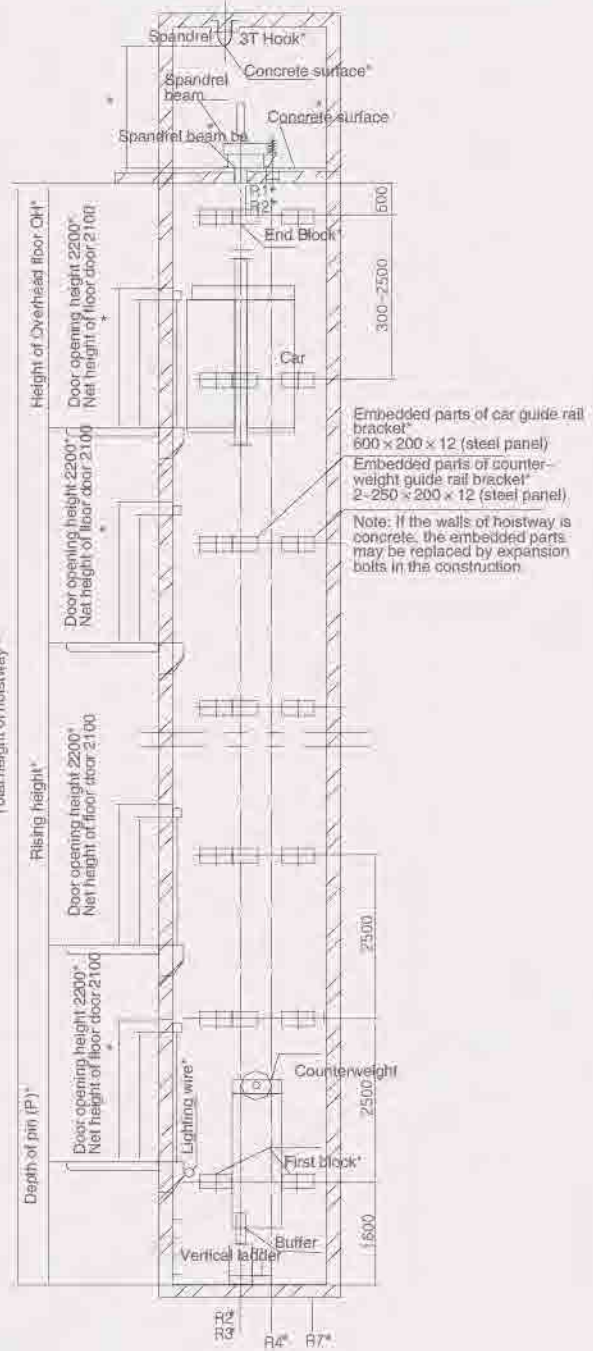
Technical parameters

Loading Flare number	Speed (mm/s)	Car dimension (mm)		Doorway dimension (mm)		Hoistway dimension (mm)	Machine room dimension (mm)	Machine room hoist capacity (N)			Pit hoist capacity (N)					
		Internal dimension a x b	External dimension a x b	Type	Doorway width			X x Y	S x T	R1	R2	R5	R3	R4	R6	R7
450 (6)	60	1400x850	1460X1030	2P-CO	800	2200X1500	2200X1500	32000	18000	19900	53000	47500	53000	3000		
550 (7)	60															
	90	1400X1030	1460X1210	2P-CO	800	2200X1680	2200X1680	33000	21000	21000	60000	53000	53000	3000		
	105							33000	23000	25900	71000	60000	53000	5000		
630 (8)	60															
	90	1400X1100	1460X1280	2P-CO	800	2200X1700	2200X1700	45700	28400	3000	76000	64000	24000	3000		
	105							48800	30200	3000	82000	69000	29000	5000		
800 (10)	60															
	90							52100	32600	3000	89000	85400	34000	3000		
	105	1400X1350	1460X1530	2P-CO	800	2200X1800	2200X1800	56000	34900	3000	96000	72000	30000	5000		
	120															
1050 (14)	60															
	90															
	105	1600X1500	1660X1680	2P-CO	900	2450X1950	2450X1950	60600	36400	3000	200000	180000	76000	3000		
	120							64700	3800	3000	103000	82000	34000	5000		
1150 (15)	60															
	90															
	105	1800X1500	1860X1680	2P-CO	1000	2760X2150	2700X2150	125000	85000	—	210000	180000	75000	13000		
	120							130000	87000	—	220000	190000	80000	16000		
1350 (18)	60															
	90							128000	85000	—	200000	170000	65000	11000		
	105	2000X1500	2060X1680	2P-CO	1100	2950X2350	2950X2350	136000	90000	—	230000	200000	75000	15000		
	120							140000	95000	—	240000	210000	90000	16000		
1600 (21)	60															
	90							130000	90000	—	210000	180000	70000	11000		
	105	2000X1750	2060X1930	2P-CO	1100	2950X2400	2950X2400	140000	95000	—	240000	210000	80000	15000		
	120							145000	100000	—	250000	220000	95000	16000		

