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BLT HOME LIFT

TECHNOLOGY LEADS THE MARKET
SERVICES CREATE VALUE

CONTACT US

INDIA

E-mail: bit.india@bltcn.cn
Tel: +86 24 25162850

AFRICA

E-mail: bit.french@bltcn.cn
bit.africa@bltcn.cn
Tel: +86 24 25162875
+86 24 25162842

PERU

E-mail: bit.peru@bltcn.cn
Tel: +86 24 25162849

SINGAPORE

E-mail: bit.sg@bltcn.cn
Tel: +86 24 25162861

MONGOLIA

E-mail: bit.elevator@yahoo.com
Tel: 00976-99082518

NORTH AMERICA

E-mail: bit.northamerica@bltcn.cn
Tel: +86 24 25162868

OCEANIA

E-mail: bit.oceania@bltcn.cn
Tel: +86 24 25162767

CENTRAL AMERICA

E-mail: bit.centralamerica@bltcn.cn
Tel: +86 24 25162769

CENTRAL & SOUTH AMERICA

E-mail: bit.america@bltcn.cn
Tel: +86 24 25162767

SOUTH AMERICA

E-mail: bit.southamerica@bltcn.cn
Tel: +86 24 25162770

EAST ASIA

E-mail: bit.korea@bltcn.cn
Tel: +86 24 25162859

CENTRAL ASIA

E-mail: bit.cis@bltcn.cn
Tel: +86 24 25162836
E-mail: bit.kz@bltcn.cn
Tel: +86 24 25162893
Tel: +86 24 25162838

SOUTHEAST ASIA

E-mail: bit.asia@bltcn.cn
Tel: +86 24 25162858
E-mail: bit.yt@bltcn.cn
Tel: +86 24 25162853

MIDDLE EAST

E-mail: bit.mideast@bltcn.cn
Tel: +86 24 25162854

RUSSIA

E-mail: vostok.russia@bltcn.cn
Tel: +86 24 25162894
E-mail: zapad.russia@bltcn.cn
Tel: +86 24 25162890

EUROPE

E-mail: bit.baltic@bltcn.cn
E-mail: bit.europe@bltcn.cn
Tel: +86 24 25162857

SHENYANG YUANDA INTELLECTUAL INDUSTRY GROUP CO., LTD.

Add: No.27, Development Road, Shenyang Economic & Technology
Development Zone, China

P.C: 110027

Fax: +86 24 25162790 +86 24 25162844

<http://www.bltelevator.com>

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 Kazakhstan. 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





Home Lift



Home Lift

This series of home lifts adopt the design of machine roomless, backpack frame structure and 2:1 drive mode to make users reduce the investment on machine room and shaft. The whole elevator is so compact and exquisite that it can minimize the construction cost. Meanwhile, it will be the best choice for villa and high-quality residential buildings due to its complete safety device and abundant decorative styles.

Compact and Exquisite control cabinet

All controllers including inverter are put in the compact and exquisite control cabinet which was researched and developed by BLT and installed in the shaft, and it makes possible the zero occupation at the entrance of top landing door and enhances anti-interference ability. It not only reduces the harm (noise, electromagnetic radiation, etc.) to indoor environment, but also makes it completely blend with the green and cozy indoor environment.

Green and Environmental Traction System

The permanent magnetic synchronous ROMEO traction machine, with small size and high efficiency, was researched and developed by BLT so it can be in normal running with domestic alternating current. Its gear box differs from that of traditional geared asynchronous traction machine being free of maintenance and gear oil pollution. This product has passed CSA certification and has been exported to American market for a long time being the guarantee of performance and credit.

