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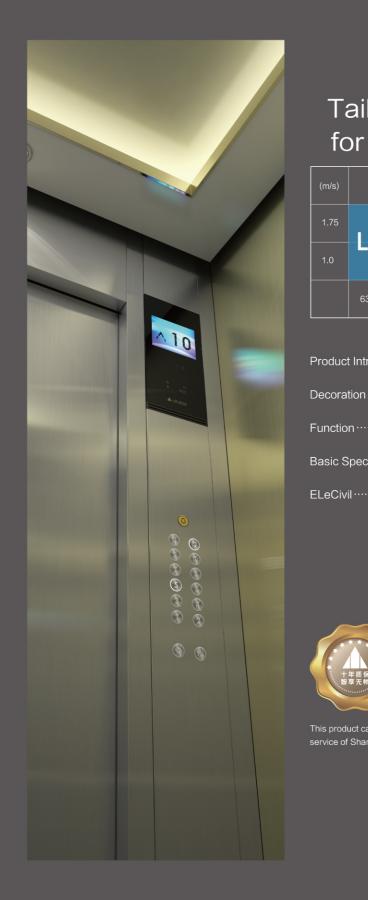






# Consistent Quality and "Riding" You Home with Heart Consistent Gnality and "Riding" You Home with Heart





# Tailor-made for Beautiful



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service of Shanghai Mitsubishi Elevator Co., Ltd.

# **Consistent Quality**

# Consistent Quality Assurance Inheriting the Classic Traction Machine PM permanent magnet synchronous gearless traction machine technology with excellent performance A number of original drive control technologies make the elevator safer, more reliable and more comfortable Microscopic and products of SMEC. Fully Manufactured by Itself, with High Reliability SMEC adheres to the high and strict internal control standards for self-made safety gears, and its quality control and quality are trustworthy. Safety gears are delivered from the factory in one piece, and the synchronization of gears on both sides is adjusted and confirmed in the factory, so the safety is greatly improved. The governor adopts centrifugal flyweight structure, clamping lifting and remote control of mechanical cable, with stable performance.





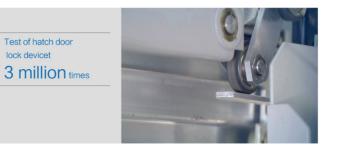
15 million times
365 days × 2000 times/day = 20
years

\*: Data sourced from industry investigation



Car door system test
13.5 million times

Long Life of Components	Unit	: ten thousand times
Item	SMEC indicator	Industry average *
Design action life of brake	1500	About 700
Design life of hatch door system	300	About 230
Car door system test	1350	About 500
Design action life of button	500	About 300

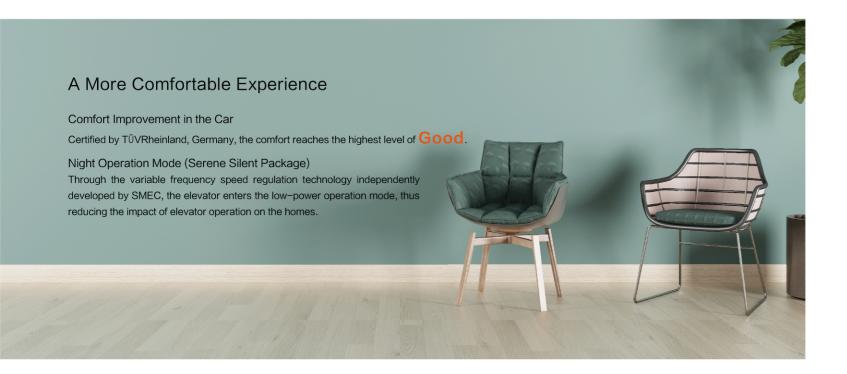


Elevator button test
5 million times

### Improve the Comfort of Homes

- · Reduced noise of traction machine: patented joint stator core technology reduces the running noise of traction machine by 10 decibels.
- · Optimal design of vibration isolation system: the vibration isolation system of traction machine is optimized, which improves the vibration isolation efficiency and greatly attenuates the vibration transmitted to the building structure.
- · Brake-holding silencing technology: current closed-loop control mode is adopted, so that the elevator can start and stop smoothly and comfortably. Compared with the control without silencing, the noise is reduced by 16.2% on average.
- · Harmonic suppression optimization: the harmonic components of the traction machine driving current is actively controlled and reduced through harmonic suppression algorithm, so as to further improve the vibration and noise level of the traction machine.

# **Rest Assured and More Intimate**



### More Energy-saving Technology

### Energy Efficiency Improvement

The whole elevator has obtained the **Class A** certificate of VDI4704 energy efficiency certification, The whole series traction machines reach **level 1**, the highest level of energy efficiency of China Energy Label.

### Energy-saving Function

Energy-saving operation (number control/distribution control), automatic OFF of car fan/lighting, and darkening of hall display.

If it is turned off for 8 hours every day, the above functions can save about  $700 \ kWh$  per year.



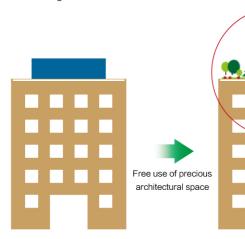


### More Flexible Civil Construction

Seamless linkage with LEHY-MRL-II civil sizes Civil sizes are consistent with LEHY-MRL-II, leading the industry.

### Machine Roomless Structure

The load self-supporting structure can realize the elevator without machine room, thus greatly reducing the civil cost of customers and improving the utilization rate of building space; the elevator control panel is arranged in the hoistway, which reduces the influence of the elevator on the appearance of the building and makes the design and layout of the building freer.





### More Convenient Installation and Maintenance

### Improved installation efficiency

The hoisting efficiency of the traction machine is improved, the installation without frame is more convenient, and the installation difficulty is obviously reduced.

