

Mitsuilift



mitsuILIFT

PASSENGER ELEVATOR

Mitsuilift Elevator (Suzhou) Co. , Ltd.

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INTELLIGENCE LEADS A NEW ERA OF ELEVATOR

COMPANY PROFILE

Quality first, service first

Mitsuilift Elevator (Suzhou) Co., Ltd. takes manufacturing as the core, and operates special equipment sales, technical services and other businesses, covering from innovative research and development to all-round after-sales.

Mitsuilift Elevator recruits talented people to inject a steady stream of power into the optimization of technology and services, closely monitors industry trends, explores new technology applications, and strives to improve product performance. Adhering to the business philosophy of "quality first, service first", we are committed to providing customers with high-quality products and services. From pre-sales program customization, to efficient installation during sales, to timely maintenance after sales, the company provides one-stop service.

In the future, Mitsuilift Elevator will continue to forge ahead, provide high-quality vertical transportation solutions for urban development, and promote the elevator industry to new heights.



INNOVATIVE TECHNOLOGY

New generation permanent magnet synchronous gearless traction machine

The new generation energy-saving permanent magnet synchronous gearless traction machine uses rare earth materials and fully integrates coaxial transmission technology, digital frequency conversion technology, and group computer combination control technology, resulting in low operating costs and low energy loss.

Energy feedback technology

The energy of the elevator in the no-load up-down direction and the full-load up-down direction can be recovered to the power grid system again to further reduce energy consumption.



Increase efficiency
25%-35%



Reduce noise
5-10db



Intelligent integrated control system



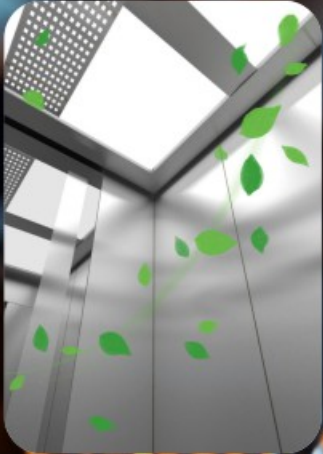
The control cabinet adopts a new structural design, the overall beauty, reasonable layout, and the materials used are cleaner and more environmentally friendly. Support drive AC asynchronous motor and permanent magnet synchronous motor, safe, reliable and energy-saving, while reducing the number of accompanying cables, user interface fixed, easy to use and maintenance.

A new generation of door machine system



The advanced VVVF variable voltage variable frequency control technology is applied to the elevator door machine system to ensure the smooth and quiet opening and closing of the elevator door, improve the sensitivity of the elevator door switch and automatically adjust the appropriate opening and closing speed of each floor to ensure safe and reliable operation.

SAFE EFFICIENT



Car purification, intelligent call system

The ventilation and purification system can reduce the residue of germs in the car and achieve the effect of bacteriostatic and sterilization; The intelligent terminal call elevator can make the passengers do not have to touch the elevator parts, thereby reducing the possibility of contact with germs; Contactless buttons, voice calls and AI intelligent face recognition systems reflect the advantages of intelligent elevators to further ensure the health and safety of passengers.



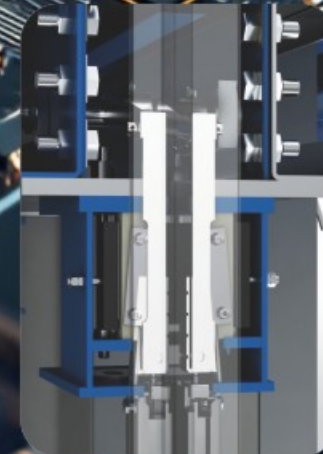
IoT real-time monitoring system

The remote monitoring of the Internet of Things system realizes the all-round coverage detection and management of building elevators, eliminates hidden dangers in time before failures occur, greatly improves the efficiency and quality of after-sales service, and improves the safety level of elevators.



Group control management system

The centralized control of multiple elevators, the system calculates which elevator responds to the call signal quickly, economically and reasonably, so as to allocate the elevator to respond, greatly improve the transportation efficiency of the elevator, reduce the waiting time of passengers, and save electric energy.



Comprehensive protection reassuring ride row

Safety tongs, speed limiters, overspeed protection and other all-directional safety protection devices, always provide multiple protection for passengers, more comfortable to travel.



Energy regeneration technology

With efficient energy regeneration technology, the renewable energy generated during the operation of the elevator is recycled back to the power grid, which can be reused and reduced energy consumption.



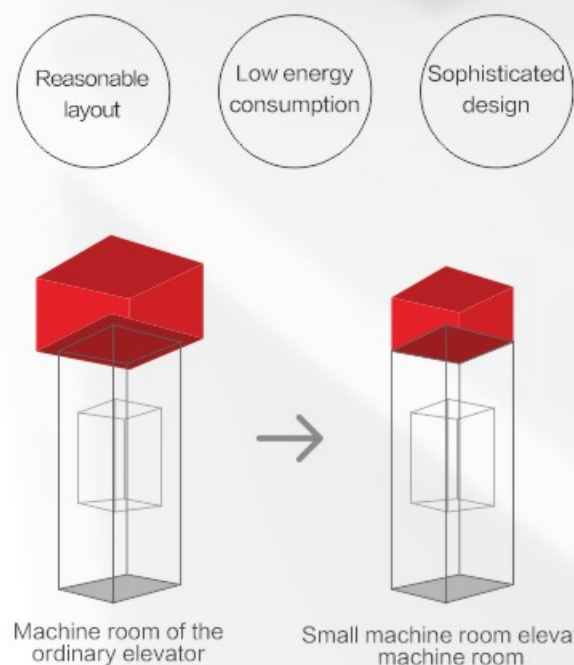
Light curtain door protection system

In the elevator door to form a light curtain barrier, 194 infrared light beam protection, for any person into the detection plane or objects can make a sensitive response, high safety performance.

