



## SL6000 Series Passenger Lift

阿拉伯阿布扎比 AE 1300-ART  
STONE GEN CONTRACTING



新加坡政府HDB工程



北京铁路局北京动车段



2010年上海世博高架步道扶梯



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四川马尔康县列寺



郑州世贸商城



2008年奥运现代五项综合馆



宁波微软



2008年奥运现代五项综合馆



招商宏基集团



2010上海世博会荷兰馆



# SL6000 Series Passenger Lift

First in the market, keeping pace with global advancement.

A brand new elevator design made from the amalgamation of Europe's best elevator design.

With **XJ Schindler** premium control technique, your ride experience is simply delightful.

## Professional & Premium

Our newly developed SCH5600 control mainframe renders higher reliability and stability with its safety framework and powerful data computation.



Streamlined design and well integrated functions which include main control, monitoring, intelligent management and black box



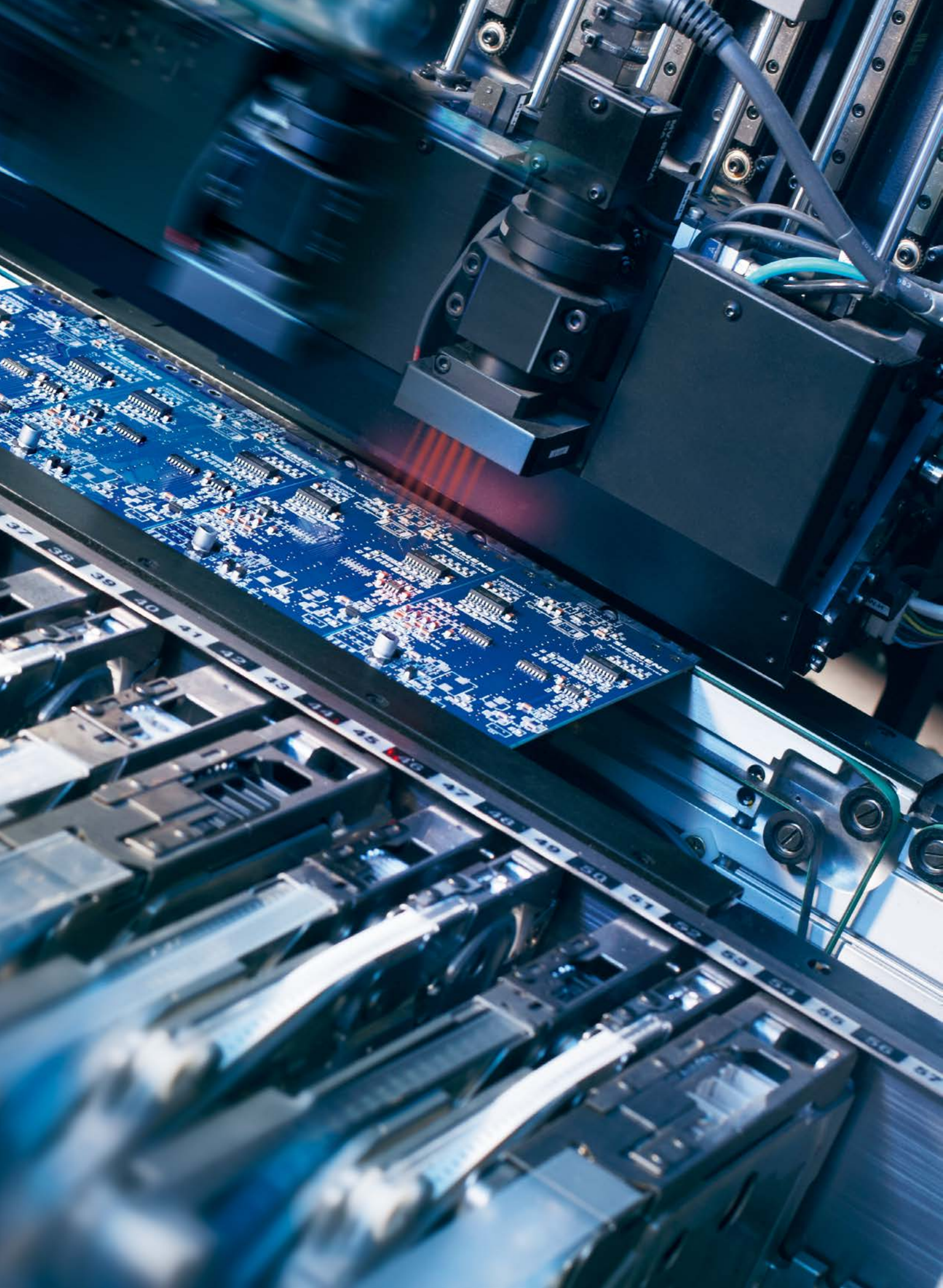
Military standard noise resistance with the latest isolation panel technology. Enhanced reliability with improved communication speed and capacity.



With absolute position and leveling control technology, the system is able to determine the lift location accurately, hence ensuring the safety of our passengers.



Breakdown minimization technology reduces the number of breakdown points automatically, which eventually reduce the episodes of malfunction.



According to data analysis, XJ Schindler elevators waste reduces 52% more energy in standby mode.




# Leading energy conservation technology reduces 52% power consumption by elevators in standby mode

**XJ Schindler** unique patentship  
Satisfies VDI 4707 A grade standard

**XJ Schindler**  
standby mode  
energy usage  
**47W**

≤



**XJ Schindler** Series Elevators can transit smoothly between hibernate mode when left unused for a prolonged period of time and normal mode when in use. This greatly reduces the power consumption of elevators to a mere 47W.

## Reference:

According to records: The effective operation of an elevator operating on a 24-hour basis is only 3-6 hours. When the elevator is on standby mode, the power wastage is approximately 300W. Cumulatively, the overall power wasted per year is approximately 2100kWh. This implies that supposedly, \$1200 can be saved from the power wastage when elevator is in standby mode. The total amount of energy wasted by the world is almost equal to the total energy produced by QinShan Nuclear Station for 10 years.

# SL6000 5 Unique Protection Techniques

## Door Zone Protection

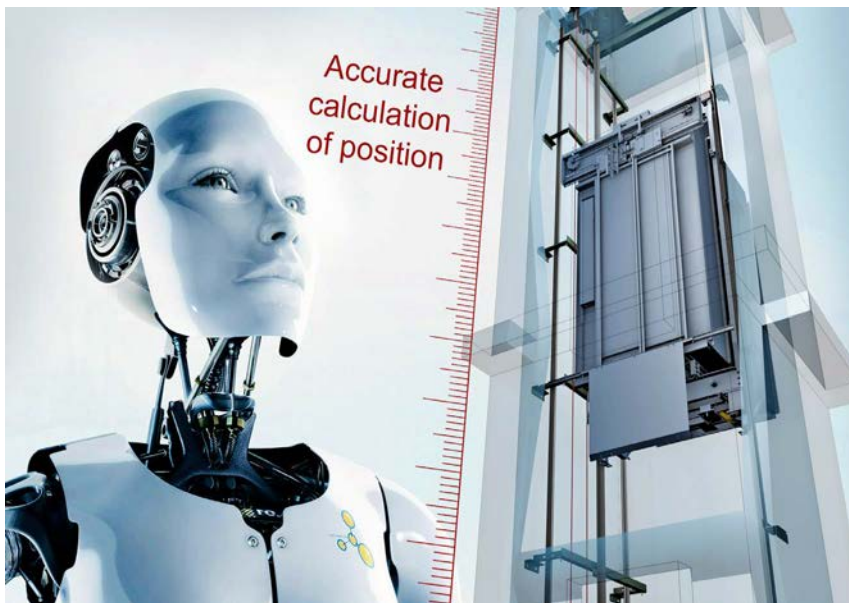
No more lift slide incident

### Lift Slide Protection Patent

Patent No.: ZL 200910112744.1

### Eliminates Lift Slide Incidents

When the lift doors are opened, lift slide incidents can occur due to a spectrum of reasons. Before lift slide incidents can even actualise, our door protection system will be able to detect any abnormal movements by the elevator. When the elevator slide by 5cm, the protection system will be activated and the elevator will brake and stop within 20cm from the landing level. This prevents major lift slide incidents from occurring.



