



Jun.2017 edition

International market products	Rated speed(m/s)	Rated capacity(kg)
MS(CHOI- II) Small machineroom passenger elevator	1.0 1.6 1.75 2.0 2.5	400 450 630 800 900 1000 1150
MS(RICH) Small machineroom high-end business passenger elevator	1.0 1.6 1.75 2.0 2.5	800 900 1000 1150 1275 1350 1600
QS6100 High speed passenger elevator	3.0 3.5 4.0	1000 1150 1350 1600
NAVI Super high speed passenger elevator	5.0 6.0 7.0 8.0	1350 1600 2000
NS(CHOI-MRL) Machine roomless passenger elevator	1.0 1.6 1.75 2.0	400 450 630 800 1000
NS(RICH-MRL) Machine roomless high-end business passenger elevator	1.0 1.6 1.75 2.0	630 800 1000 1150 1275 1350 1600
NS8600 Machine roomless passenger elevator	0.5 1.0 1.6	1800 2000 2700
QVS(RICH-V) Small machineroom panoramic passenger elevator	1.0 1.6 1.75	630 800 1000
NVS(RICH-MRLV) Machine roomless panoramic passenger elevator	1.0 1.6 1.75	800 1000
FS(Small machineroom) Cargo elevator	0.25 0.5 1.0	2000 3000 5000
FS(Machine roomless) Cargo elevator	0.5 1.0	2000 3000 4000
BS Hospital elevator	1.0 1.6 1.75 2.0 2.5	1600 1800 2000
ZS Swing door villa lift	0.25 0.4	320 400
ZS Auto door villa lift	0.25 0.4	320 400
RS9200 Service lift	0.3 0.4	100 200 300



TECHNOLOGY LEADS THE MARKET
SERVICE CREATES VALUE

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SHENYANG YUANDA INTELLECTUAL INDUSTRY GROUP CO., LTD.

TECHNOLOGY LEADS THE MARKET
SERVICES CREATE VALUE

BRILLIANT ELEVATOR

- Chinese Pride
- Trust by the world

BLT is the self-owned brand ranking with global elevators and the pioneer leading Chinese elevators to the world, providing the world-renowned buildings with perfect service. It is committed to making the intelligent transportation of every building more secure, comfortable and convenient, and to keeping creating science and technology benchmark.

Yuanda Intellectual Industry Group has been adhering to Three Self developing strategy of self-owned brand, self-owned intellectual property and self-owned marketing network, relying on marketing network with perfect layout, having the whole world in view and comprehensively realizing the function of integration and radiation of global business and service network.

After years of effort, BLT has set up over 140 sales service outlets at home and abroad, 7 wholly-owned subsidiaries in Peru, Mongolia, Singapore, Russia, Australia, Morocco and Papua New Guinea and one holding subsidiary. It has set up factories in India and Iran. Its own worldwide marketing service network has been built completely, which can provide lifelong top-level professional, high-quality, fast and convenient service for global customers.

Stock Code: 002689.SZ

National Customer Satisfaction Enterprise

National Customer Satisfaction Service



TECHNOLOGY LEADS THE MARKET
SERVICES CREATE VALUE



26 thousand square meters large single workshop (multiple)



AMADA EMK3510NT turret punch



AMADA VIPROS-357Q Numerically Controlled Turret Punch Press

GLOBAL LEADER IN PRODUCTION EQUIPMENT



AMADA Flying Optics Laser Machine FO-3015



TRUMATIC L 3030, TRUMPF, Germany



Horizontal Machining Center



Tunnel type ultrasonic cleaning machine



Numerical Control Vertical turning flexible manufacturing cell



Salvagnini s(S4+P4) Complete and Flexible Sheet Metal Product Lines, Italy(two)

CHOI II

Small Machine Room Passenger Elevator

Safety and reliability, Energy saving and environmental protection, stability and comfort, easy and convenient



CHOI II Small Machine Room Elevator

Compact small machine room design

Compared with traditional machine room elevator, CHOI II machine room area of the elevator has reduced up to 60% machine room space.

Ultra-thin control cabinet

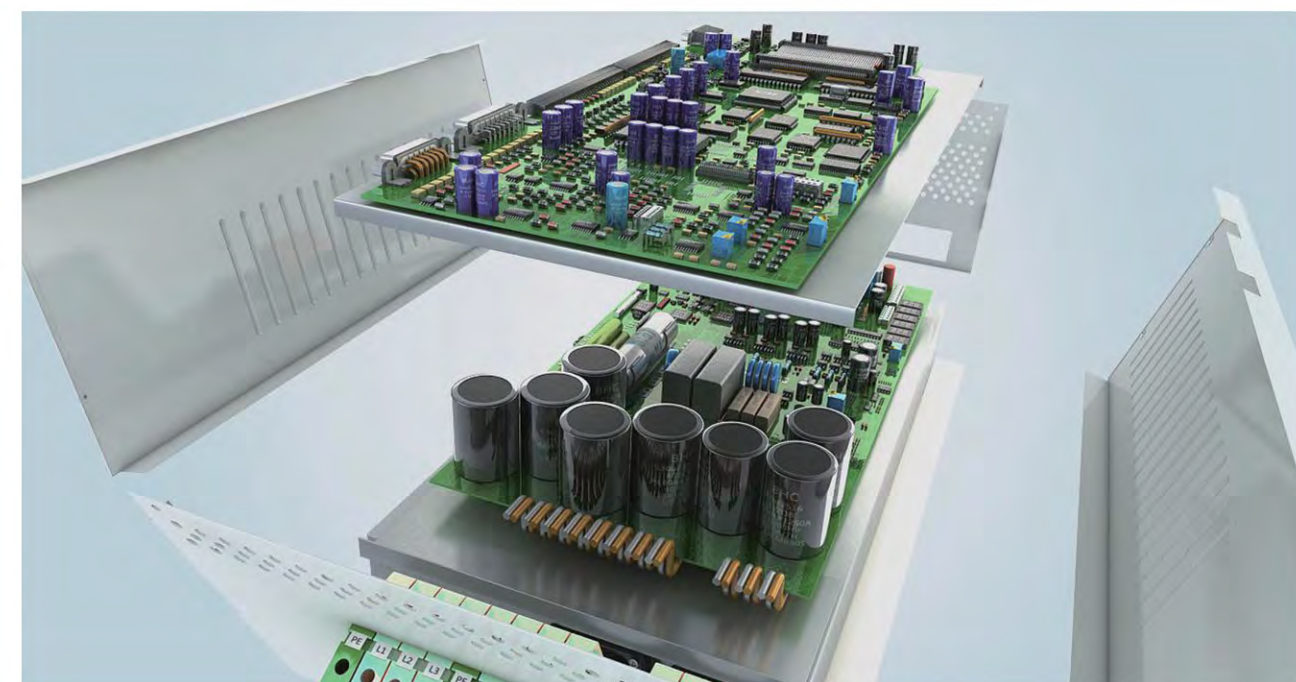
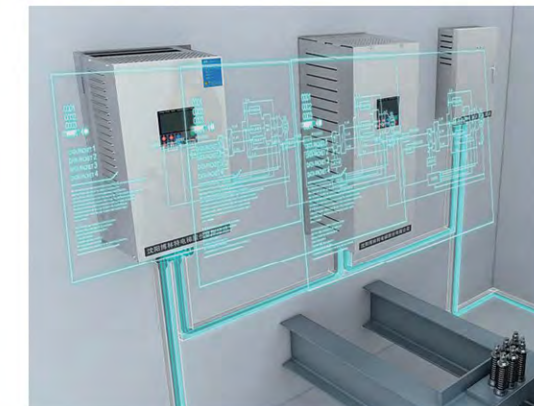
Ultra-thin control cabinet independently developed and designed by Brilliant Elevator adopts mature integrated circuit technology to improve anti-interference ability and efficiently improves utilization of machine room space by reducing the wiring and width of control cabinet.