SMALL MACHINE ROOM PASSENGER ELEVATOR

Small machine room passenger elevator, on the basis of inheriting modern and highly mature technology, improves the reliability and flexibility of the elevator system, and realizes the real advantages of environmental protection and energy saving.

Compared with the normal machine room, the reasonable civil layout makes the machine room as large as the hoistway, which saves the machine room space and reduces the unique appearance of the machine room on the building. It can adapt to buildings with special architectural requirements on the appearance. , Not only reduces the construction cost, but also helps to stimulate the inspiration of architects and create magnificent artworks.

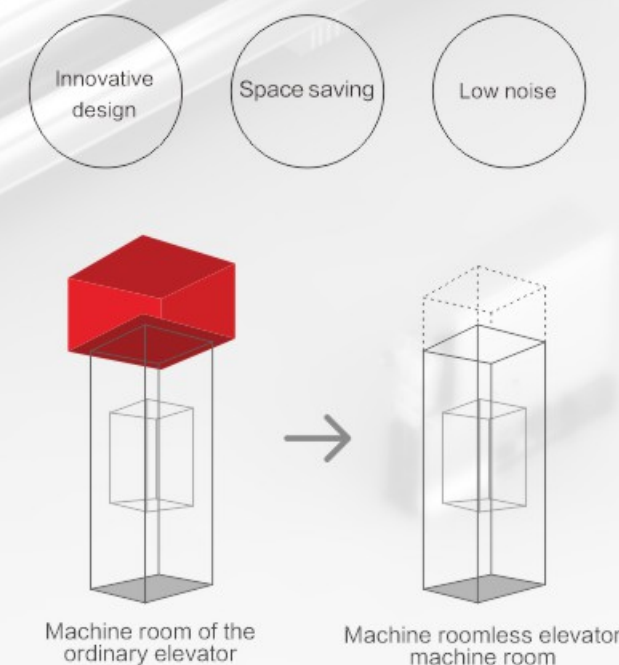


MACHINE ROOMLESS PASSENGER ELEVATOR

Machine roomless elevator is a king of environmental protection, energy safety, building space saving, freestyle product. Comparing with the same loading capacity machine room, it can saving 40% energy, reducing 10% building space.

Has done a break through on the precondition that elevator should be equipped with machine room, offering a limitless creativity in the limit building room, FUJI none machine room elevator usually used in the condition that loading weight below 1000KG, running speed below 2.5m/s.

Its ultra small and ultra light appearance design is applicable for machine room-less elevator shaft, and the new brake device and noise reduction processing can further minimize noise of the elevator.



PASSENGER ELEVATOR CAR DECORATION



Scan the QR
code enjoy the VR car

ME-P001 Standard

Ceiling: mirror stainless steel, acrylic translucent panel, LED lights

Back wall: hairline stainless steel, mirrored stainless steel etching

Sidewall: hairline stainless steel, mirror stainless steel

Front wall: hairline stainless steel

Floor: PVC (marble optional)



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code enjoy the VR car

ME-P002 Standard

Ceiling: mirror stainless steel, acrylic translucent panel, LED lights

Back wall: hairline stainless steel, mirrored stainless steel etching

Sidewall: hairline stainless steel

Front wall: hairline stainless steel

Floor: PVC (marble optional)



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ME-P003 Optional

Ceiling: mirror stainless steel, acrylic translucent panel, LED lights

Back wall: hairline stainless steel, mirrored stainless steel etching

Sidewalls: hairline stainless steel, mirrored stainless steel etching

Front wall: hairline stainless steel

Floor: PVC (marble optional)



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ME-P004 Optional

Ceiling: mirrored stainless steel, LED lights

Back wall: hairline stainless steel, mirror stainless steel

Sidewalls: hairline stainless steel, wood veneer

Front wall: hairline stainless steel

Floor: PVC (marble optional)

PASSENGER ELEVATOR CAR DECORATION



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ME-P005 Optional

Ceiling: titanium mirrored stainless steel, acrylic vault

Back wall: titanium hairline stainless steel, mirrored stainless steel etching

Sidewall: titanium hairline stainless steel, mirrored stainless steel etching

Front wall: titanium hairline stainless steel

Handrail: mirrored stainless steel single tube

Floor: PVC (marble optional)



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ME-P006 Optional

Ceiling: rose gold mirrored stainless steel, acrylic translucent plate

Back wall: rose gold hairline stainless steel, art steel plate

Sidewall: rose gold mirrored stainless steel etching, rose gold hairline stainless steel

Front wall: rose gold mirrored stainless steel

Floor: PVC (marble optional)



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ME-P007 Optional

Ceiling: steel plate spraying, acrylic translucent panel, LED lights

Back wall: champagne gold mirrored stainless steel etching

Sidewalls: champagne gold mirrored stainless steel etching

Front wall: champagne gold mirrored stainless steel

Floor: PVC (marble optional)