## Absolute Position and Leveling Control

We have resolved the problem of passengers being sent to the wrong level.

Our system will track the status of the elevator by accurately calculating the elevator position and operational data to safeguard the safety of our passengers. In this aspect, we are proud to be in line with the chinese and european passenger lift standards.





## Non-door Zone Protection

Prevents passengers from falling into the hoistway while climbing out of the elevator during emergency

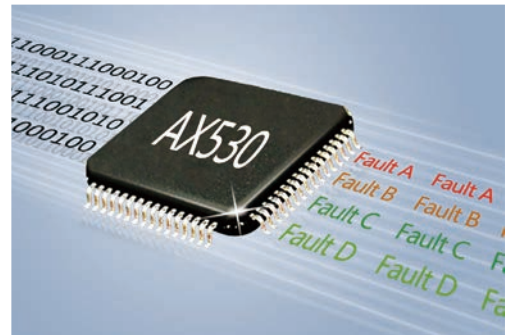
Patent No.: ZL201020290935.5

When the elevator is at the non-door zone, the doors of the elevator will be locked to keep our passengers safe.

## AX530 Professional Analysis

85% reduction in mantrap incident

Real time analysis of elevator operational data which automatically classify the nature of each breakdown into safe and unsafe malfunctions.



## Energy-Saving Technology

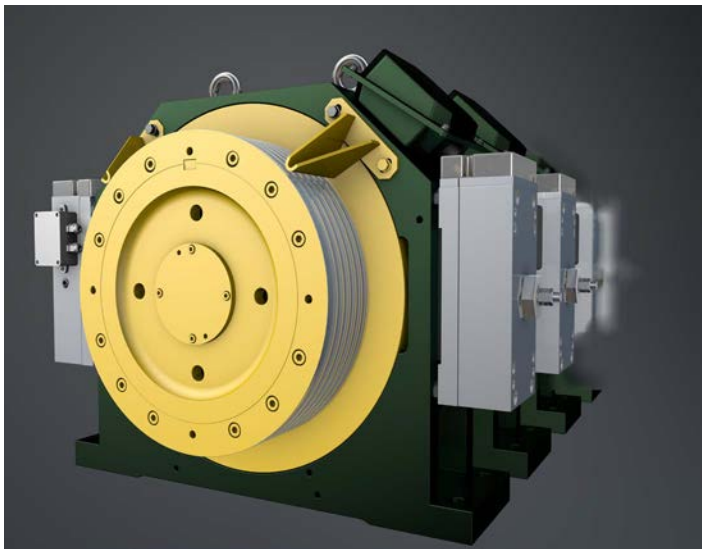
When the elevator is in stand-by mode, other than the mild-illuminating hall call buttons, all other elevator parts utilize minimum energy. Hence, the total energy used when the elevator is in standby mode is less than 50VA.

## Variable Voltage Variable Frequency (VVVF) Lift Drive

Variable Voltage Variable Frequency (VVVF) Lift Drive employs frequency inverter technology which regulates input voltage and frequency throughout the journey, drawing much less current during acceleration and deceleration.

VVVF drive offers low starting current (approximately 1.8x of the rated current), high power factor (i.e. better efficiency in power supply) with good ride quality and floor leveling. It can reduce motor starting currents by as much as 50 to 80%

compared with conventional motor drives. Further, wear and tear of the equipment can also be less during start/stop of the motor by using VVVF motor drive. BCA Green Mark compliance.



## **XJ Schindler** High-Power Sixth Generation Traction machine

- High-performance braking system
- Efficient and excellent torque
- Stable and low-noise
- 100% Full dynamic testing at the factory
- Awarded with 2 patent technologies

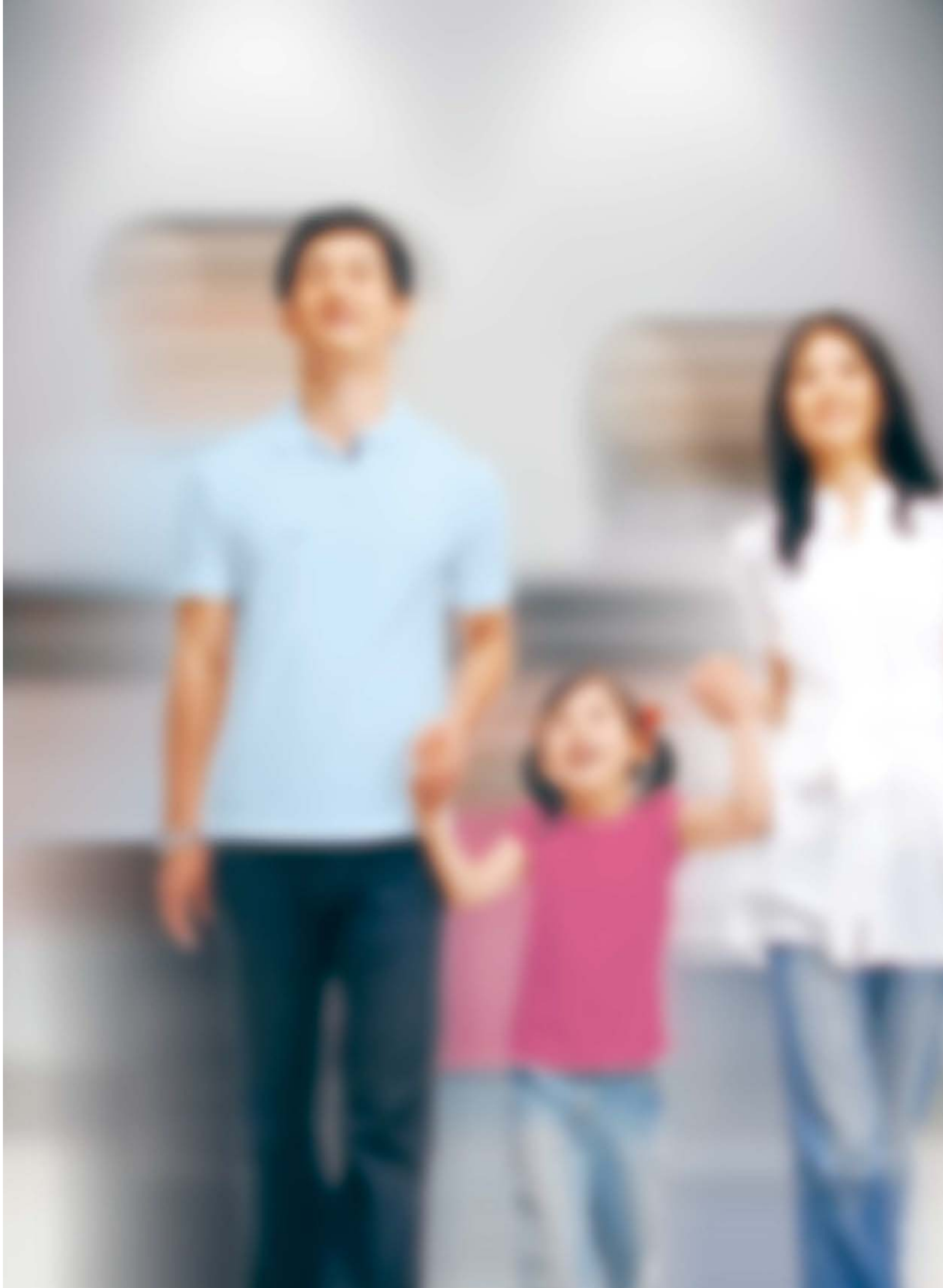
## Stable and Reliable **XJ Schindler** Control System