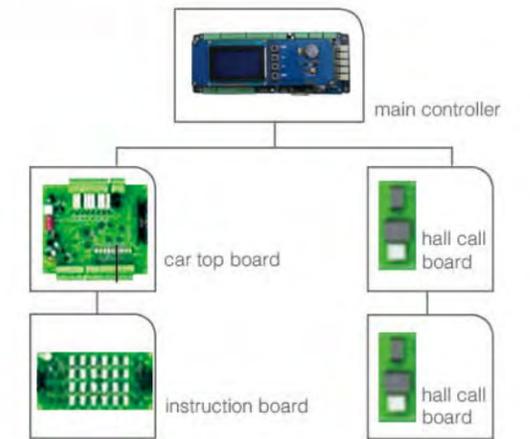
Greatly Ingenious Shaft Arrangement

The design of shaft arrangement is highly humanized. The shaft area, pit depth and top landing height are minimized to save construction cost and increase the using space for users.



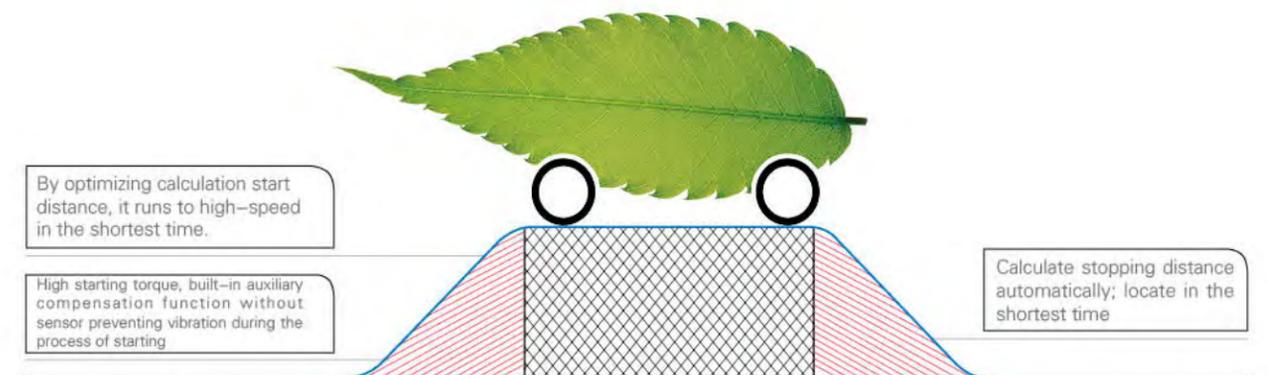
Excellent Special Control System for Home Lift

- While we are absorbing advanced design idea on control system from Germany, we still keep moving on innovating, and we have developed smart special control system for home lift.
- Industrial-strength 32-bit ARM framework microprocessor is adopted as main control chip, with the main frequency up to 72MHZ, and the high speed arithmetic capability.
- Portable system management and accurate history data storage provide professional analysis and maintain data intelligently.
- Mature industrial bus technology, low electromagnetic radiation and radio frequency interference, transmission speed up to 25KHZ.
- Adopting SMT (surface mounting technology), with high reliability and strong seismic resistance ability.



Advanced Vector Frequency Conversion System

The usage of advanced vector frequency conversion speed governing technology makes control more accurate, eliminates the discomfort, and makes the speed changes of starting, running and stopping take place unconsciously.



Electric brake release device and Power Failure Emergency Device (optional)

- Electric brake release device (Standard)
When passengers are trapped in the lift because of causes such as power failure, the professional maintenance personnel can use electric brake release storage battery to make traction machine brake open and move the lift slowly until the car arrives at leveling position and the trapped passengers are rescued.
- Power failure emergency device (optional)
When lift control system detects the power failure of external power grid and power failure emergency device is powering the system, the lift will move slowly until the car arrives at leveling position and the trapped passengers get out.





Innovative Traction System

Energy-saving/environmental/safe

Size can be reduced more than 30%
Electric energy can be reduced more than 40%



High efficient energy-saving environmental permanent magnetic synchronous traction machine

Innovative traction system

To meet the demands for villa or private residence, our company has researched and developed ROMEO permanent magnet synchronous gearless traction machine for villa lift, which has the features of novel appearance, special structure and strong practicality, and has passed CSA certification.