stops	1m/s (60m/min)	1.5m/s (90m/min)	1.75m/s (105m/min)	2m/s (120m/min)	2.5m/s (150m/min)
Max. rising height (m)	16	32	32	48	48
Max. rising height (m) when selecting the function of professional firefighters	60	100	100	140	140
Min. floor height (mm)	58	86	99.5	116	140
Min. floor height (mm)	2800	2800	2800	2800	2800

Notes: 1. The company can provide customized design according to the special hoistways of users. For detailed information, please contact our marketing or technical staff. The elevator model is TKJ.
2. If the elevator car opens on both sides, the capacity of its car is different from the specifications listed in the table above.

Side counterpoise



Notes:
1) The items marked with "*" in the drawing are provided by the customers;
2) For technical details of preformed holes for the hoistway, hall (floor) door and machine room, please contact Tonglu Elevator Co., Ltd.;
3) Unit used in the drawing: mm.

Specification	Net height of machine room (mm)
450-1050kg 60-105m/min	2200
1150kg 60-105m/min	2500
800-1050kg 120-150m/min	2500
1350-1600kg 60-150m/min	2500

Rated capacity (kg)	Rated speed (m/min)	Capacity of hook in machine room
450-1050	60/90/105	3tons
1150-1600	60/90/105	4tons
800-1050	120/150	4tons

Rated capacity (kg)	Rated speed (m/min)	Height of overhead floor (OH) (mm)	Depth of pin (P) (mm)
450	60	4400	1500
	90	4500	1600
	105	4600	1700
1600	120	4600	1700
	150	4700	1800

Note: The above-mentioned data only applies to elevator car of height under 2500mm.