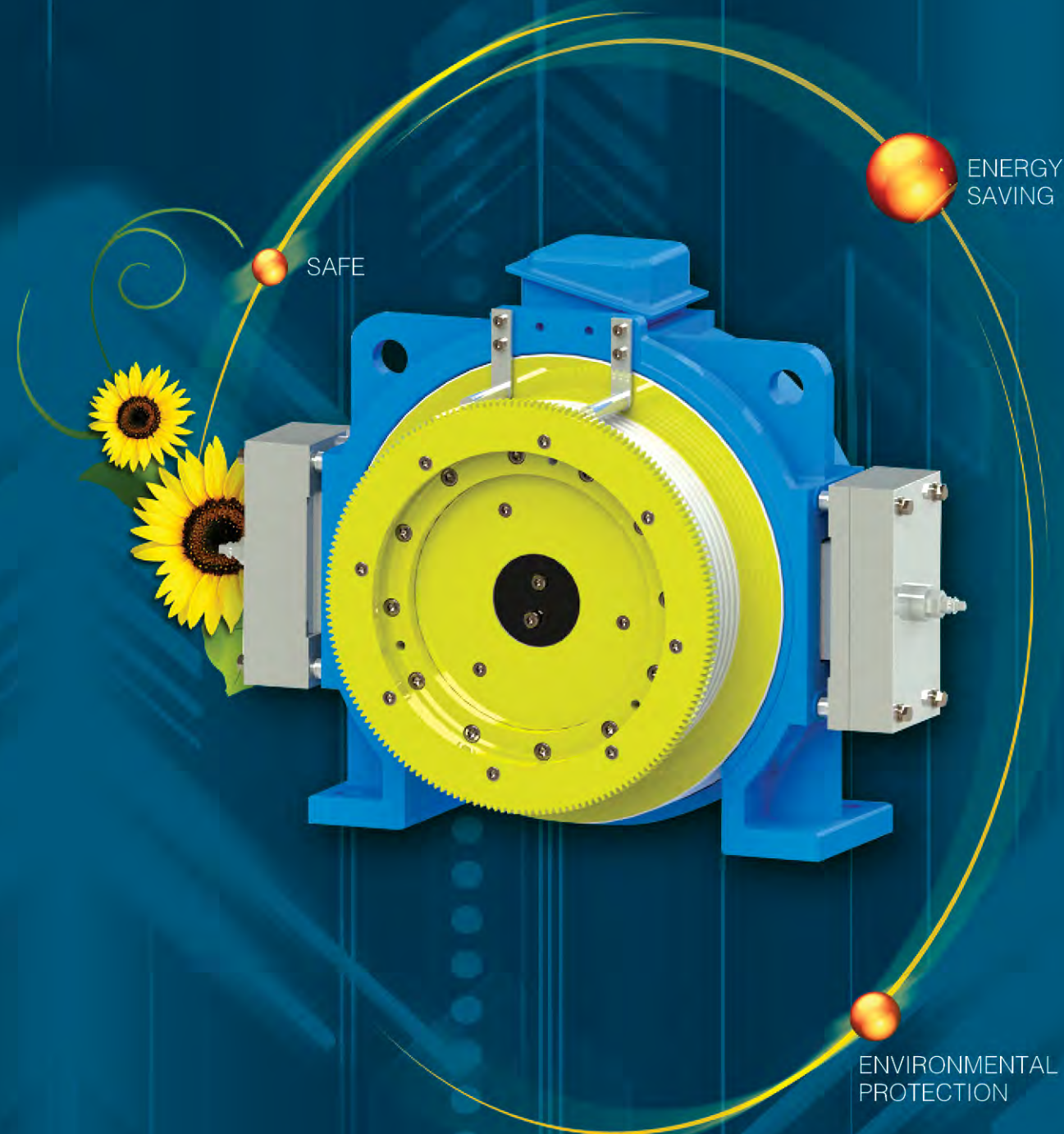
Product series

Speed up to 2.5m/s, load up to 1150kg, passenger number up to 15 people
The elevator adopts brand new control system, driving member and structure design to ensure the stable operation in details.

PERFECT INTEGRATED CONTROL DRIVING SYSTEM

- Owning reliable logic control kinetic energy and powerful driving performance
- Having strong extended capability and abundant function
- Being much closer to customer demand and providing safety protection for passengers to maximum extent
- Simple operation, supporting debugging in the car, starting without weighing compensation, adapting to change in load, constantly exchanging communication information, low failure rate and reducing maintenance cost
- Having strong compatibility switching between synchronous and asynchronous host machine only needs software adjustment.
- Owning 32 bit processing chip the elevator responds more quickly.





Original BLT factory brand traction machine

Miniaturization, thin shape, volume reduced by 30%, and all that provide architect with greater flexibility on space design, increase the efficiency of architectural space. Rotor consists of high-performance synchronous magnets, non-field current, greatly improving the running efficiency; reduce the energy consumption of about 40%

HIGH EFFICIENCY, ENERGY SAVING, ENVIRONMENTAL PROTECTION

○Appearance

Exterior miniaturization and thinness reduce the volume by 30% and block brake further reduces the height providing greater flexibility design space for the architect and improving the utilization rate of the architectural space.

○Energy saving

Rotor consists of high performance permanent magnets without excitation current, greatly improving operation efficiency and reducing the energy consumption of about 40%.

The series of product equip with self aligning roller bearing of a famous brand to ensure operation efficiency and long service life of driving host.

○Environmental protection

It dispenses with the traditional worm gear reducer, reduces the noise by 10 decibels, without replacement of lubricating oil, eradicates oil pollution and enables free maintenance for a long time.

○Safety

Brake test times as many as more than 2 million times

Brake redundancy design enables up running overspeed protection.

Excellent misoperation monitoring system of the brake ensures the safety of the passengers.

Unique intelligent thermal monitoring feedback system of drive host ensures the security of the traction system.

Performance of friction materials and encoder from Germany increases more than 10%.



EXCELLENT DOOR SYSTEM

○Comfort

Innovative PWM pulse width modulation technology enables the door open and close much gentler.

Time-proven toothed belt transmission technology enables smooth movements of door open and close and reduces running noise.

○Energy saving

Mature directly driven technology of permanent magnet synchronous dispenses with retarding mechanism and guarantees the transmission links without trouble.

○Intelligence

The stable closed-loop system and door machine self-learning system ensure completion of automatic parameter setting.

The controller has built-in optimal curve so best door operation curve can be chosen according to building characteristics.

○Safety

More than 3 million door open and close test ensures the product is safe and stable.

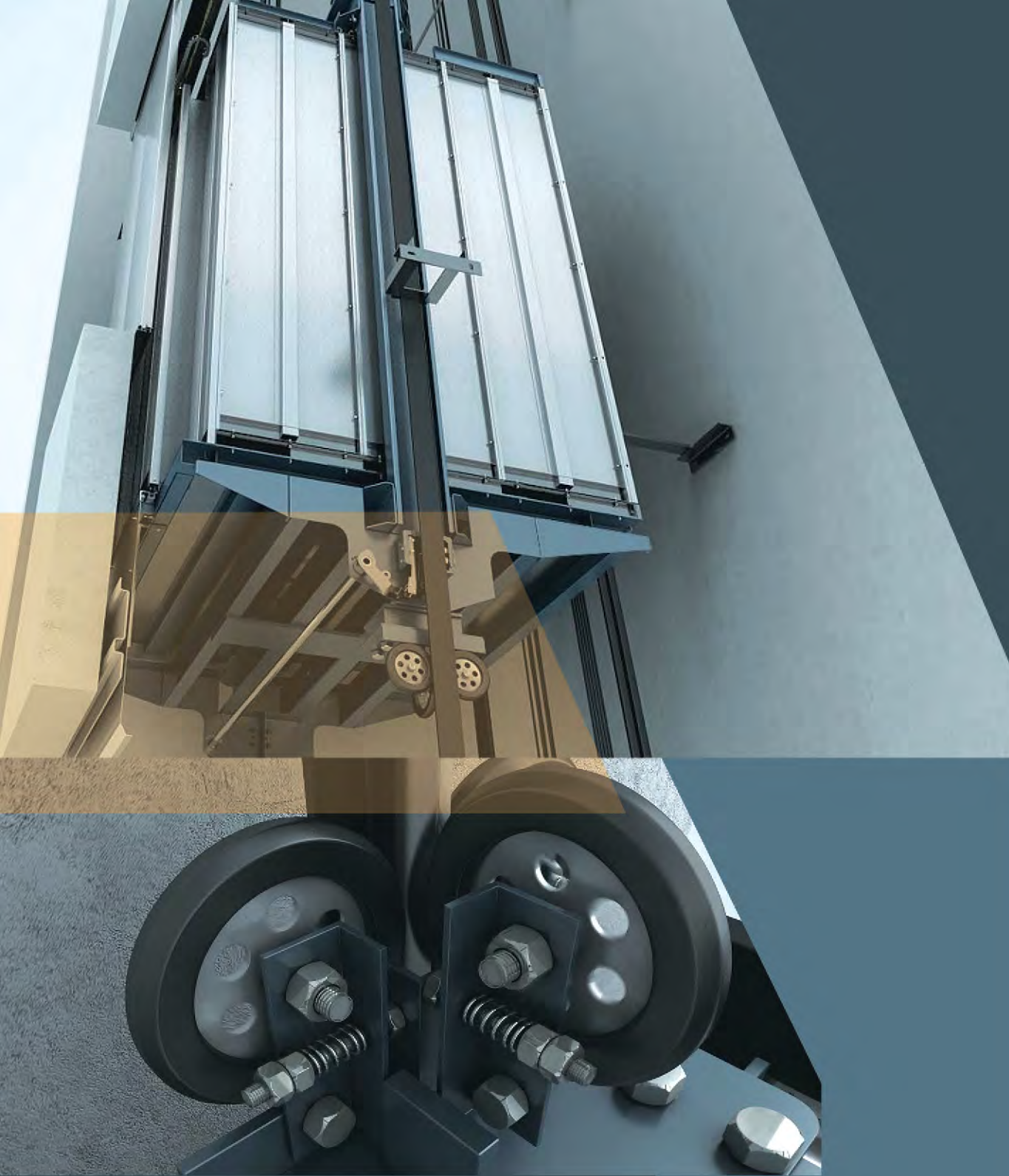
High precision encoder ensures the operation of door open is smoother and steadier.