Appearance

- Small in size, light in weight, good for transportation and installation.
- Traditional worm gear drive method is replaced with compact permanent magnet synchronous gearless direct drive structure, reducing the size more than 30%, being convenient for machine room arrangement and improving utility rate of building space.

Energy-saving

- High performance cold rolled non-orientation silicon steel sheet is adopted as stator, greatly reducing energy loss.
- High quality permanent magnet is adopted as rotor without excitation current saving power more than 40%.
- Use domestic power supply, with small power, lower power consumption than that of a domestic refrigerator.

Environmental

- Eliminating traditional reduction box, without needing to change lubrication oil, eliminating oil pollution completely.
- Low noise meets the demand of quiet and comfortable indoor environment.

Safety

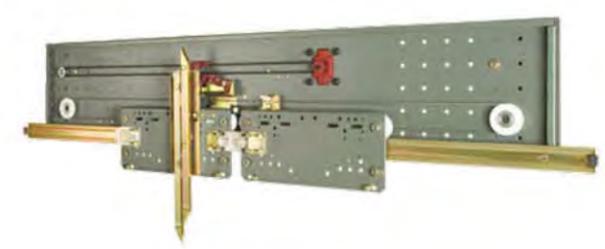
- Imported famous brand self aligning roller bearings is equipped to ensure the long life of drive host machine.
- Brake malfunction monitor system and double brakes ensure the personal safety of passengers.
- Special smart thermal monitor feedback system of drive host machine ensures the safe operation of traction system.





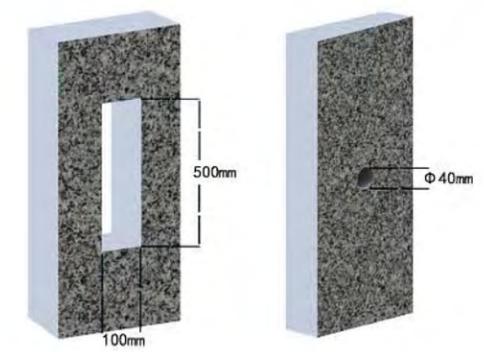
Outstanding Door System

- Adopt famous joint venture brand door operator, landing door system, which is specially customized for home lift standard and is safer and more professional.
- The unique door operator customized structure makes the shallow pit scheme of home lift possible.
- Adopt polyurethane door roller part to reduce the noise of opening and closing door further and make the indoor environment quieter.



Being convenient for installation of call box, without needing to leave a hole in advance

- Traditional type: Leaving a hole in advance, really labor-intensive and time consuming.
- None-bottom case type: Only needing to bury the pipeline in advance, without needing to leave a hole, being convenient to install and maintain.



TRADITIONAL TYPE NON BOTTOM BOX TYPE

MEET

INDIVIDUALIZED NEED



K036 (standard) ONLY FOR AUTO DOOR

Car ceiling:	PD061, aluminum alloy framework + Acrylic illuminations
Car wall:	Hairline stainless steel decoration+ Aluminum alloy framework + timber veneer aluminum honeycomb
Floor:	DLS-012

(computer drawing. May vary from the actual product)



K159 (optional) ONLY FOR AUTO DOOR

Car ceiling:	PD117, Painted steel sheet + Mirror stainless steel decoration
Car wall:	Sandblasted titanium champagne stainless steel decoration + Mirror stainless steel decoration
Floor:	MA-025

(computer drawing. May vary from the actual product)

MEET

INDIVIDUALIZED NEED



K160 (optional) ONLY FOR AUTO DOOR

Car ceiling:	PD118, Titanium mirror stainless steel decoration + Acrylic board
Car wall:	Titanium mirror stainless steel decoration + titanium black mirror stainless steel decoration
Floor:	SJ-113

(computer drawing. May vary from the actual product)