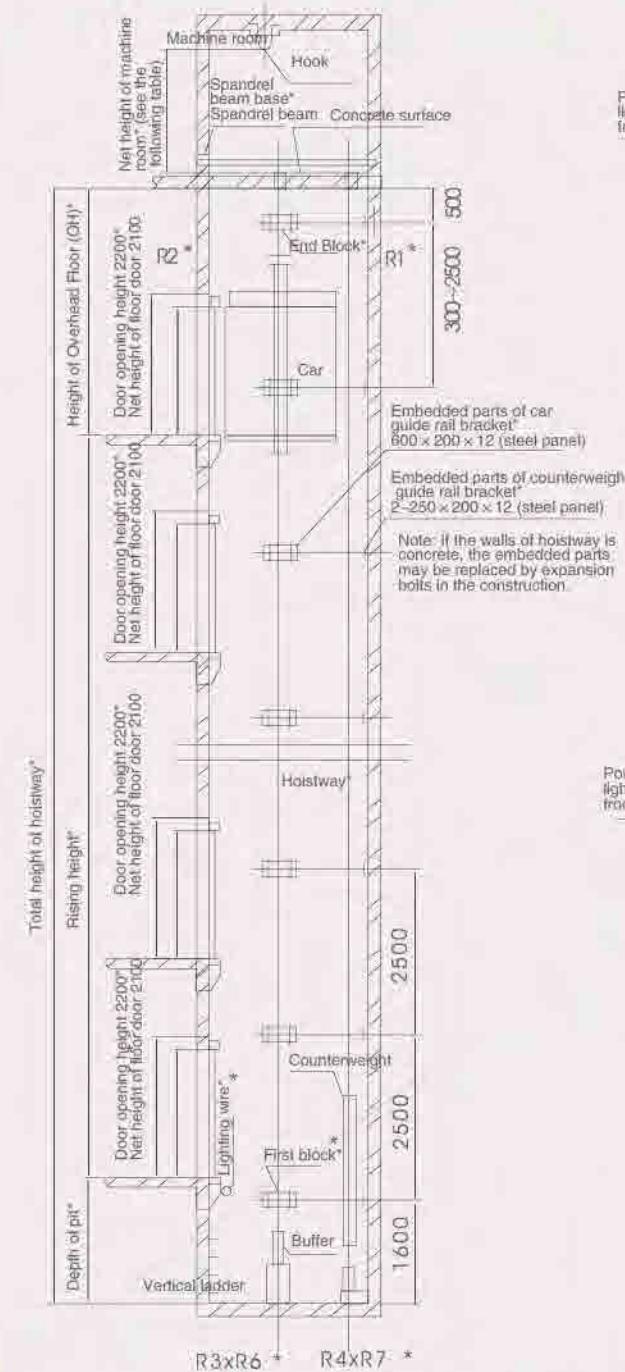
Technical parameters

Loading (Passenger number)	Speed (mm/s)	Cardimension (mm)		Doorway-dimension (mm)		Footway dimension (mm)	Machine room dimension (mm)	Machine room (bearing capacity (N))			Pibearing capacity (N)			
		Internal dimension a×b	External dimension a×b	Type	Doorway width	X×Y	S×T	R1	R2	R5	R3	R4	R6	R7
450 (6)	60	1400×850	1460×1030	2P-CO	800	1900×1600	1900×1600	32000	185000	19900	53000	47500	33000	3000
550 (7)	60	1400×1030	1460×1210	2P-CO	800	1900×1750	1900×1750	33000	21000	21000	60000	53000	38000	3000
	90							33000	23000	25900	71000	60000	53000	5000
	105													
630 (8)	60	1400×1100	1460×1280	2P-CO	800	1900×1830	1900×1830	35000	22400	2000	90100	77500	27400	3000
	90							36800	23500	2500	95600	83000	31900	5000
	105													
800 (10)	60	1400×1350	1460×1530	2P-CO	800	1900×2050	1900×2050	39800	23700	2000	101900	85400	34000	3000
	90							42200	25000	2500	109000	92600	41000	5000
	105							110000	80000	—	200000	180000	70000	12000
	120													
1050 (14)	60	1600×1500	1660×1680	2P-CO	900	2100×2200	2100×2200	43600	27600	2000	116300	95300	37500	3000
	90							46000	29000	2500	123400	102400	44700	5000
	105							115000	85000	—	210000	180000	75000	12000
	120													
1150 (15)	60	1800×1500	1860×1680	2P-CO	1000	2300×2250	2300×2250	110000	85000	—	200000	170000	60000	11000
	90							120000	90000	—	210000	180000	70000	13000
	105							125000	90000	—	220000	190000	80000	16000
	120													
1350 (18)	60	2000×1500	2060×1680	2P-CO	1100	2530×2250	2550×2250	115000	90000	—	200000	170000	65000	11000
	90							130000	95000	—	230000	200000	75000	15000
	105							135000	100000	—	240000	210000	90000	16000
	120													
1600 (21)	60	2000×1750	2060×1930	2P-CO	1100	2550×2500	2550×2500	125000	95000	—	210000	180000	70000	11000
	90							135000	100000	—	240000	210000	80000	15000
	105							145000	100000	—	260000	220000	95000	16000
	120													

stops	1m/s (60m/min)	1.5m/s (90m/min)	1.75m/s (105m/min)	2m/s (120m/min)	2.5m/s (150m/min)
Max. rising height (m)	16	32	32	48	48
Max. rising height (m) when selecting the function of professional firefighters	60	100	100	140	140
Min. floor height (mm)	58	66	99.5	115	140
Min. floor height (mm)	2800	2800	2800	2800	2800