Built-in door close force monitoring system ensures safety of passengers.

The system adopts unique anti-drop design which can still operate safely even after being impacted by 450J.

It has super light curtain protection function, good resistance to light interference and conforms to the EMC test standards.





HIGH-END ELEVATOR DESIGN CONCEPT

Comprehensive application of roller guide shoe effectively reduces the running resistance, makes the elevator run more smoothly, reflects green environmental protection idea, without lubrication, and thoroughly gets rid of oil pollution in the shaft.

ULTRA-THIN HALL CALL BOX

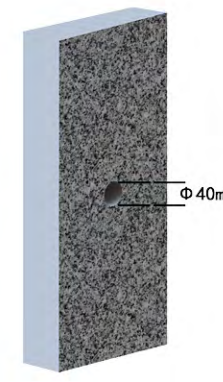
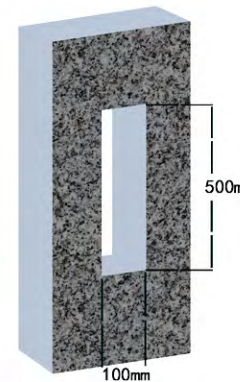


Novel appearance, clear display

EASY TO FIX NO NEED CIVIL WORK OPENING

Traditional box type

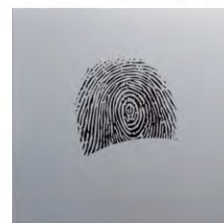
No box type



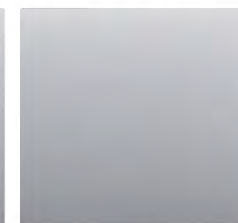
Traditional box type: need civil work opening, time consuming.
No box type: no need civil work preopening only need embedded pipeline, easy repair and maintenance .

CHROMIUM FREE AND FINGERPRINT PROOF PANEL

Advanced self cleaning appearance technology



Common material



Chromium free and fingerprint proof panel

No fingerprints board has high surface hardness, strong corrosion resistance and friction resistance; it has characteristics of novelty, environmental protection, great wearing property, strong stereoscopic effect, health and beauty, etc; Its Color is lasting clean, and it also has the feature of strong detergency, being easy to clean, resisting the fingerprint. The whole series of operation panel adopts fingerprint resistant plate.

MEET

INDIVIDUALIZED NEED



K233 (Standard)

Elegant and tasteful car design is perfectly combined with concise and smooth car ceiling creating a comfortable and quiet space.



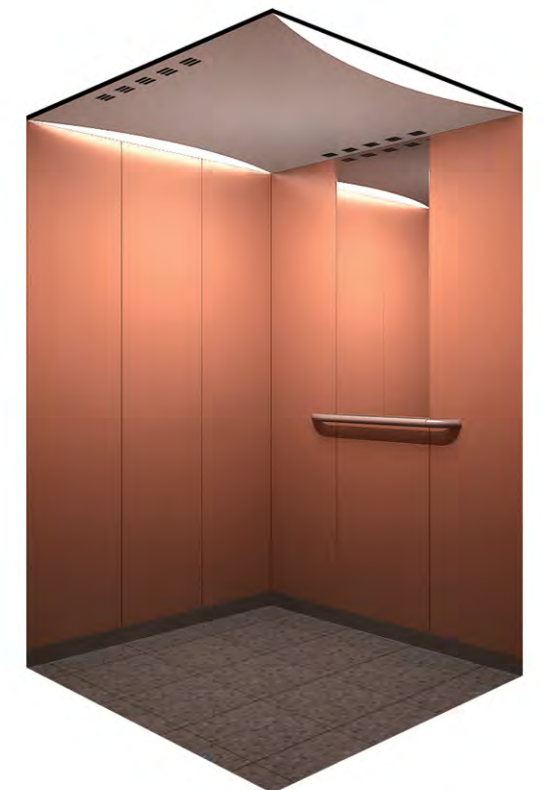
Car ceiling:	PS005 Painted steel sheet RAL1013, acrylic light cover
Car front wall:	Painted steel sheet RAL1013
Car side wall:	Painted steel sheet RAL1013
Door Transom:	Painted steel sheet RAL1013
Car door:	Painted steel sheet RAL1013
Floor:	Plastic floor, MA-018
COP:	C169Q SUS304 stainless steel panel.

(computer drawing. May vary from the actual product)



K234

Individualized car design and beautiful and tasteful inner decoration make passengers feel safe, comfortable and warm.

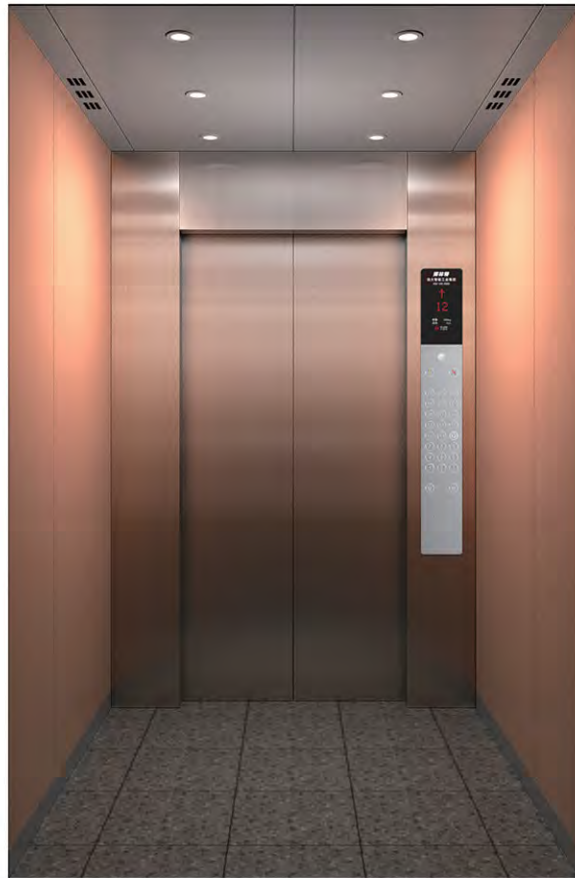


Car ceiling:	PS003 painted steel sheet RAL9003, acrylic light cover
Car front wall:	painted steel sheet RAL2003
Car side wall:	painted steel sheet RAL2003
Door Transom:	painted steel sheet RAL2003
Car door:	painted steel sheet RAL2003
Car rear wall:	painted steel sheet RAL2003 + Mirror finished stainless steel
Floor:	Plastic floor, MA-025
Handrail:	BLT-H112 painted RAL9003
COP:	C169Q SUS304 stainless steel panel.

(computer drawing. May vary from the actual product)

MEET

INDIVIDUALIZED NEED



K235

Exquisite car design is combined with the arc-shaped decoration ceiling design effectively increasing car height and making passengers feel more comfortable.



Car ceiling:	PS004 painted steel sheet RAL9003, down light.
Car front wall:	Hairline stainless steel
Car side wall:	painted steel sheet RAL1034
Car rear wall:	Hairline stainless steel + Mirror finished stainless steel
Door Transom:	Hairline stainless steel
Car door:	Hairline stainless steel
Floor:	Plastic floor, MA-025
COP:	C169Q SUS304 stainless steel panel.
Handrail:	BLT-H112 painted RAL9003

(computer drawing. May vary from the actual product)



K236

Exquisite car design is combined with the arc-shaped decoration ceiling design effectively increasing car height and making passengers feel more comfortable.



Car ceiling:	PD060 Hairline stainless steel, acrylic light cover, down light.
Car front wall:	Hairline stainless steel
Car 3-side wall:	Hairline stainless steel
Door Transom:	Hairline stainless steel
Car door:	Hairline stainless steel
Floor:	Plastic floor, SJ-008
COP:	C169Q SUS304 stainless steel panel.

(computer drawing. May vary from the actual product)

MEET

INDIVIDUALIZED NEED



K237

Car design is compact and novel. Hairline stainless steel decoration is applied to car which is economical, beautiful and easy for maintenance.



Car ceiling:	PD057 Hairline stainless steel, acrylic light cover , down light.
Car front wall:	Hairline stainless steel
Car 3-side wall:	Hairline stainless steel
Door Transom:	Hairline stainless steel
Car door:	Hairline stainless steel
Floor:	Plastic floor, SJ-008
COP:	C169Q SUS304 proof steel panel.

