VIGO Series Home Lift

XJ Schindler

Vigo Cares About Your Family

Cares about the health and comfort of the aged
Cares about the safety and growth of the young

Cares about the health and comfort of the aged

Undisturbed Sleep

Sleep is not interrupted with the reduced noise level

With the combination of a low-noise traction machine, and a 3-tier noise reduction technology in the car wall, noise level produced by the operation of elevator is effectively reduced to 43db.

Healthier Life

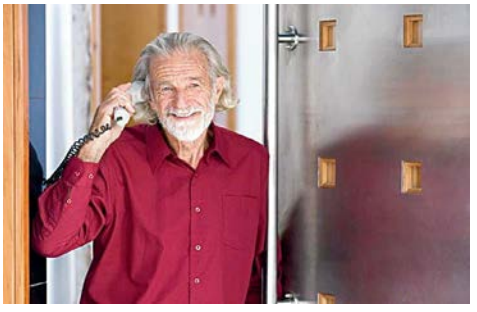
Low Radiation

Radiation waves produced by the elevator will not affect human health nor interfere with home appliances. Conversely, home appliances will also not affect the operation of the elevator.

Comfortable Ride

Stable Transportation

Our home elevators operate in a much comfortable speed and are steady during the start-up of the elevator to secure high comfort level.



Safe Entrance/Exit

Safety Assured

The sensitive light curtain detects movement at the entrance area and provides door reopen signals.

Cares about the safety and growth of the young

During Breakdown

Breakdown Rescue System

In times of elevator breakdown, the breakdown rescue system will be activated automatically. Once activated, the lift will be sent to the nearest landing floor to let the passengers out.

During Power Failure

Power Failure Rescue System

During power failure, the elevator will be powered by stored power and send the passengers to the nearest landing floor.

During Emergency

Emergency Alarm

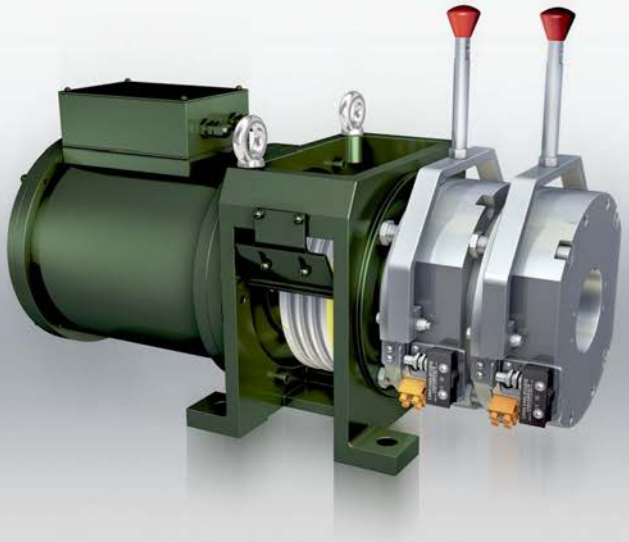
When emergency occurs, the emergency button will be activated and passengers will be able to speak through the communicator and call for rescue.

During Hide-And-Seek

Large Vision Panel

With large car windows, parents will be able to find their children easily.

Uses less than 800W of electricity

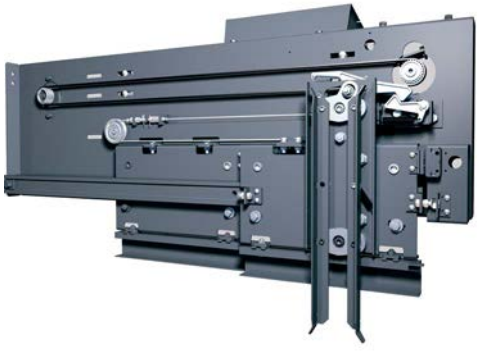


Compact traction machine has low noise level and saves space

Radiation-free Control Cabinet

Our control cabinets are operated by 32-bit CPU chips which can process data efficiently and accurately.

The control cabinet is isolated from external interference as well as emitting harmful radiation.