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ME-P008 Optional

Ceiling: black titanium mirror stainless steel, acrylic translucent plate

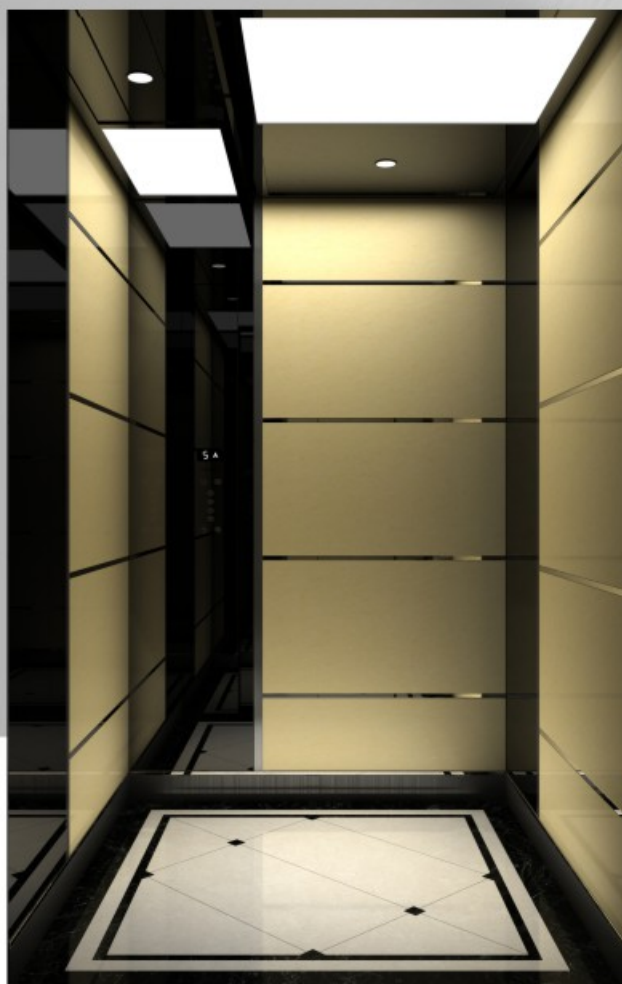
Back wall: black titanium mirror stainless steel etching

Sidewall: black titanium hairline stainless steel, black titanium mirror stainless steel, hairline stainless steel

Front wall: black titanium hairline stainless steel

Floor: PVC (marble optional)

PASSENGER ELEVATOR CAR DECORATION



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ME-P009 Optional

Ceiling: black titanium mirror stainless steel, acrylic translucent plate, LED light

Back wall: black titanium mirrored stainless steel with marble finish

Sidewall: black titanium mirrored stainless steel with marble finish

Front wall: black titanium mirrored stainless steel

Floor: PVC (marble optional)



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ME-P010 Optional

Ceiling: black titanium mirror stainless steel, acrylic translucent plate

Back wall: black titanium hairline stainless steel

Sidewall: black titanium mirrored stainless steel with marble finish

Front wall: black titanium hairline stainless steel

Handrail: mirrored stainless steel single tube

Floor: PVC (marble optional)



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ME-P011 Optional

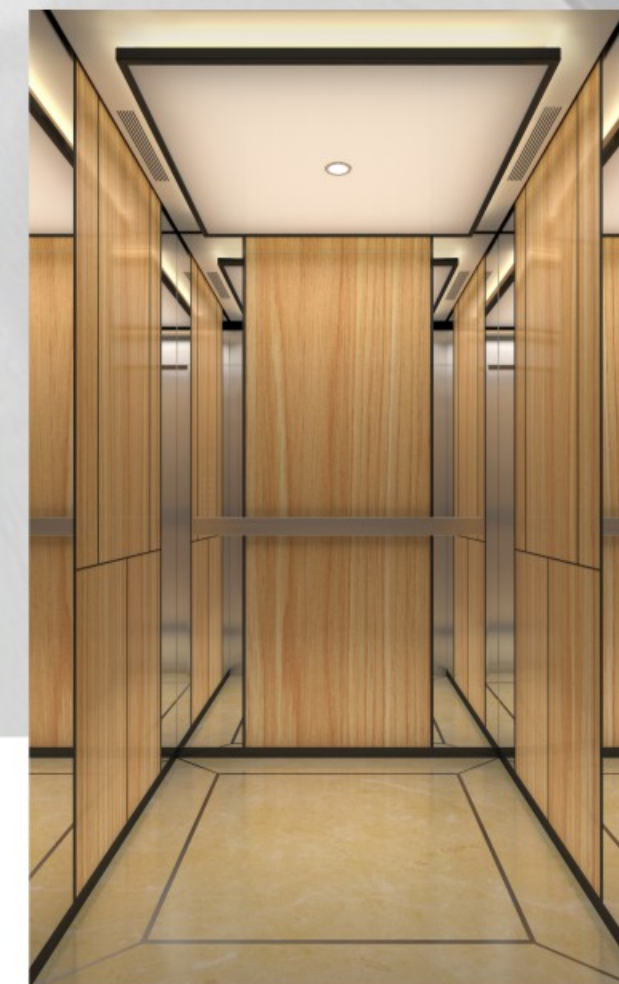
Ceiling: mirror stainless steel, acrylic translucent panel, LED lights

Back wall: wood veneer, etched in stainless steel

Sidewall: mirrored stainless steel etching, wood veneer

Front wall: mirror stainless steel etching

Floor: PVC (marble optional)