- In our military grade dual 32-bit CPU chip, each individual chip has independent operator to manage the data and information.
- With the CPU chips operating independently from one another, it completely isolates the input and output information, hence effectively reduces interruption.
- 4 way Canbus main control, up to 9 external midrange, suitable for control of complex industries.
- Recognition from International Safety committee
- Modular industrial design with flexible configuration to suit different environments.
- Excellent heat dissipation design
- Qualified IEC255, EN12015, EN12016, IEC61000, CISPR11 Standards

## Accurate and reliable synchronous direct drive door system

- Permanent Magnet Traction machine is advance and reliable.
- Simultaneous closure of landing door and car door and full control of door opening/closing
- High efficiency and speed: Door opening/closing duration 2.04s
- Low noise: Door noise of 38dB
- Recognised by World Elevator Quality Supervision and Inspection WTNET13-004



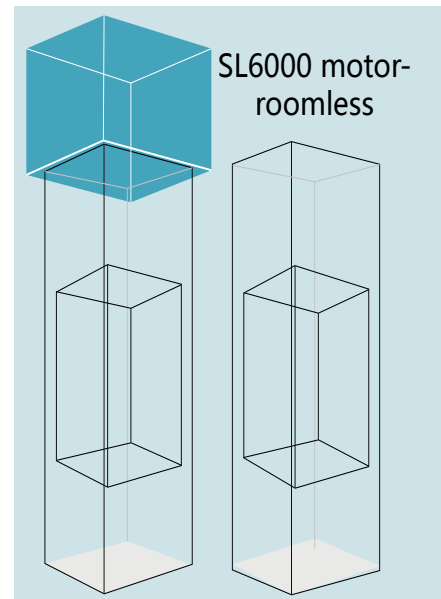




# Motor-roomless Technology, Pioneer of the Industry

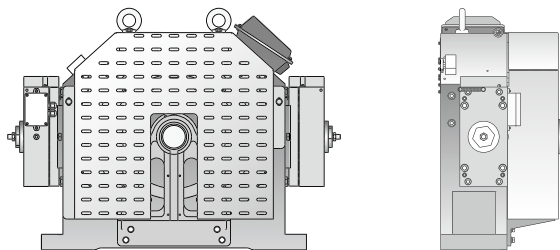
## Latest motor-roomless technology

Our motor roomless hoistway is a patented design. With the ultra slim traction machine positioned at the side of the hoistway and decentralized control positioned separately at the top and inside of the hoistway, it provides greater convenience and freedom during the installation of the lift. Furthermore, this motor roomless design can reduce the cost required to build approximately 1 storey and is aptly designed to suit different building structures.



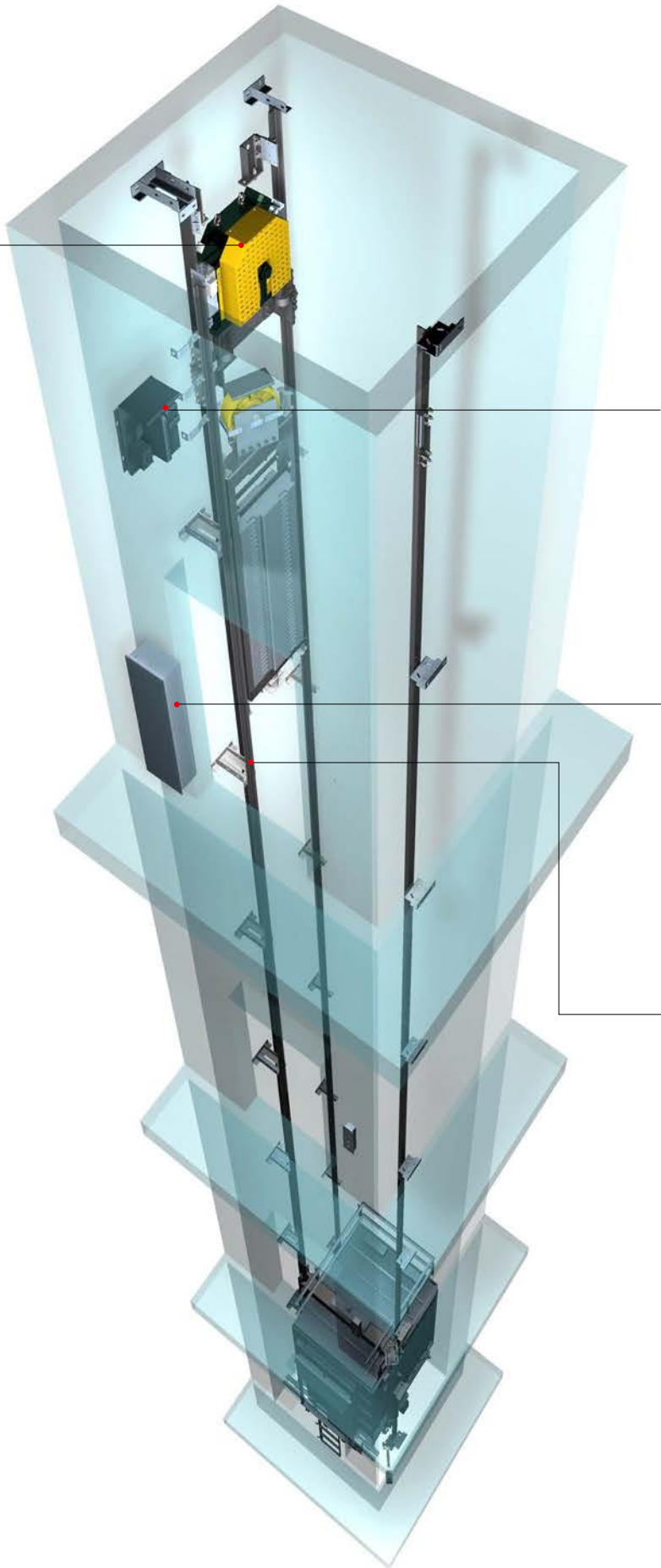
## Ultra-smooth hoistway system

In our ultra-smooth hoistway system, we used a high performance guide boot, wear-resistant boot lining and automated oil absorption box. This combination of high quality gadgets ensures smooth operation of the elevator and is, at the same time, friendly to the environment with no oil-stain.



## Ultra-slim traction machine

Specially designed to complement with motor roomless technology, the ultra-slim traction machine has a thickness of 170mm, allowing it to be fitted into the hoistway snugly. On top of being ultra-slim, our traction machine also has a rotary encoder that is positioned at the front for the convenience of motor-roomless debugging operation.



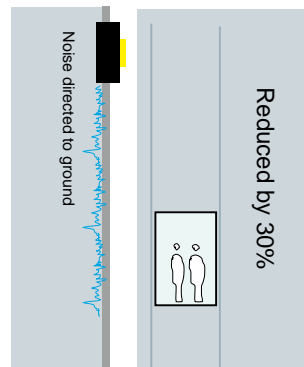
## Decentralized control cabinet

Our decentralized control cabinet has a master control cabinet located at the length of the hoistway and an auxiliary control cabinet at the top, freeing up more space in the hoistway.