K161 (optional) ONLY FOR AUTO DOOR

Car ceiling:	PD119, Ti champagne stainless steel + acrylic block + acrylic sheet (with the screen pattern);
Car wall:	sandblasting stainless steel titanium champagne+Sandblasting titanium coated stainless steel etching paint filling champagne
Floor:	SJ-114; no car door, no handrails

(computer drawing. May vary from the actual product)

MEET

INDIVIDUALIZED NEED



H010 (standard) ONLY FOR MANUL DOOR

Car ceiling:	PD061, aluminum alloy frame + acrylic lighting;
Car wall:	hairline stainless steel and aluminum alloy frame and wood veneer aluminum honeycomb plate;
Floor:	DLS-012; no car door; no handrails

(computer drawing. May vary from the actual product)



H011 (optional) ONLY FOR MANUL DOOR

Car ceiling:	PD117, steel plate spraying + mirror stainless steel;
Car wall:	sandblast titanium champagne color stainless steel + mirror stainless steel;
Floor:	MA-025; no car door; no handrails

(computer drawing. May vary from the actual product)

MEET

INDIVIDUALIZED NEED



H012 (optional) ONLY FOR MANUL DOOR

Car ceiling:	PD118, titanium gold mirror stainless steel + acrylic plate;
Car wall:	titanium gold mirror stainless steel and titanium black mirror stainless steel;
Floor:	SJ-113; no car door, no handrails

(computer drawing. May vary from the actual product)



H013 (optional) ONLY FOR MANUL DOOR

Car ceiling:	PD119, Ti champagne stainless steel + acrylic block + acrylic sheet (with the screen pattern);
Car wall:	sandblasting stainless steel titanium champagne;
Floor:	SJ-114; no car door, no handrails

(computer drawing. May vary from the actual product)

MEET

INDIVIDUALIZED NEED



PD061 (standard)
Aluminum alloy framework + Acrylic illuminations



PD117 (optional)
Painted steel sheet+ Mirror stainless steel decoration



PD035 (optional)
Steel plate spraying RAL1013+ milk white resin lamp shade

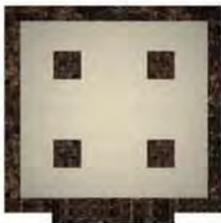


PD118 (optional)
Titanium mirror stainless steel decoration + Acrylic board



PD119 (optional)
Titanium champagne stainless steel decoration + Acrylic block + Acrylic board (with silk screen pattern)

FLOOR DECORATION



DLS-012 Marble
For aluminum alloy car (standard)



DLS-013 Marble
For aluminum alloy car (optional)



SJ-113 Plastic (optional)



SJ-114 Plastic (optional)

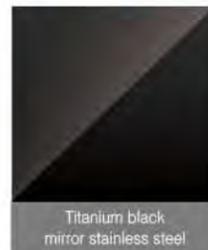


MA-025 Plastic (optional)

MATERIAL DESIGN



Sandblasted titanium champagne stainless steel



Titanium black mirror stainless steel



Titanium mirror stainless steel

(computer drawing. May vary from the actual product)

COP & HALL CALL



CBG702 Standard
(only for aluminum alloy car)
(only for auto door)



CBG703 Standard
(only for aluminum alloy car)
(only for auto door)

CBG702 Material of panel: Hairline stainless steel decoration + Aluminum alloy framework; Button type: Square without Braille; Nameplate: Load, passenger capacity; No display

CBG703 Material of panel: Hairline stainless steel decoration + Aluminum alloy framework; Button type: Round without Braille; Nameplate: Load, passenger capacity; No display



C100Y optional
(Unsuitable for aluminum alloy car)
(only for auto door)



C101Y optional
(Unsuitable for aluminum alloy car)
(only for auto door)



H105A
(Standard)



H106A
(Standard)



H103A
(optional)



H104A
(optional)

H105A Single dot-matrix display; Material of panel is 304 stainless steel (anti-fingerprint panel); Square button, red or blue light, no Braille on the surface.