(computer drawing. May vary from the actual product)

MEET

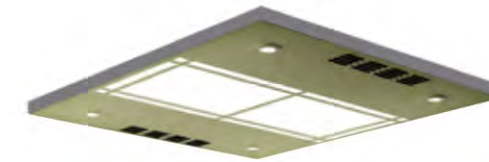
INDIVIDUALIZED NEED



PS004 (only painted)



PS003 (only painted)



PS005 (only painted)
(Standard)



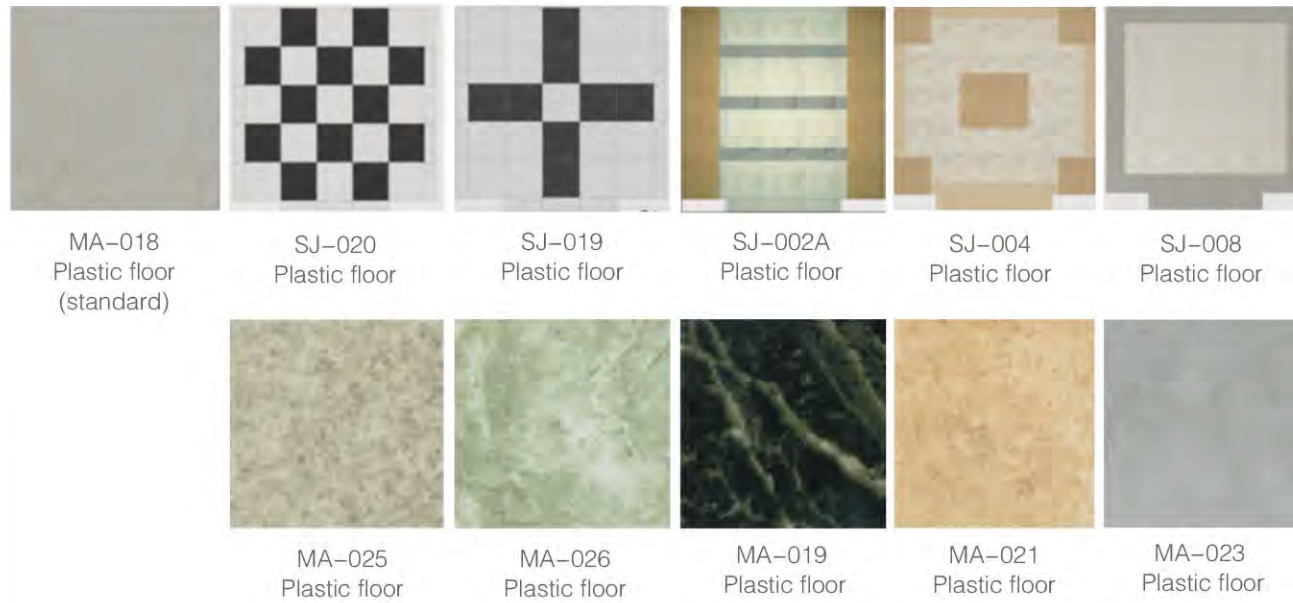
PD060
(painted /stainless steel)
acrylic light cover,down light



PD057
(painted /stainless steel)
acrylic light cover,down light

PS005	powder spray steel sheet RAL1013;standard
PS005	Powder spray steel sheet RAL6019; powder spray steel sheet RAL6027; powder spray steel sheet RAL7004; powder spray steel sheet RAL9003;
PS003	Powder spray steel sheet RAL1013; powder spray steel sheet RAL6019; powder spray steel sheet RAL6027; powder spray steel sheet RAL7004; powder spray steel sheet RAL9003;
PS004	Powder spray steel sheet RAL1013; powder spray steel sheet RAL6019; powder spray steel sheet RAL6027; powder spray steel sheet RAL7004; powder spray steel sheet RAL9003;
PD057	Hairline stainless steel; mirror stainless steel; etching stainless steel; Powder spray steel sheet RAL1013; powder spray steel sheet RAL6019; powder spray steel sheet RAL6027; powder spray steel sheet RAL7004; powder spray steel sheet RAL9003.
PD060	Hairline stainless steel; mirror stainless steel; etching stainless steel; powder spray steel sheet RAL1013; powder spray steel sheet RAL6019; powder spray steel sheet RAL6027; powder spray steel sheet RAL7004; powder spray steel sheet RAL9003;

CAR FLOOR



MATERIAL



HANDRAIL



BLT-H005 (Mirror stainless steel)



BLT-H006 (Mirror stainless steel + Acrylic + golden titanium mirror stainless steel)



BLT-H007 (Mirror stainless steel)



BLT-H009 (Hairline stainless steel)



BLT-H012 (Mirror stainless steel + sand blasting stainless steel)

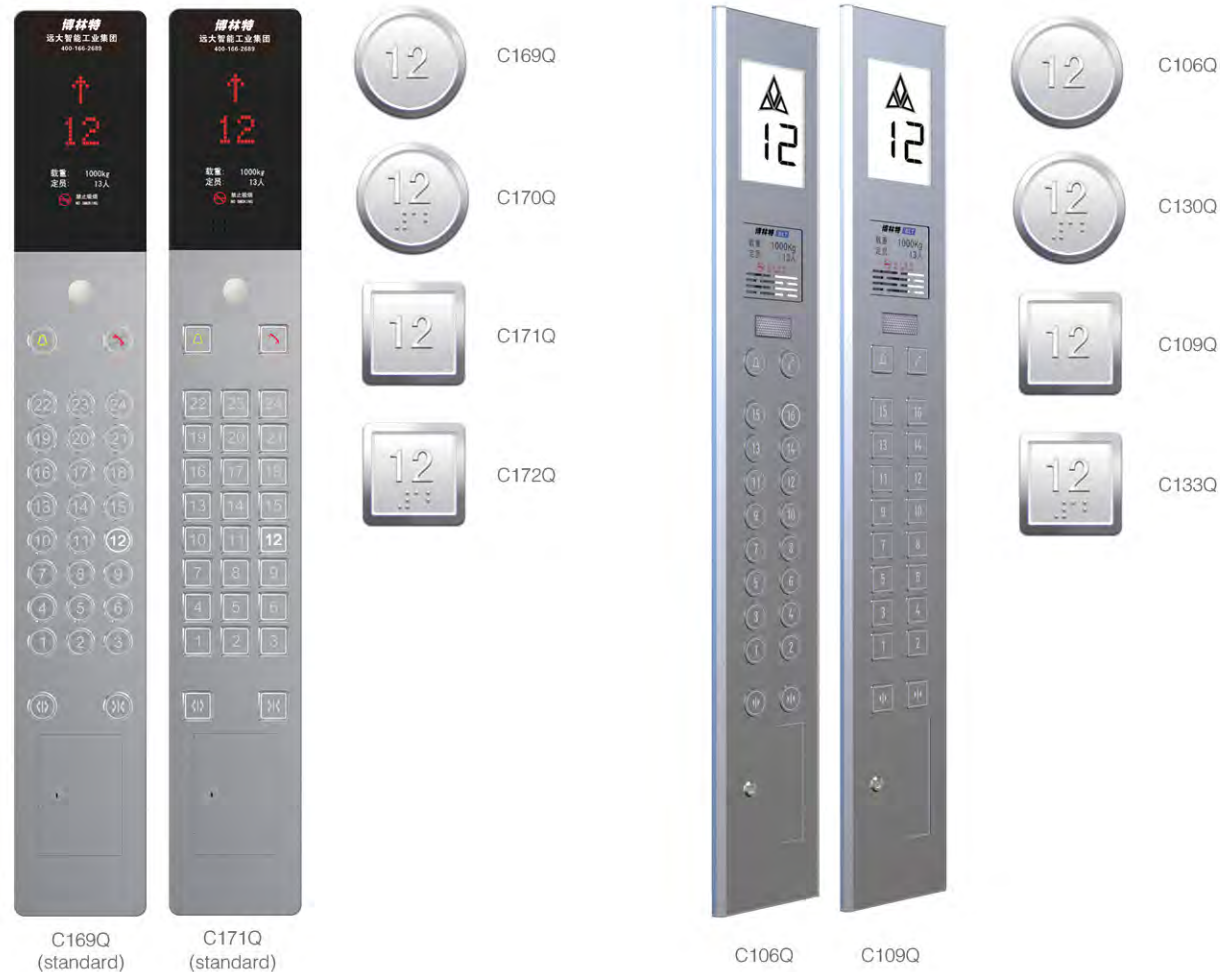


BLT-H011 (Stainless steel)



BLT-H112 (Painted RAL9003)

COP & HALL CALL



C169Q (standard)
C171Q (standard)

C106Q C109Q

C169Q	304 stainless steel panel; round white light no Braille button; dynamic dot matrix display
C171Q	304 stainless steel panel; square white light no Braille button; dynamic dot matrix display
C170Q	304 stainless steel panel; round white light Braille button; dynamic dot matrix display
C172Q	304 stainless steel panel; square white light Braille button; dynamic dot matrix display
C106Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light no Braille button; static segment code LCD (black text on white background)
C109Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light no Braille button; static segment code LCD (black text on white background)
C130Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light Braille button; static segment code LCD (black text on white background)
C133Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light Braille button; static segment code LCD (black text on white background)