Having met the International IEC standards, our voltage resistor, cable, components, 300°C heat-resistor and 0.75mm<sup>2</sup> cross sectional area of wire, our elevators are affirmed to be more reliable.

## Noise/Vibration isolation

By incorporating our unique isolation technique together with the special positioning of traction machine, we have successfully scaled down the noise level caused by the operation of elevator by 30%.



# Passenger Lift That Enables Rescue Operation

Install this model of elevator for the safety of all passengers.





Sharing the social responsibility of keeping every individual around us safe, we have developed this new model of elevator which has a bigger cabin to accommodate large medical equipment such as stretcher.

This elevator has a special interior design that enables the accommodation of stretcher and sickbed which is especially suitable for more than 120 types of rescues. As this elevator is uniquely tailored for rescue operation, we have ensured that the control system is highly reliable which will bypass all hall calls in times of emergency. This elevator can be installed in residential estates, schools, commercial buildings, hotels, shopping malls and other buildings.

## Reliable Supplier to Tianjing For 5 Years

This unique elevator design has received much compliments since the implementation of Tianjing Residential Elevator Design Standard on 1 May 2007. We have since become the supplier of this elevator to Tianjing for 5 years.

## Latest Residential Elevator Design Standard

According to the GB50096-2011 residential design guidelines jointly metted out by the Ministry of Housing and Urban-Rural Development, State General Administration of the People's Republic of China for Quality Supervision and Inspection and Quarantine(AQSIQ) and Republic of China, it was stated that there should not be less than 2 elevators in a residential building that exceeds 11 floors. On top of that, one of the elevators must be able to accommodate a medical stretcher.

## Able to Accomodate Stretcher

This model of elevator has a bigger cabin with a depth of 2100mm, it will be able to accommodate medical stretcher, wheelchair and any other medical equipment to cater to any special needs.

## Rescue System\*

When the rescue system is being activated, the elevator will be sent to the desired floor at accelerated speed. The elevator will not respond to any hall calls under such condition to reach the desired floor as soon as possible.

## Door Opening/Closing Delay

Door opening/closing delay is specially designed for this model of elevator so that the doors of the elevator can remain opened for a longer period of time during the transfer of passengers on medical equipment.

## Power Failure Rescue System\*

In times of power failure, this rescue system will send the elevator to the nearest landing floor to let the passengers out.

## Compact Hoistway Design

Customers can choose between motor-roomless design or small motor-room design for this model of elevator. Our compact motor-room will effectively reduce the amount of space required in the hoistway making installation of elevator more convenient. This elevator differs from the conventional medical elevator in terms of the dimensions where medical elevator is much bigger in size and consumes more energy. Hence, this elevator is more energy efficient and reduces its operation cost.

\*Note: Rescue system and power failure rescue system are optional



## XS01

The emphasis on this design is the brilliant combination of the lighting and static spray finish which brings out a warm and elegant setting.

### Specification

Car Walls	Powder coat
Flooring	Heavy duty vinyl tiles
Car door	Powder coat
Front wall	Powder coat
Car top	X70C
Swing COP	
Display	LED
Cabin height	2350mm

Actual product may vary from picture



## XS02

Harmonizing hairline and non-directional hairline stainless steel with exquisitely made rugged surface, this design exhibits a luxurious setting.

### Specification

Car Walls	S/S hairline
Flooring	Heavy duty vinyl tiles
Car door	S/S hairline
Front wall	S/S hairline
Car top	X76C
Swing COP	
Display	LED
Cabin height	2350mm

Actual product may vary from picture

## XS03

This simple design aims to complement future refurbishment to keep pace with this ever-changing society.

### Specification

Car Walls	Powder coat
Flooring	Heavy duty vinyl tiles
Car door	S/S hairline
Front wall	S/S hairline
Car top	X72C
Swing COP	
Display	LED
Cabin height	2350mm

Actual product may vary from picture



## XS04

Cladded in non-directional hairline finish, this elevator model extends high level of comfort due to its spaciousness.

### Specification

Car Walls	S/S non-directional hairline and etching
Flooring	Heavy duty vinyl tiles
Car door	S/S non-directional hairline
Front wall	S/S non-directional hairline
Car top	X71C

Swing COP

Display LED

Cabin height 2350mm

Actual product may vary from picture

## XS05

Specially tailored for residential use with a centralised LED achieving a majestic atmosphere.

### Specification

Car Walls	S/S hairline
Flooring	Heavy duty vinyl tiles
Car door	S/S hairline
Front wall	S/S hairline
Car Top	X75C