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ME-P012 Optional

Ceiling: steel plate spraying, hidden light strip, LED light

Back wall: mirrored stainless steel, wood veneer

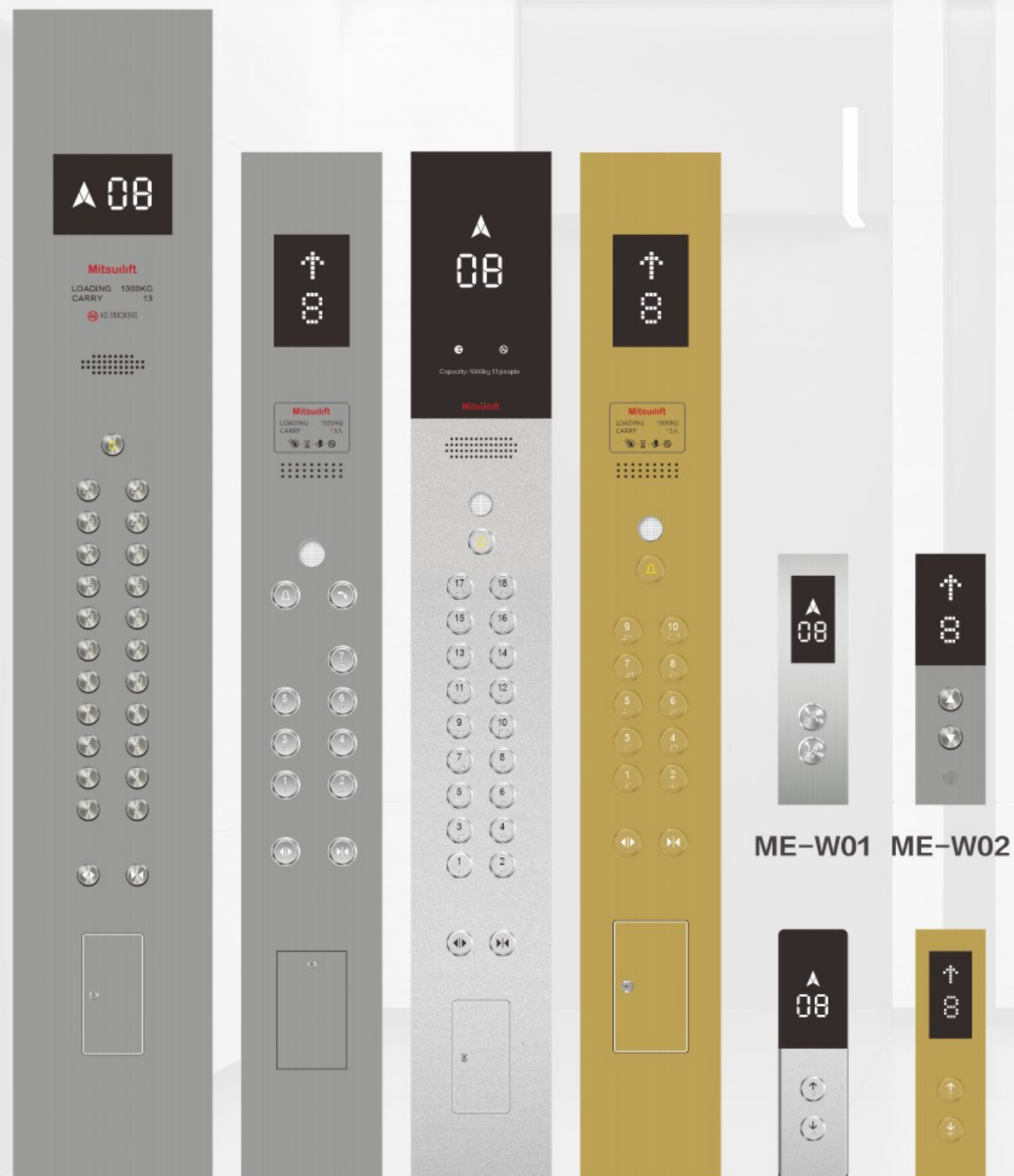
Sidewall: mirrored stainless steel, wood veneer

Front wall: hairline stainless steel

Handrail: stainless steel flat handrails

Floor: PVC (marble optional)

HUMAN-MACHINE INTERFACE SERIES



ME-C01

All-in-one control box

ME-C02

Split control box

ME-C03

Anti-fingerprint control box

ME-C04

Titanium control box

ME-W03 ME-W04

Optional COP display



7 inch picture machine

10.1 inch picture machine

10.4 inch video player

Optional HOP display



4.3 inch segment size LCD

4.3 inch picture machine

5 inch picture machine

Target floor group control



ME-C05

ME-C06

Optional arrival lights



DZ01

DZ02

DZ03

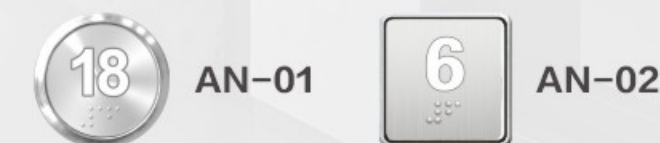
Handicapped control box



ME-C05

Handicapped control box

Optional button



AN-01

AN-02

Optional material



HALL DOOR HANDRAIL
SERIES

Hall door series



ME-M01

Stainless steel
etching

ME-M02

Stainless steel
etching

ME-M03

Titanium stainless
steel etching

ME-M04

Champagne gold stainless
steel etching

ME-M05

Rose gold stainless
steel etching

ME-M06

Black titanium stainless
steel etching

ME-M07

Stainless steel
Safety laminated glass

ME-M08

Stainless steel
Safety laminated glass

Handrail series



ME-FS01

ME-FS02

ME-FS05

ME-FS06

ME-FS03

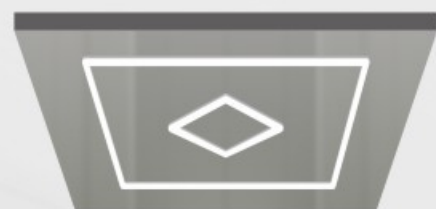
ME-FS04

ME-FS07

ME-FS08

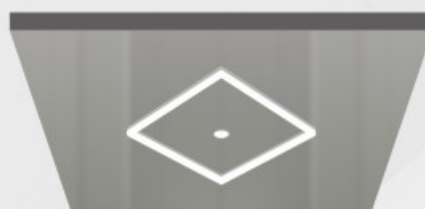
Note: Optional titanium, rose gold, champagne gold, black titanium and other stainless steel.