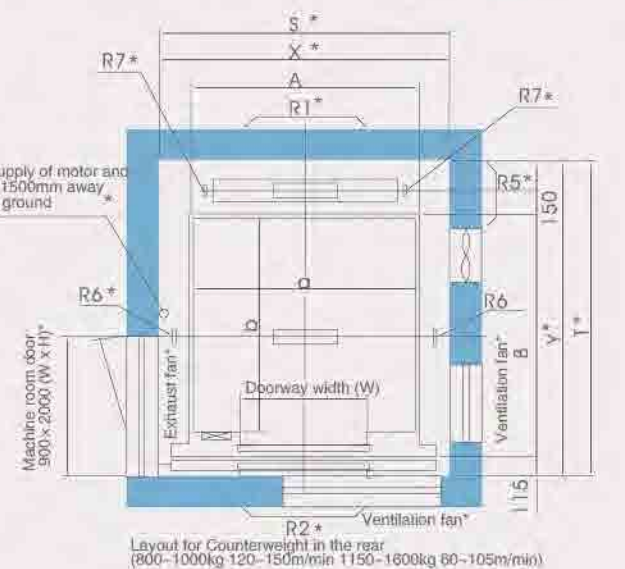
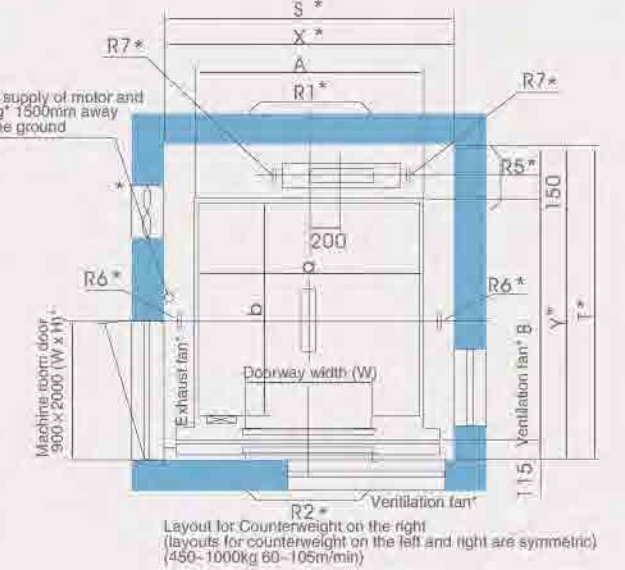
Notes: 1. The company can provide customized design according to the special hoistways of users. For detailed information, please contact our marketing or technical staff. The elevator model is TKJ.
2. If the elevator car opens on both sides, the capacity of its car is different from the specifications listed in the table above.

Back counterpoise



Specification	Net height of machine room (mm)
450-1050kg 60-105m/min	2200
1150kg 60-105m/min	2500
800-1050kg 120-150m/min	2500
1350-1600kg 60-150m/min	2500

Rated capacity (kg)	Rated speed (m/min)	Capacity of hook in machine room
450-1050	80/90/105	3吨
1150-1800	60/90/105	4吨
800-1050	120/150	4吨