(computer drawing. May vary from the actual product)



C107Q C110Q

C108Q C111Q

C107Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light no Braille button; static segment code LCD (white text on blue background)
C110Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light no Braille button; static segment code LCD (white text on blue background)
C131Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light Braille button; static segment code LCD (white text on blue background)
C134Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light Braille button; static segment code LCD (white text on blue background)
C108Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light no Braille button; static segment code LCD (white text on black background)
C111Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light no Braille button; static segment code LCD (white text on black background)
C132Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light Braille button; static segment code LCD (white text on black background)
C135Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light Braille button; static segment code LCD (white text on black background)

COP & HALL CALL



C137Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light no Braille button; color LCD
C139Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light no Braille button; color LCD
C136Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light Braille button; color LCD
C138Q	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light Braille button; color LCD

H189A	304 hairline stainless steel panel; round white light no Braille button; dynamic dot matrix display
H189AB	304 hairline stainless steel panel; round white light no Braille button; dynamic dot matrix display, duplex
H191A	304 hairline stainless steel panel; square white light no Braille button; dynamic dot matrix display
H191AB	304 hairline stainless steel panel; square white light no Braille button; dynamic dot matrix display, duplex
H190A	304 hairline stainless steel panel; round white light Braille button; dynamic dot matrix display
H190AB	304 hairline stainless steel panel; round white light Braille button; dynamic dot matrix display, duplex
H192A	304 hairline stainless steel panel; square white light Braille button; dynamic dot matrix display
H192AB	304 hairline stainless steel panel; square white light Braille button; dynamic dot matrix display, duplex

(computer drawing. May vary from the actual product)



H118A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light no Braille button; static segment code LCD (black text on white background)
H118AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light no Braille button; static segment code LCD (black text on white background), duplex
H121A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light no Braille button; static segment code LCD (black text on white background)
H121AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light no Braille button; static segment code LCD (black text on white background), duplex
H175A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light Braille button; static segment code LCD (black text on white background)
H175AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light Braille button; static segment code LCD (black text on white background), duplex
H178A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light Braille button; static segment code LCD (black text on white background)
H178AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light Braille button; static segment code LCD (black text on white background), duplex



H119A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light no Braille button; static segment code LCD (white text on blue background)
H119AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light no Braille button; static segment code LCD (white text on blue background), duplex
H122A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light no Braille button; static segment code LCD (white text on blue background)
H122AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light no Braille button; static segment code LCD (white text on blue background), duplex
H176A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light Braille button; static segment code LCD (white text on blue background)
H176AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light Braille button; static segment code LCD (white text on blue background), duplex
H179A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light Braille button; static segment code LCD (white text on blue background)
H179AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light Braille button; static segment code LCD (white text on blue background), duplex

COP & HALL CALL



H120A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light no Braille button; static segment code LCD (white text on black background)
H120AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light no Braille button; static segment code LCD (white text on black background), duplex
H123A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light no Braille button; static segment code LCD (white text on black background)
H123AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light no Braille button; static segment code LCD (white text on black background), duplex
H177A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light Braille button; static segment code LCD (white text on black background)
H177AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; round white light Braille button; static segment code LCD (white text on black background), duplex
H180A	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light Braille button; static segment code LCD (white text on black background)
H180AB	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; square white light Braille button; static segment code LCD (white text on black background), duplex



H182A	304 hairline stainless steel panel; round white light no Braille button; color LCD
H182AB	304 hairline stainless steel panel; round white light no Braille button; color LCD, duplex
H184A	304 hairline stainless steel panel; square white light no Braille button; color LCD
H184AB	304 hairline stainless steel panel; square white light no Braille button; color LCD, duplex
H181A	304 hairline stainless steel panel; round white light Braille button; color LCD
H181AB	304 hairline stainless steel panel; round white light Braille button; color LCD, duplex
H183A	304 hairline stainless steel panel; square white light Braille button; color LCD
H183AB	304 hairline stainless steel panel; square white light Braille button; color LCD, duplex



H124C	Circular arc ultra thin wall-mounted no display, 304 hairline stainless steel panel; round white light no Braille button
H126C	Circular arc ultra thin wall-mounted no display, 304 hairline stainless steel panel; square white light no Braille button
HB333	Circular arc ultra thin wall-mounted no display, 304 hairline stainless steel panel; round white light Braille button
HB334	Circular arc ultra thin wall-mounted no display, 304 hairline stainless steel panel; square white light Braille button



H125C	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; no display, round white light no Braille button
H127C	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; no display, square white light no Braille button
HB330	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; no display, round white light Braille button
HB331	Aluminum alloy frame 304 stainless steel fingerprint-proof panel; no display, square white light Braille button

(computer drawing. May vary from the actual product)

COP & HALL CALL



HF300
(standard)



HF330



H111G



H137G



H130G

HF300	Hairline stainless steel panel; circular arc panel upper and lower ends
HF330	Aluminum alloy frame 304 stainless steel fingerprint-proof panel
H111G	Hairline stainless steel panel; dot matrix display
H137G	Hairline stainless steel panel; 6.4-inch segment code LCD
H130G	Hairline stainless steel panel; color LCD



C178G
304 hairline stainless steel panel; wall-mounted structure; round white light stainless steel sand blasting contact face Braille button

HALL LANTERNS



HD020

Hairline stainless steel, vertical installation, ultra thin wall-mounted, with hall arrival chime, white column lamp



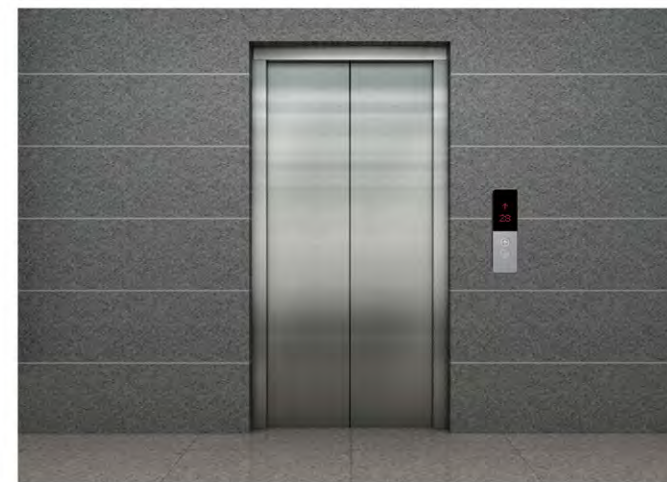
HD021

Hairline stainless steel, horizontal installation, ultra thin wall-mounted, with hall arrival chime, white triangle lamp

DOOR JAMB



Standard: Painted Steel Narrow Door Jamb



Option: Hairline Stainless Steel Wide Door Jamb
"Only For Normal Door,Not for fire-proof Door"



Option: Hairline Stainless Steel Large Door Jamb
"Only For Normal Door,Not for fire-proof Door"

(computer drawing. May vary from the actual product)

STANDARD FUNCTION

- 1 Full collective selective control**
In the state of automatic operation the elevator automatically responds to car and hall calls signals. Passengers on every floor can register up and down call signals to call the elevator.
- 2 Door open time setting**
According to set time, the system can distinguish holding time for door open of hall call, car call, door protection and delay.
- 3 Service floor setting**
The system can choose to close or activate single or multiple elevator service floors as needed.
- 4 Timing service**
The system can flexibly set the time and floors for service.
- 5 Door pre-close by the door close button**
During door open holding in automatic running state, passengers can press the door close button to close the door in advance, which improves the efficiency.
- 6 Light curtain protection**
When the light curtain is blocked during door closing, the door will open again. But light curtain protection doesn't work in the state of firefighting.
- 7 Automatic car light and ventilation fan shut off**
If no call or call registration is registered after set time, car light and fan are automatically shut off. If a call is received, light and fan are switched on again.
- 8 Automatic door open upon door lock abnormality**
If the system detects that the door lock circuit is abnormal during door open/close, the elevator automatically opens and closes the door again, and reports a fault after the set door open/close times is reached.
- 9 Landing at another floor**
If door open limit signal is still invalid after door open time exceeds protection time, elevator will automatically run to the nearest floor.
- 10 Response and landing during acceleration**
For calls during the acceleration, elevator will respond to the calls and land.
- 11 Cancellation of wrong car calls**
Passengers can press the button consecutively twice to cancel wrong car calls.
- 12 Attendant running**
In attendant state, the running of the elevators is controlled by the attendant.
- 13 Self-rescue at low speed**
When elevator is under normal service and doesn't stop at the leveling zone, elevator will move to the leveling zone with slow speed as long as it meets the safety requirements of starting.
- 14 Button stuck diagnosis**
The control system can automatically identify whether a hall call button is stuck and cancel the stuck call, preventing the condition that the elevator cannot close the door.
- 15 Startup torque automatic compensation**
The system automatically implements startup torque compensation based on the current car load, achieving smooth startup and the riding comfort.
- 16 Direct landing**
The control system automatically calculates to generate running curve and directly land at leveling position without creeping.
- 17 The best curve automatic generation**
The control system automatically generates speed curve which is most suitable for human-machine function principle.
- 18 Record of running times**
Elevator can record the running times automatically.
- 19 Record of running time**
Elevator can record the actual running time automatically.
- 20 Independent travel**
All hall call signals are cancelled, elevators only respond to the car call signals.
- 21 Overload indication**
When the load in car is more than related load, the elevator door will keep opening and there will be overload indication in the car.
- 22 Full load indication**
Landing indicator shows the elevator is in the state of full load.