CEILING SERIES



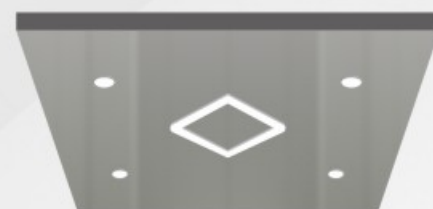
ME-D01

Mirrored stainless steel,
linear lights



ME-D02

Mirrored stainless steel,
linear lights, LED light



ME-D03

Mirrored stainless steel,
linear lights, LED light



ME-D04

Mirrored stainless steel,
acrylic translucent plate, LED light



ME-D05

Mirrored stainless steel,
acrylic translucent plate, LED light



ME-D06

Mirrored stainless steel,
acrylic translucent plate, LED light



ME-D07

Mirrored stainless steel,
linear lights, LED light



ME-D08

Mirrored stainless steel,
acrylic translucent plate, LED light



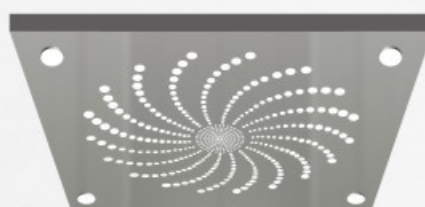
ME-D09

Mirrored stainless steel,
acrylic translucent plate, LED light



ME-D10

Mirrored stainless steel,
acrylic translucent plate, LED light



ME-D11

Mirrored stainless steel,
acrylic translucent plate, LED light



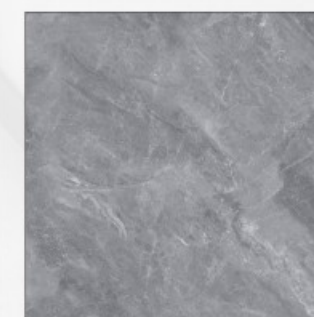
ME-D12

Mirrored stainless steel,
acrylic translucent plate, LED light

FLOOR SERIES



ME-B01



ME-B02



ME-B03



ME-B04



ME-B05



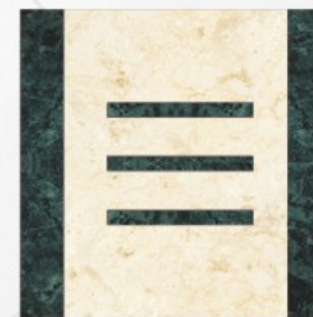
ME-B06



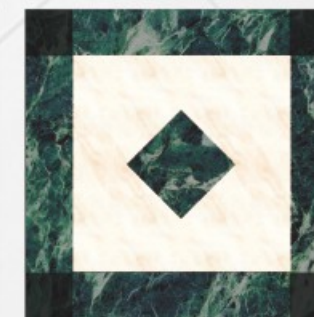
ME-B07



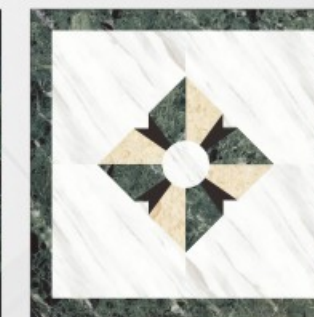
ME-B08



ME-B09



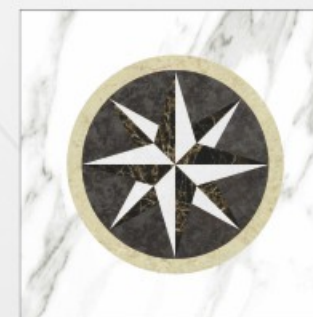
ME-B10



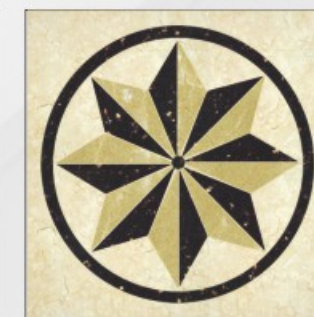
ME-B11



ME-B12



ME-B13



ME-B14



ME-B15



ME-B16

FEATURE CONFIGURATION TABLE

Travel function	
Complete Selection Function	When the elevator runs alone, it adopts the centralized control mode, it means the elevator will give priority to answer the outdoor call in the same direction. When the call in the same direction is completed, the elevator will automatically respond to the call in the opposite direction.
Driver function	The driver manages the selection of elevator floor, external call response, door opening and so on, and gives priority to the direction of elevator operation.
Full load bypass	When the elevator is fully loaded, the elevator automatically turns to direct running. At this time, only the instructions in the car are executed, and the call signal from hall outside should not be answered.
Automatic Back to Base Station	The elevator will automatically return to the preset base station when there is no call from outside of the hall nor instructions inside the car.
Serial communication	Bus is used to communicate serial data between components, which ensures high speed, reliable and large amount of data transmission, greatly reduces the wiring between components, and improves the reliability of the whole machine.
Automatic door opening	Every time levelling, elevator opens the door automatically, the call button or the door opening button outside of the hall is pressed, the car door opens automatically.
Designated ladder	Turn on the berth elevator switch, the elevator will return to the base station, then lights turned off, door closed and stoped running.
Closing time protection function	If the elevator door stays open longer than the scheduled time, the temporary mandatory function automatically works to close the door.
Self-learning of Well Track Data	Automatically learn to measure the height of well path, the position of protection switch, the position of deceleration switch and so on, and permanently save these operation data, so as to ensure the accuracy of the stop level.
Error instruction cancellation	When the passenger presses the command button and is responded, it is found that it does not conform to the actual requirements. After the command registration, the passenger can press the wrong command button twice, and the registration will be cancelled.
Direct berthing	The system controls the elevator to decelerate completely according to the principle of distance, and there is no crawling in the flat layer.
Independent operation	Elevators do not accept external calls and cannot shut down automatically (in parallel or group control of elevators, in order to provide special services for certain people to carry VIPs or goods). If the independent operation switch is pressed, the elevator will be separated from the group control and run independently.
Automatic Correction of Floor Position Signal	When the system runs, the position signal of elevator is corrected by the position pulse at each terminal switch action point and each level switch action point when writing the elevator layer.
Anti-disturbance function	In order to avoid the operation of the empty elevator, the abnormal instructions are cancelled by logical judgment of the load, so as to avoid pranks and wrong instructions in the car.
Arrival clock prompt function	In the process of elevator deceleration, the arrival bell will ring to remind passengers inside the car or waiting elevator outside of the hall that the elevator is on the flat floor.
Safety function	
Maintenance operation	When the system is in maintenance state, press the slow up or slow down button, the elevator will run up or down at the maintenance speed, and stop after loosening the button, so as to meet the use requirements of the system when it is called trial, maintenance and overhaul.
Overload protection	When the elevator is overloaded, the elevator keeps the door open and the buzzer in the car rings to remind overload information. The elevator does not start.
Door light curtain protection	During the closing process, when the infrared beam covering the whole height of the door detects passengers and objects, it reopens the door.
Fire fighting function	When the fire switch is activated, all calls are cancelled. The designated elevator returns to the designated floor station immediately. For rescue, the elevator only responds to the car call.
Overspeed protection	When the speed of the car exceeds the rated speed, the elevator will automatically start the overspeed monitoring device and cut off the safety circuit to protect the equipment and passengers.
Door motor protection	When the elevator is subjected to external resistance in the process of opening/closing, and the resistance exceeds a certain value, the elevator door will move in the opposite direction.