### Newly Added Maintenance and Debugging Tools

Annual inspection tools are newly added to improve annual inspection efficiency and facilitate field annual inspection and debugging.



# Intelligent Human-machine Interaction

# **More Humane Decoration Design**

### Water Ion Air Conditioners and Fans (optional)

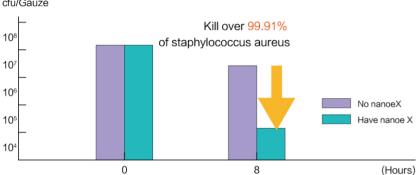
### Cleane

- Equipped with Panasonic nanoeTM X water ion generator imported from Japan, which can kill attached bacteria and viruses.
- Equipped with high-sensitivity VOC sensors, which enable the fan to switch to the maximum speed for quick ventilation when smoke or unpleasant smell is detected.

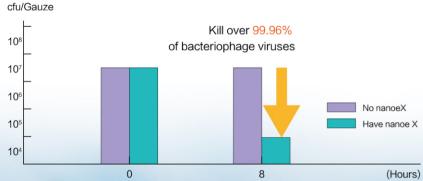
### More User-friendly

- Fan speed can be adjusted according to the load: The fewer the number of passengers is, the slower and the quieter the fan is.
- $\cdot$  Fan speed can also be adjusted from a mobile app.

# Concentration of bacteria cfu/Gauze



### Number of virus infections



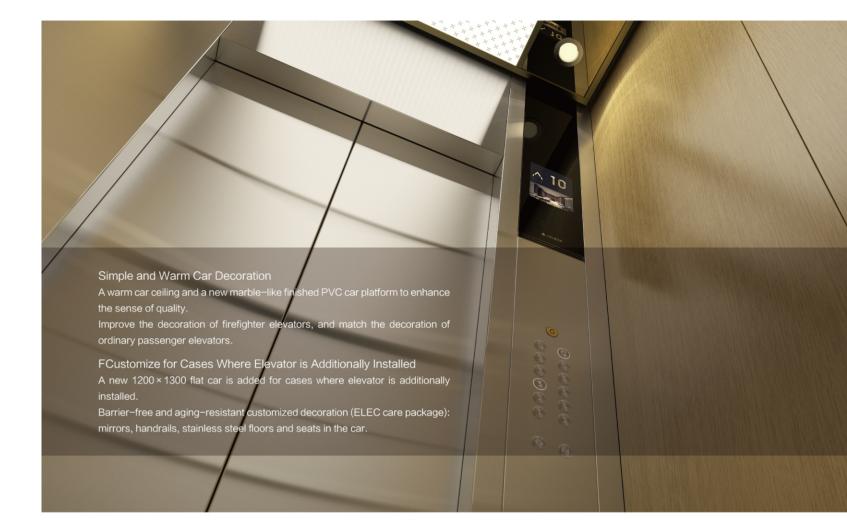




# nanoe

### Introduction to nanoe™ X Technology

- nanoe™X are water-wrapped nano-sized particles, which can kill the attached bacteria and viruses by denaturing their protein.
- The eight–hour nanoe  $^{TM}$  X test in a 23.3 m³ lab has proved that, nanoe  $TM^X$  can kill up to 99.91% of Staphylococcus aureus.
- The eight–hour nanoe<sup>TM</sup>X test in a 23.3 m³ lab has proved that, nanoe<sup>TM</sup>X can kill up to 99.96% of bacteriophage.
- · nanoe, nanoe™X, nanoe label, and nanoeTMX label are trademarks of Panasonic Corporation.



### Easy-to-Recognize Micro-Light Buttons

A11 and A12 buttons give micro-light during standby, making numbers easier to recognize. Users can quickly recognize the floor number on the buttons even in the dark.

# Pet Reminder Function (optional) Let Neighbors Feel the Warmth

When riding the elevator with a pet, a passenger can press the pet button to provide a visual indication for passengers at other floors. In so doing, passengers at other floors can decide to or not to ride the elevator as needed, to effectively avoid unexpected pet disturbance.





# **Car Decoration**

### Mirror







ZYZ-03S full-length mirror (optional)



ZYZ-04S stainless steel mirror (optional)

# Handrail Type

Remark: Titanium coated stainless steel is alternative for handrail ZYH-FH10\ZYH-RH05\ZYH-06. Please refer to material table for details of titanium color code.



ZYH-FH10 Stainless Steel Flat Handrail(Optional)



Stainless Steel Round Handrail(Optional)



ZYH-RH06/RH06B Stainless Steel Round Handrail(Optional)

More versatile design: brand-new handrail design, simple and versatile appearance and easier to manufacture, ensuring excellent quality of handrails Newly added titanium-plated handrails for choice, so as to match the car environment better.

More comprehensive function: when the handrail and the operation panel are installed on the same side, there is no need to interrupt, and the effect is better. When there is a decorative layer on the car wall, standard handrails can also cope.

Firmer structure: the back reinforcement structure is added to the car wall where the handrail is installed, so that the handrail is more firmly installed, thus effectively preventing the handrail from shaking.

### Floor Material

Single-color real stone flooring is also available. See Decoration Color Code of Shanghai Mitsubishi Elevator for color codes.

### Artificial Stone Flooring



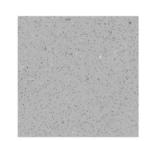
ZRZ-A01



ZRZ-A02



ZRZ-A03



ZRZ-A04

### Marble Flooring

Marble is natural stone. Some of stones contain striped patterns, which is not cracks. The natural stone texture and color may have small differences between the actual delivered products and the drawings. Stone has its natural attributes and should be fully laid for single color block. If it is necessary to ensure full laying, project confirmation is required.