STANDARD FUNCTION

- 23 Full load bypass**
In the state of full load the elevator only responds to car call signals.
- 24 Electronic weighing**
An electronic weighing device measures car load accurately.
- 25 Non-leveling zone protection**
If the control system detects landing door or car door has been opened while the elevator is in the non-leveling zone, the car operation will be stopped.
- 26 Fault data record**
The control system can record the detailed fault information automatically to improve the efficiency of maintenance.
- 27 Simple maintenance keypad**
The keypad provides the functions, such as commissioning the running floors, door opening, closing and etc.
- 28 Commissioning in car**
The hand operation panel can be connected to the system in the car for elevator commissioning, which improves commissioning efficiency.
- 29 Hoistway self-learning function**
The elevator runs to the highest floor from the lowest floor at inspection speed and save all of the parameters automatically in the operational process.
- 30 Inspection running**
During inspection, the control system will cancel automatic operation of elevator and door. Pushing up (or down) button can make the elevator inch at inspection speed.
- 31 Motor parameters tuning**
By parameters setting, the system can complete learning of the related control parameters of motor with or without load.
- 32 Floor position intelligent correction**
When elevator arrives at terminal floor, the system will automatically check and correct car position information and completely eliminate faults for over travel top terminal or bottom terminal.
- 33 Fire emergency travel**
Elevator will cancel registered calls, return to firefighting main floor and keep doors open after receiving fire signal.
- 34 Fire emergency travel indication**
During fire emergency travel landing operation indicator displays fire emergency travel.
- 35 Fireman service operation**
Under the mode of fireman service operation the elevator only can open or close the door by constantly pushing open or close buttons. At this time the elevator only responds to car calls (Only one car call can be registered every time.)
The longest traveling time shall be less than 60s (standard function)
- 36 Firefighting "No entry" indication**
In case of fire and elevator on the firefighting floor, the "No entry" light on the fire box will be lit.
- 37 Firefighting feedback**
When elevator receives the fire alarm signal or fireman service signal, it will return to the firefighting floor to provide relay output interface for fire-service center or BAS system.
- 38 Parking switch**
In the state of automatic operation, if elevator parking switch is actuated, the elevator will return to main floor and stop automatic running.
- 39 Troubleshooting based on fault levels**
Faults are classified into different levels based on the severity. Different levels of faults are rectified by using different methods to improve efficiency.
- 40 Overspeed stop running**
If the elevator speed exceeds the limit, the elevator immediately stops running.
- 41 Terminal floor data correction**
If the system detects the abnormal location, the elevator will travel to the terminal level for inspection in order to secure the safety and reliability of the system.

STANDARD FUNCTION

42 Passenger rescue first

Elevator classifies the fault levels automatically, and it will return to leveling position to let passengers get out under the condition of safe running.

43 Light load anti- nuisance function

The number of car calls registered at the same time is limited under light load.

44 Intercom

A five-way intercom linking car top, the car, the pit, the machine room, and the monitoring room is provided.

45 Alarm bell

When the alarm bell button is pushed, the alarm bell will ring.

46 Parameter copying

Uploading and downloading parameters to control system by hand-held operator.

47 Parameter inspection

Use this function to find out the parameters set by system which are not insistent with original parameters.

48 Special display

The system is able to set the display if non-sequenced floor display in car and hall is requested by the customer.

49 Running direction and floor display

The floor number on which the elevator is and current running direction is displayed on car operation panel and landing call box.

50 Door open with floor button

Before elevator starts, push the button on this floor, the car door will be opened automatically.

51 Reverse hall call registration

The call will be registered if the call direction of this floor is not in the travel direction.

52 Anti-slip protection

The elevator will stop running when steel wire rope slipping is detected.

53 Power failure data holding

All running data will be saved completely and correctly when the power supply is cut off.

54 Automatic main floor returning

Under automatic travel, the elevator will return to the main floor waiting if there is no car call or hall call for a period of time. The elevator will respond to any call immediately during the process of returning to the main floor.

55 Emergency car lighting

Emergency lighting in car will turn on automatically during power failure.

56 Landing display of out-of-service

Landing indicator shows the out-of-service state of elevator.

57 Door interlock short-circuit protection

Elevator would stop and send out alarm message when short circuit of door interlock is detected. The elevator will not operate until the fault is eliminated.

58 Brake monitoring function

The system automatically monitors the working condition of the brake to ensure the reliable operation of the brake.

59 Motor overheat protection

The system monitors whether the motor is overheated, the elevator will stop until the motor recovers to normal condition.

60 Interference evaluation

Conduct interference evaluation on communication signal transmission to reflect the current interference degree.

61 Current ramp removal

In the application field of the permanent magnet synchronous motor, after the elevator decelerates to stop running, the holding current of motor is removed by the way of ramp to avoid abnormal motor noise in this process.

62 Program run WDT protection

WDT detects continuously if the program runs incorrectly. All output instructions will be cut off and system will be reset when mistakes are found.

63 Hall call registration and memory display

When an order or hall call button is pushed, the button illuminates for call accepted. The elevator will start traveling.

OPTIONAL FUNCTION

1 Duplex running

The duplex control aims at fulfilling two lifts' coordinated responding to the landing call through the data transmission from serial communication bus so that it can enhance the lift running efficiency.

2 Group control running

The group control means the concentrated control of the multiple elevators. The system can have a group control of maximum 8 elevators. In using the group control system, the elevator group can automatically choose the most appropriate response so as to avoid the repeated elevator stop, reduce the passengers' waiting period and increase the running efficiency, save the electric energy.

3 Distribution waiting

Each elevator lands on different floor ready for calling under duplex or group control Optional when*1 function available.

4 Peak service

If the car calling is up to 3 on peak floor during peak time, then it turns to be peak time service. The car calling will be always valid during peak time, and then the elevator will return to the peak floor when idle. Two different peak time can be set. Optional when*1 Function available.

5 IOT function

Through a computer which connected to internet in the monitoring or remote monitoring room, elevators' location, running direction, fault state etc can be monitored. (IOT function could be connected wirelessly with cell-phone data card for which would be paid to telecommunication supplier by customers for the special service, and this situation needs a good signal in the machine room.)

6 Integrated light curtain and door safety edge

Integrated light curtain provides dual protection of light curtain and safety edge.

7 Door nudging

When door nudging function is started, the elevator will enter door nudging state and slowly close the door with buzzing in the event the elevator cannot close door in excess of set time due to light curtain action. The function is optional when the elevator has integrated light curtain or safety edge.

8 Car arrival gong

After elevator arrives at destination landing according to passengers' requirements, there will be prompting signal from car top board. The function is included when there are functions of voice announcement or background music.

9 Arrival gong cancellation at night

Within the set time period, the arrival can be cancelled. The function is optional when there is car arrival gong.

10 Earthquake emergency travel

When the seismic sensors are actuated, all elevators will stop promptly at the nearest available floor and park there with doors open.

11 ARD(automatic rescue device)

If the elevator suddenly stops the running in the mid way due to power failure, this device will actuate rapidly to slowly drive lift to the leveling position. After the leveling, it opens the door to rescue the passengers.

12 Standby power transfer device

A standby power transfer device is provided. (Three-phase 380V automatic transfer device can be provided by us, and automatic transfer device of other voltage classes are provided by customers)

13 Standby power transfer device interface

Standby power transfer device interface is provided.

14 Voice announcement function

Such information as running direction and arrival floors are automatically announced to passengers in the process of running.

15 Background music function

Melodious background music is provided in car when elevator is put into operation.

16 Pre-opening

When the elevator normally decelerates to the destination landing door zone, if it satisfies the function of opening the door ahead of time, it will do so.

17 Releveling

After the elevator parks at the current floor, as too much passengers enter into or leave the elevator, it results in the expansion or shrink of the steel rope, the car will be separated from the leveling zone. Under the door open conditions, the lift will start the low speed running to the leveling point.

18 Hall lantern

When the elevator arrives at destination floor, hall lantern will be lit.

19 Security floor

After the security floor function is enabled, the security floor is used at 10:00 p.m. to 6:00 a.m, and the elevator runs to the security floor first every time, stops and opens the door, and then runs to the destination floor.

20 Car camera interface reserved

Coaxial communication cable is included in traveling cable. The function is included when there is car camera device.

21 Car camera device

Cameras are installed in car to monitor situation in car.

22 Automatic lock elevator

Make elevator enter into and exit the state of lock elevator automatically by setting automatic lock elevator period in control system.

