上海三菱电梯有限公司
SHANGHAI MITSUBISHI ELEVATOR CO.,LTD.

www.smec-cn. com

上海三菱电梯
SHANGHAI MITSUBISHI ELEVATOR

Comprehensive upgrade, Innovation with breakthrough.
Lead new trend of compact machine room elevator.

LEHY-Ⅲ/LEHY-ⅢB

Compact Machine Room Passenger Elevator

Comprehensive Upgrade Innovation with Breakthrough

Founder of Comfort Elevator Technique

LEHY-III inherits the outstanding performance of LEHY-II, leads the new trend of compact machine room elevator in the future with breakthrough techniques and innovations. After the innovation of "Variable Voltage Variable Frequency (VVVF) Speed Regulating Control Technique" and "Permanent Magnetic (PM) Synchronous Traction", Shanghai Mitsubishi promotes new generation of LEHY-III series compact machine room elevator. LEHY-III adopts multiple nationwide or worldwide advanced techniques, standing a new banner focusing on safety、comfort and technology.

Advanced Intelligence

Unparalleled Comprehensive Upgrade
Inheriting the technique advantage of last generation LEHY series compact machine room, LEHY-III introduces various advanced technologies: 5 breakthroughs, 6 innovations.

Economic Technology

Energy-efficient and Environment Friendly, Last to the Future
Use fresh-new gearless traction machine driven by PM motor, comprehensively upgrades the system efficiency, meanwhile it lowers the energy consumption; based on double PWM modulated energy feedback technique, lowers pollution and energy consumption simultaneously, lead the green future.

Human Oriented

Unprecedentedly Comfort Experience
Utilize advanced artificial intelligence, achieve unprecedented precise and comfortable riding; various luxury decoration components and multiple new materials are available, and it is also possible to provide our clients the customized system.
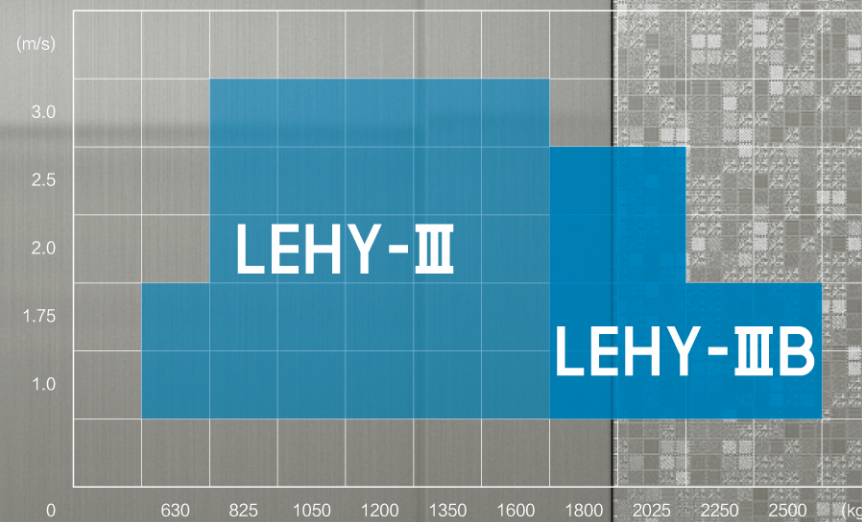
LEHY Series
LEHY-III
Compact Machine Room
Passenger Elevator

上上下下的享爱

New benchmark in safety, comfort, energy-efficiency and technology for the elevator industry.

Significantly improve the cost-efficiency and competiveness of products.

Utilization

(m/s)

3.0
2.5
2.0
1.75
1.0

0   630 825 1050 1200 1350 1600 1800 2025 2250 2500 (kg)

LEHY-III

LEHY-IIIB

LEHY-Ⅲ

Breakthroughs and Innovations

Energy-saving, Comfort, Efficient, Reliable
Full Digital Control Technology

Traction Machine Absolute Upgrade
Efficiency, Less energy Consumption, Peaceful and Stable
Compact structure, Reliable, Durable

Innovative Technology
Reliable and Comfortable, Green and Energy-saving
High-speed Network

Intelligent Man-machine Interaction
Water ion air conditioner and water ion fan
Intelligent Call System
New Intelligent Hall Lanterns
Pet Reminder Function
Intelligent Voice Call

Really Small Machine Room Design
Freely use valuable building space

All-digit Intelligence Power System

It utilizes all-digit control intelligent DC-DC power as the substitution for three-phase power transformer to provide power for elevator control system. New power system is not only more stable and reliable, invulnerable to grid fluctuation, but also consume less energy, with higher efficiency and more comprehensive protection.
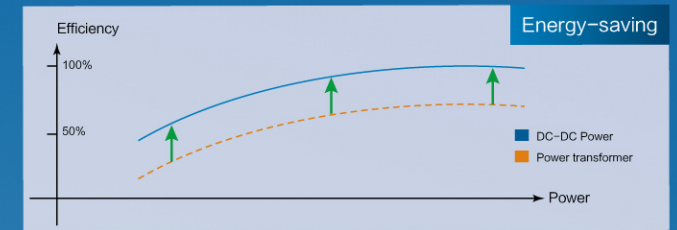
Mute Brake Control Technology

Compared to traditional open-loop voltage control, more accurate closed-loop current control mode is now employed to control the action speed and braking torque at all stages of the brake. This has remarkably reduced the noise from the brake during action and improved the comfort of the passengers while taking the elevators.
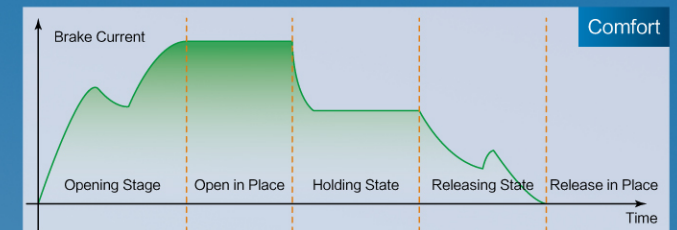

High-performance and Intelligent CPU Control System

Apply new generation of high-performance CPU technology and PCB system architecture and realize elevator's main control system with multi-chip architecture of motor drive, elevator control management, elevator communication and FPGA logic control. Cooperation work of multiple CPUs has greatly improved the elevator system performance. The redundancy protection with multiple CPUs and the FPGA hardware monitoring have improved system stability and security.

The Latest Generation of High-power Module

Take the lead in employing the sixth generation of high-power module system in the industry. Multiple fast protection circuit can better protect the power module, further improving the reliability of the drive system. Meanwhile, the drive control circuit of power module connects with the power module by direct plugging, further enhancing the system's anti-jamming ability.
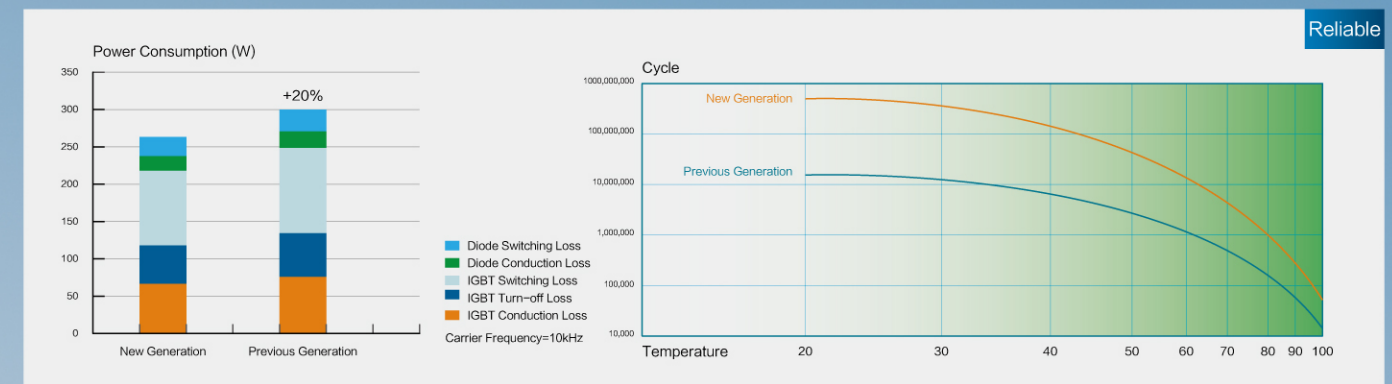
Traction Machine Absolute Upgrade

The new generation PM synchronous traction machine with high performance uses high quality rare earth material and PM body positioning technique with high precision, meanwhile it comprehensively uses motor techniques such as separate punching and riveting iron core and auto integral coil, which not only makes traction machine output more efficiency、less energy consumption、more peaceful and stable, but also makes traction machine has shorter axle distance and more compact structure; The latest large−scale brake plate and disk brake with low noise are adopted, which are safer 、more reliable and more durable, ensuring that brake noise can be significantly reduced while outputting brake torque with abundant safety.
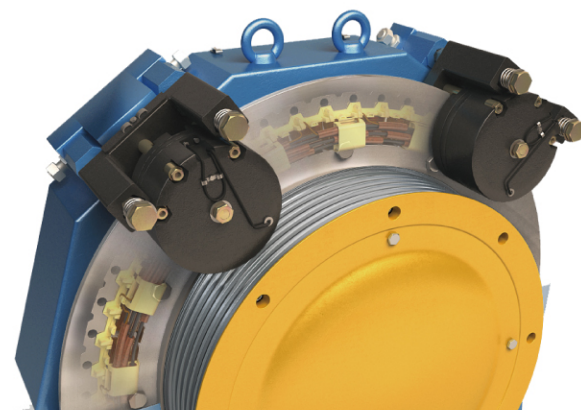
Sophisticated Technology and Wide Recognition
Inherit the sophisticated traction machine technology of flagship products
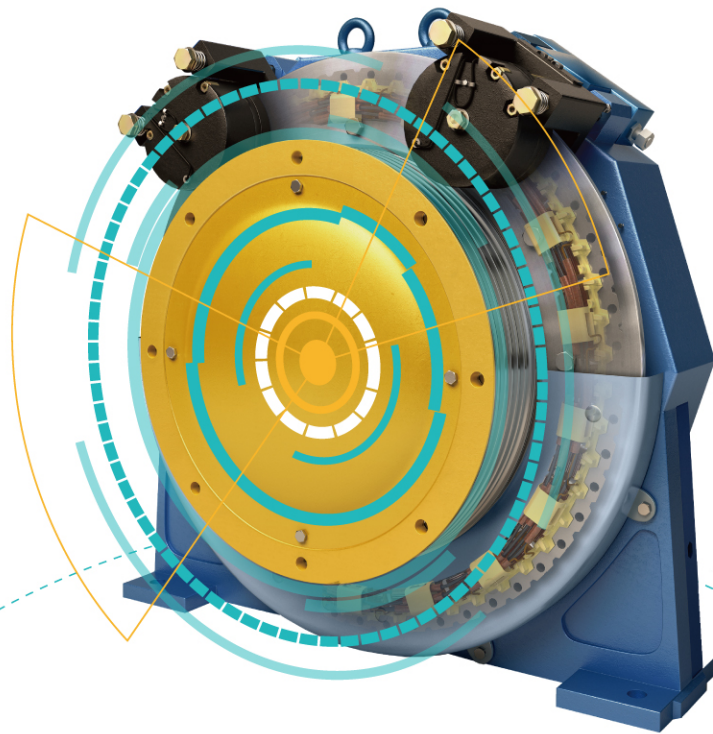
Extend the Specifications of Traction Machine
Meet the new specifications
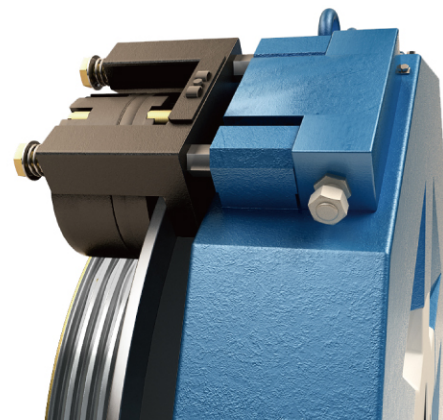
Evolved from Japan's Mitsubishi Technology
Some traction machines adopting the structure of joint−type stator core