ZSC-001







ZSC-012



ZSC-013



ZSC-014



ZSC-016



ZSC-029

### Parquet PVC Flooring



ZPH-032



ZPH-030



ZPH-028



ZPH-033





ZPH-029



ZPH-034



ZPH-031

# **Car Decoration**

### Design of Car Ceiling



Lighting: down light direct lighting Material: coating steel sheet Thickness: 100mm

Remark: When air conditioner and emergency exit are selected, there are no ventilation holes on the ceiling surface, and the ventilation holes are placed in the gaps on both sides of the car ceiling.

### ZCL-SS10 (Standard)



Lighting: Central thin light guide panels; ambient lighting at two sides Material: coating steel sheet Thickness: 100mm

### ZCL-SS07S (Optional)



Lighting: down light direct lighting Material: stainless stee Thickness: 100mm

### ZCL-SS08 (Standard)



Lighting: central direct lighting

Material: central milk white printed lighting board, two-side coating steel sheet

Thickness: 200mm

### ZCL-GS18 (Optional)



Lighting: central floodlight lighting, ambient down lamp lighting Material: Coated steel sheets for ceilings at four sides; mirror-finish titanium stainless steel for frames Thickness: 200mm

### ZCL-GS06 (Optional)



Lighting: central direct lighting; two-side auxiliary lighting
Material: central milk white printed lighting board, ambient metallic
painting steel sheet, translucent plates on both sides
Thickness: 200mm

### ZCL-CN01 (S200) (Bare Ceiling)

When the ceiling decoration is provided by others, the thickness should be ≥100mm, otherwise the internal structure will be exposed and affect the appearance.

### ZCL-GS22 (Optional)



Lighting: central direct lighting; two-side down lamp lighting
Material: Central milky white arched lighting panel; two-side mirror stainless steel
Thickness: 200mm

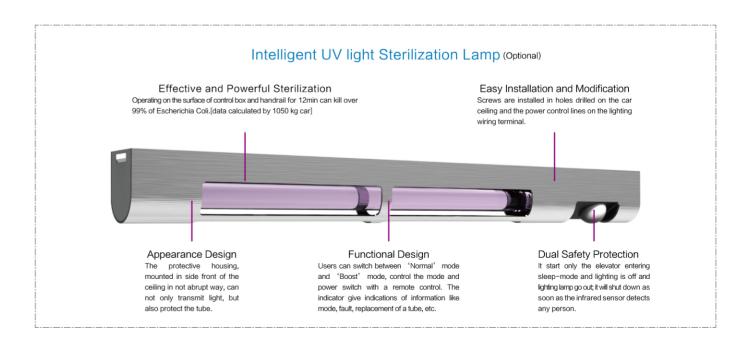
### ZCL-CN08 (S300) (Bare Ceiling)

When the ceiling decoration is provided by others, the thickness should be  $\ge$ 200mm, otherwise the internal structure will be exposed and affect the appearance.

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### Note:

- 1. All car roofs adopt LED lighting.
- 2. The ventilation outlet of car roof is arranged at the back of the two sides. Safety windows are optional at the car top, but shall comply with GB 7588 and GB/T 7588.1. For details, please contact your local sales agent.
- 3. ZY015 is the default color number for ZCL-SS10, ZCL-GN07 and ZCL-GS21, and Y033 for ZCL-SS08, ZCL-SS07 and ZCL-GS18. If other colors are required for coated steel sheets, please refer to the color samples provided by SMEC.



The picture is a schematic: if actual dimensions and appearance vary, the actual specifications shall prevail.

# **Car Decoration**

# Full-height Operation Panel



Front Wall



Side Wall





Front Wall/Side Wall

High hardness resin display window Orange Segment Display The buttons are exchangeable. The figure shown is A12 button.



Side Wall

Comply with GB/ T24477 Standard

ZCB■-N612 (Primary)

ZCB■-N662 (Auxiliary)

Front Wall/Side Wall



High hardness



10.1 inch

Physically

toughened

TFT LCD,

black gold interface

(Picture player) Resolution: 1280 × 800

(Support for image playback)



### ZCBE10-N71B(Primary) ZCBE10-N76B (Auxiliary) Front Wall/Side Wall

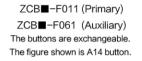
## Wheel Chair Operation Panel

9 (0 (1) (2 (3 (4 (5 (5 

(D) (D)



Side Wall





ZCB**■**-F131 (Primary) ZCB**■**-F181 (Auxiliary) The buttons are exchangeable. The figure shown is A14 button. (Comply with GB/ T24477 Standard)

### **Diversified Button**

### **Basic Buttons**



Diameter 35mm Machinery Fine Motion Flat Words Standby Micro-light Stainless Steel Surface

A11(White Light)

### Optional Button Styles



Stainless Steel Surface





A14(White Light) A15(Orange Light) Diameter 35mm Machinery Fine Motion Machinery Fine Motion Protruded Words with Braille Protruded Words with Braille Standby Micro-light Standby Micro-light



Diameter 35mm Machinery Fine Motion Standby green light Light up the green convex text

### Note:

- 1、The symbol refers to the button model. Please select it from the "Diversified button".
- 2. Hairline-finish, mirror-finish, random pattern and sand pattern stainless steel can be used for the faceplate of the operating panel. Non-standard confirmation is required for titanium plated stainless steel.
- 4、ZCB■-F131/181 complies with GB/T24477. Technical confirmation is required to determine whether the complete elevator meets the standard.