23 Auxiliary car operation panel

This panel can be conveniently used for passengers in large-capacity elevators.

24 Operation panel for the disabled

The operation panel is designed for the disabled and has such functions as door open and close, floor selection and sending out rescue signals under special circumstance.

25 Through opening door function

When there are two doors for a car, automatic control on the two doors depends on your requirements.

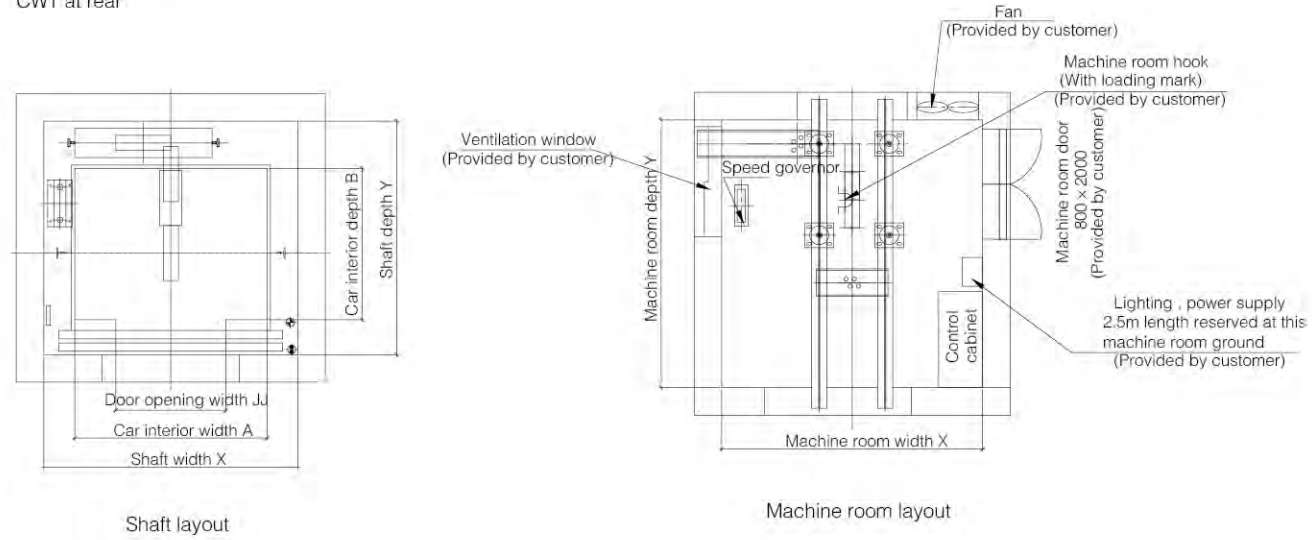
26 IC card

Passengers need to use the IC card to go to floors that require authorization.