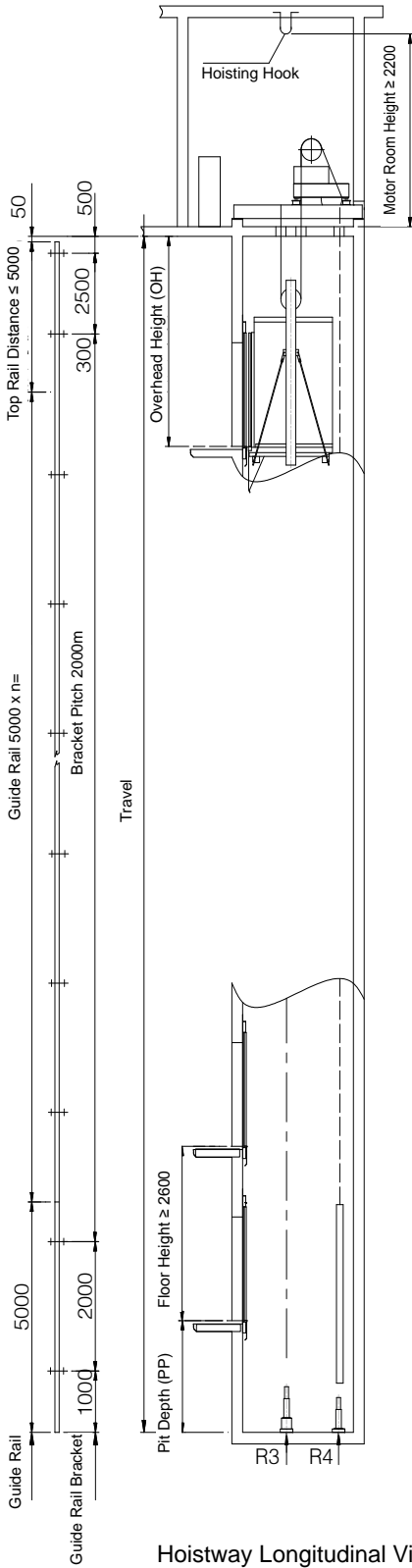
Swing COP

Display LED

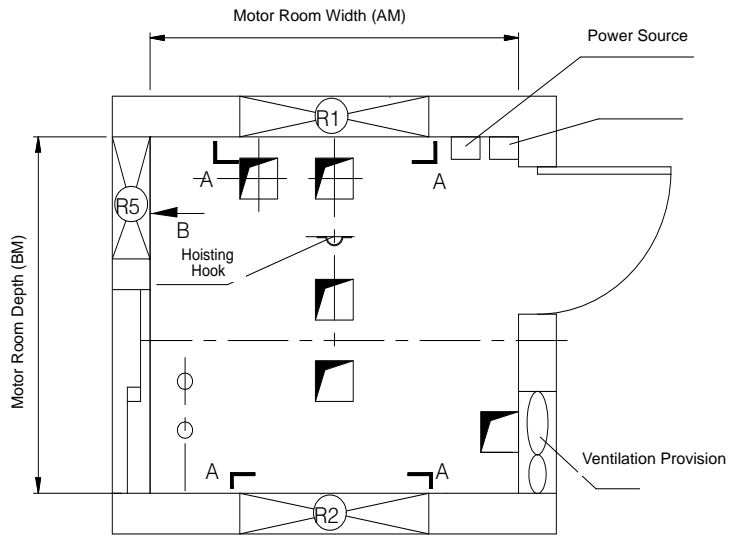
Cabin height 2350mm

Actual product may vary from picture

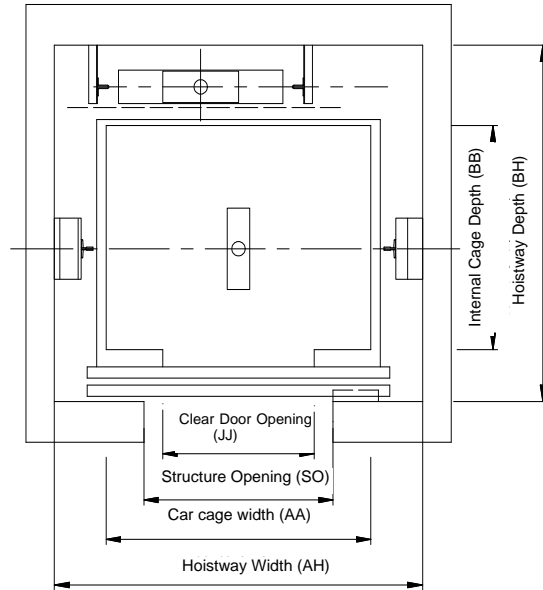
# SL6000 Hoistway With Motor Room Plan



Hoistway Longitudinal View



Motor Room Transverse View



Hoistway Transverse View



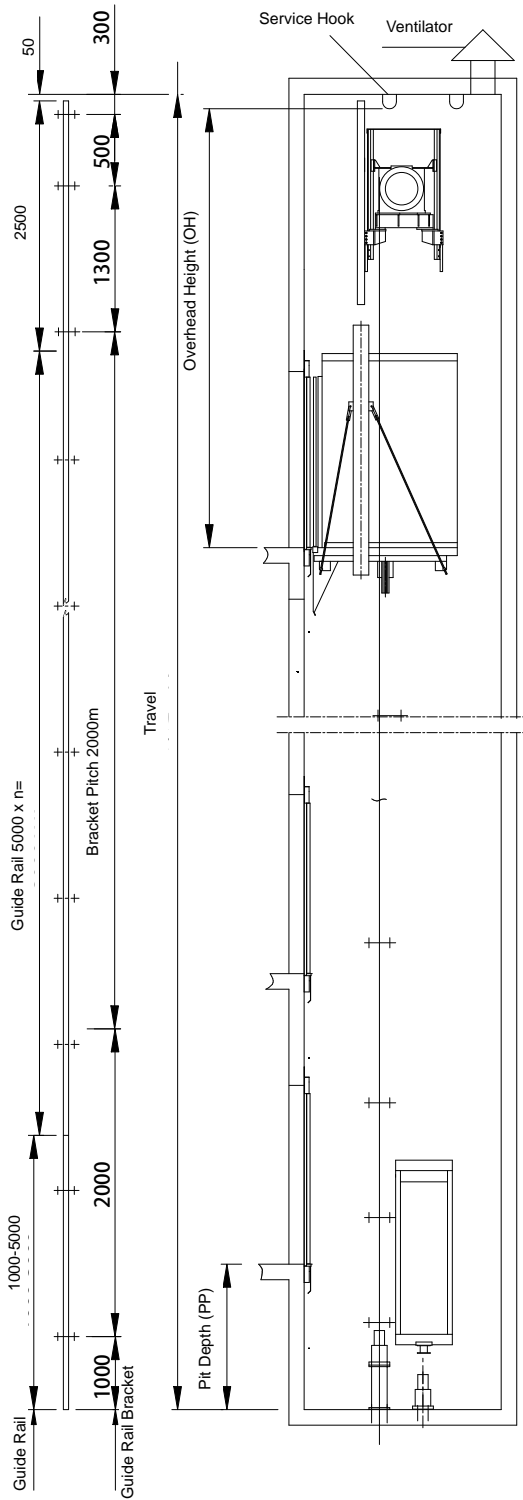
## SL6000 Small Motor Room Passenger Lift Specification

Model	Speed m/s	Load Limit/ Kg	Door opening (JJ)	Door hole (SO)	Car cage dimension AAxBB	Hoistway dimension AHxBH	Motor room dimension	Pit Depth (PP)	Overhead Height (OH)	MR Height (MH)
9000-KT-06-10	1.0	630	800	950	1400x1100	1950x1750	1950x1750	1500	4400	2200
9000-KT-06-15	1.5							1600	4500	2200
9000-KT-06-17	1.75							1700	4800	2200
9000-KT-08-10	1.0	800	800	950	1400x1350	1950x2000	1950x2000	1500	4400	2200
9000-KT-08-15	1.5							1600	4500	2200
9000-KT-08-17	1.75							1700	4800	2200
9000-KT-08-20	2.0							1800	5000	2200
9000-KT-08-25	2.5							2000	5200	2200
9000-KT-10-10	1.0	1000	900	1050	1600x1500	2200x2200	2200x2200	1500	4400	2200
9000-KT-10-15	1.5							1600	4500	2200
9000-KT-10-17	1.75							1700	4800	2200
9000-KT-10-20	2.0							1800	5000	2200
9000-KT-10-25	2.5							2000	5200	2200
9000-KT-11-10	1.0	1150	1100	1250	2000x1350	2600x2050	2600x2050	1500	4400	2200
9000-KT-11-15	1.5							1600	4500	2200
9000-KT-11-17	1.75							1700	4800	2200
9000-KT-11-20	2.0							1800	5000	2200
9000-KT-11-25	2.5							2000	5200	2200
9000-KT-13-10	1.0	1350	1100	1250	2000x1500	2600x2200	2600x2200	1500	4400	2200
9000-KT-13-15	1.5							1600	4500	2200
9000-KT-13-17	1.75							1700	4800	2200
9000-KT-13-20	2.0							1800	5000	2200
9000-KT-13-25	2.5							2000	5200	2200
9000-KT-16-10	1.0	1600	1100	1250	2000x1750	2600x2500	2600x2500	1500	4400	2200
9000-KT-16-15	1.5							1600	4500	2200
9000-KT-16-17	1.75							1700	4800	2200
9000-KT-16-20	2.0							1800	5000	2200
9000-KT-16-25	2.5							2000	5200	2200

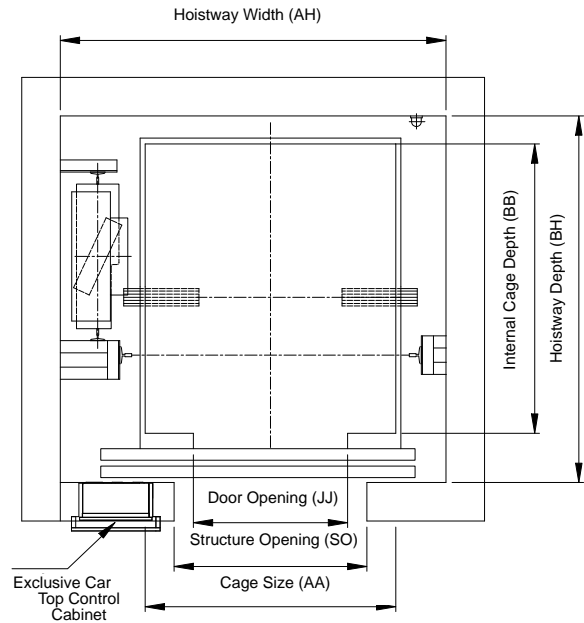
### Construction Requirements (To be completed by contractor)