ZCB■-ND11 (Primary)

ZCB■-ND61 (Auxiliary)

Front Wall/Side Wall

# Hall Design

### Hall Door and Jamb

### E-102 Narrow Door Jamb



Landing Display Call: ZPIA12-GD10 Landing Door Material: Hairline Stainless Steel Jamb Material: Hairline Stainless Steel

### E-302 Bevel (10 $^{\circ}$ ) Wide Door Jamb



Landing Display Call: ZPIA12-GB13 Landing Door Material: Hairline Stainless Steel Jamb Material: Hairline Stainless Steel

# **Landing Display**





### Wall-mounted call

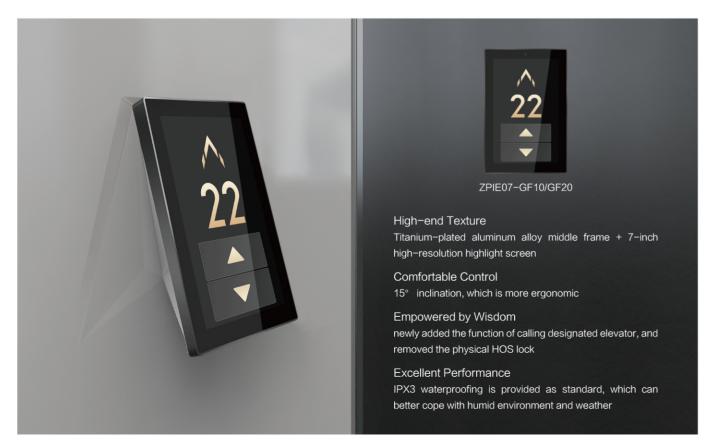
Wall-mounted structure: civil construction only requires reserved round holes, which can also be punched on site, making installation easy and labor-saving.

Classic appearance: featured by Mitsubishi classic design, simple appearance, exquisite workmanship and clear display.

Grounding structure: the anti-static capability is stronger, so that it can effectively resist thousands or even tens of thousands of volts of static electricity generated by the human body.

Cross-section of bottom-box-less buttons

### 7-inch Touch Screen Hall Call









Embedded With a bottom box Gold Segment Code



ZPI■-GB13 Black text on a colored background



ZPI■-GB23 4.3" Color segmented LCD 4.3" Color segmented LCD LCD Black text on a colored background

# Landing Call







ZHB■-H041 Parallel Connection

Comply with GB/ T24477 Standard

## Control and Security Features

●:Standard, ○:Optional

Feature	Description	Code	1C- 2BC	2C- SM21	2C~4C- ITS-21
Automatic Landing with Rheostatic Leveling	When the car parks at a station, if the vertical difference between the upper plane of the car sill and that of the landing door sill exceeds predetermined value, the elevator will level automatically.		•	•	•
Anti-stall Timer	When the traction rope slips or motor stall reaches predetermined time, the elevator will stop.	AST	•	•	•
Balance Coefficient Automatic Detect	In Auto mode, after a certain period of time, when the elevator enters the standby mode, the brake is released and the elevator does not move. Measure the motor current to calculate the balance coefficient. If the coefficient deviates too much, then stop the elevator.	BCST	•	•	•
Brake Noise Reduction Control	Accurately control the action speed of the brake when braking to greatly reduce the noise produced and improve the ride comfort.	BNRC	•	•	•
Brake Redundancy Protection	When a group of brakes fails, the remaining brakes still can realize effective braking of the elevator.	BTUP	•	•	•
Car Slide Safety Protection	When the car slides due to insufficient braking force, short the three-phase winding of PM traction machine in normal power supply state to reduce the speed the car slides.	CSSP	•	•	•
Door Interlock Bypass Operation	Bypass the hall door or car door circuit via the door interlock bypass device to facilitate the maintenance of hall door contact, car door contact and door interlock contact.	DBO	•	•	•
Double-Side Static Torque Detect (Manual)	Enter the Double–Side Static Torque Detect (Manual) mode manually. The elevator keeps all brakes in holding state and applies a torsional torque onto PM traction machine to check the static torque.	DBSD-M	•	•	•
Double-Side Static Torque Detect (Power-on)	In auto mode, when the elevator is powered on in case of power outage or after the PCB is reset, the elevator keeps all brakes in holding state and applies a torsional torque onto PM traction machine to check whether the double-side static torque meets the requirement.	DBSD-O	•	•	•
Double-Side Static Torque Detect (Periodic)	In auto mode, after a certain period of time, when the elevator enters the standby mode, the elevator keeps all brakes in holding state and applies a torsional torque onto PM traction machine to check whether the double-side static torque meets the requirement.	DBSD-P	•	•	•
Door Interlock Short Safety Protection	n In auto mode, if the door interlock switch is detected shorted, stop the elevator to protect passengers.	DSSP	•	•	•
Energy Feedback	Feed energy generated during operation back to the grid to save energy.		0	0	0
Electrical Safe Loop Protection	Prevent the elevator from operating once the electrical safety devices connected together in series act.		•	•	•
Automatic story height measuring	Automatically measure and record story height		•	•	•
Inspection Operation	Inspection operation mode for maintenance staff.		•	•	•
Load Weighing Start	The elevator adjusts startup torque according to the car load so as to allow smooth start.		•	•	•
Over-current Protection	Stop elevator when the current through the rectifier or inverter is detected too high.		•	•	•
Over-speed Protection	Stop elevator when the running speed is detected over allowable value.		•	•	•
Over-Temperature Protection	Stop elevator when over temperature of motor is detected.	OTP	•	•	•
Over-voltage Protection	Stop elevator when the voltage across the rectifier or inverter is detected too high.	OVP	•	•	•
Power Failure Protection	Stop elevator when open-phase, undervoltage or other faults of power occurs.	PFP	•	•	•
Power-on Releveling	If the car stops in the range of door area due to power failure, it will relevel to the leveling position after the power is recovered.	PORL	•	•	•
Reversal protection	Stop elevator when it is detected running in reversed direction.	RSP	•	•	•
Selector Correcting	The elevator corrects the selector during operation.	SC	•	•	•
Safe Landing	If a car has stopped between floors for some reason, the controller checks the cause, and if it is considered safe to move the car, the car will move to the nearest floor and doors will open.		•	•	•
Stop Open	The car doors open automatically after the car stops at a floor.		•	•	•
Inverter High-temperature Detect	Stop elevator when inverter high-temperature is detected.	THMF	•	•	•
Terminal Forced Decelerate	If the car runs to the terminal but the speed has not been reduced to specified value, the system will force it to decelerate and thus enable it to level normally.		•	•	•
Unintended Car Movement Protection	Elevator safety component to stop unintended car movement away from the landing with the landing door not in the locked position and the car door not in the closed position, as a result of any single failure of the lift machine or drive control system.		•	•	•
Under speed Protection	Stop elevator when the running speed is detected under allowable value.		•	•	•