PLANFORM OF HOISTWAY/MACHINE ROOM

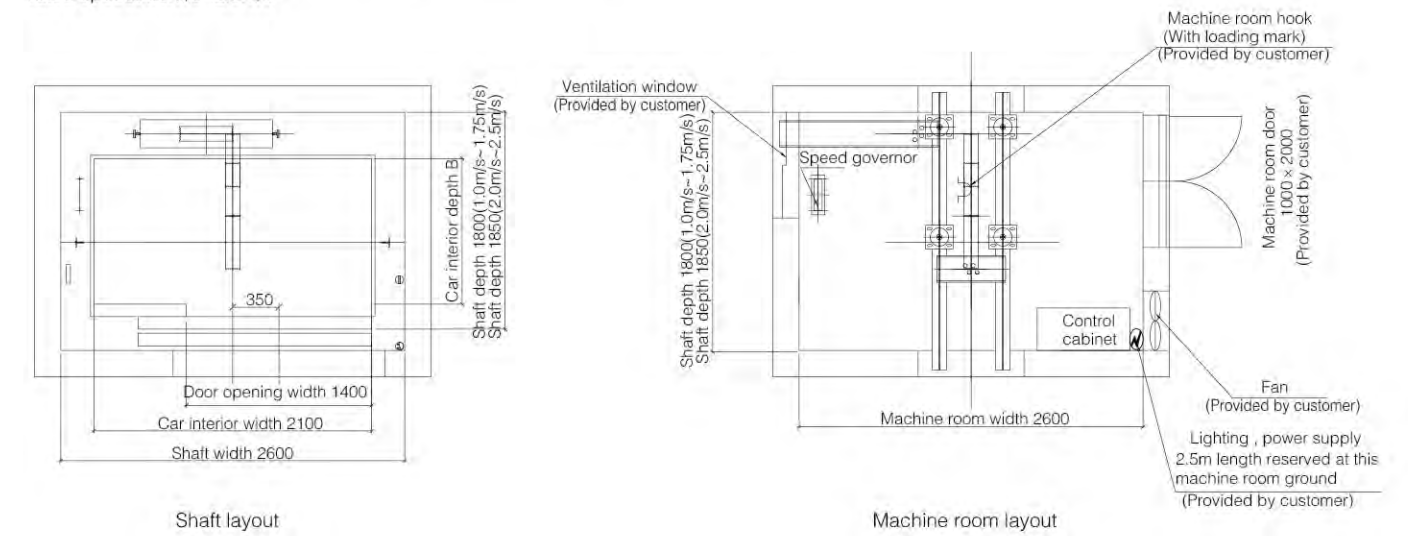
Shaft / Machine room layout

CWT at rear

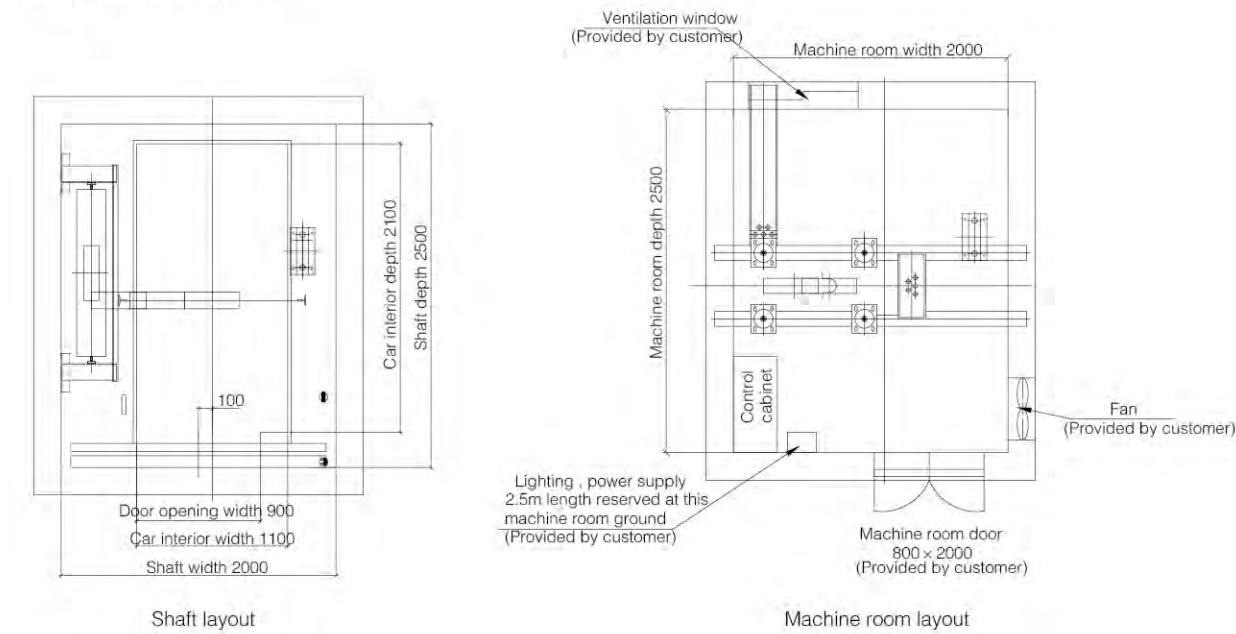


Shaft / Machine room layout

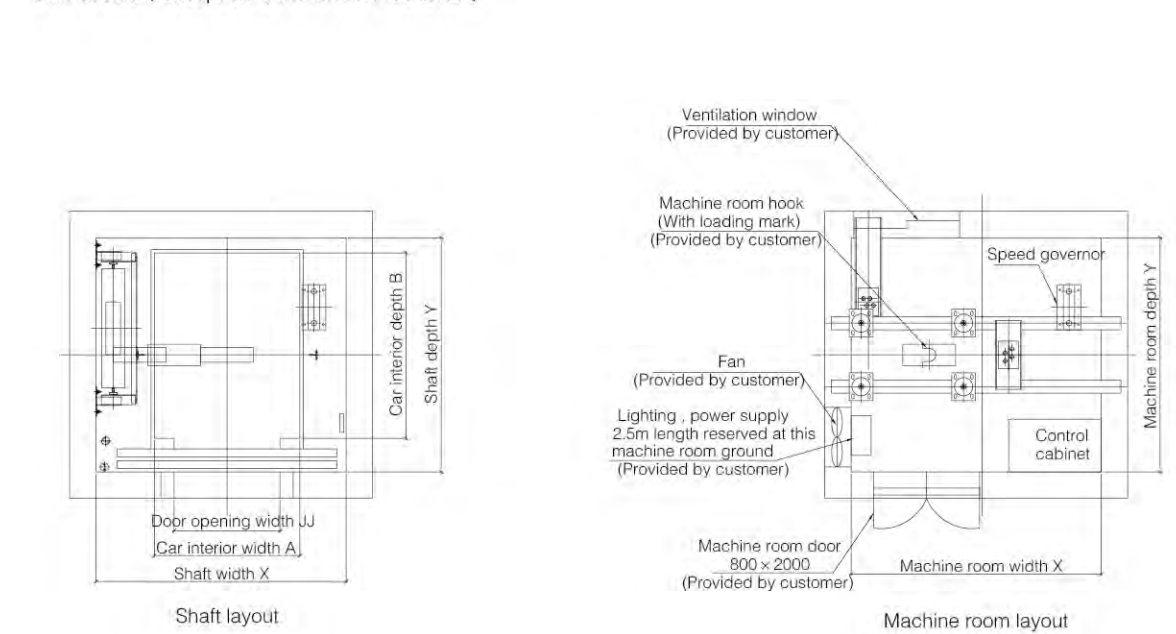
Rated load : 1000Kg car dimensions:2100 × 1100, CWT at rear,
rated speed:1.0m/s~2.5m/s



Rated load: 1000Kg car dimensions:1100 × 2100, CWT at side,
rated speed:1.0m/s~2.5m/s



CWT at side (except car dimensions:1100*2100)



The above figure shows the plan of the shaft when door is center-opening and CWT is set at left side. The figure is symmetrical to the above one when the CWT is set at right side.

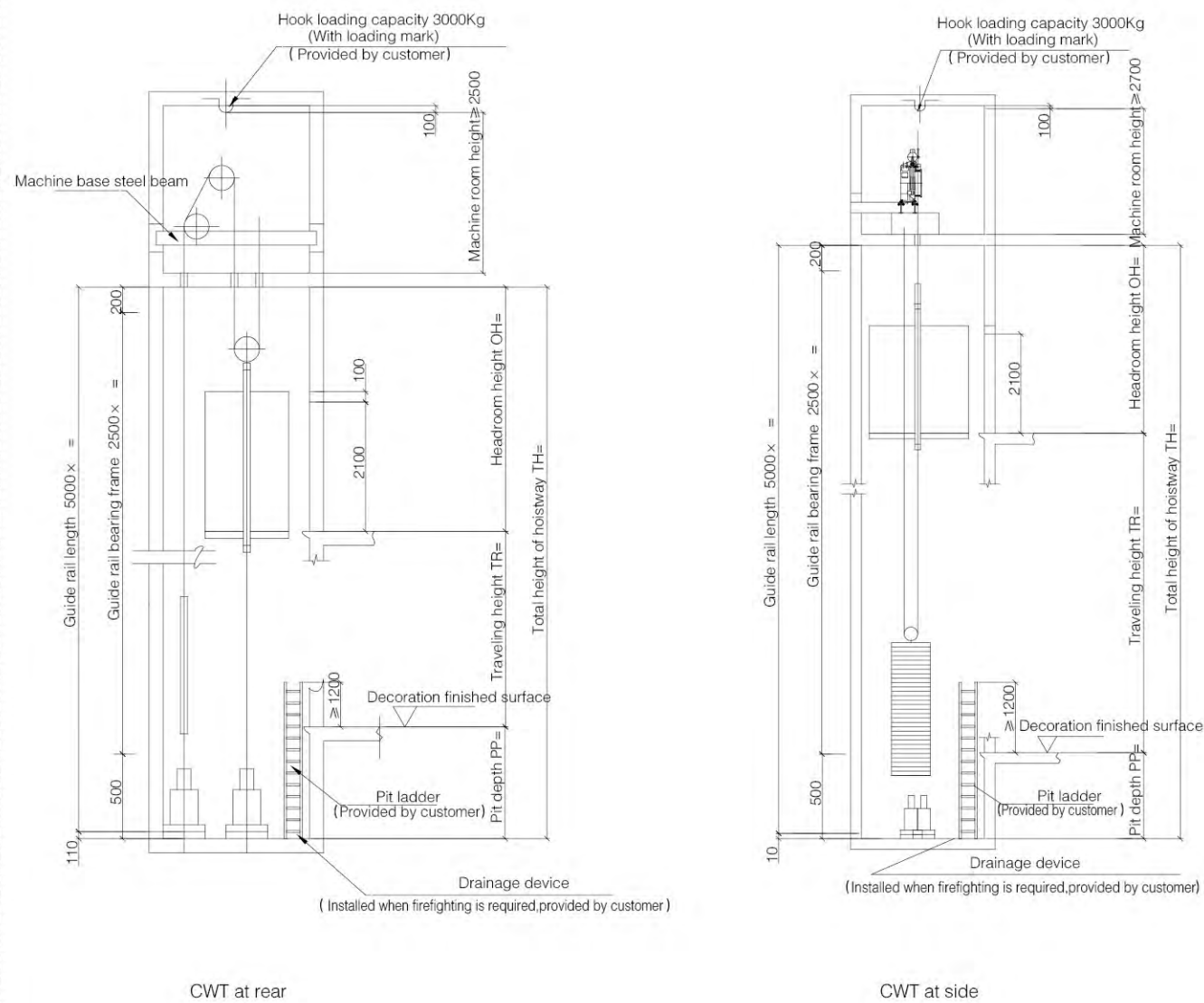
The above figure is for CWT at left side, and the figure for CWT at right side is symmetrical to the above figure.

The above figure is for CWT at left side, and the figure for CWT at right side is symmetrical to the above figure.

PLANFORM OF

HOISTWAY/MACHINE ROOM

Shaft elevation



PLANFORM OF

HOISTWAY/MACHINE ROOM

Load (kg)	Rated speed (m/s)	Car dimension (AXB) (mm)	Door dimension (JJXDH) (mm)	Hoistway dimension (X × Y) (mm)	Machineroom dimension (X × Y) (mm)
400	1.0-1.75	1000 × 1000 × 2300/2450	CO 700 × 2100	1600 × 1525	1900 × 1525
		1250 × 1000 × 2300/2450	CO 700 × 2100	1650 × 1525	1950 × 1525
450	1.0-1.75	1000 × 1250 × 2300/2450	CO 700 × 2100	1600 × 1775	1900 × 1775
		1400 × 850 × 2300/2450	CO 800 × 2100	1850 × 1400	1850 × 1400
630	1.0-1.75	1400 × 1100 × 2300/2450	CO 800 × 2100	1850 × 1700	1850 × 1700
		1100 × 1400 × 2300/2450	CO 800 × 2100	1890 × 1770	1890 × 1770
800	1.0-2.5	1350 × 1400 × 2300/2450	CO 800 × 2100	1800 × 2000	1800 × 2000
		1350 × 1400 × 2300/2450	CO 800 × 2100	2015 × 1770	2015 × 1770
900	1.0-2.5	1400 × 1350 × 2300/2450	CO 800 × 2100	1850 × 1950	1850 × 1950
		1600 × 1350 × 2300/2450	CO 900/1000 × 2100	2000/2200 × 1950	2000/2200 × 1950
1000	1.0-2.5	1500 × 1500 × 2300/2450	CO 900 × 2100	2000 × 2100	2000 × 2100
		1600 × 1400 × 2300/2450	CO 900/1000 × 2100	2000/2200 × 2000	2000/2200 × 2000
		1600 × 1400 × 2300/2450	CO 900 × 2100	2260 × 1770	2260 × 1770
		1600 × 1500 × 2300/2450	CO 900/1000 × 2100	2000/2200 × 2100	2000/2200 × 2100
		1100 × 2100 × 2300/2450	CO 900 × 2100	2000 × 2500	2000 × 2500
1000	1.0-1.75	2100 × 1100 × 2300/2450	2S 1400 × 2100	2600 × 1800	2600 × 1800
	2.0-2.5	2100 × 1100 × 2300/2450	2S 1400 × 2100	2600 × 1850	2600 × 1850
1000	1.0-2.5	2100 × 1100 × 2300/2450	CO 1100 × 2100	2600 × 1705	2600 × 1705
		2100 × 1100 × 2300/2450	CO 1100 × 2100	2600 × 1705	2600 × 1705
1150	1.0-2.5	1800 × 1450 × 2300/2450	CO 1000 × 2100	2300 × 2050	2300 × 2050

Rated speed (m/s)	Pit depth (mm)	Headroom height (mm)
1.0	1300	4000/4150
1.6	1300	4100/4200
1.75	1350	4150/4250
2.0	1550	4250/4400
2.5	1650	4500/4650