Safety function	
Fault self break	It can record the latest fault codes, which is helpful for maintenance person to analyze and deal with elevator faults timely and effectively.
Terminal Off-Range Protection	Both elevator's upper and lower terminals are equipped with terminal protection switches to ensure the car does not cross the distance.
Detection & Protection of Contactor	The system automatically detects and alarms whether the contactor related to operation is released and sucked properly. If different, it will stop all operation and give accurate fault types.
Door Lock Short Connection Protection	The door-opening and in-place system detects the failure of the door lock connection, then it will stop all car operation.
Antiskid protection	The system detects that the slippage of the wire rope, it will stop all car operation. And the normal operation of the system can not be restored until the system reset.
Fault Protection of Governor	As soon as the system receives the fault signal of the governor, it stops immediately, and can not resume normal operation until the governor is repaired and the system reset.
Car Accidental Movement Protection	The car accidental moving protection device (UCMP) can stop the car when the elevator hall and door are open rather than deviating from the normal position of the flat floor, thus preventing person get injured and equipment get damaged.
Anti-collision protection of floor doors	The impact-resistant layer door system strengthens the impact-resistant ability of the layer door system and effectively prevents the danger of falling into the well path which is caused by the impact layer door system, thus guarantee the safety of related person.
Car door lock protection	It can prevent passengers from falling into the well when the car door is opened in the non-Dan lock area, and ensure the safety of passengers.

Man-machine interface

Digital display	Dot matrix floor display is used both outside the hall and inside the sedan car of the system, which has the characteristics of rich characters, vivid display and beautiful font.
Display interface operation	It can not only display the elevator's speed, direction, state, given operation curve and feedback speed curve, but also set various parameters of the elevator and inquire the fault record of the elevator through other methods.
Optimized Setting of Layer Station Display Characters	The LCD operator of the system can optimize the characters displayed on the floor, such as "B" on the ground floor.

Emergency function

Emergency alarm	When any person are trapped in the car, they can timely inform the management personnel to rescue them through the alarm or communication device.
Talkback function	When there's emergency, can press the emergency button continuously, and then can talk with outside management person directly.
Slow self-rescue operation	When the elevator is in a non-inspection state, and not parked in the flat area. At this time, as long as the safety requirements are met, the elevator will automatically run at a slow speed to the flat area and open the door to let off passengers.
Emergency lighting	When the normal lighting power supply fails, the emergency lighting device is automatically activated to keep the car continuously illuminated.
Five party call	The voice connection function can be realized through the intercom device on the car control panel with the engine room, the car roof, the bottom pit and the monitoring center to seek help.