\*1 It is provided as optional when the travel rise is 30 meters or below, and standard when it is over 30 meters.

### **Emergency Operation Features**

●:Standard, ○:Optional

Feature	Description	Code	1C- 2BC	2C- SM21	2C~4C- ITS-21
Emergency Car Lighting	When normal lighting power supply fails, emergency car lighting is provided.	ECL	•	•	•
Earthquake Emergency Return (S-wave)	When S-wave earthquake detector acts, the car immediately parks at the nearest floor with door opened.	EER-S	0	0	0
Power Failure Emergency Landing Device	When normal power supply breaks, this device will supply power to move the car to the nearest floor, level and open the doors, and allow the passengers to leave safely.	ELD*1	0	0	0
Alarm Bell	Press this alarm bell in emergency. The bell and interphone will sound.			•	•
Fireman's Emergency Operation	When a fire happens, fireman switch actions, a car returns to the predetermined evacuation floor, then door opens canceling all calls om landings or car, the car is available for fireman's use.		0	0	0
Fire Emergency Return	When the Fire Emergency Return switch acts, all landing calls and car calls are cancelled, and the car immediately returns to predetermined floor and parks with door opened.		0	0	0
Operation by Emergency Power Source – Sole Automatic	When normal power supply breaks, the pre-assigned cars will be powered by the emergency power source of the building and automatically travel to the predetermined floors in order. Once all cars have arrived at the predetermined floors, the specified car can operate normally.		0	0	0
Remote Service System	Monitor elevator operation in real time, send faults or abnormities to the Service Center of the company via wireless network in a timely manner, and process them quickly. Provide customers with value—added services by establishing customized maintenance program.		0	0	0
Elevator Monitoring System	This system uses computers to monitor the operation and position of the elevator and provides operation instructions when necessary. SmartEye		0	0	0

- \*1 Optional when the interval of the adjacent floor is no more than 10m.
- 1 It should be considered that the elevator can return from the top floor to the evacuation floor within 60 seconds.
   3 The consumer provides dry contact signals of normal and emergency power sources respectively as well as dry contact signals for automatic control. These signals must be provided to the control cabinet in the machine room.
- \*4 A maintenance contract needs to be signed with Shanghai Mitsubishi Elevator Co., Ltd. Currently not available for overseas market.
- \*5 Sign SmartEye contract with Shanghai Mitsubishi.

## Operational and Service Features

●:Standard, ○:Optional, —:Not applicable

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Feature	Description			2C- SM21	2C~4C- ITS-21
Automatic Bypass	When the car load exceeds 80% (adjustable) rated capacity, the elevator does not response hall calls from other floors along its travel.			0	0
Attendant Service	Normal operation of the elevator is conducted by an attendant			0	0
Bypass	Bypass all hall calls when the attedant serves and activates the 'Bypass' button.	BP *1	0	0	0
Car Computer Back Up Operation	When an abnormity occurs on the car computer, the car stops at nearest floor and the elevator cannot restart.	CCBK	•	•	•
Car Call Cancelling	In automatic operation, when a car has responded to the final car call or landing call in one direction, the system automatically checks and clears remaining car calls from the memory.	ccc	•	•	•
Car Fan Shut Off - Automatic	If there are no calls for a specified period, the car ventilation fan will automatically be turned off to conserve energy.	CFO-A	0	0	0
Car Fan Shut Off - Manual (button type)	The car ventilation fan is turned off by combination buttons on the operation panel.	CFO-B	•	•	•
Car Light Shut Off - Automatic	If there are no calls for a specified period, the car light will automatically be turned off to conserve energy.	CLO-A	0	0	0
Car Light Shut Off – Manual (button type)	The car light is turned off by combination buttons on the operation panel.	CLO-B	•	•	•
Continuity of Service	To ensure normal operation of elevators in a whole group, when a certain elevator cannot respond registered landing calls, it will be excluded from landing call service, and service is provided by other elevators.	cos	_	•	•
Elevator Dedicated Air Conditioning	Air conditioning for elevator car.	EAC	0	0	0
Self-diagnosis	Diagnose abnormities and faults occurred during elevator operation.	EFD	•	•	•
Exit Switch	Switch for detecting state of exit	EXIT SW *2	0	0	0
False Call Cancelling - Automatic	If the number of registered calls is not agree with the number of passengers, it will cancel all calls to avoid unnecessary stops.	FCC-A*3	0	0	0
False Call Cancelling  – Manual (car button type)	If the wrong car button is pressed, it can be canceled by quickly pressing the same button again twice.		0	0	0
Hall Call Erase  - Manual (hall button type)	If the wrong hall calling button is pressed, it can be canceled by quickly pressing the same button again twice.		0	_	0
Automatic Hall Call Registration	When one elevator cannot take all passengers, the landing button remains registered state, and the system will assign another elevator to provide service.		•	•	•
Group Control Backup Service	Maintain service of individual elevators when group control becomes invalid due to failure of the group control controller or failure of communication between the group control and individual stations.		_	_	•
Hall Computer Back UP Operation	When an abnormity occurs on the hall computer, the car stops at nearest floor and the elevator cannot restart.		•	•	•
Hospital Emergency - Block Sign	By pressing the Door Open button and the DKO-TB button simultaneously, the elevator will respond only to the car call.		0	0	0
Hall Out-of-service Operation	Turn on or shut off the elevator by operating the "RUN/STOP" switch installed on specified floor.		•	•	•
Hall Out-of-Service Switch(Timer	Switch(Timer) RUN/STOP operation of an elevator can be controlled by using a timer installed in the specified elevator hall.		0	0	0
Intelligent Call System	Achieve intelligent elevator calling through mobile devices or biological recognition technology.	ICS	0	0	0
Independent Service	Using the Independent switch in the operation panel, the car can respond only to car calls without interrupting service.	IND	•	•	•
Non-service to Specific Floor (switch type)	Operating this switch can cancel service to specified floors.	NS *6	0	0	0
Non-service to Specific Floor (car button type)	Cancel service to specific floor by operating buttons on the operation panel and the setting switch.	NS-CB	0	0	0
Not Start Operation	When landing call or car call is registered but the car cannot start within predetermined time, it will clear the assigned landing call, reserve the car call, light up the Abnormal lamp, and sound the Abnormal bell.	NST	•	•	•
Next Landing	After the car has arrived at the destination floor, if the car doors cannot open fully, it will close the doors and continue to run to the next floor until the doors can open fully and then restore normal operation.	NXL	•	•	•
Overload Holding Stop	When the car is overloaded, the doors remain open and a buzzer sounds.	OLH	•	•	•
Remote Control Stop	Start or stop the car through the remote control switch.	RCS *7	0	0	0
Return Operation	Operating Return switch to immediate call the car back to specified floor and park there.	RET *7	0	0	0
Secret Call Service (car button type)	Lock certain floors on the operation panel by setting password. The buttons of these specified floors can only be registered after the password is entered on the operation panel.			0	0
Secret Call Service (IC card type)				0	0