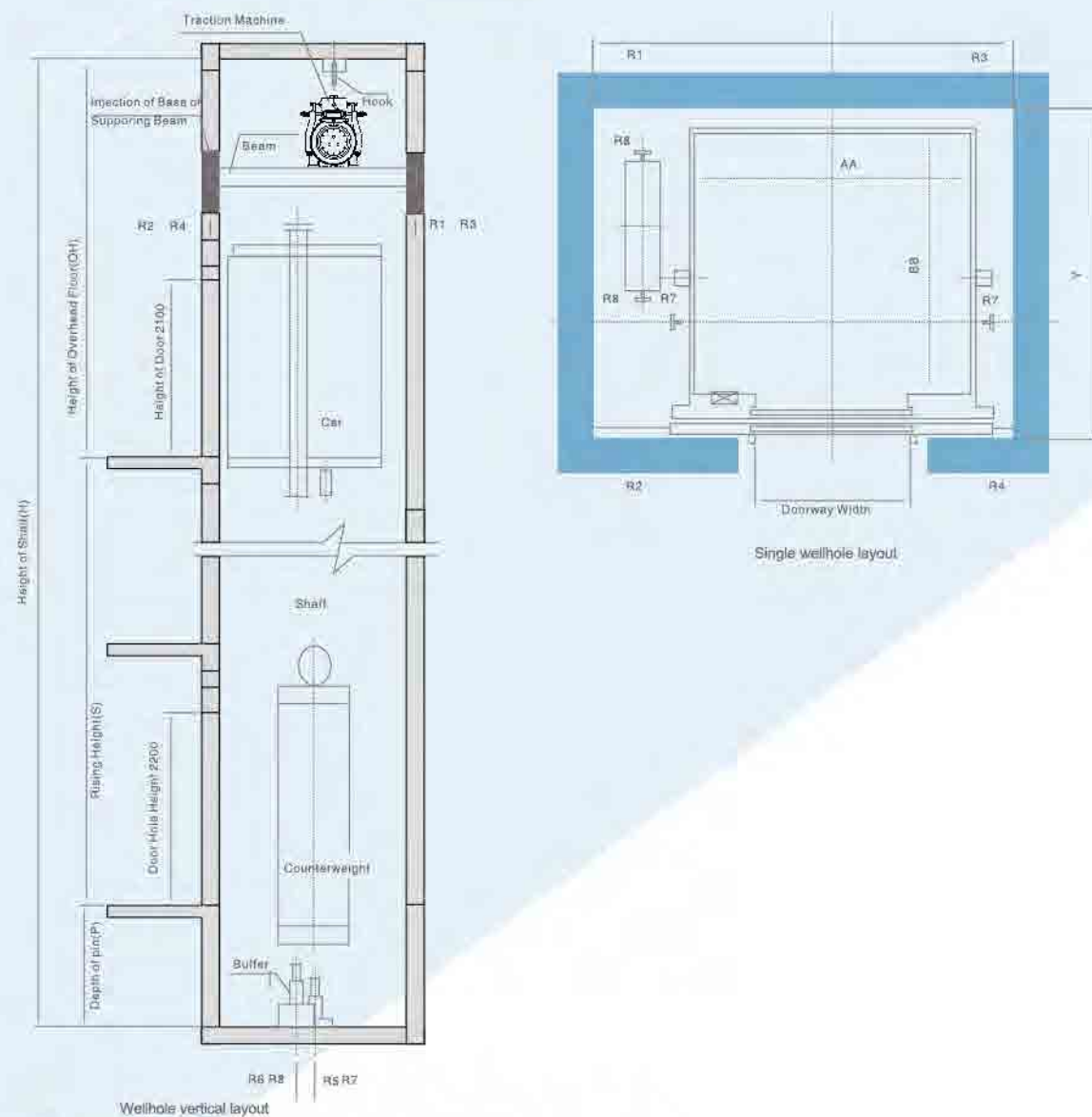
Notes:
1) The items marked with *** in the drawing are provided by the customers;
2) For technical details of preformed holes for the holstway, hall, floor) door and machine room, please contact Tongtu Elevator Co., Ltd.;
3) Unit used in the drawing: mm

Rated capacity (kg)	Rated speed (m/min)	Height of overhead floor (OH) (mm)	Depth of pin (P) (mm)
450	60	4400	1500
	90	4500	1600
	105	4600	1700
	120	4600	1700
1600	150	4700	1800

Note: The above-mentioned data only applies to elevator car of height under 2500mm.

Note: The above-mentioned data only applies to elevator car of height under 2500mm.

Side counterpoise



Singles wellhole layout Technical parameters

Model	Load (kg/person)	Speed (m/min)	Car dimension (mm) AA*BB	Doorway width (mm)	Hoist way (mm) X*Y	Machine Room Bearing Capacity				Pit Bearing Capacity			
						R1	R2	R3	R4	R5	R6	R7	R8
TKU-630-CO60	630/8	60	1400*1100	800	2300*1850	25000	18500	15000	10000	43000	57000	22000	5000
TKU-630-CO90		90											
TKU-800-CO60	800/10	60	1400*1350	800	2300*2000	28000	23000	17000	12000	55000	73000	28000	5000
TKU-800-CO90		90											
TKU-1050-CO60	1050/14	60	1600*1500	900	2500*2100	35000	29000	19000	14500	70000	92000	34000	5000
TKU-1050-CO90		90											