Hoistway equipment	1	Hoistway should be made of concrete, reinforced masonry or steel.
	2	Holes on walls of every level (for installation of landing door, hall lanterns and hall calls). Customers to repair the walls and floors after elevator installation.
	3	Reservation of reinforced landing door fittings
	4	Concrete should be completely water-proof after water-proof and buffer treatment at the pit.
	5	To reserve access door if distance between adjacent landing doors exceeds 11m.
Motor-room	1	To reserve a waterproof platform and hole on motor-room floor.
	2	Hoisting hook that fulfils construction requiriements to be installed on motor-room ceiling.
	3	Responsible for supporting the traction machine room floor
	4	Responsible for cabling of illumination and power wires from power distribution room to motor room.
	5	monitoring room to room and 5-way intercom equipments
	6	To install lightings and single-phase AC220V10A 3-pin socket (Minimum brightness of motor-room should be more than 200Lx)
Environment And Power Requirements	1	Motor-room temperature to be kept within 5°C~40°C
	2	Humidity of motor-room: less than 85% at 25°C
	3	Ventilation provision
	4	Power source: 3-phase AC 380V 50Hz (3-phase 5 wire) ,voltage fluctuation should be within 70%.
	5	Light source: Single-phase 220V 50Hz (lighting power and driving power are separated)
	6	Altitude: 3000m (If the altitude is more than 3000m, we will propose another design after seeking approval from our company)
	7	Earth wire is grounded via 3-phase 5 wire system, to ensure that the neutral and earth wires are separated (Earth wire resistance should be less than 4Ω).

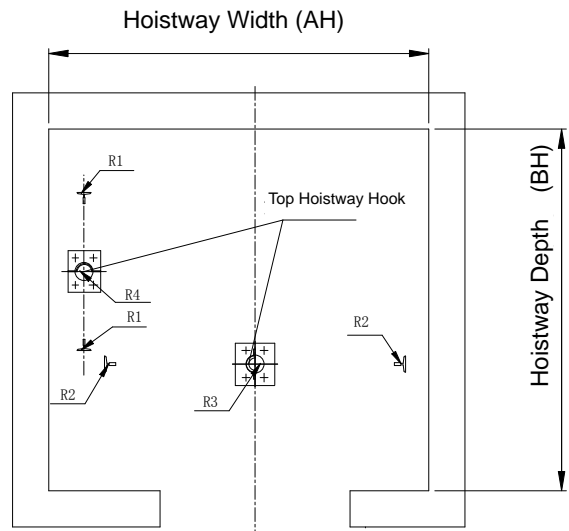
# SL6000 Motor-roomless Hoistway Plan



Hoistway Longitudinal View



Hoistway Setting Transverse View



Pit Transverse View

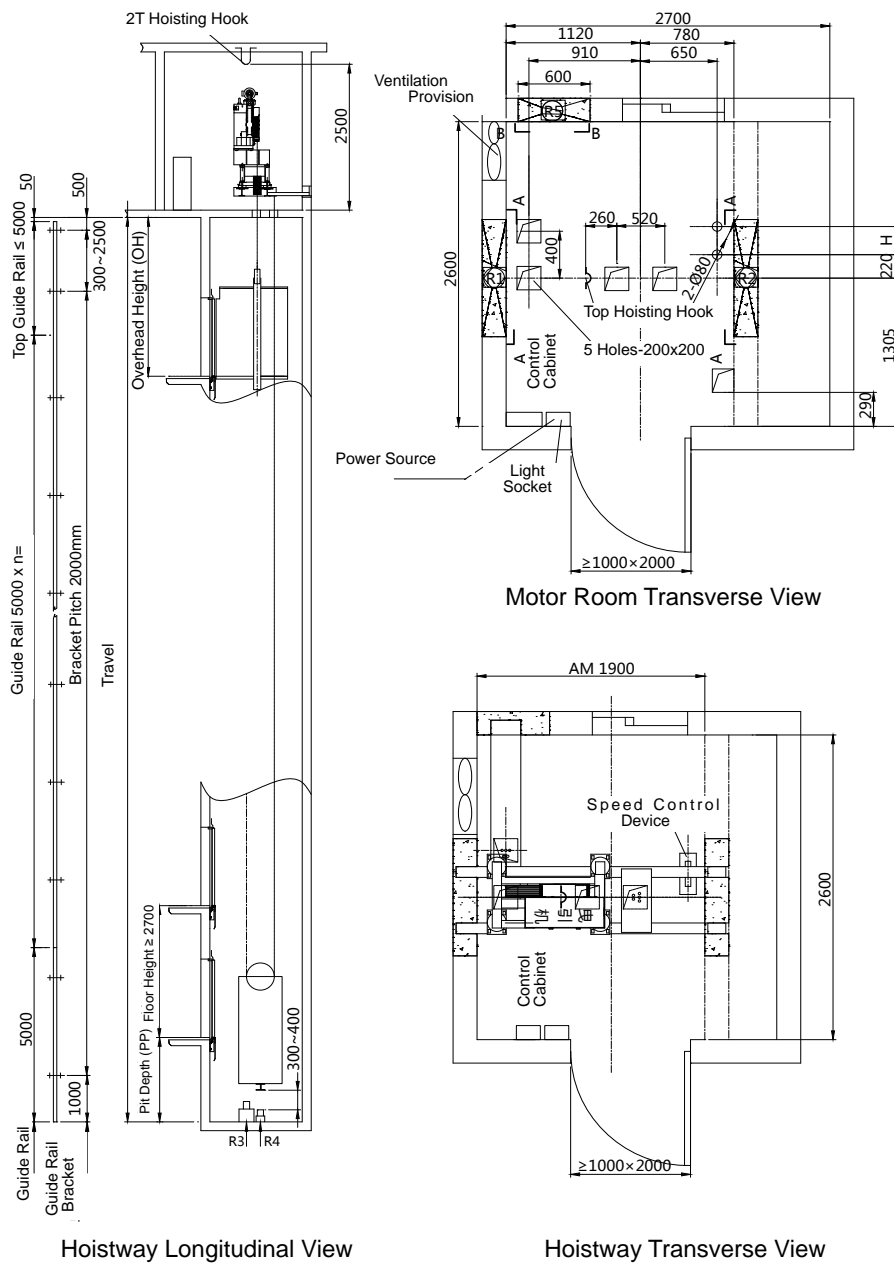
## SL6000 Motor Roomless Passenger Lift Specification

Model	Speed m/s	Load limit/kg	Door opening (JJ)	Door hole (SO)	Car cage dimension AAxBB	Hoistway dimension AHxBH	Pit Depth (PP)	Overhead Height (OH)
9000-WT-06-10	1.0	630	800	950	1200x1300	1900x1700	1600	4000
9000-WT-06-15	1.5						1800	4300
9000-WT-06-17	1.75						1800	4400
9000-WT-08-10	1.0	800	800	950	1300x1500	2000x1900	1600	4000
9000-WT-08-15	1.5						1800	4300
9000-WT-08-17	1.75						1800	4400
9000-WT-10-10	1.0	1000	900	1050	1400x1600	2100x2000	1600	4000
9000-WT-10-15	1.5						1800	4300
9000-WT-10-17	1.75						1800	4400
9000-WT-11-10	1.0	1150	1100	1250	1400x1800	2600x2300	1800	5000
9000-WT-11-15	1.5						1800	5200
9000-WT-11-17	1.75						1800	5400
9000-WT-13-10	1.0	1350	1100	1250	1400x2100	2600x2600	1800	5000
9000-WT-13-15	1.5						1800	5200
9000-WT-13-17	1.75						1800	5400
9000-WT-16-10	1.0	1600	1100	1250	1400x2400	2600x2900	1800	5000
9000-WT-16-15	1.5						1800	5200
9000-WT-16-17	1.75						1800	5400