Reliable and Comfortable−AC VVVF Speed Regulation Control Technology, Full Digital Control Technology

Adhering to the philosophy of steadily and slowing releasing of profound knowledge and constantly using latest technologies and components in VVVF drive of elevators enable Shanghai Mitsubishi VVVF speed regulation technology to develop rapidly toward high performance, high reliability, digitization and miniaturization. Employing space vector pulse width modulation (SVPWM) technology to realize elevator speed regulation, taking the lead in adopting international latest sixth generation of high−power module, 32−bit high speed digital signal controller (DSC) and large scale integrated circuit and other advanced electrical components, enabling the elevator to accurately regulate the motor rpm completely according to optimum speed variation curve and operate following the perfect speed curved optimized according to modern ergonomics principle. These have realized full digital control and motor drive in true sense and enabled the elevator run smoothly, safely and efficiently.
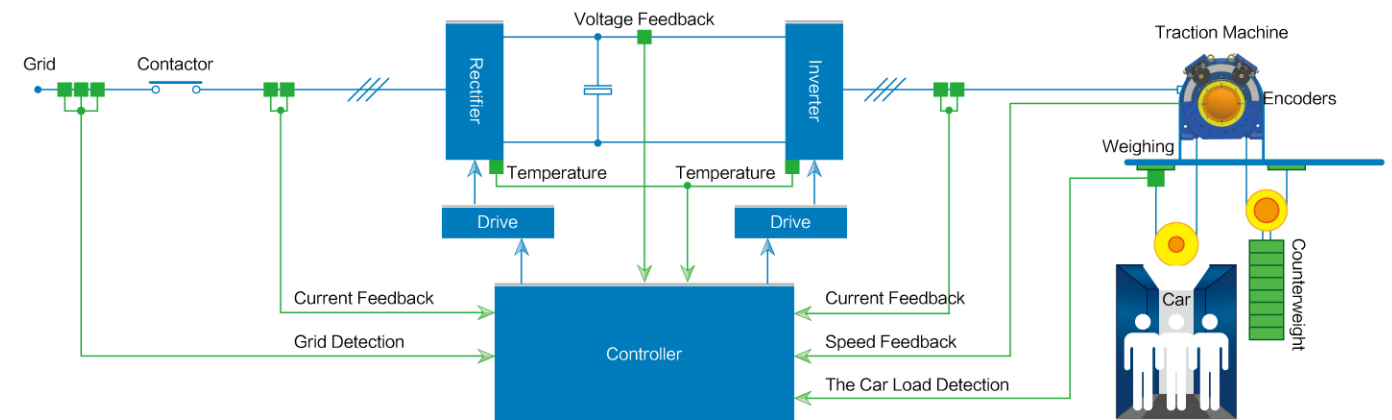
Green and Energy−saving−Energy Feedback Technology (Optional)

Highly energy−saving energy feedback technology based on dual−PWM control can feed the renewable green electric energy, which was consumed through energy consumption resistors, back to the grid without pollution. This can save more than 30% energy compared to common VVVF elevators on average, and so to meet relevant national power quality standards.
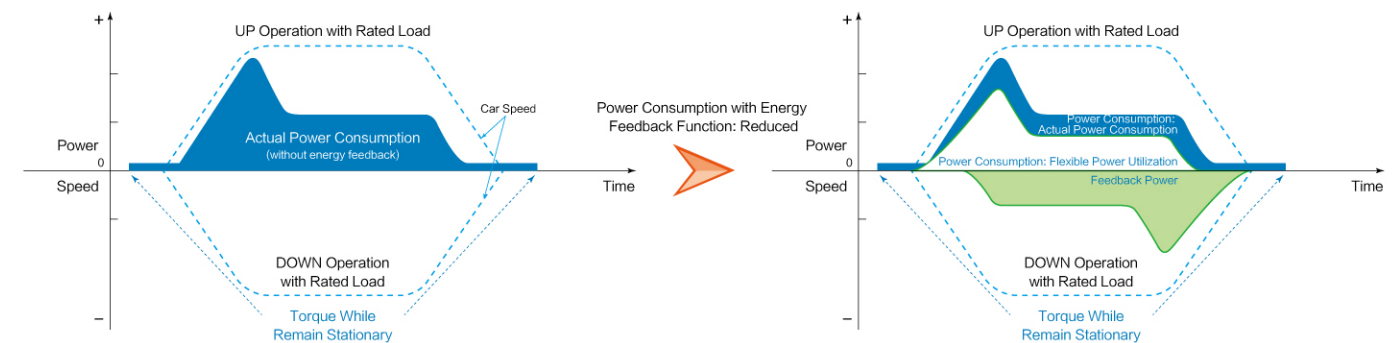
High−speed Network−Data Network Control Technology

Data network control technology based on CANBUS (Field bus) features high communication rate, large data volume. Independent microprocessors are used separately in elevator car command controller, floor indicators inside the car, door machine controller, each landing button and floor indicators and various subsystems. The communication between the various subsystems needs only a few signal lines. This has greatly improved system reliability, electromagnetic interference immunity and flexibility, and reduced the maintenance costs.
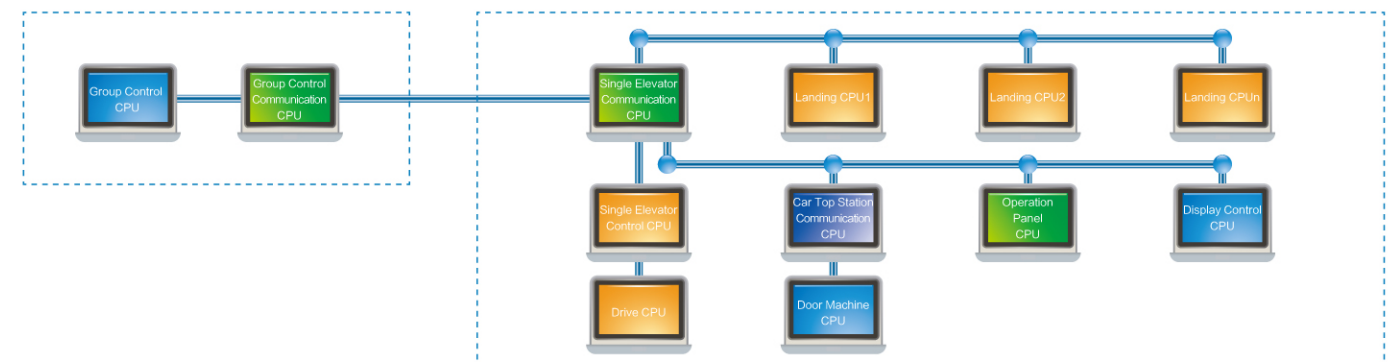
Water Ion Air Conditioners and Fans (optional)

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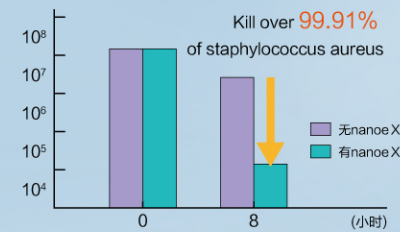· Fan speed can be adjusted according to the load: The fewer the number of passengers is, the slower and the quieter the fan is.
· Fan speed can also be adjusted from a mobile app.

Concentration of bacteria
cfu/Gauze

Kill over 99.91%
of staphylococcus aureus

无nanoe X
有nanoe X

Number of virus infections
cfu/Gauze

Kill over 99.96%
of bacteriophage viruses
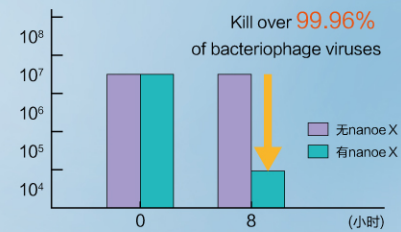
无nanoe X
有nanoe X

Introduction to nanoeTM X Technology
· nanoeTMX are water−wrapped nano−sized particles, which can kill the attached bacteria and viruses by denaturing their protein.
· The eight−hour nanoeTM X test in a 23.3 m3 lab has proved that, nanoeTMX can kill up to 99.91% of Staphylococcus aureus.
· The eight−hour nanoeTMX test in a 23.3 m3 lab has proved that, nanoeTMX can kill up to 99.96% of bacteriophage.
· nanoe, nanoeTMX, nanoe label, and nanoeTMX label are trademarks of Panasonic Corporation

nanoe

New Intelligent Hall Lanterns (optional)

Adaptive Voice Function
Adjust volume according to the environment to remind passengers of car arrival properly even in a noisy environment.

Adaptive Brightness Function
Adjust brightness according to the environment to provide users with bright but not dazzling light.
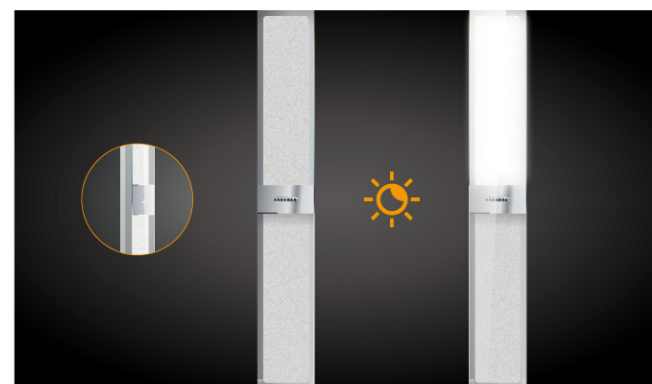
Pet Reminder Function (optional)

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.
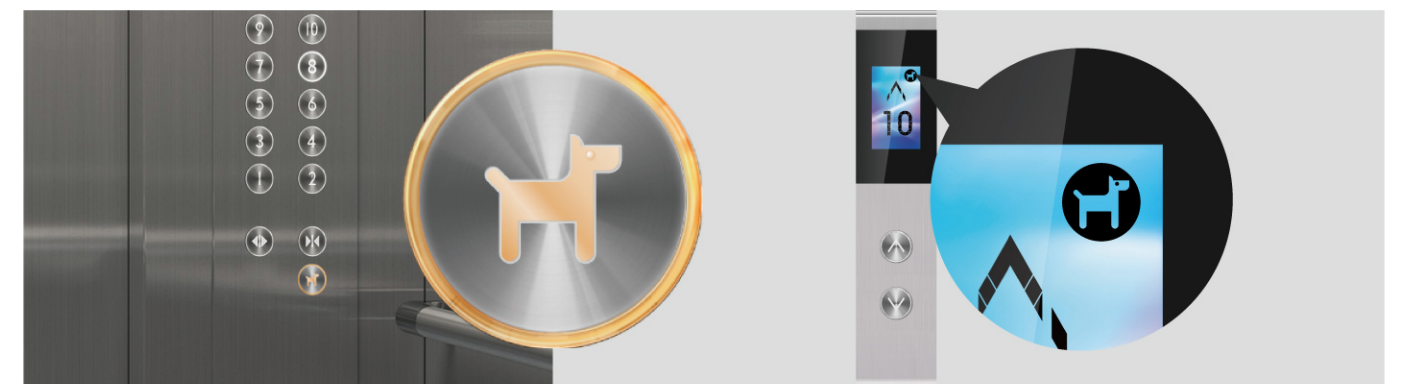
High Adaptability—Really Small Machine Room Design

LEHY−III adopts really small machine room design with the machine room size equal to shaft. This saves machine room space, improves building utilization rate, allows more free building design, and compared to traditional machine room, provides more convenient and safe maintenance of the traction machine, control cabinet, over speed governor and other components.