- \*1 Standard when AS is provided.
- \*2 When there is a hoistway safety door.
- \*3 When the number of stop is >6 and the SCS-IC is not configured to be applied.
  \*4 SCS-IC is not configured to be applied.
- \*5 AlL is not configured to be applied.
- \*6 NS changeover switch is installed in the operating panel of the main car by default and the name of NS floors must be specified on the non-standard confirmation form.
- \*7 The consumer or SmartEye shall provide a dry contact signal to the control cabinet.

### Information and Display Features

●:Standard, ○:Optional

Feature	Description	Code	1C- 2BC	2C- SM21	2C~4C- ITS-21
Voice Announce Device	Voice announce device (Chinese) informs the passengers of related elevator information.	AAN-S01*1	0	0	0
Voice Announce Device	Voice announce device (Chinese and English in turn) informs the passengers of related elevator information.	AAN-S02 *1	0	0	0
Voice Announce Device	Voice announce device (English) informs the passengers of related elevator information.	AAN-S03 *1	0	0	0
Car Arrival Chime (Car)	The chime prompts the passengers the car has arrived at the destination floor. (The chime is installed on the car roof and floor)	AECC *2	0	0	0
Car Arrival Chime (Hall)	The chime prompts the passengers the car has arrived at the destination floor. (The chime is installed on the hall)	AECH *2	0	0	0
Immediate Prediction Broadcast	Once a passenger registers a floor call, the most appropriate elevator will be selected for this call, and inform the passenger via visual/acoustic signal.	ASL	0	0	0
Automatic Operation Signal Light (Hall)	The landing indicator displays the elevator is in automatic operation state.	AUTL *3	0	0	0
Signal Interface Device	Outputs basic operation state signal of the elevator via this device	BA *6	0	0	0
Bypass Signal Light (Hall)	The landing indicator displays the elevator is in "Bypass operation" state.	BPL *3 *4	0	0	0
Direction Arrows in Car	Indicates running direction with arrows in the car.	DAC	•	•	•
Direction Arrows on Hall	Indicates running direction with arrows on the hall.	DAH	•	•	•
Door-Close Button Response Light	The Door-Close button light illuminates at the same time when this button is pressed.	DCR	•	•	•
Extended Door-Open Button Light	When the Extended Door-Open button is pressed, the indicator light illuminates for certain period.	DKOL *7	0	0	0
Door-Open Button Response Light	The Door-Open button light illuminates at the same time when this button is pressed.	DOL	•	•	•
Elevator Counter/Timer	Record number of runs and running time of the elevator.	ECT	•	•	•
Multimedia Display in Car	Can provide audio/video or other information for the passengers (installed in the car).	EMIDS-C *8	0	0	0
Multimedia Display on Hall	Can provide audio/video or other information for the passengers (installed on the hall).		0	0	0
Exclusive Service Indication	Display that the elevator is in exclusive service state.	EXCL *3 *5	0	0	0
Fireman's Emergency Operation - Complete	The fireman's emergency operation is activated, the elevator runs to specified return floor, then the elevator outputs an in-place indicating signal.	FE-CP*10	0	0	0
FE Operation Signal Lamp in Car	When the elevator gets into FE operation status, the signal lamp in the car will indicate the status.	FELC *11	0	0	0
Fire Emergency Return - Completed	A CP signal is outputted after the FER running is completed.	FER-CP *12	0	0	0
Flashing Hall Button Light	When the elevator stops at a landing and starts to open the doors, the Hall Call Button light of the same direction flashes to remind passengers that the car has arrived; when the doors are closed fully, the button light goes off.	FHBL	•	•	•
Flashing Hall Lantern	Flashing lantern indicates arrival of car and its running direction.	FHL	0	0	0
Inspection Operation Indication	Hall indicator will display the elevator is in inspection mode.	INSPL	0	0	0
Hall Indicator Energy Saving	The dot-matrix display of the hall will display information with low brightness when there is no call, and with normal brightness when the call button of the floor is pressed, thus saving energy and extending the service life.	HIES	0	0	0
Interphone	$In \ emergency, persons \ in \ car, on \ car \ top, or \ in \ pit \ can \ use \ this \ device \ to \ communicate \ with \ persons \ in \ machine \ room \ or \ monitoring \ room.$	ITP *13	•	•	•
ITV cable(analog)	The cable used for video camera(analog) installed in the car for user to monitor the real image in the supervisory room.	ITV-A *14	0	0	0
ITV cable(digital)	The cable used for video camera(digital) installed in the car for user to monitor the real image in the supervisory room.	ITV-D *14	0	0	0
ITV cable(for SMOS)	The cable used for video camera equipped with SMOS system.	ITV-S *14	0	0	0
Operation by Emergency Power Source – Completed	A CP signal is outputted after the operation by emergency power source is completed.	OEPS-CP*15	0	0	0
Overload Indication in Car	When the elevator is overloaded, the overload indicator lamp illuminates.	OLHL	0	0	0
Out-of-Service Indication	Indicate the elevator is out of service on the hall.	RESL*3	0	0	0