Sensitive Light Curtain

Sensitivity of our car doors is greatly enhanced with our Germany made door system which have been tested for 8 million times. Furthermore, the noise level has been minimized to 10db.

No Special Hoistway Required

Our latest breakthrough innovation requires no custom-made hoistway, pit or traction machine. The installation is akin to the installation of any electronic home appliances where no big construction is required.

Smooth Hoistway

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 at the same time friendly to the environment with no oil-stain.

Space-saving Narrow Hoistway

We minimized the hoistway area to maximize your home area. Together with the latest technology and precise installation, we are able to to conserve 30% home space

More Reliable Structure

With scientific calculation and design, we developed a brand new structure that allows steadier transportation, reduces the complexity of installation and more environmentally friendly.

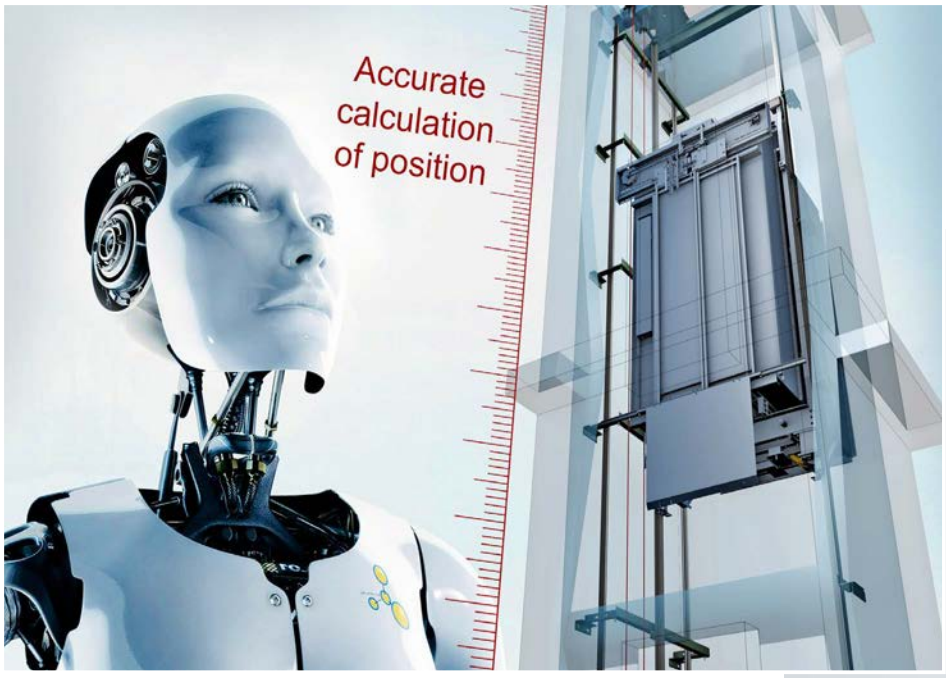
According to data analysis, XJ Schindler elevators waste reduces 52% more energy in standby mode.

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

XJ Schindler 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:

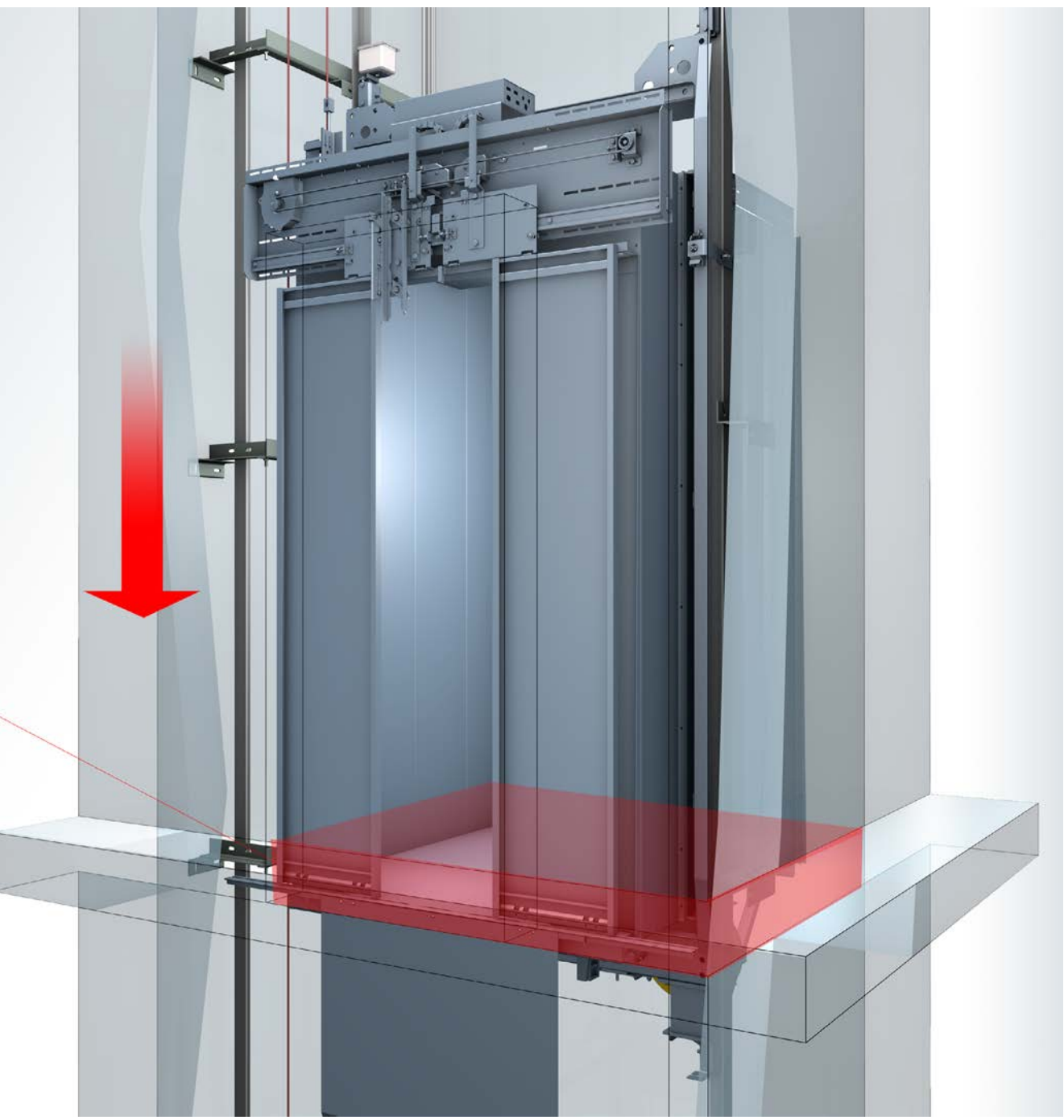
According to records: The effective operation of an elevator operating on a 24-hour basis is only 3-6 hours. When the elevator is on standby mode, the power wastage is approximately 300W. Cumulatively, the overall power wasted per year is approximately 2100kWh. This implies that supposedly, $1200 can 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.



Lift Slide Protection Patent

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 abnomal 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 occuring.