Energy-saving function

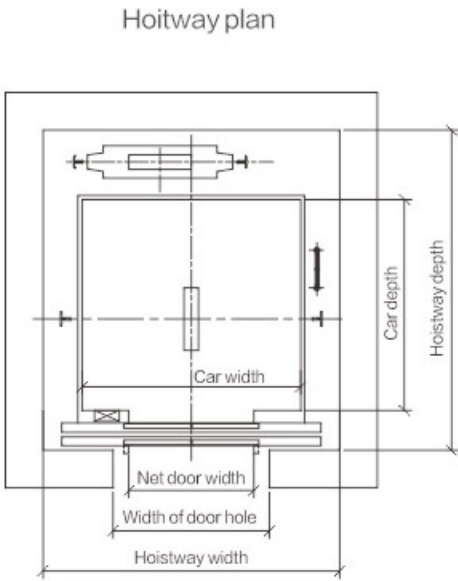
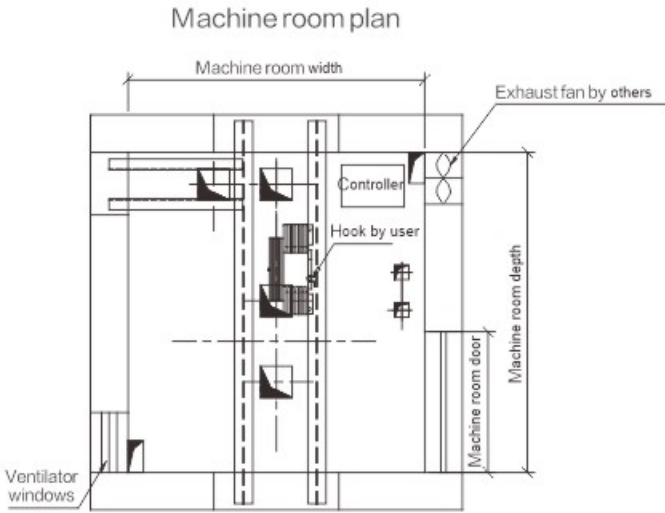
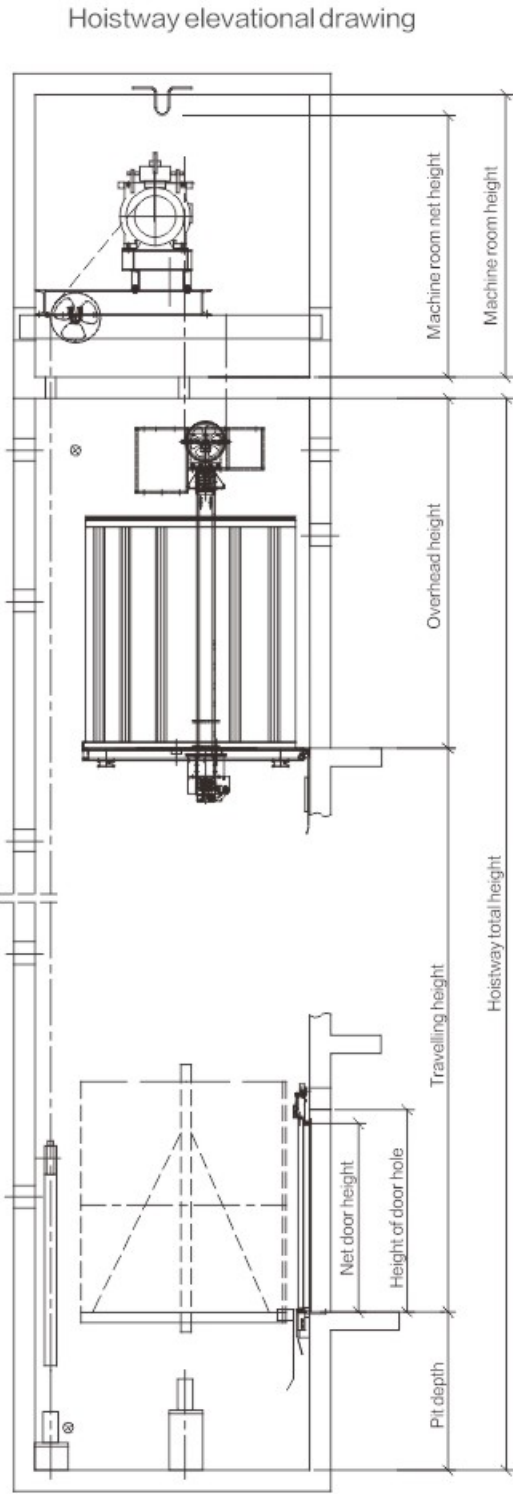
Vector Control Technology	Accurately and smoothly adjust the elevator speed to achieve a perfect ride comfort; compared with other types of AC speed control system, the operation efficiency is high, and energy saving can be more than 30%.
Closing time adjustment	Reference to the status of passenger to adjust the waiting time of closing, it saves waiting time, and make the whole machine operation efficiency has been further improved.
None operation for 3 minutes, lights and fans will be turned off automatically	If the elevator has no instructions and calls for registration for more than 3 minutes, the lights and fans in the car will automatically be cut off. But after receiving the instruction or call signal, it will automatically re-energize and put into use.
Reverse cancellation	When the elevator turns into reverse operation, it automatically cancels the selected inner call. It is necessary to re-select the elevator floor, improve the efficiency of the elevator operation and reduce the waiting time.

SMALL MACHINE ROOM PASSENGER
ELEVATOR CONSTRUCTION

Small machine room passenger elevator table

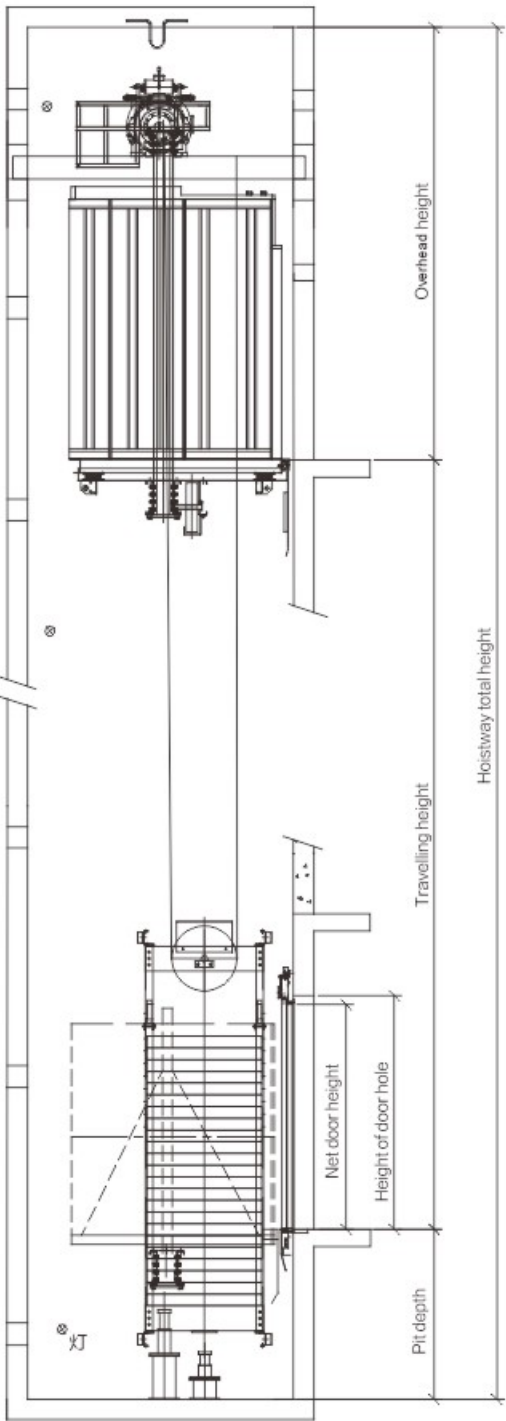
Load KG	Speed m/s	Car size (mm) width * height	Door width * height (mm)	Hoistway size(mm) Width * Depth	Room size (mm) Width * Depth * Height	Top floor height (mm)	Pit depth (mm)
450	1.0	1250*1000	800*2100	1750*1700	1750*1700*2800	≧ 4300	≧ 1500
	1.5					≧ 4400	≧ 1600
	1.75					≧ 4400	≧ 1600
630	1.0	1400*1100	800*2100	1900*1800	1900*1800*2800	≧ 4300	≧ 1500
	1.5					≧ 4400	≧ 1600
	1.75					≧ 4400	≧ 1600
	2.0					≧ 4800	≧ 1800
800	1.0	1400*1350	800*2100	1900*2050	1900*2050*2800	≧ 4300	≧ 1500
	1.5					≧ 4400	≧ 1600
	1.75					≧ 4400	≧ 1600
	2.0					≧ 4800	≧ 1800
	2.5			2000*2150	2000*2150*3500	≧ 5200	≧ 2200
1000	1.0	1600*1400	900*2100	2100*2100	2100*2100*2800	≧ 4300	≧ 1500
	1.5					≧ 4400	≧ 1600
	1.75					≧ 4400	≧ 1600
	2.0					≧ 4800	≧ 1800
	2.5			2200*2200	2200*2200*3500	≧ 5200	≧ 2200
1250	1.0	2000*1400	1100*2100	2500*2100	2500*2100*2800	≧ 4300	≧ 1500
	1.5					≧ 4400	≧ 1600
	1.75					≧ 4400	≧ 1600
	2.0					≧ 4800	≧ 1800
	2.5			2600*2200	2600*2200*3500	≧ 5200	≧ 2200
	3.0			2750*2350	2750*2350*3500	≧ 5500	≧ 3000
1350	1.0	2000*1500	1100*2100	2500*2300	2500*2300*2800	≧ 4300	≧ 1500
	1.5					≧ 4400	≧ 1600
	1.75					≧ 4400	≧ 1600
	2.0					≧ 4800	≧ 1800
	2.5			2600*2400	2600*2400*3500	≧ 5200	≧ 2200
	3.0			2750*2550	2750*2550*3500	≧ 5500	≧ 3000
1600	1.0	2100*1600	1100*2100	2600*2400	2600*2400*2800	≧ 4300	≧ 1500
	1.5					≧ 4400	≧ 1600
	1.75					≧ 4400	≧ 1600
	2.0					≧ 4800	≧ 1800
	2.5			2700*2500	2700*2500*3500	≧ 5200	≧ 2200
	3.0			2850*2650	2850*2650*3500	≧ 5500	≧ 3000