### Note:

- \*1 Only one of AAN-S01/S02/S03 can be selected at most.
- \*2 Only one of AECC and AECH can be selected.
- 43 Hall function lights including AUTL, BPL, EXCL and RESL cannot be more than 2; EXCL is optional when VIP-S is available.
- \*4 Standard when ABP or BP is provided.
- \*5 Standard when HE-B is provided.
- \*6 Output signals are UP, DOWN, integrated fault, landing station code signals. The output signal terminals are in the control cabinet in the machine room. Output modes are dry contact and RS485 series communication.
- \*7 Standard when DKO-TB is provided.
- \*8 See EMIDS Product Specifications LEHY-PS1; specify the size, installation position and method (external, embedded or wall-mounted) of LCD; if there are two LCDs, specify whether they display the same content at the same time or display different content. Default configuration: the display interface is "Full screen", and the material of external LCD is hairline-finish stainless steel and that of wall-mounted LCD black acrylic.
- \*9 See EMIDS Product Specifications LEHY-PS1; specify the size, installation position and method (external LCD is hairline. Default configuration: The display interface is "Full screen", and the material of external LCD is hairline-finish stainless steel and that of wall-mounted LCD black acrylic. The floor where the LCD is installed is the main service floor.
- \*10 Standard when FE is provided.
- \*11 Optional when FE is provided.
- \*12 Standard when FER is provided.
- \*13 The customer is responsible for the cables from the machine room to the monitoring room and their installation.
- \*14 Select ITV-A, ITV-D or ITV-S. When ITV is configured, confirm with the customer about who is responsible for cabling.
- ITV-A: The customer is responsible for coaxial cables at the control panel side of the machine room from the monitoring room. The car and the machine room have interfaces of coaxial cables to connect analog video devices.
- ITV-D: The customer is responsible for the Ethernet at the control panel side of the machine room from the monitoring room. The car and the machine room reserve Ethernet ports to connect digital video devices.

  IVTS: Confirm the camera is analog or digital in SmartEye contract.
- If not included in the above specifications, specify it on the non-standard confirmation form.
- \*15 Optional when OEPS-SA is provided.

### **Door Operating Features**

●:Standard, ○:Optional

Feature	Description	Code	1C- 2BC	2C- SM21	2C~4C- ITS-21
Light Curtain Protection	Light curtain protection with multiple light beam.	AMS *1	0	0	0
Door Close Limit Switch on Start	When the car doors can not close completely, they will reverse and open.	CLTS	•	•	•
Double Door Operation	When car doors are in open state, if there is no car call and landing call in forward direction and the landing call in reverse direction of this floor has been registered, the car doors will close and then immediately open again.	DDOP	•	•	•
Extended Door-open Button	Press and hold this button can extend door-open time.	DKO-TB *2	0	0	0
Door Load Detect	If the car doors cannot fully open or close due to overload, the doors will act in reverse direction.	DLD	•	•	•
Not Door Open Feature	If car doors are blocked while opening, they will close immediately.		•	•	•
Automatic Door-open Time Adjustment	Automatically adjust door-open time according to landing calls or car calls.		•	•	•
Door Close Torque Up Control	When car doors encounter extra resistance while closing, the door system will automatically increase the torque. After the car has stopped at a station and the doors has opened, pressing Close button can make the doors to close immediately.	DTC	•	•	•
Expediting of Door Close	By pressing the Door Close button, the Door Closing Operation is immediately activated, and thus the traffic efficiency is improved.		•	•	•
Multi-beam Safety Edge	Safety edge with multi-beam. Provide double protection by multi-beam and safety edge. During door closing, when a passenger or object is detected, the doors will open again.		0	0	0
Door Nudging Feature - with buzzer	r If the door-open time exceeds the predetermined value, it will give alarm sound to alert the passenger and try to close the doors.		0	0	0
Repeated Door-Close	If car doors are blocked while closing, the elevator will repeat the closing action until the debris is removed.		•	•	•
Reopen with Hall Button	During door closing, when hall calling button in the same direction is pressed, the doors will reopen.		•	•	•

### Note.

- \*1 AMS, MBS must choose one.
- \*2 Standard when HE-B is provided.
- \*3 Optional when AAN is provided.