VIGO 01

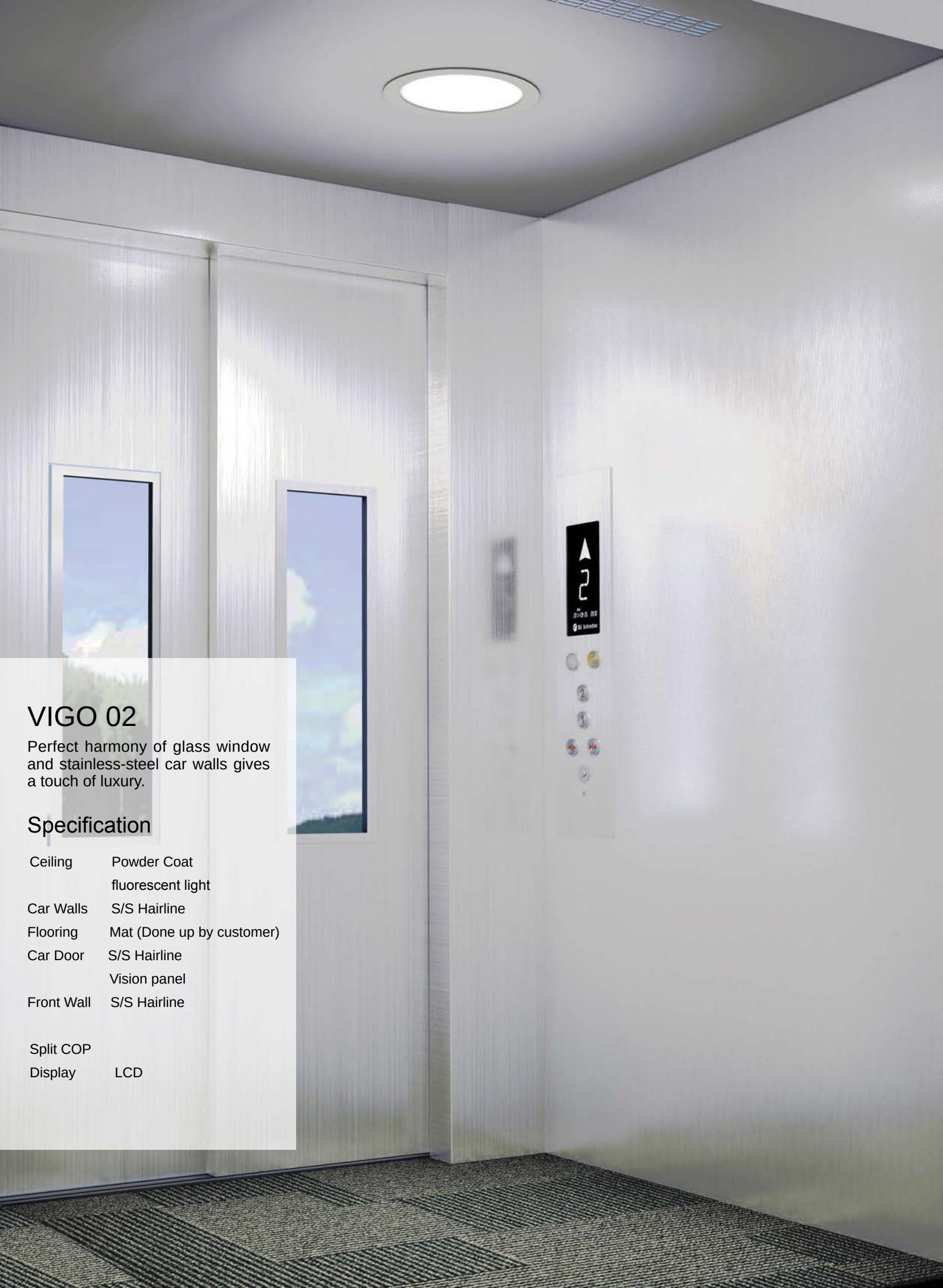
The exquisite combination of stainless steel and unique ceiling design achieves a high level of refinement and quality.

Specification

Ceiling	Powder Coat
	fluorescent light
Car Walls	Powder Coat (Jazz Silver)
Flooring	Mat (Done up by customer)
Car Door	Powder Coat
Front Wall	Powder Coat
Split COP	
Display	LCD

(Standard)