## Construction Requirements (To be completed by contractor)

Hoistway Requirements	1	Hoist-way should be made of concrete, reinforced masonry or steel.
	2	Holes on walls of every level (for installation of landing door, hall lanterns and hall calls). Customers to repair the walls and floors after elevator installation.
	3	Reservation of reinforced landing door fittings
	4	Concrete should be completely waterproof after waterproof and buffer treatment at the pit.
	5	To reserve access door if distance between adjacent landing doors exceeds 11m.
Environmental And Energy Requirements	1	Enclosed hoist-way should have air vents (usually at hoist-way neck or pit). Size of air vents should not be smaller than 1% of hoist-way diameter.
	2	<ul style="list-style-type: none"> <li>a. Power supply should have protected switches that are locked.</li> <li>b. Voltage should not fluctuate to more than +/- 7%</li> <li>c. Earth wire grounding should be done using 3 phase 5 wire system</li> <li>d. Voltage resistance should be less than 4Ω.</li> <li>e. Live and neutral wires should be separated from earth wire.</li> <li>f. Power supply should be positioned at the top level</li> </ul>
	3	Customers to set up rescue duty office. Each elevator should be equipped with a 6-core cable which connects to the emergency operation panel at the top level. Each core should have a cross-sectional area of at least 0.75mm.
	4	Power Source: 3 Phase AC 380V 50Hz (3-phase 5 wire) voltage fluctuation range to be within 70%
	5	Light Source: Single Phase 220V 50Hz (lighting power and driving power are separated)
	6	Altitude: 3000m (If the altitude is more than 3000m, we will propose another design after seeking approval from our company)

# SL6000 Standard Rescue Ladder Plan



## SL6000 Rescue Ladder Specification

Model	Speed (m/s)	Load limit (Kg)	Door Opening (JJ)	Door Hole (SO)	Car cage dimension (AA×BB)	Hoistway dimension (AH×BH)	Motor-room dimension (AM×BM)	Pit depth (PP)	Overhead height (OH)	MR Height (MH)
9000-KT-08-10	1.0	800	800	950	1100×1800	1900×2300	1900×2300	1500	4400	2200
9000-KT-08-15	1.5							1600	4500	2200
9000-KT-08-17	1.75							1700	4800	2200
9000-KT-08-20	2.0							1800	5000	2200
9000-KT-08-25	2.5							2000	5200	2200
9000-KT-10-10	1.0	1000	900	1050	1100×2100	1900×2600	1900×2600	1500	4400	2200
9000-KT-10-15	1.5							1600	4500	2200
9000-KT-10-17	1.75							1700	4800	2200
9000-KT-10-20	2.0							1800	5000	2200
9000-KT-10-25	2.5							2000	5200	2200

# Car Operating Panel CZP-22



# Handicap Sub COP ZZP-22



# Car Operating Panel Display



Dot Matrix Display  
(Optional)  
High brightness  
and long life span



LCD Display  
(Standard)  
Clear text and large  
viewing angle



TFT True Colour  
Display (Optional)  
Vibrant colours with  
realistic effect



TFT Display System  
(Optional)  
Vivid display and able  
to project multimedia of  
different formats.



Multimedia audiovisual system  
(Optional)  
Vivid display, able to project  
customized videos with formats of  
rmvb, rm, avi, mpg, mp4 and etc.



Horizontal LCD  
Display (Optional)  
Clearer and brighter  
display



Horizontal dot  
matrix LED display  
(Optional)  
Vibrant display and  
long life span



Horizontal dot matrix  
display (Optional)  
Scrolling display of  
designated texts

## Hall Call

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HT-19FD (Standard)

Dot Matrix Display  
S/S Mirror Plate



HT-19FT2 (Optional)

LCD Display  
S/S Mirror Plate

Note: Base level as standard

## Handrail (Optional)

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FS-11WF round-curve handrail, S/S hairline finish



FS-11WJ round-curve handrail, S/S mirror finish



FS-WFB flat-curve handrail, S/S hairline finish

## Hall Lantern (Optional)

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DZD-JF

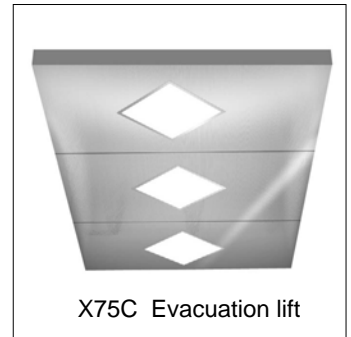
Square crystal lantern  
S/S mirror plate



DZD-JS

Diamond crystal lantern  
S/S mirror plate

## Ceiling



## Flooring



DM-A15 Heavy duty vinyl tiles



DM-A16 Heavy duty vinyl tiles

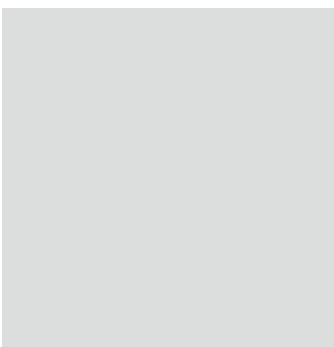


DM-A17 Heavy duty vinyl tiles

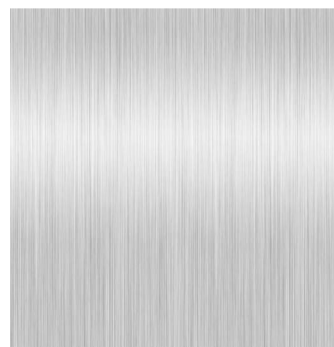


Solid wood  
(Optional, actual product  
may vary from picture)

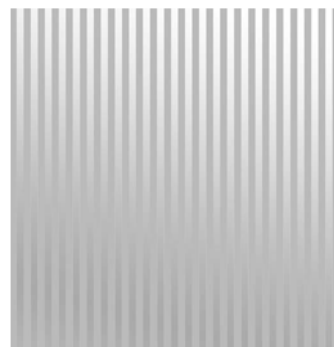
## Walls



Powder coat



S/S hairline



S/S etching



S/S non-directional hairline

# SL6000 Passenger Lift Standard Functions

No.	Function	Description
1	Absolute position control	To ensure reliability of our elevators, we employed car locator technology to actualize non-falling elevator control.
2	Standby mode	When the elevator is in standby mode, other than the mild-illuminating hall call buttons, the other elevator parts utilize minimum energy. Hence, the total energy used when the elevator is in stand-by mode is less than 50VA. When the elevator detects passengers, it will return to its original energy usage.
3	Group control	Elevator will decide on which level to serve when it receives cues from both inside and outside of the elevator. The selection will be based on the most efficient allocation of service to shorten passengers' waiting time.
4	Attendant operation	After activation, the stop floor is selected by the elevator operator. All hall calls can still be responded when the elevator is in attendant operation mode.
5	Auto-door opening when power on	If the lift is at door area, car door will open automatically when elevator is switched on.
6	Auto-closing delay	After the car doors are fully opened, there will be a 2-5 seconds delay before the doors close.
7	Door holding time adjustment	The delay between door opening and door closing can be customized to cater to different needs.
8	Door close Protection	If the car door fails to close after 6 attempts, the elevator will shut down automatically and the emergency alarm will sound.
9	Door lock Protection	Elevator can continue its operation only when the doors are fully closed and locked. The elevator will go into protection mode if the elevator jars or the door locks break off.
10	Door system protection	Our car doors have 10 protections to prevent accidents from happening when the car doors open.
11	Car Door Automated	Car door will open automatically when the hall call button is pressed if the lift is at door area.
12	Advance closing	Under normal circumstances, doors will close in advance when door close button is depressed.
13	Auto-leveling	When the elevator reaches its destination, the car doors will open automatically.
14	Maintenance operation	When the lift is in maintenance mode, it will move at maintenance speed for the convenience of the repairmen.
15	Low speed self-rescue	Under non-maintenance mode, the lift will move towards the nearest landing floor at a much slower speed if the lift did not stop at door area.
16	Hoisting self learning	The hoistway must have captured a series of data (eg. level height, protection switch position, deceleration switch position, etc) and retain the information permanently before the elevator can travel at higher speed.
17	Sunken button	If the hall call button is being depressed for more than 20 seconds, the system will consider the button to have sunken in and will not respond to the cue. The hall lantern at corresponding lift level will blink.
18	Fault recovery due to power failure	Once the power supply recovers, elevator will move to the nearest landing floor and restore its normal operation.
19	WDT protection	When the system detects malfunctions in CPU or program, the WDT protection will deactivate functions of car operating panel for the CPU to recover.
20	Screen protection	We have installed screen protection system on our door such that when the screen is touched, the doors will stop closing and open instead.
21	Speed protection	If the control device detects that the speed of the elevator is greater than 115% of its speed limit for more than 500ms, the elevator will decelerate till an eventual stop. If the elevator did not recover to its normal speed after 2 attempts, the car operating panel will be deactivated and emergency alarm will sound.