### **Group Control Features**

●:Standard, ○:Optional, —:Not applicable

Feature	Description	Code	1C- 2BC	2C- SM21	2C~4C- ITS-21
Bank Separation Operation	Separate landing buttons into several groups and provide independent group control, and each group has its own hall calling button.	BSO *1	-	_	0
Congested-Floor Service	When temporary congestion occurs due to meeting or other events, the system will try its best to arrange cars to the congested floor.	CFS *2	_	_	0
Down Peak Service	During the predetermined off-hour, elevators are continuously sent o the top floor to meet the needs of off-hour peak traffic congestion.	DPS	_	_	0
Special Floor Forced Stop	Cars passing a certain floor are forced to stop at this floor.	FFS *3	0	0	0
Lunch Time Service	Car assignment can be adjusted to favor canteen or restaurant floor to accommodate the high demand during lunch time.		-	_	0
Main Floor Parking	When there is no landing call or car call, the car returns to main floor and parks there.		0	_	_
Strategic Overall Assignment	For group control elevators, the cars park dispersedly at the main station and middle floor.		_	•	•
Prevention of Simultaneous Running	This feature prevents simultaneous running within rapid running region of elevators installed in the same well to boost noise in the car.	car. PRS —		-	0
Peak Traffic Control	To alleviate temporary peak traffic, heavy traffic floors (top floor or main floor) will be given priority service.	PTC		_	•
Main Floor Changeover Operation	Main floor can be changed by pressing the Changeover switch.		0	_	0
Up Peak Service	Ouring the predetermined work hours when the up traffic from the main floor is specially heavy, elevators are continuously sent to the main floor meet the needs of up peak traffic.		_	_	0
VIP Service	A specified car can be withdrawn from group service for special VIP service.	VIP-S*6 — —		_	0

### Note:

- \*1 Bank Operation Service switch is provided by the customer. SMEC provides the port for the switch in the control panel. Specify the group on the non-standard confirmation form.
- \*2 Specify the name of congested floor.
- \*3 Specify the name of Forced Stop Floor.
- \*4 Specify the name of lunchtime service floor.
- \*5 The changeover switch is provided by the customer. SMEC provides the port for the switch in the control panel. Specify the name of the second main floor on the non-standard confirmation form.
- \*6 Specify VIP Car No and VIP standby floor on the non-standard confirmation form. The floor to install VIP switch is VIP standby floor by default.

# **Basic Specifications**

# Inquire by Scanning QR Code of ELeCivil

Item	Specification	ons	Notes
Speed(m/s)	1.0	1.75	
	630	630	
Capacity(kg)	825	825	
	1050	1050	
Max Num. Stops	18	28	
Lifting Height TR (m)	3.4~55	7.3~80	
Operation Mode	1C-2BC, 2	C-SM21, 2~4C-ITS-21	
Control Mode	VFJ-L		Optional when the group control method is 2C~4C~
Roping	2:1		ITS-21.
Traction Machine	PM synchr	onous traction machine	
Support mode of			
the traction machine	supported	by guiderails	
Machine room	top of hoist	way (machine-room-less)	
Door Opening Made	Center ope	ening	
Door Opening Mode	Two panel	sliding	
Door drive mode	VVVF (PM	door operator)	
Door Opening Type	1D1G		
Door Opening Type	1D2G/2D2	G	Standard
Dynamic Power	380V 50Hz	3 phases, 5 lines	Nonstandard
Lighting Power	220V 50Hz	Single-phase	
CWT Position	Side		
CWT Safety Gear	Not provide	ed, Provided	
Min. Landing Height	2800		Concrete nosing will be provided by the customer; HH=2100, HL=2200
(mm)	2600		Steel nosing will be provided by the Seller.  HH=2100, HL=2200
	-5~48, 1B,	2B, 3B, 4B, 5B, A, B, B1, B2, B3, B4, B5, B6, C, D, E,	1. When wall-mounted hall position indicator (ZPIx-GB10
Landing Display Range	G, G1, G2,	G3, GF, H, K, L, L1, L2, L3、LB, LG, M, M1, M2, M3,	/ZPIx-GB20) is used, D, K and T floors cannot be displayed
(Standard)	M4, M5, M6, MB, P, P0, P1, P2, P3, P4, P5, PB, PH, PL, PP, R,		When segment LCD is used, three-digit floor name
	R1, R2, R3,	S, S1, S2, S3, S4, S5, T, UB, UG	cannot be displayed (e.g. 12.1, 12.2, 22.1, 22.2, 13F).
	-5~48, 1B,	2B, 3B, 4B, 5B, A, B, B1, B2, B3, B4, B5, B6, C, D, E,	3. The display range of hall position indicator of one car can
Landing Display Range	G, G1, G2,	G3, GF, H, K, L, L1, L2, L3, LB, LG, M, M1, M2, M3,	only be included in Table A or Table B; if it is in both Table A
(Non-standard:	M4, M5, M6	6, MB, P, P0, P1, P2, 15A, 12.1, 12.2, 22.1, 22.2, 2A,	and Table B at the same time (some in Table A and some
out of the above scope)	19A, 1A, 13	F, 3F, F1, F2, 22A, RC, 4A, 15B, 13B, F, D1, D2, 1M,	in Table B), technical-confirmation is required.
	2M, 3M, 3A	, 5A, 12A, 12B, 13A, 23A, 16A, 16B, 17A	,,



# SMEC Layout Scan the QR code to find more

LEHY-MRL-II civil engineering dimensions:

Scan the QR code to perform the following:

Search elevator > Search hoistway by elevator type

> Machine-room > Select "LEHY-MRL-II" for elevator type