Hall Call



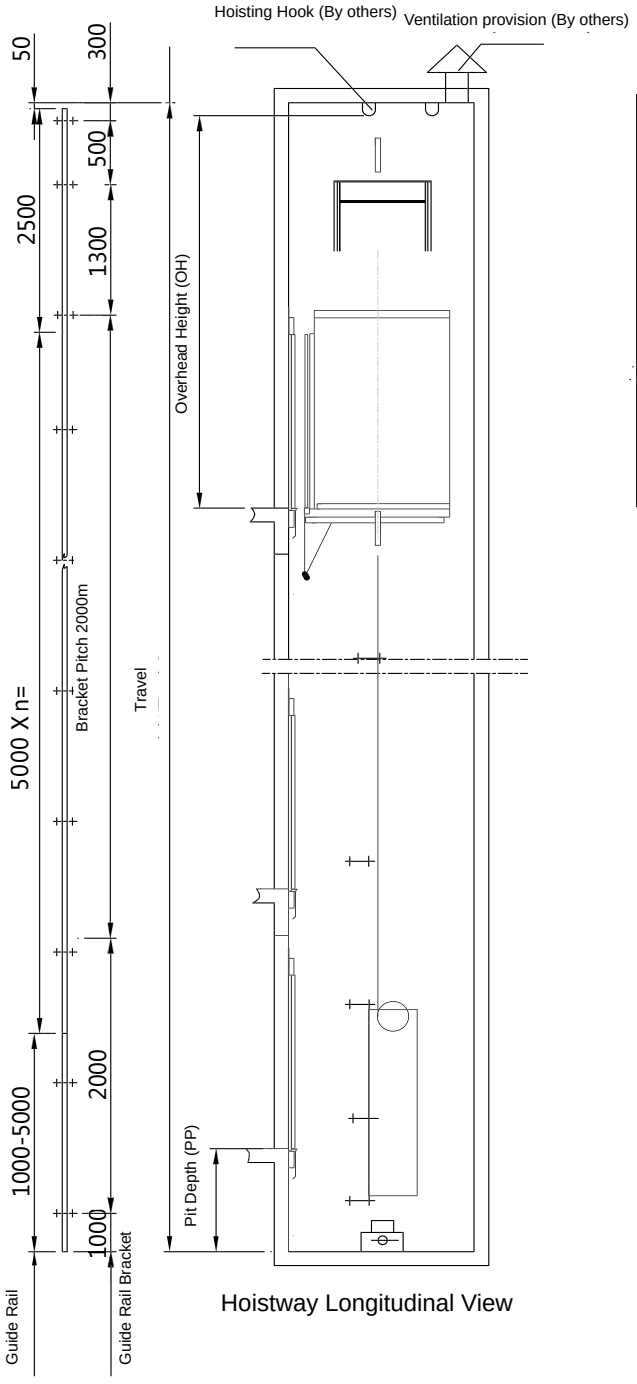
VIGO 02

Perfect harmony of glass window and stainless-steel car walls gives a touch of luxury.

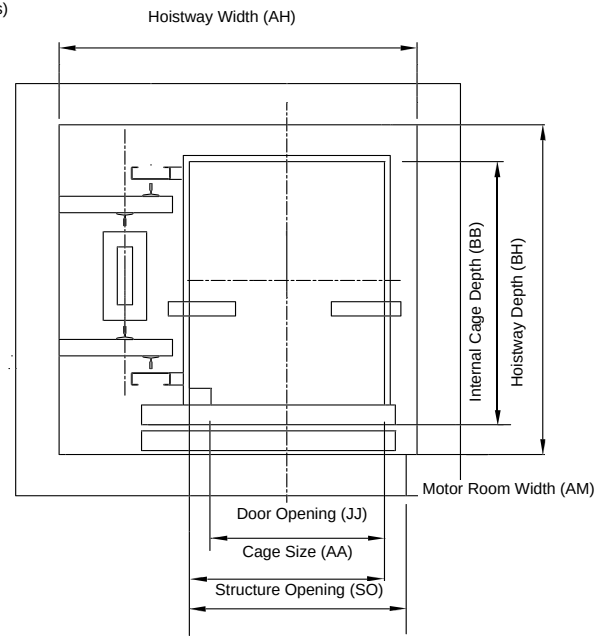
Specification

Ceiling	Powder Coat
	fluorescent light
Car Walls	S/S Hairline
Flooring	Mat (Done up by customer)
Car Door	S/S Hairline
	Vision panel
Front Wall	S/S Hairline
Split COP	
Display	LCD