Save Machine Room Space

Reduce height and area reduction

Freely use valuable building space

Efficient Group Control—Intelligent Group Control System (Optional)

ITS−21, ITS−2100 group control systems use a high−performance CPU processor for computing and achieving high−speed processing of complex algorithms. High−speed data network has effectively improved the system throughput and scalability. Expert system, fuzzy logic technology and neuron technologies are adopted. Dispatching plan can be given in an intelligent way according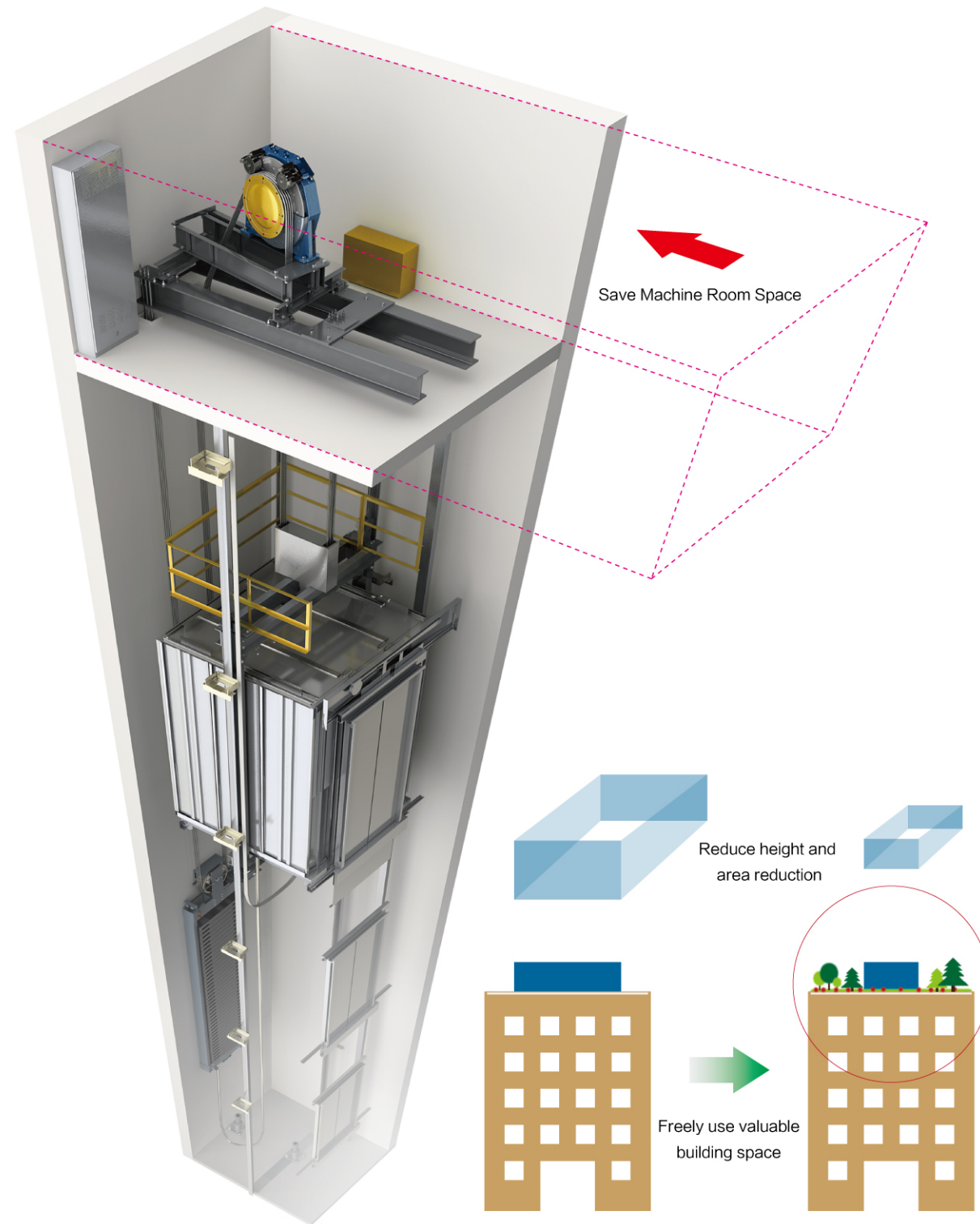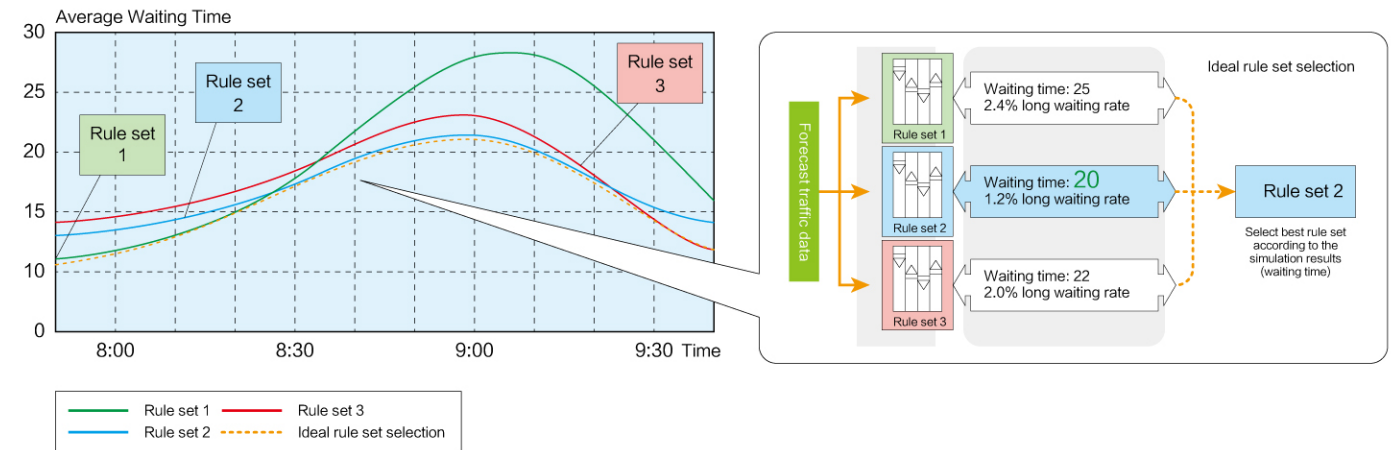 to different traffic conditions. This can substantially reduce passengers' waiting time and riding time and reduce elevator operation energy consumption throughout the building by reducing invalid elevator operation.

Average Waiting Time

Rule set 1
Rule set 2
Rule set 3

Forecast traffic data

Rule set 1
Waiting time: 25
2.4% long waiting rate

Rule set 2
Waiting time: 20
1.2% long waiting rate

Rule set 3
Waiting time: 22
2.0% long waiting rate

Ideal rule set selection

Rule set 2
Select best rule set according to the simulation results (waiting time)

Rule set 1 — Rule set 3
Rule set 2 — Ideal rule set selection

8:00   8:30   9:00   9:30   Time

Innovation—Destination Oriented Allocation System (Optional)

Allocate the cars according to the destination floors of passengers.

Destination Oriented Allocation System (DOAS) can greatly improve the utilization of elevators and shorten average passenger wait time. When a passenger has registered the destination floor on the hall operating panel, DOAS will inform the passenger of the car allocated and the passenger can go and wait there. When the elevator has arrived, the passenger does not need to press the button in the car, because the elevator has registered the call automatically and will carry the passenger to the destination floor.

2   9   12 38 51 60

Passengers arrive at the hall
Register the destination floor on any hall operating panel

Register the destination floor on the hall operating panel.

Destination floor allocation system informs passengers of the allocated car
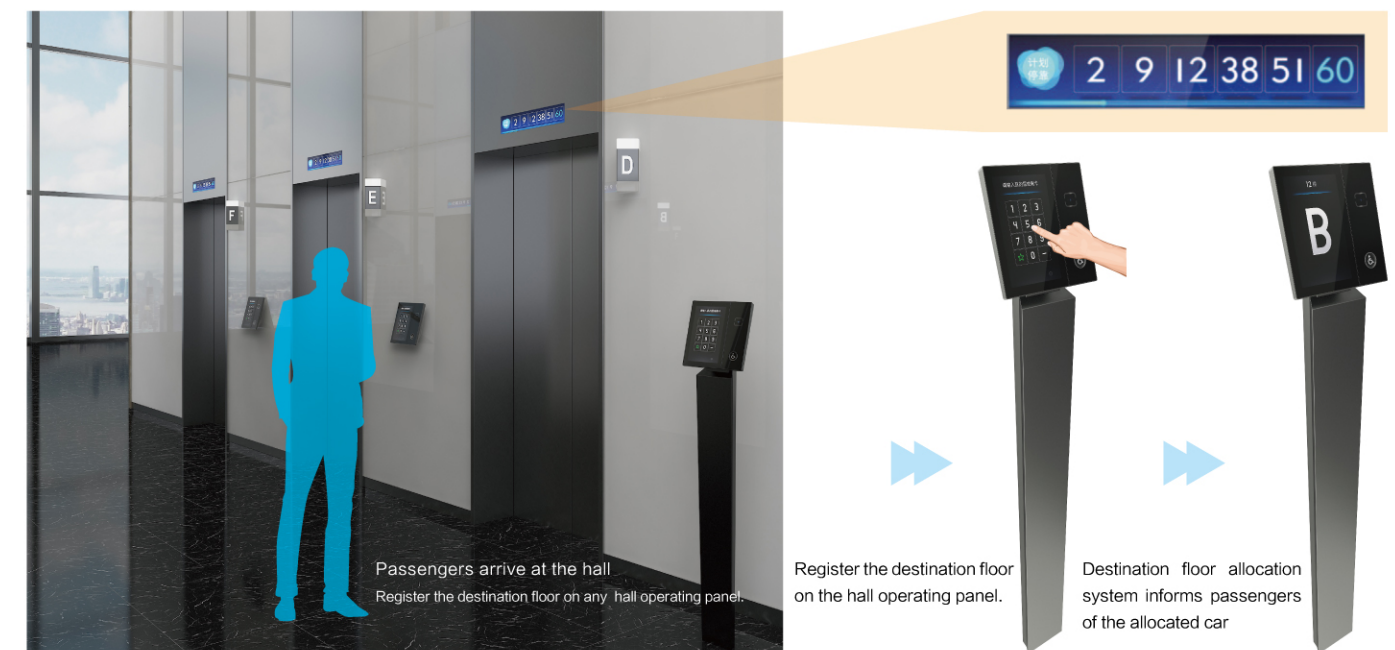
New-Generation Decoration Options

The general decoration options are applicable to the entire LEHY elevators of SMEC, including LEHY-Pro, LEHY-III, LEHY-M-II, and LEHY-H. With adequate preliminary research and requirement collection and analysis, configurations for the newly-developed decoration options have been greatly improved in flexibility and availability and provide customers with a rich selection of different grades and styles.

Newly-Designed Integrated Car Applicable to Various Architectural Styles

Residential buildings   Office buildings   Hotels   Villas
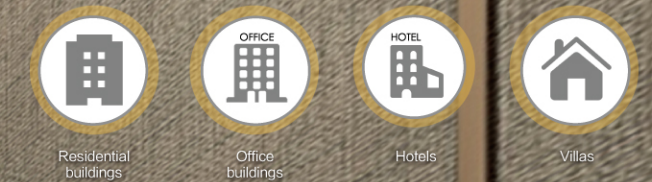
The newly-designed integrated car is applicable to most buildings, with a range of available styles to meet customer needs:
- No additional decoration layer, saving space and cost;
- One-time delivery, saving time and effort; and
- OEM quality, safe and hassle-free.

General Decoration

Easy-to-Install Wall-Mounted Hall Call (Except Top Floor)

Bottom-box-less hall call can be installed into a small round opening on the wall, which is easier and faster to install.