Load (kg)	Speed (m/min)	Height of Overhead Floor (OH)(mm)	Depth of pit (P) (mm)	Max. Rising Height (m)	Max. Number of Floor Stops
630-1050	60	4500	1600	40	14
	90	4500	1800	60	20

Technical parameters

No.	Load speed (person) Kg-m/min	Power supply Voltage	Power circuit breaker in machine room (rated current (A))		Capacity of power transformer (kVA)		Specifications of main power cable (mm)		Specifications of ground wire (mm)		Machine room (one)		
			One	TWO	One	TWO	One	TWO	One	TWO	Heat J. * 106/h	Ventilation rate m3/h	See of fan (mm)
1	450(6)-60	380V 50Hz	20	30	5	10	6	8	6	8	2.83	330	200
	550(7)-60		20	30	6.3	10	6	8	6	10	3.46	400	200
2	550(7)-90		30	40	8	12.5	8	16	8	16	5.19	590	250
	550(7)-105		30	50	10	16	8	16	8	16	6.05	690	250
3	630(8)-60		20	20	5	10	6	8	9	8	4	459.9	200
	630(8)-90		30	40	8	12.5	8	16	8	16	5.9	684.9	250
	630(8)-105		30	40	8	16	8	16	8	16	6.9	797.4	250
4	800(10)-60		20	40	6.3	12.5	8	10	8	10	5.2	599.2	250
	800(10)-90		30	50	10	16	8	16	8	16	1.8	893.8	250
	800(10)-105		40	50	10	20	10	25	10	16	9.1	1041.8	300
	800(10)-120		40	50	12.5	25	16	25	16	16	10.37	1188.47	300
	800(10)-150		50	60	16	31.5	25	30	16	16	12.96	1483.11	300
5	1050(14)-60		30	40	8	12.5	8	16	8	16	6.6	759.9	250
	1050(14)-90		40	60	13	20	10	25	10	16	9.9	1134.9	300
	1050(14)-105		40	60	13	25	16	25	16	16	11.5	1322.4	300
	1050(14)-120		50	60	16	31.5	25	30	16	16	13.2	1509.9	300
	1050(14)-150		60	75	20	40	25	35	16	16	16.5	1884.9	350
6	1150(15)-60		40	40	10	16	10	25	10	16	7.23	831.33	250
	1150(15)-90		40	50	16	25	16	25	16	16	10.84	1242.04	300
	1150(15)-105		50	60	16	25	25	30	16	16	12.65	1447.4	300
	1150(15)-120		50	75	20	31.5	25	30	16	16	14.45	1652.76	300
	1150(15)-150		60	100	25	40	25	35	16	16	18.07	2063.47	350
7	1350(21)-60		40	40	12.5	20	10	25	10	16	8.49	974.19	300
	1350(21)-90		50	60	16	25	25	30	16	16	12.73	1456.33	300
	1350(21)-105		50	75	20	31.5	25	30	16	16	14.85	1697.4	300
	1350(21)-120		60	75	20	40	25	35	16	16	16.97	1938.47	350
	1350(18)-150		75	100	25	40	30	50	16	25	21.2	2420.6	350
8	1600(21)-16		40	50	12.5	25	16	25	16	16	10.1	1152.8	300
	1600(21)-90		50	75	20	31.5	25	35	16	16	15.1	1724.4	300
	1600(21)-105		60	100	20	40	25	35	16	16	17.6	2009.9	350
	1600(21)-120		75	100	25	40	30	50	16	25	20.1	2295.6	350
	1600(21)-150		100	125	31.5	50	30	60	16	30	25.13	2867.04	400

Notes: 1) The main power specifications in the table above apply for power cable of length less than 150m. If the length exceeds 150m, it shall be calculated according to the following equation: Specification of main power cable (mm²) = actual length of cable/150 × data in the table above.

2) The calculation of the ventilation rate is based on the case that the ambient temperature does not exceed 40 °C; otherwise, cooling devices should be used.