Note: Only for reference,
final manufacture please follow contract.

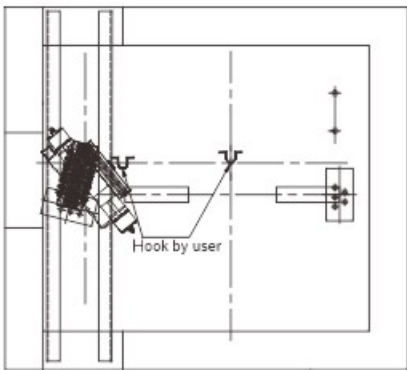


MACHINE ROOMLESS PASSENGER
ELEVATOR CONSTRUCTION

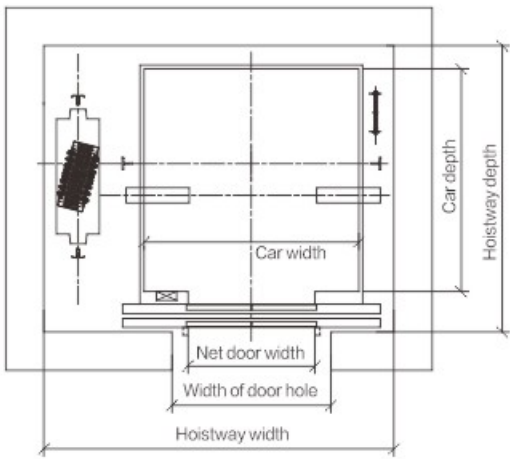
Hoistway elevational drawing



Hoistway plan



Hoistway plan



Machine roomless passenger elevator table

Load KG	Speed m/s	Car size (mm) width * height	Door width * height (mm)	Hoistway size(mm) Width * Depth	Top floor height (mm)	Pit depth (mm)
450	1.0	1000*1250	800*2100	2050*1650	≧ 4300	≧ 1500
	1.5				≧ 4400	≧ 1600
	1.75				≧ 4400	≧ 1700
630	1.0	1100*1400	800*2100	2100*1800	≧ 4300	≧ 1500
	1.5				≧ 4400	≧ 1600
	1.75				≧ 4400	≧ 1700
	2.0				≧ 4800	≧ 2000
800	1.0	1350*1400	800*2100	2250*1800	≧ 4300	≧ 1500
	1.5				≧ 4400	≧ 1600
	1.75				≧ 4400	≧ 1700
	2.0				≧ 4800	≧ 2000
	2.5			2500*1900	≧ 5500	≧ 2500
1000	1.0	1400*1600	900*2100	2300*2000	≧ 4300	≧ 1500
	1.5				≧ 4400	≧ 1600
	1.75				≧ 4400	≧ 1700
	2.0				≧ 4800	≧ 2000
	2.5			2550*2100	≧ 5500	≧ 2500
1250	1.0	1800*1600	1100*2100	2750*2100	≧ 4400	≧ 1600
	1.5				≧ 4500	≧ 1700
	1.75				≧ 4600	≧ 1700
	2.0				≧ 4800	≧ 2000
	2.5			3050*2200	≧ 5200	≧ 2200
1350	1.0	1900*1600	1100*2100	2850*2100	≧ 4400	≧ 1600
	1.5				≧ 4500	≧ 1700
	1.75				≧ 4600	≧ 1700
	2.0				≧ 4800	≧ 2000
	2.5			3150*2200	≧ 5500	≧ 2500
1600	1.0	1900*1800	1100*2100	2900*2300	≧ 4400	≧ 1600
	1.5				≧ 4500	≧ 1700
	1.75				≧ 4500	≧ 1700
	2.0				≧ 4800	≧ 2000
	2.5			3200*2400	≧ 5500	≧ 2500

Note: Only for reference,
final manufacture please follow contract.