Wall Opening
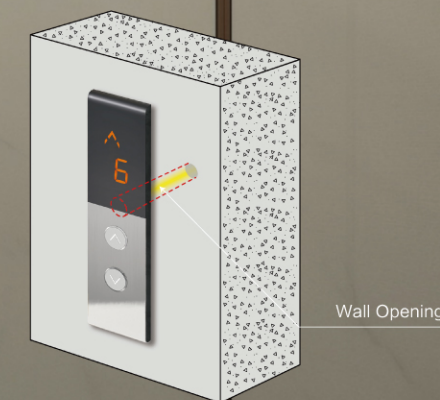
Energy-saving and LED Lighting

LED lighting is used on ceilings, operating panels, and hall position indicators. Compared with conventional lighting fixtures, LED lighting is more energy-saving, greener, and more durable, significantly reducing the cost of usage and maintenance.
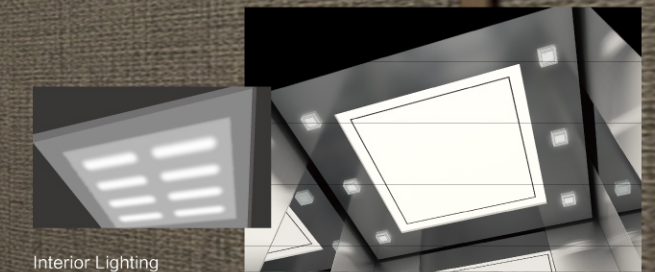
Interior Lighting

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.

Classical and Durable Button Design

New buttons are more durable, offering a lifespan of 5,000,000 clicks. Their specially-designed reinforced stainless steel button caps use an anti-drop hook design.
(The button can still function properly when a 1 kg ball falls from a height of 0.5 m and hits the surface of the button three times. This is above the requirements for Category 1 elevators as stated in EN 81-71.)

Anti-falling Hook Design
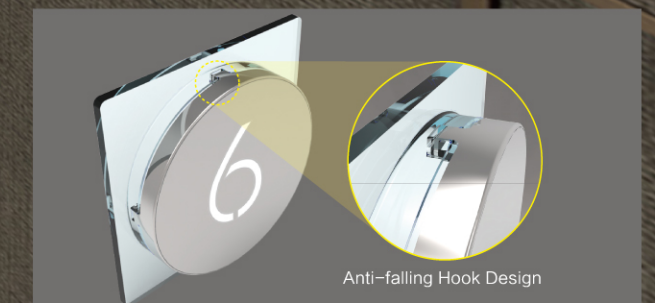
LEHY-Ⅲ

Integrative Car Design

Advantages offered by original Shanghai Mitsubishi design

Original design	Quality assurance	Time and effort saving	Safe and secure

1. Elaborate design and professional calculation

Specialized design solutions are provided for various types of buildings, with a wide selection of design styles available. The car weight is strictly calculated to prevent it from exceeding the allowed limit when customers redesign the car on their own.

2. Complying with standards and safe & secure

Materials used for car design are in strict conformity with the fire-resistance rating requirements stated in GB 7588, so as to prevent safety risks caused by materials used for customers' redesign.

3. Strict testing and long-lasting quality

Materials, processes and lighting fixtures used in original Mitsubishi design have undergone strict reliability tests, which can better guarantee the quality as compared with the quality displayed when customers redesign the car on their own.

Remark:
1. Car dimensions of the sample elevator: AA = 1600 mm, BB = 1500 mm, HH = 2100 mm, HL = 2400 mm.
2. Ceilings, floorings, handrails, and operating panels are available in other models. See the Material Mapping Table.
3. Front panels, transom panels, and car doors are available in other materials. See the Material Mapping Table.
4. Exquisite Car: integrated design with quality assured
5. Luxury Car: a rich selection of materials; atmosphere rendering technique; superior quality

ZCD-020X

Ceiling
ZCL-GS17

Rear wall
Two sides: Stainless steel, mirror-finish
Central: Etched and painted stainless steel, mirror-finish (ZHF-005)

Side wall
Two sides: Stainless steel, mirror-finish
Central: Etched and painted stainless steel, mirror-finish (ZHF-005)

Handrails
Round stainless steel handrails (ZYH-RH05)

Flooring
Marble flooring (ZSC-012)

Scan the QR code to view the real-image of the car

ZCD-022X

Ceiling
ZCL-GS08

Rear wall
Two sides: Laminated steel sheets (ZYM-016)
Central: Etched and antique copper stainless steel, hairline-finish (ZHF-002)

Side wall
Two sides: Titanium plated stainless steel, mirror-finish (ZDT-006)
Central: Etched and antique copper stainless steel, hairline-finish (ZHF-002)

Handrails
Round stainless steel handrails (ZYH-RH05)

Flooring
Marble flooring (ZSC-014)

Scan the QR code to view the real-image of the car

The picture is a schematic rendering. The size and appearance may vary according to actual specification and configurations.

ZCD−039T

Ceiling
ZCL−GS18

Rear wall
Two sides: Titanium plated stainless steel, mirror−finish (ZDT−004)
Central: Laminated steel sheet (ZTM−056)

Side wall
Laminated steel sheet (ZYM−018)

Handrails
Round stainless steel handrails (ZYH−RH05)

Flooring
Marble flooring (ZSC−014)

Scan the QR code to
view the real−image
of the car

ZCD−040T

Ceiling
ZCL−GS18

Rear wall
Two sides: Random pattern titanium plated stainless steel (ZDT−506)
Central: Brushed titanium plated stainless steel (ZLS−002+ZDT−001)

Side wall
Two sides: Random pattern titanium plated stainless steel (ZDT−506)
Central: Brushed titanium plated stainless steel (ZLS−002+ZDT−001)

Handrails
Round stainless steel handrails (ZYH−RH05)

Flooring
Marble flooring (ZSC−014)

Scan the QR code to
view the real−image
of the car

ZCD−021X

Ceiling
ZCL−GS22

Rear wall
Two sides: Laminated steel sheets (ZYM−001)
Central: Etched titanium plated stainless steel, mirror−finish
(ZHY−027+ZDT−001)

Side wall
Two sides: Titanium plated stainless steel, hairline−finish (ZHY−028+ZDT−001)
Central: Laminated steel sheets (ZYM−001)

Flooring
Marble flooring (ZSC−013)

Scan the QR code to
view the real−image
of the car

ZCD−022T

Ceiling
ZCL−GS22

Rear wall
Sandblast titanium plated stainless steel, mirror−finish
(ZPS−002+ZDT−001)

Side wall
Stainless steel, hairline−finish
Handrails
Round stainless steel handrails (ZYH−RH06)

Flooring
Marble flooring (ZSC−029)

Scan the QR code to
view the real−image
of the car

The picture is a schematic rendering. The size and appearance may vary according to actual specification and configurations.

ZCD−030G

Ceiling
ZCL−DN02

Rear wall
Two sides: Random pattern titanium plated fingerprint−resistant stainless steel (ZDT−505)
Central: Stainless steel, mirror−finish

Side wall
Random pattern titanium plated fingerprint−resistant stainless steel (ZDT−505)

Handrails
Round stainless steel handrails (ZYH−RH06)

Flooring
Marble flooring (ZSC−029)

Scan the QR code to
view the real−image
of the car

ZCD−025G

Ceiling
ZCL−GS06

Rear wall
Two sides: Stainless steel, hairline−finish
Central: Stainless steel, mirror−finish

Side wall
Two sides: Stainless steel, hairline−finish
Central: Stainless steel, mirror−finish

Handrails
Round stainless steel handrails (ZYH−RH06)

Flooring
Parquet PVC flooring (ZPH−034)
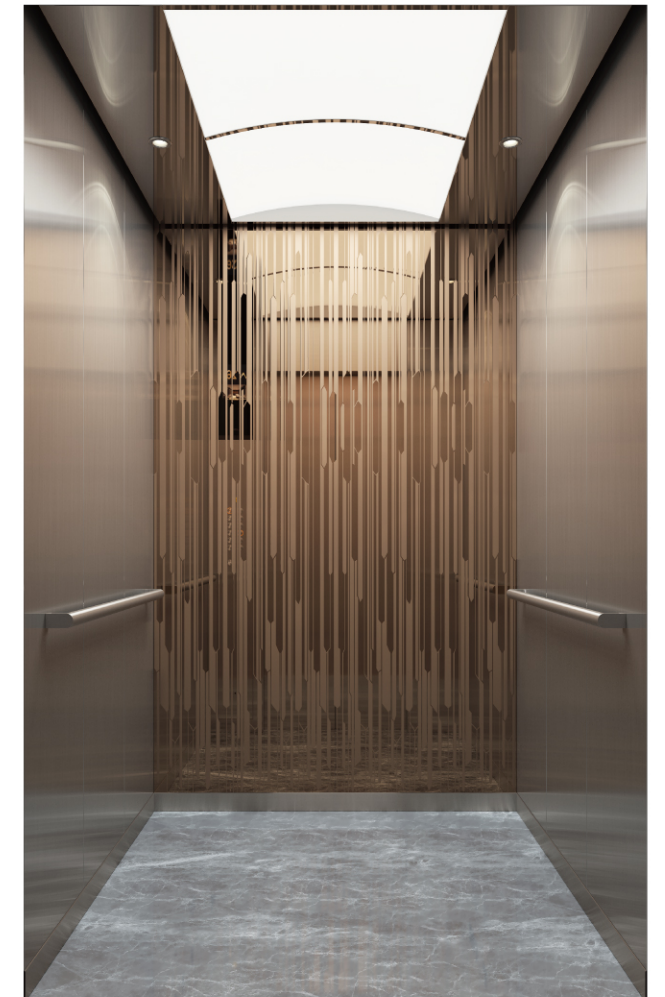
Scan the QR code to
view the real−image
of the car

ZCD−041T

Ceiling
ZCL−GN07

Rear wall
Two sides: Embossed stainless steel (ZYH−002)
Central: Stainless steel, mirror−finish

Side wall
Embossed stainless steel (ZYH−002)

Handrails
Round stainless steel handrails (ZYH−RH06)

Flooring
Marble flooring (ZSC−001)

Scan the QR code to
view the real−image
of the car

ZCD−042T

Ceiling
ZCL−GN07

Rear wall
Two sides: Laminated steel sheets (ZYM−020)
Central: Sandblast titanium plated stainless steel, mirror−finish (ZPS−003+ZDT−004)

Side wall
Two sides: Laminated steel sheets (ZYM−020)
Central: Titanium plated stainless steel, mirror−finish (ZDT−004)

Handrails
Round stainless steel handrails (ZYH−RH05)

Flooring
Artificial stone flooring (ZRZ−A03)

Scan the QR code to
view the real−image
of the car

Note: Technical confirmation is required when ZCD−036X, ZCD−031G, ZCD−032G or ZCD−033G is configured.

ZCD−036X

Ceiling
ZCL−GS18

Rear wall
Two sides: Titanium plated stainless steel, mirror−finish (ZDT−004)
Central: Marble and strips (ZSC−A27+ZYJ−004)

Side wall
Two sides: Titanium plated stainless steel, mirror−finish (ZDT−004)
Central: Café fabric finishes and strips (ZNH−001+ZYJ−004)

Handrails
Two−side mirror−finish titanium plated rectangular stainless steel handrails
ZYH−SH02 (ZDT−504)

Flooring
Marble flooring (ZSC−014)

Scan the QR code to
view the real−image
of the car

ZCD−031G

Ceiling
ZCL−GS21

Rear wall
Two sides: Titanium plated stainless steel, mirror−finish (ZDT−006)
Central: Glasses and strips (ZBL−009+ZYJ−001)

Side wall
Two sides: Titanium plated stainless steel, mirror−finish (ZDT−006)
Central: Laminated steel sheets and strips (ZYM−019+ZYJ−001)

Handrails
Round titanium plated handrails, hairline−finish, ZYH−RH05 (ZDT−506)

Flooring
Artificial stone flooring (ZRZ−A03)

Scan the QR code to
view the real−image
of the car

ZCD−032G

Ceiling
ZCL−DN02

Rear wall
Two sides: Titanium plated stainless steel, mirror−finish (ZDT−007)
Central: Glasses and strips (ZBL−010+ZYJ−003)

Side wall
Rear: Sand pattern titanium plated stainless steel (ZDT−507)
Central and front: Laminated steel sheets and strips
(ZYM−021+ZYJ−003)

Handrails
Two−side handrails ZYH−FH03L (ZYM−021+ZDT−503)

Flooring
Marble flooring (ZSC−A25)

Scan the QR code to
view the real−image
of the car

ZCD−033G

Ceiling
ZCL−GS21

Rear wall
Thin ceramic sheets and strips (ZRZ−A05+ZYJ−001)

Side wall
Laminated steel sheets and strips (ZTM−055+ZYJ−001)

Handrails
Two−side handrails ZYH−FH03 (ZTM−055+ZDT−506)

Flooring
Marble flooring (ZSC−A08)

Scan the QR code to
view the real−image
of the car

The picture is a schematic rendering. The size and appearance may vary according to actual specification and configurations.