No.	Function	Description
22	Overload protection	This system will activate an audio/ visual signal and prevent the elevator from moving when it is overloaded.
23	Retrogradation protection	If the control device detects that the elevator is travelling in reverse direction for more than 3 seconds, the elevator will stop and emergency alarm will sound.
24	Lift slide protection	If the actual speed of elevator does not correspond with the theoretical speed measured by AB encoder, this implies that the elevator may be sliding. Elevator will stop and enter fault status.
25	Overshoot protection	The elevator speed will be reduced by force if the elevator fails to reduce to its preset speed as it is approaching the terminal level.
26	Contact point inspection	If there is any abnormality in motor circuit contactor, the elevator will enter protection mode and the system will be able to determine the type of abnormality accurately.
27	Safety loop protection	In events when any part of the elevator breaks down, the safety loop will disconnect and the elevator will stop operating.
28	Overspeed protection	Elevator will stop and emergency alarm will sound when the travelling time for 1 trip exceeds the total travelling time for the whole building.
29	Limit protection	When the system detects the deactivation of limit switch, the elevator will stop and travel in reverse direction until the landing door is opened.
30	Final limit protection	When the system detects the deactivation of final limit switch, the elevator will enter protection mode.
31	Brake inspection	Real time examination of brake opening status. If the brake did not open according to command, the system will stop the start-up of elevator.
32	Inverter fault protection	When the system receives error signal from inverter, the elevator will undergo emergency stop to prevent of movement of elevator. The elevator will recover automatically when the error is removed.
33	Encoder signal loss protection	When the lift is in operation and the system detects that the encoder signal is lost or pulse count is lower than usual, the elevator will enter protection mode.
34	Fireman operation	When the fireman switch is being activated, the elevator will cancel all hall calls and return to fire base level. The elevator will then enter firemen operating status.
35	Lift slide alarm	When the elevator stops, the system will generate feedback pulse for 3 seconds. If the feedback pulse fails to recover the elevator, the alarm for lift slide will sound.
36	Auto-docking during breakdown	If the elevator stops at non-gate area when the elevator is travelling at high speed, the elevator will travel slowly towards the nearest landing floor if the safety circuit is under normal condition.
37	Overload bypass	When car is fully loaded, it will only respond to car calls and bypass all hall calls.
38	Mischievous call cancel	Based on counter-weight logic, the system will prevent movement of empty elevator by cancelling cues from car operating panel. This is to prevent wrong signals from being given out by the car operating panel or pranks.
39	Floor lock operation	Specific floors can be locked out as non-stop floor through system configuration.
40	Lift lock service	When the lift lock service is being activated, the elevator will complete all calls entered prior to the activation and return to the designated level. Simultaneously, the elevator will enter power saving mode, cutting off car lights and light up elevator stoppage indicator in the hall.
41	Door open at next landing floor	If landing door fails to open at the designated floor after 8 seconds, the elevator will send the passengers to the nearest available floor to let the passengers out.
42	Automatic returning function	Elevator will be docked at the designated level and be in stand-by mode if it did not receive any call for more than the designated period of time.
43	Communication system	Communication with motor room, car top, car pit and control room can be done using the car operating panel intercom. (Wiring of cables from motor room to the control center will have to be done by customers)

No.	Function	Description
44	Arrival gong	An electronic chime located at the car top sounds just before the arrival of the elevator
45	Emergency lighting	Emergency lighting will be activated automatically during power failure.
46	Micro-leveling	Automatic correction of elevator landing level when subjected to varying car load.

## SL6000 Passenger Lift Optional Functions

No.	Function	Description
1	Advance opening	When the lift reduces speed as it approaches the door area, doors will start opening before the lift stops .
2	Duplex control	Fully automatic operation used for a two elevator system. Calls are responded to by whichever car that can serve the call faster. When there is no call, one of the cars will standby at the starting floor while the other car stops at the pre-designated floor.
3	Group control	The maximum number of elevators that can be controlled in group control system is 8 elevators. In group control system, the elevators can arrange themselves such that they will be able to provide the best response which shortens the waiting time for lift and is most energy saving. This also reduces lift shut down episodes.
4	Safety Edge	Our safety touch screens provide double protection for our passengers. When screen is touched, the lift door will stop closing and opens up automatically.
5	Cushioning	During lift installation or maintenance, the sides of the elevator will be cushioned to prevent damages to the car walls. The protective layers can be removed during normal usage of the lift.
6	Automatic rescue device for power failure	When main power failure occurs, the elevators will switch to use the standby power supply automatically and send the lift to the nearest landing floor at a much slower speed to let the passengers out.
7	Car door lock	If the elevator stops at a non-landing floor, the system will lock the car door to prevent passengers from climbing out of the car.
8	Video monitoring port (in-car monitoring/area monitoring)	Reserve a monitoring port for installation of video surveillance. (Customers are responsible for the surveillance equipment and cabling for motor room and surveillance centre)
9	Energy renewal	The potential energy lost during the descent of the elevator can be converted into power supply by passing the DC power supply through a rectifier. This conversion will equalize the voltage between the 2 sources and the resulting energy will return to the main power supply which can be used to power energy-operated equipment.
10	Voice synchroniser	Verbal indication of arrival of lift and the corresponding floor level to the passengers inside and outside of the elevator.
11	Hall lantern	Hall lanterns can be provided instead of hall indicators.
12	Seismic control	Elevator will be sent to the nearest landing floor when seismic signal is received.
13	Elevator air-con	Air-conditioner can be included in the elevator.

No.	Function	Description
14	Automatic off	Automatic off elevator to conserve energy when not in use.
15	Monitoring Interface	Our elevator monitoring interface can provide the status of the elevator.
16	Smart card access System	Passengers will have to swipe their ID card on the card reader on the car operating panel before they can operate the elevator.
17	LCD display	The LCD true colour display provides a clear presentation of the level details and lift status.
18*	Emergency rescue	When the safety loop is faulty, the elevator will take emergency measures to let the passengers out as soon as possible and restore the elevator back to normal use.

\*SL6000 motor-roomless option

Contact **XJ Schindler** to know more!

Disclaimer: Pictures shown in this catalogue are based on the numerical data of the actual products. Actual products may vary from the pictures in terms of colours and materials due to printing and photographic techniques.

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