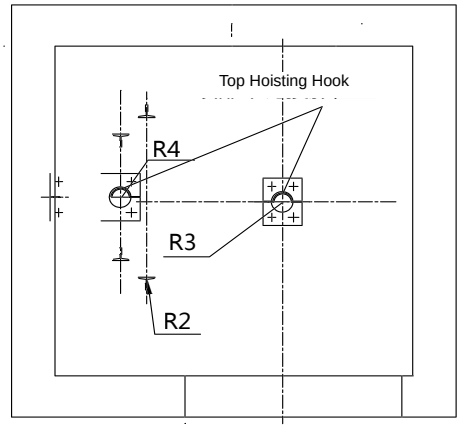
VIGO Standard Hoistway Plan



Hoistway Longitudinal View



Hoistway Transverse View



Pit Transverse View

Model	Speed m/s	Load Limit Kg	Door Opening (JJ)	Car cage dimension (AA×BB)	Hoistway dimension (AHxBH)	Pit depth (PP)	Overhead height (OH)
9000-WT-03-04	0.4	320	800(Side)	900×1100	1650×1600	500	3800
9000-WT-03-04	0.4					500	3800
9000-WT-04-04	0.4	400	800(Side)	1000×1200	1750×1700	500	3800
9000-WT-04-04	0.4					500	3800

VIGO Series Home Lift Standard Functions

No.	Function	Description
1	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.
2	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.
3	Auto-door opening when power on	If the lift is at door area, car door will open automatically when elevator is switched on.
4	Auto-closing delay	After the car doors are fully opened, there will be a 2-5 seconds delay before the doors close.
5	Door holding time adjustment	The delay between door opening and door closing can be customized to cater to different needs.
6	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.
7	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.
8	Door system protection	Our car doors have 10 protections to prevent accidents from happening when the car doors open.
9	Automatic Car Door	Car door will open automatically when the hall call button is pressed if the lift is at door area.
10	Advance closing	Under normal circumstances, doors will close in advance when door close button is depressed.
11	Auto-leveling	When the elevator reaches its destination, the car doors will open automatically.
12	Maintenance operation	When the lift is in maintenance mode, it will move at maintenance speed for the convenience of the repairmen.
13	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.
14	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.
15	Sunken buttons	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 level will blink.
16	Fault recovery due to power failure	Once the power supply recovers, elevator will move to the nearest landing floor and restore its normal operation.
17	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.
18	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.
19	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.
20	Overload protection	This system will activate an audio/ visual signal and prevent the elevator from moving when it is overloaded.
21	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.
22	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 5 level fault state.

No.	Function	Description
23	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.
24	Detection and Protection	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.
25	Safety loop protection	In events when any part of the elevator breaks down, the safety loop will disconnect and the elevator will stop operating.
26	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.
27	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.
28	Final limit protection	When the system detects the deactivation of final limit switch, the elevator will enter protection mode.
29	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.
30	Inverter fault protection	When the system receives error signal from inverter, the elevator will undergo emergency stop to prevent movement of elevator. The elevator will recover automatically when the error is removed.
31	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.
32	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.
33	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.
34	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.
35	Overload bypass	When car is fully loaded, it will only respond to car calls and bypass all hall calls.
36	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.
37	Floor lock operation	Specific floors can be locked out as non-stop floor through system configuration.
38	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. At the same time, the elevator will enter power saving mode, cutting off car lights and light up elevator stoppage indicator in the hall.
39	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.
40	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.
41	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)
42	Arrival gong	An electronic chime located at the car top sounds just before the arrival of the elevator
43	Emergency lighting	Emergency lighting will be activated automatically during power failure.
44	Micro-leveling	Automatic correction of elevator landing level when subjected to varying car load.
45	Absolute position control	To ensure reliability of our elevators, we employed car locator technology to actualize non-falling elevator control.
46	Standby mode	When the elevator is in stand-by 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

VIGO Series Home 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 be on 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 saves most energy. Thus reducing lift shut down episodes.
4	Safety Edge	Our safety touch screens provide double protection for our passengers. When screen is touched, the lift doors will stop closing and open up automatically.
5	Cabin protection	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	Audio indication of arrival of lift and the corresponding floor level to the passengers inside and outside of the elevator.
11	Hall lantern	Hall lanterns buttons can be provided instead of hall indicators buttons.
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.
14	Automatic off	Elevator automatically turns off to conserve energy when not in use.
15	Monitoring Interface	Our elevator monitoring interface can provide the status of the elevator.
16	Card reader service	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.