LEHY-ⅢB

Car for Hospital Beds

ZCD−041T (Deep Car)

Ceiling
ZCL−GN07 UV sterilization ceiling, with UV sterilization lamp as a standard configuration
· Highly−efficient sterilization: At least 99% of Escherichia coli are killed.
· Double protection: Start only when the elevator sleep light is off and stop when infrared sensors detect passengers.

Car wall panels
Use Lattice patterned stainless steel to offer higher surface hardness and effectively prevent scratches when medical devices come in and out from the car.

Water ion fan and Water ion air conditioner
Thorough disinfection and sterilization with long−lasting effects to remove and dilute unpleasant odor.
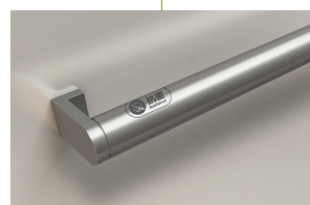
Round anti−bacteria stainless steel handrails
· Standard product appearance
· 99.99% of Staphylococcus aureus and Escherichia coli are killed within 24 hours.
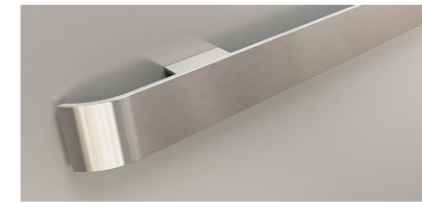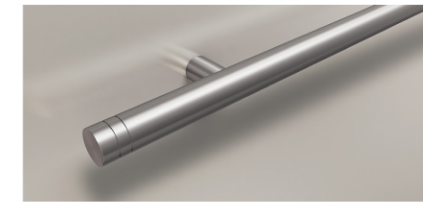· Non−toxic; passenger safety guaranteed

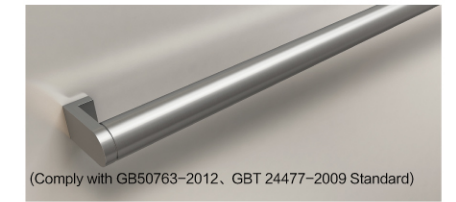Anti−bacteria button

Floating touch button

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

ZYH−RH05/RH05B
Stainless Steel Round Handrail

ZYH−RH06/RH06B
Stainless Steel Round Handrail
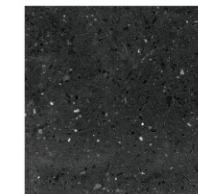(Comply with GB50763−2012、GBT 24477−2009 Standard)

Floor Material
Single−color real stone flooring is also available. See Decoration Color Code of Shanghai Mitsubishi Elevator for color codes.
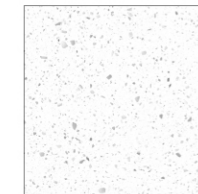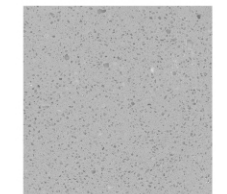
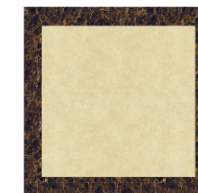### Artificial Stone Flooring
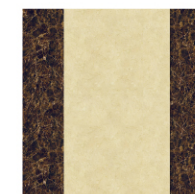ZRZ−A01 ZRZ−A02 ZRZ−A03 ZRZ−A04
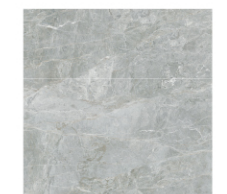
Marble Flooring
ZSC−001 ZSC−002 ZSC−011 ZSC−012
ZSC−013 ZSC−014 ZSC−016 ZSC−029

Parquet PVC Flooring
ZPH−032 ZPH−030 ZPH−028 ZPH−033
ZPH−026 ZPH−029 ZPH−034 ZPH−031
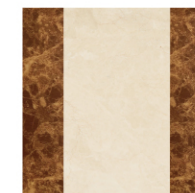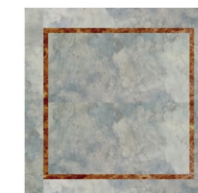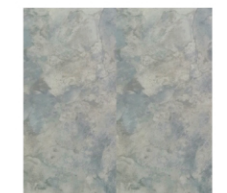
Material Correspondence Table

Item	Material	Remark
Car Wall and Car Door	Painted steel	Standard
	Film pressed steel, Metallic painted steel, Hairline stainless steel, Etched hairline stainless steel, Titanium−coated hairline stainless steel, Titanium−coated etched hairline stainless steel, Mirror stainless steel, Etched mirror stainless steel, Titanium−coated mirror stainless steel, Titanium−coated etched mirror stainless steel, Irregular−line stainless steel, Titanium−coated irregular−line stainless steel, Sand pattern stainless steel, Titanium−coated sand pattern stainless steel,	Optional
Mirror	Half−length glass mirror, full−length mirror−finish stainless steel mirror, full−length mirror	Optional
Handrail	1D/1G；None, rear wall, two−side walls, three−side walls 1D2G/2D2G；None, two side walls	Optional
Floor	Artificial Stone Flooring, Parquet Marble Floor, Parquet PVC Floor, PVC real stone, pattern−printed stainless steel, non−slip stainless steel	Optional
Car sill	Hard aluminum	Standard
Kickplate	If car walls are of common painted materials, coated steel sheets should be used; if not, hairline−finish stainless steels should be used.	Standard
Titanium plating color	ZDT−001 (rose gold), ZDT−002 (gold), ZDT−003 (black), ZDT−004 (champagne gold), ZDT−005 (light black), ZDT−006 (bronze)	Optional
Fingerprint−resistant titanium plating	ZDT−500 (natural color), ZDT−501 (rose gold), ZDT−502 (gold), ZDT−503 (black), ZDT−504 (champagne gold), ZDT−505 (light black), ZDT−506 (bronze)	Optional

Notes:
1. Single−color real stone flooring is also available. See Decoration Color Code of Shanghai Mitsubishi Elevator for color codes.
2. Standard marble flooring is marble composite aluminum honeycomb panel.
3. 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.

Design of Car Ceiling

ZCL-DN02 (Optional)

Lighting: Integrated direct lighting
Material: White translucent soft film, hairline-finish stainless steel frame
Thickness: 200mm

ZCL-GS21 (Optional)

Lighting: ambient floodlight lighting, central down light direct lighting
Material: central painted steel plate, Titanium-coated hairline stainless steel frame
two-side painted steel plate
Thickness: 200mm

ZCL-SS10 (Standard)

Lighting: central thin light guide panels; ambient lighting at two sides
Material: coating steel sheet
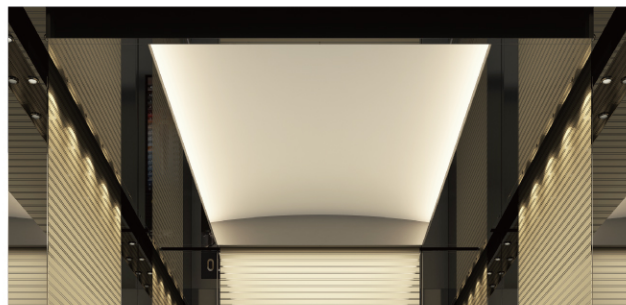Thickness: 100mm
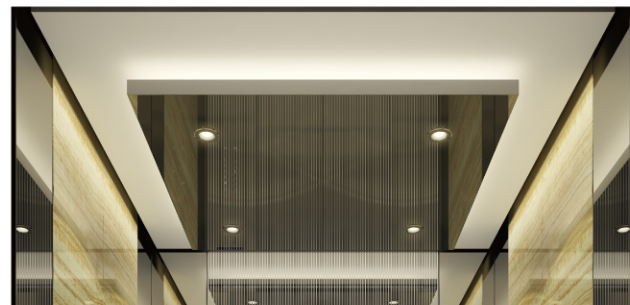
ZCL-SS07 (Standard)

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

ZCL-GS17 (Optional)

Lighting: two-side down lamp lighting, central floodlight lighting
Material: mirror stainless steel
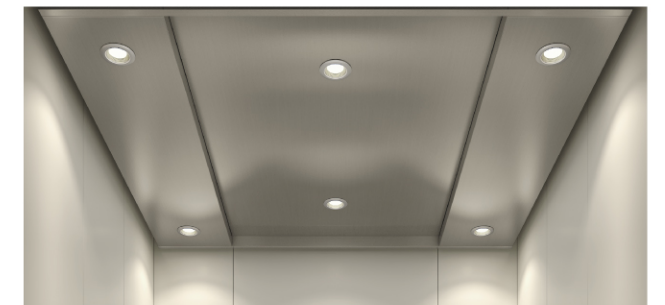Thickness: 200mm

ZCL-GS08 (Optional)

Lighting: ambient floodlight lighting, central down light direct lighting
Material: central mirror stainless steel, ambient Painted steel plate
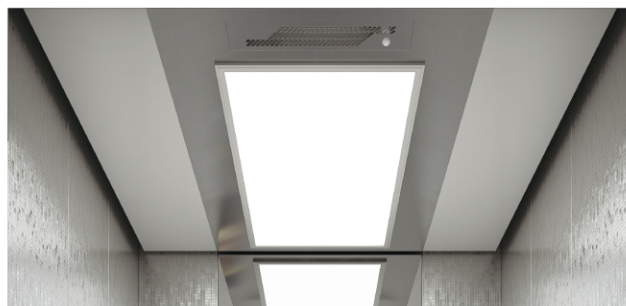Thickness: 200mm

ZCL-SS08 (Standard)

Lighting: central direct lighting
Material: central milk white printed lighting board, two-side coating steel sheet
Thickness: 200mm

ZCL-SS07S (Optional)

Lighting: down light direct lighting
Material: hairline stainless steel
Thickness: 100mm

ZCL-GN07 (Optional)

Lighting: direct lighting provided by central light guide panel
Material: central hairline stainless steel; two-side painted steel plate
Overall hairline stainless steel
Thickness: 100mm

ZCL-GS18 (Optional)
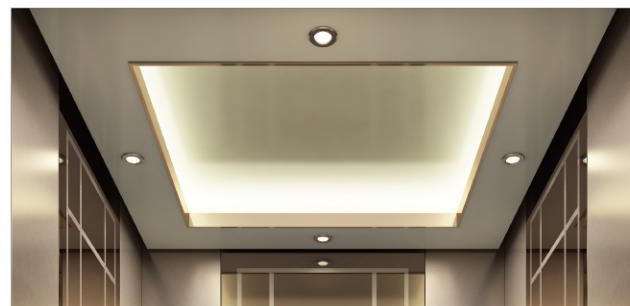
Lighting: central floodlight lighting, ambient down lamp lighting
Material: Coated steel sheets for ceilings at four sides;
mirror-finish titanium stainless steel for frames
Thickness: 200mm

ZCL-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-CN08 (S300) (Bare Ceiling)

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

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.
4. ☼ Intelligent LED lighting system

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-GS22 (Optional)
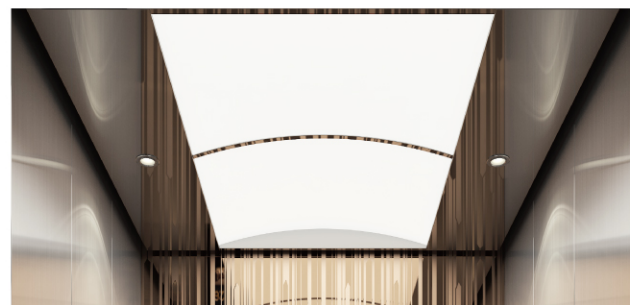
Lighting: central direct lighting; two-side down lamp lighting
Material: Central milky white arched lighting panel; two-side mirror stainless steel
Thickness: 200mm

Intelligent UV light Sterilization Lamp (Optional)

Effective and Powerful Sterilization
Operating on the surface of control box and handrail for 12min can kill over 99% of Escherichia Coli.
(data calculated by 1050 kg car)

Easy Installation and Modification
Screws are installed in holes drilled on the car ceiling and the power control lines on the lighting wiring terminal.
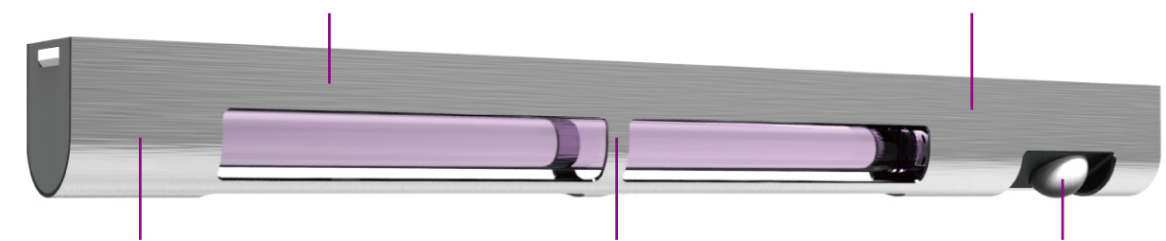
Appearance Design
The protective housing, mounted in side front of the ceiling in not abrupt way, can not only transmit light, but also protect the tube.

Functional Design
Users can switch between 'Normal' mode and 'Boost' mode, control the mode and power switch with a remote control. The indicator give indications of information like mode, fault, replacement of a tube, etc.

Dual Safety Protection
It start only the elevator entering sleep-mode and lighting is off and lighting lamp go out; it will shut down as soon as the infrared sensor detects any person.

The picture is a schematic rendering. The size and appearance may vary according to actual specification and configurations.

LEHY-Ⅲ

Human-machine Component

1. Full-height car operating panel
The car operating panel is of the same height as and integrated with the front return panel, looking splendid.

2. LCD touch screen operating panel
Industrial touch screen panel is used, offering stability and reliability. With a size up to 28 inches, it is visually stunning, and has a well-designed interface, bringing exceptional operating experience to users.

3. EMIDS
The new-generation EMIDS is longitudinally arranged, thus a larger display can be installed on a smaller front return panel. With a newly-designed black gold interface and brand new PI, it looks low key yet luxurious and dynamic.

4. Brand new PI
A brand new arrow shape is used in combination with the logo elements of SMEC and a free-flowing animation, contributing to the unique characteristics of SMEC's products.

SMEC logo + Common arrow → SMEC arrow

Full-height Operation Panel

Front Wall

Side Wall

High hardness resin display window

Orange Segment Display

High hardness resin display window

Orange Segment Display

The buttons are exchangeable. The figure shown is A12 button.

The optional buttons are A04, A05

High hardness resin display window

Yellow Segment Display

High hardness resin display window

8.4" Color segmented LCD Black text on a colored background

Physically toughened glass

10.4" TFT LCD, black gold interface

Physically toughened glass

10.4" EMIDS black gold interface (EMIDS)

Physically toughened glas

10.4" TFT LCD, black gold interface (Picture player) Resolution: 1280×800 (Support for image playback)

10.1 inch touch screen Resolution: 1280×800

The buttons are exchangeable. The figure shown is A12 button.

The buttons are exchangeable. The figure shown is A12 button.

The buttons are exchangeable. The figure shown is C14 button.

The buttons are exchangeable. The figure shown is C14 button.

The buttons are exchangeable. The figure shown is C14 button.

ZCB■-ND10 (Primary)
ZCB■ -ND60 (Auxiliary)
Front Wall/Side Wall

ZCB■-ND30 (Primary)
ZCB■-ND80 (Auxiliary)
Side Wall
Comply with GB/ T24477 Standard

ZCB■-ND11 (Primary)
ZCB■-ND61 (Auxiliary)
Front Wall/Side Wall

ZCB■-N612 (Primary)
ZCB■-N662 (Auxiliary)
Front Wall/Side Wall

ZCB■-N310 (Primary)
ZCB■-N360 (Auxiliary)
Front Wall/Side Wall

ZCB■-N710 (Primary)
ZCB■-N760 (Auxiliary)
Front Wall/Side Wall

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

Note:
1、For front return panel ≥ 250 mm, install the operating panel on the front return panel; for front return panel < 250 mm, install the operating panel on the side wall.
2、The symbol ■ refers to the button model. Please select it from the "Diversified button" page.
3、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、EMIDS can play multimedia information. Non-standard confirmation is required if customers wants to customize the interface.

The picture is a schematic rendering. The size and appearance may vary according to actual specification and configurations.

Integrated Operation Panel

Wheel Chair Operation Panel

Front-wall

Side-wall

The buttons are exchangeable. The figure shown is A14 button.

ZCB■-F011(Primary)/ZCB■-F061 (Auxiliary)

The buttons are exchangeable. The figure shown is A14 button. (Comply with GB/ T24477 Standard)

ZCB■-F131 (Primary)/ZCB■-F181 (Auxiliary)

Diversified Button

Basic Buttons

A11(White Light)
A12(Orange Light)
Diameter 35mm
Machinery Fine Motion
Flat Words
Standby Micro-light
Stainless Steel Surface

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

C14(White Light)
C15(Orange Light)
Square 35mm
Machinery Fine Motion
Protruded Words with Braille
Standby Micro-light
Stainless Steel Surface

Optional Button Styles

A71
Diameter 35mm, Floating Inductive Flat Text
Standby White Light, Light up the White Light
Flat Words, Mirror stainless steel Surface

A23
Diameter 35mm, Touch Sensitive
Standby White Light, Light up the Blue Light
Flat Words, CD Line Stainless Steel Surface

A81(White Ligh)t
A82(Orange Light)
Diameter 36.5mm
Machinery Fine Motion
Flat Words, Standby Micro-light
Stainless Steel Surface

A84(White Light)
A85(Orange Light)
Diameter 36.5mm
Machinery Fine Motion
Protruded Words with Braille , Standby Micro-light
Stainless Steel Surface

A27
Diameter 50mm
Machinery Fine Motion
Flat Words
Stainless Steel Surface

ZCB■-T611(Primary)
ZCB■-T661(Auxiliary)
The buttons are exchangeable.
The figure shown is A11 button.
(Configurable when front wall≥250)
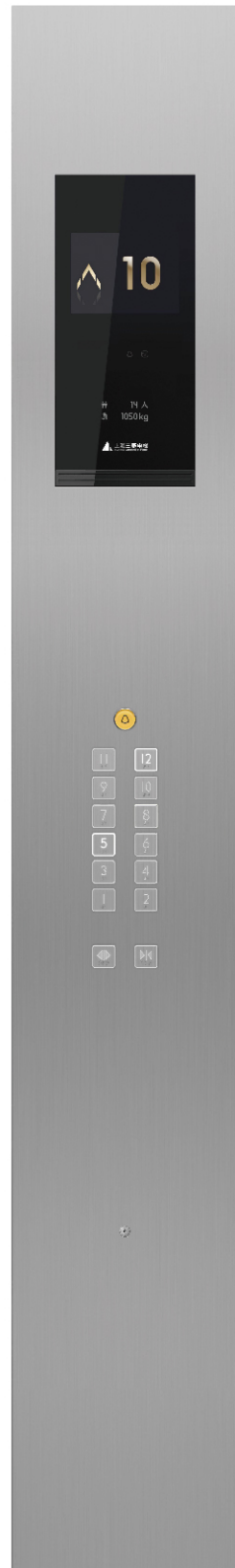
ZCB■-T311(Primary)
ZCB■-T361(Auxiliary)
8.4" TFT LCD,
black gold interface (EMIDS)
The buttons are exchangeable.
The figure shown is C14 button.
(Configurable when front wall≥250)
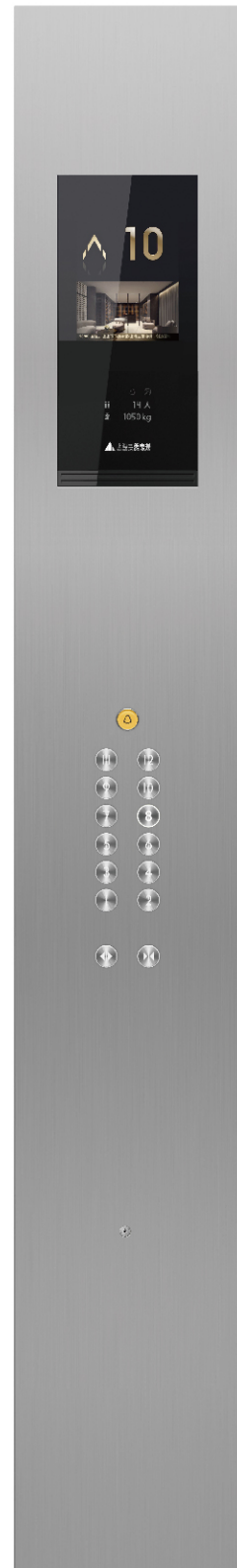
ZCB■-T711 (Primary)
ZCB■-T761(Auxiliary)
10.4" TFT LCD,
black gold interface (EMIDS)
Resolution: 1024×768
The buttons are exchangeable.
The figure shown is A11 button.
(Configurable when front wall≥250)
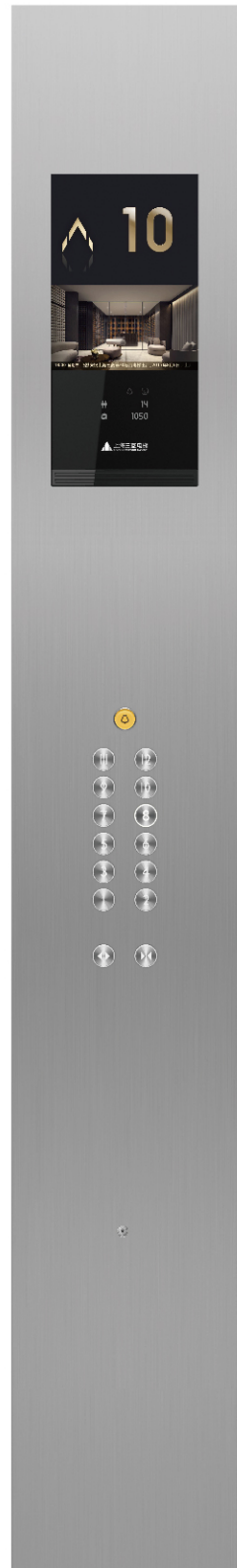
ZCB■-T811(Primary)
ZCB■-T861 (Auxiliary)
15" TFT LCD,
black gold interface (EMIDS)
Resolution: 1024×768
The buttons are exchangeable.
The figure shown is A11 button.
(Configurable when front wall≥350)

Suggested material of faceplate is titanium coated. Titanium coated mirror stainless steel ZDT-003 is shown on the picture.

Suggested material of faceplate is titanium coated. Titanium coated mirror stainless steel ZDT-006 is shown on the picture.

ZCBE15-T81C (Primary)
ZCBE15-T86C (Auxiliary)
15" TFT LCD
black gold interface (picture player)
Resolution: 1024×768
(support for image playback)
15.6 inch touch screen
Resolution: 1920×1080
(Configurable when front wall≥350)

ZCBE03-T810 (Primary)
ZCBE03-T860 (Auxiliary)
15" TFT LCD,
black gold interface (EMIDS)
Resolution: 1024×768
28.6 inch touch screen
Multiple interface themes can be changed.
Resolution: 1920×540
(Configurable when front wall≥350)

Note:

1. The symbol ■ represents the button model, Please select it from the "Diversified button" page.
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.
3. If an integrated operating panel is equipped, the decoration of the side wall shall be less than 15 mm thick when customers redesign the car on its own. If the decoration exceeds 15 mm, non-standard confirmation is required.
4. EMIDS can play multimedia information. Non-standard confirmation is required if customers wants to customize the interface.
5. Three color schemes are available for the interface of a touch screen operating panel: Scheme A is applicable to a maximum number of 64 floors, and Scheme B and Scheme C are applicable to a maximum number of 30 floors.
6. Wheelchair operating panel buttons can only use A14/A15/C14/C15.
7. ZCB■-F131/181 complies with GB/T24477. Technical confirmation is required to determine whether the complete elevator meets the standard.
8. A04,A05 buttons are only compatible with opening panel with GB/T 24477 configuration.

The picture is a schematic rendering. The size and appearance may vary according to actual specification and configurations.

LEHY-Ⅲ

Hall Design

Hall Door Design

Matching well with mainstream interior design styles

Better blended with your building environment

Original hall door/car door panel

No need for second design on site to avoid potential safety hazards

Saving cost, time and effort

New Intelligent Direction Lamp

Adjust the luminance and volume automatically according to the environment

Equipped with car arrival chime (AECC) and AECH

Foot-activated Call

Foot-activated call to create a hand-free experience

Registering car calls with a foot movement

Remark:
1. For more information of hall door design, please refer to Selected Sophisticated Design of SMEC Elevators.
2. Applicable size: 900 mm ≤ JJ ≤ 1200 mm, 2000 mm ≤ HH ≤ 2400 mm, and (overall door jamb height) MH + HH ≤ 4000 mm.

Hall Door and Jamb

E-102
Narrow Door Jamb

Landing Display Call: ZPIA12-CD12
Landing Door Material: Hairline Stainless Steel
Jamb Material: Hairline Stainless Steel

E-302
Bevel (10°) Wide Door Jamb

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

E-312
Bevel (10°) Wide Door Jamb with Transompanel

Landing Display Call: ZPIA11-GB13
Landing Door Material: Hairline Stainless Steel
Jamb Material: Hairline Stainless Steel

E-322
Bevel (10°) Wide Door Jamb with Slant Transompanel
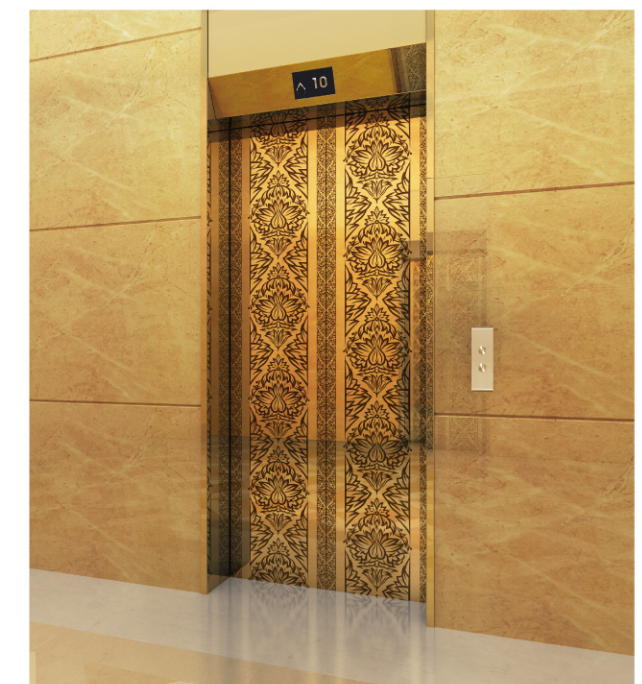
Landing LCD：ZPIH-N301
Landing Call: ZHBA11-G010
Landing Door *1：ZPN-010
Jamb Material: Mirror Titanium-coated Stainless Steel

Landing Display

Orange Segment Code	Gold Segment Code	Segmented LCD	TFT LCD
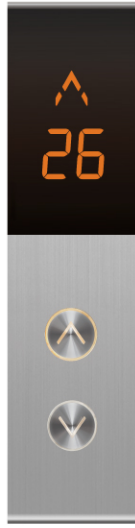
ZPI■-GD10
Wall-mounted
Without Bottom Box
Orange Segment Code
The buttons are exchangeable.
The figure shownis A12 button.

ZPI■-CD12
Embedded
With a bottom box
Gold Segment Code
The buttons are exchangeable.
The figure shownis A11 button.

ZPI■-GB13
4.3" Color segmented LCD
Black text on a colored background
The buttons are exchangeable.
The figure shownis A11 button.

ZPI■-GA13
4.3" TFT LCD
black gold interface
The buttons are exchangeable.
The figure shownis A11 button.
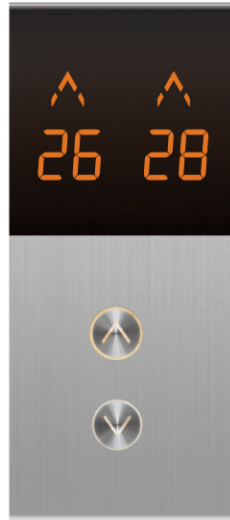
ZPI■-GD20
Wall-mounted
Without Bottom Box
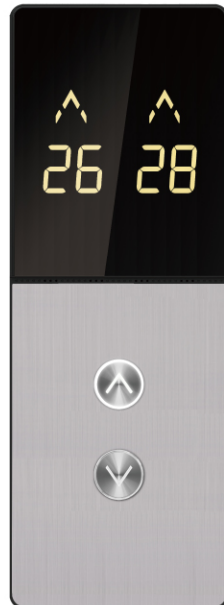
ZPI■-CD22
Embedded
With a bottom box

ZPI■-GB23
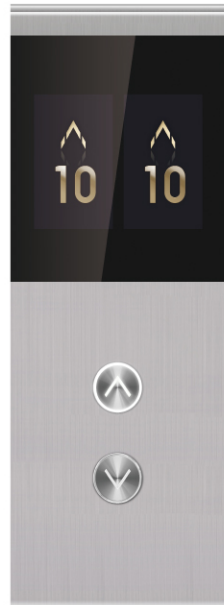
ZPI■-GA23

Note:
1、The symbol ■ refers to the button model. Please select it from the "Diversified button" page.
2、Hairline−finish and mirror−finish stainless steel are available for the faceplate of the call buttons of the hall position indicator. Non−standard confirmation is required for titanium plated stainless steel.
3、ZHB■−H030/040/041 complies with GB/T24477, and A14/A15/C14/C15 buttons are available. Technical confirmation is required to determine whether the complete elevator meets the standard.

Landing Call

Comply with GB/ T24477 Standard

ZHBE08−G012

ZHB■−G010
(Single Elevator)

ZHB■−G020
(Parallel Connection)

ZHB■−H030
(Single Elevator)

ZHB■−H041
(Parallel Connection)

Touch Screen Hall Call

ZPIE07−GF10/GF20
Titanium−plated aluminum alloy middle frame
7−inch high−resolution highlight screen
15° inclination, which is more ergonomic

Landing Display

ZPIH−C804
15" EMIDS, embedded,
installed above the hall call buttons
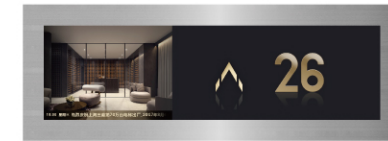
ZPIH−CE01
28.6" TFT LCD, black gold interface (EMIDS)
Resolution: 1920×540, Embedded, nstalled on the wall

ZPIH−C301
8.4" TFT EMIDS with black gold interface
Embedded, nstalled on the wall

HID−A20
Embedded Large−scale Landing Displayer
Applicable when the Jamb model is non−E−312 and non−E322.

ZPIH−NE01
28.6" TFT LCD, black gold interface (EMIDS)
Resolution: 1920×540, Embedded
Applicable when the Jamb model is E−312

ZPIH−N301
8.4" TFT EMIDS with black gold interface
Embedded
Applicable when the Jamb model is E−312

HID−A10
Embedded Large−scale Landing Displayer without Panel
Applicable when the Jamb model is E−312.

Landing Direction Light

Should be used together with the landing call button components referred to Page 31.

ZHLV−H021
Hairline/Mirror
Stainless Steel Panels
Mist white acrylic of
the lighting part

ZHLV−H040
Installation without bottom box
Mist white acrylic light part
55×430mm

ZHLV−H050
Without Bottom Box
Transparent acrylic,
misty acrylic for inside carving;
adjust the luminance and
volume automatically according
to the environment,
and equipped with AECC and AECH

ZHLV−R050
Without Panel
Mist white acrylic of
the lighting part
Precise openings for wall
decoration are in need.

ZHLV−B040
Wall−Mounted Type
without Bottom Box
Transparent acrylic of
the lighting part
(embedded with mist white
indicating blocks)

ZHLH−R080
Transparent acrylic
Embedded matte triangle
Mirror−finish substrate dotted
with stars

The picture is a schematic rendering. The size and appearance may vary according to actual specification and configurations.

Control and Security Features

●:Standard, ○:Optional

Feature	Description	Code	1C-2BC	2C-SM21	2C-4C-ITS-21	3-8C-ITS-2100
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.	ARL	●	●	●	●
Anti-stall Timer	When the traction rope slips or motor stall reaches predetermined time, the elevator will stop.	AST	●	●	●	●
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	●	●	●	●
Energy Feedback	Feed energy generated during operation back to the grid to save energy.	EFDBK	○	○	○	○
Electrical Safe Loop Protection	Prevent the elevator from operating once the electrical safety devices connected together in series act.	ESC	●	●	●	●
Automatic story height measuring	Automatically measure and record story height	FMR	●	●	●	●
Inspection Operation	Inspection operation mode for maintenance staff.	INSP	●	●	●	●
Load Weighing Start	The elevator adjusts startup torque according to the car load so as to allow smooth start.	LWS	●	●	●	●
Over-current Protection	Stop elevator when the current through the rectifier or inverter is detected too high.	OCP	●	●	●	●
Over-speed Protection	Stop elevator when the running speed is detected over allowable value.	OSP	●	●	●	●
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.	SFL	●	●	●	●
Stop Open	The car doors open automatically after the car stops at a floor.	SO	●	●	●	●
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.	TSD	●	●	●	●
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.	UCMP	●	●	●	●
Under speed Protection	Stop elevator when the running speed is detected under allowable value.	USP	●	●	●	●

Emergency Operation Features

●:Standard, ○:Optional

Feature	Description	Code	1C-2BC	2C-SM21	2C-4C-ITS-21	3-8C-ITS-2100
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	○	○	○	○
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	○	○	○	○
Alarm Bell	Press this alarm bell in emergency. The bell and interphone will sound.	EMB	●	●	●	●
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 from landings or car, the car is available for fireman's use.	FE *2	○	○	○	○
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.	FER *2	○	○	○	○
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.	OEPS-SA *3	○	○	○	○
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.	REMES-II *4	○	○	○	○
Elevator Monitoring System	This system uses computers to monitor the operation and position of the elevator and provides operation instructions when necessary.	SmartEye *5	○	○	○	○

Note：
*1 Optional when the interval of the adjacent floor is no more than 10m.
*2 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

Feature	Description	Code	1C-2BC	2C-SM21	2C-4C-ITS-21	3-8C-ITS-2100
Automatic Bypass	When the car load exceeds 80% (adjustable) rated capacity, the elevator does not response hall calls from other floors along its travel.	ABP	○	○	○	○
Attendant Service	Normal operation of the elevator is conducted by an attendant	AS *1	○	○	○	○
Bypass	Bypass all hall calls when the attendant serves and activates the 'Bypass' button.	BP *2	○	○	○	○
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	○	○	○	○
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	○	○	○	○
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*4	○	○	○	○
Self-diagnosis	Diagnose abnormities and faults occurred during elevator operation.	EFD	●	●	●	●
Exit Switch	Switch for detecting state of exit	EXIT SW	○	○	○	○
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*1*4	○	○	○	○
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.	FCC-P*1*5	○	○	○	○
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.	FHC-P	○	—	○	—
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.	FSAT	●	●	●	●
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.	GCBK	—	—	●	—
Hall Computer Back UP Operation	When an abnormity occurs on the hall computer, the car stops at nearest floor and the elevator cannot restart.	HCBK	●	●	●	●
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.	HE-B *1	○	○	○	○
Hall Out-of-service Operation	Turn on or shut off the elevator by operating the "RUN/STOP" switch installed on specified floor.	HOS	●	●	●	●
Intelligent Call System	Achieve intelligent elevator calling through mobile devices or biological recognition technology.	ICS	○	○	○	○
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 *3	○	○	○	○
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	○	○	○	○
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 *6	●	●	●	●
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	○	○	○	○
Return Operation	Operating Return switch to immediate call the car back to specified floor and park there.	RET *7	○	○	○	○
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.	SCS-B	○	○	○	○
Secret Call Service (IC card type)	The buttons of certain specified floors can only be registered via IC card.	SCS-IC *3	○	○	○	○

Note：
*1 When DOAS is used, do not configure FCC-A, AS, FHC-P, HE-B, TCP, IUP, UPS, VIP-S, BSO and TFS at the same time.
*2 Optional when AS is provided.
*3 Nonstandard corresponding
*4 Optional in the case where the number of landing stations is equal or more than 6 and SCS-IC feature is not provided.
*5 SCS-IC is not configured to be applied.
*6 Abnormity signal is outputted from SmartEye.
*7 The consumer or SmartEye shall provide a dry contact signal to the control cabinet.

Information and Display Features

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

Feature	Description	Code	1C–2BC	2C–SM21	2C–4C–ITS–21	3–8C–ITS–2100
Voice Announce Device	Voice announce device (Chinese) informs the passengers of related elevator information.	AAN–S01 *1	○	○	○	○
Voice Announce Device	Voice announce device (Chinese and English in turn) informs the passengers of related elevator information.	AAN–S02 *1	○	○	○	○
Voice Announce Device	Voice announce device (English) informs the passengers of related elevator information.	AAN–S03 *1	○	○	○	○
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	○	○	○	○
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	○	○	○	○
Immediate Prediction Function	When a passenger registers a hall call, the optimum car to respond is immediately selected and announced to the passengers via hall lantern illumination and a single tone chime.	AIL	—	—	—	○
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	○	○	○	○
Automatic Operation Signal Light (Hall)	The landing indicator displays the elevator is in automatic operation state.	AUTL *3	○	○	○	○
Signal Interface Device	Outputs basic operation state signal of the elevator via this device	BA *4	○	○	○	○
Bypass Signal Light (Hall)	The landing indicator displays the elevator is in "Bypass operation" state.	BPL *3 *5	○	○	○	○
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 *6	○	○	○	—
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 *7	○	○	○	○
Multimedia Display on Hall	Can provide audio/video or other information for the passengers (installed on the hall).	EMIDS–H *8	○	○	○	○
Exclusive Service Indication	Display that the elevator is in exclusive service state.	EXCL *9 *10	○	○	○	○
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 *11	○	○	○	○
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 *12	○	○	○	○
Fire Emergency Return – Completed	A CP signal is outputted after the FER running is completed.	FER–CP *12	●	●	●	●
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	—	—	—	○
Inspection Operation Indication	Hall indicator will display the elevator is in inspection mode.	INSPL	○	○	○	○
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 *14	○	○	○	○
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 *15	●	●	●	●
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 *15	○	○	○	○
ITV cable(for SMOS)	The cable used for video camera equipped with SMOS system.	ITV–S *15	○	○	○	○
Operation by Emergency Power Source – Completed	A CP signal is outputted after the operation by emergency power source is completed.	OEPS–CP *16	○	○	○	○
Overload Indication in Car	When the elevator is overloaded, the overload indicator lamp illuminates.	OLHL *10	○	○	○	○
Out–of–Service Indication	Indicate the elevator is out of service on the hall.	RESL *3	○	○	○	○
Second Car Prediction	If a single elevator is not able to service all passengers on a crowded floor, another hall lantern will flicker to indicate the second car that will service that floor	TCP *17 *18	—	—	—	○

Note：
*1 Only one of AAN–S01/S02/S03 can be selected at most.
*2 Only one of AECC and AECH can be selected.
*3 The number of selected displays of the landing indicator cannot exceed 2.
*4 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.
*5 Standard when ABP or BP is provided.
*6 Standard when DKO–TB is provided.
*7 For details, see EMIDS Product Specifications LEHY–PS1. To specify EMIDS–C function, specify on the non–standard confirmation form the size, installation position and method (external, embedded or wall–mounted) of LCD. Default configuration: The display interface is "Full screen" and the material is hairline–finish stainless steel.
*8 For details, see EMIDS Product Specifications LEHY–PS1. To specify EMIDS–H function, specify on the non–standard confirmation form the size, installation position and method (external or wall–mounted) of LCD. 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.
*9 Standard when HE–B is provided.
*10 The number of selected displays of the indicator in car cannot exceed 3.
*11 Standard when FE is provided.
*12 Optional when FE is provided.
*13 Standard when FER is provided.
*14 The customer is responsible for the cables from the machine room to the monitoring room and their installation.
*15 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.
*16 Optional when OEPS–SA is provided.
*17 Nonstandard corresponding
*18 When DOAS is used, do not configure FCC–A, AS, FHC–P, HE–B, TCP, IUP, UPS, VIP–S, BSO and TFS at the same time.

Door Operating Features

●:Standard, ○:Optional

Feature	Description	Code	1C–2BC	2C–SM21	2C–4C–ITS–21	3–8C–ITS–2100
Light Curtain Protection	Light curtain protection with multiple light beam.	AMS *1	○	○	○	○
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	○	○	○	—
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.	DONG	●	●	●	●
Automatic Door–open Time Adjustment	Automatically adjust door–open time according to landing calls or car calls.	DOT	●	●	●	●
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.	EDC	●	●	●	●
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.	MBS *1	○	○	○	○
Door Nudging Feature – with buzzer	If the door–open time exceeds the predetermined value, it will give alarm sound to alert the passenger and try to close the doors.	NDG *3	○	○	○	○
Repeated Door–Close	If car doors are blocked while closing, the elevator will repeat the closing action until the debris is removed.	RDC	●	●	●	●
Reopen with Hall Button	During door closing, when hall calling button in the same direction is pressed, the doors will reopen.	ROHB	●	●	●	●

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	3–8C–ITS–2100
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*2	—	—	○	○
Battery Trouble Operation	Under the group control mode, during peak periods, it controls the number of cars allocated or parked to the crowded floors according to the traffic in the building.	CAT	—	—	○	○
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	—	—	○	○
Closest Car Priority Service	In respond to a hall call, priority is given to the car closet to the hall button pressed.	CNPS	—	—	—	○
Destination Oriented Allocation System	When a passenger presses the button of the destination floor on the hall operating panel, DOAS will inform the passenger of the elevator allocated. By allocating elevators according to destination floors, DOAS can improve the transport efficiency.	DOAS *1	—	—	—	○
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	—	—	○	○
Energy–Saving Operation – Number of Car	With consideration of the traffic data and keeping elevator service at a predetermined level, when the level of elevator service becomes greater than the predetermined level, energy savings are attained through reducing the number of running cars.	ESO–N	—	—	○	○
Special Floor Forced Stop	Cars passing a certain floor are forced to stop at this floor.	FFS	○	○	○	○
Intense Up Peak	In response to upward traffic congestion from the main floor which occurs at a specific time, a bank of car cars are divided into two groups to serve high zone and low zone floors.	IUP *1*2	—	—	—	○
Lunch Time Service	Car assignment can be adjusted to favor canteen or restaurant floor to accommodate the high demand during lunch time.	LTS	—	—	○	○
Main Floor Parking	When there is no landing call or car call, the car returns to main floor and parks there.	MFP	○	—	—	—
Strategic Overall Assignment	For group control elevators, the cars park dispersedly at the main station and middle floor.	OHS	—	●	●	●
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.	PRS	—	—	○	○
Peak Traffic Control	To alleviate temporary peak traffic, heavy traffic floors (top floor or main floor) will be given priority service.	PTC	—	—	○	○
Special Car Priority Service	When a hall call is registered, a previously specified car (e.g. observation car, alternative terminal floor car) is assigned as higher priority, provided efficiency of overall group control is not disturbed seriously.	SCPS	—	—	—	○
Car Call Button with Service Floor Indicator	A particular car is given higher priority for service to a specified floor compared to the other floors without priority service.	SFPS	—	—	—	○
Main Floor Changeover Operation	Main floor can be changed by pressing the Changeover switch.	TFS *1*2	○	○	○	○
Light Load Car Priority Service	When the traffic is not crowded, allocation priority is given to vacant and lightly loaded cars (car with loads of less than 10%).	UCPS	—	—	○	○
Up Peak Service	During 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.	UPS*2	—	—	○	○
VIP Service	A specified car can be withdrawn from group service for special VIP service.	VIP–S *1*2	—	—	○	○

Note：
*1 Nonstandard corresponding
*2 When DOAS is used, do not configure FCC–A, AS, FHC–P, HE–B, TCP, IUP, UPS, VIP–S, BSO and TFS at the same time.

Item	Specifications					Remark
Speed(m/s)	1.0	1.75	2.0	2.5	3.0	
Capacity(kg)	630	630				LEHY-III
	825	825	825	825	825	
	1050	1050	1050	1050	1050	
	1200	1200	1200	1200	1200	
	1350	1350	1350	1350	1350	
	1600	1600	1600	1600	1600	
	1800	1800	1800	1800		
	2025	2025	2025	2025		LEHY-III/LEHY-IIIB
	2250	2250				
	2500	2500				
Travel Height (m)	3.4~55	7.3~90	9.1~120	13.3~140	15~150	Rated load capacity is 2250 kg and 2500 kg, and the maximum travel can reach 105 m at 1.75 m/s.
Max. number of stops (including NS floors)	54	54	54	54	54	
Start frequency (times/h))	180	180	180	180	180	
Drive mode	Traction					
Counterweight Position	Back or Side					
Roping	2 : 1					
Control Mode	VFJ-L					
Operation Mode	1C-2BC, 2C~4C-SM21, 2C~4C-ITS-21, 3C-8C-ITS-2100					Confirmation for non-standard configuration is required when elevators of different rated speed are installed in parallel. SM21 is scaled to four cars. For 3C-8C-ITS-2100, confirmation is required for non-standard configuration of hall position indicator.
Min. Landing Height(mm)	2300~3200					
Door Opening Way	Two panel sliding, Center opening					
Door drive mode	VVVF (PM door operator)					
Door Opening Type	1D1G, 1D2G/2D2G					
Clear entrance height (mm)	CO (standard: 2100-2400 mm; non-standard:2500 mm and 2600 mm) 2S (standard: 2100-2400 mm; non-standard:2500 mm and 2600 mm)					
Dynamic Power	380V 50Hz 3 phases, 5 lines					
Lighting Power	220V 50Hz Single-phase					
Landing Display Range	Table A：−5~48, 1B, 2B, 3B, 4B, 5B, A, B, B1, B2, B3, B4, B5, B6, C, D, E, G, G1, G2, G3, GF, H, K, L, L1, L2, L3, LB, LG, M, M1, M2, M3, M4, M5, M6, MB, P, P0, P1, P2, P3, P4, P5, PB, PH, PL, PP, R, R1, R2, R3, S, S1, S2, S3, S4, S5, T, UB, UG Table B：−5~48, 1B, 2B, 3B, 4B, 5B, A, B, B1, B2, B3, B4, B5, B6, C, D, E, G, G1, G2, G3, GF, H, K, L, L1, L2, L3, LB, LG, M, M1, M2, M3, M4, M5, M6, MB, P, P0, P1, P2, 15A, 12.1, 12.2, 22.1, 22.2, 2A, 19A, 1A, 13F, 3F, F1, F2, 22A, RC, 4A, 15B, 13B, F, D1, D2, 1M, 2M, 3M, 3A, 5A, 12A, 12B, 13A, 23A, 16A, 16B, 17					Segment LCDs are not fit to display three-digit floor information (for example, 12.1, 12.2, 22.1, 22.2, and 13F). The display range of hall position indicator of one elevator is listed in Table A or Table B. If it is listed in Table A and Table B (i.e. some in Table A and some in Table B), it is a non-standard configuration.

SMEC Layout
Scan the QR code to find more

LEHY-III civil engineering dimensions:
Scan the QR code to perform the following:
Search elevator > Search hoistway by elevator type
> Machine-room > Select "LEHY-III" for elevator type