H106A Single dot-matrix display; Material of panel is 304 stainless steel (anti-fingerprint panel). Round button, red or blue light, no Braille on the surface

H103A Segment code LCD; Material of panel is 304 stainless steel (anti-fingerprint panel); Square button, red or blue light, no Braille on the surface.

H104A Segment code LCD; Material of panel is 304 stainless steel (anti-fingerprint panel); Round button, red or blue light, no Braille on the surface.

C100Y Material of panel: Hairline stainless steel decoration; Button type: Square without Braille; Nameplate: Load, passenger capacity; No display

C101Y Material of panel: Hairline stainless steel decoration; Button type: Round without Braille; Nameplate: Load, passenger capacity; No display

(computer drawing. May vary from the actual product)

COP & HALL CALL



C153Q Standard
(only be used for aluminum alloy car)
(only for manul door)



C154Q Standard
(only be used for aluminum alloy car)
(only for manul door)

C153Q	Panel material: thehairline stainless steel + Aluminum Alloy framework; button style: round without braille; Nameplate: load, no display number;
C154Q	Panel material: thehairline stainless steel + Aluminum Alloy frame button style: no Braille square; Nameplate: load, no display number;



C151Y Optional
configuration (not available
for aluminum alloy car)
(only for manul door)

C152Y Optional
configuration (not available
for aluminum alloy car)
(only for manul door)

C151Y	Panel material:stainless steel;Button:Round without Braille
C152Y	Panel material:stainless steel;Button:square without Braille



BLT-H115 Standard ,Stainless steel door handle



BLT-H116 Optional,Wood door handle



BLT-H117 Optional,Crystal door handle



BLT-H118 Optional, Bronze door handles

COP & HALL CALL

only for auto door



Standard:	Hairline stainless steel narrow door jamb
Optional:	Etched stainless steel narrow door jamb, Mirror stainless steel narrow door jamb, Etched stainless steel wide door jamb, Mirror stainless steel wide door jamb, Painted steel sheet wide door jamb

(computer drawing. May vary from the actual product)

GLASS HALL DOOR only for manul door



TM-001 (Standard)



TM-002 (Optional)



TM-003 (Optional)



TM-004 (Optional)



TM-005 (Optional)



TM-006 (Optional)



Note: this decoration for the user's own hall door, BLT only provide the door locks, customers are advised to install a door closer to the door, this door style is only for reference not as a sales.

MANUL DOOR TM-001	Aluminum alloy material; milky white
MANUL DOOR TM-002	Aluminum Alloy material; yellow wood color
MANUL DOOR TM-003	Aluminum alloy material; mahogany
MANUL DOOR TM-004	Aluminum Alloy material; Blackwood micro pigmentation
MANUL DOOR TM-005	Aluminum alloy material; fluorocarbon Silver
MANUL DOOR TM-006	Aluminum alloy material; fluorocarbon gold

(computer drawing. May vary from the actual product)

MANUL DOOR GLASS TYPE



Frosted glass: MBL-001
(Standard)



Frosted glass: MBL-002
(Optional)



Frosted glass: MBL-003
(Optional)



Frosted glass: MBL-004
(Optional)



Frosted glass: MBL-005
(Optional)



Frosted glass: MBL-006
(Optional)



Frosted glass: MBL-007
(Optional)



Draw glass: MBL-008
(Optional)



Draw glass: MBL-009
(Optional)



Draw glass: MBL-010
(Optional)



Draw glass: MBL-011
(Optional)

(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. (only for auto opening door)
- 3 Service floor setting**
The system can choose to close or activate single or multiple elevator service floors as needed.
- 4 Commission at top landing hall**
Be able to set elevator as soon as possible at the hall of top landing and complete most commissioning, without needing to enter the shaft, being more convenient, faster and safer.
- 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 Interference evaluation:**
Conduct interference evaluation on communication signal transmission to reflect the current interference degree.
- 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 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.
- 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 UPS electric brake release**
Professional maintainers can open the brake by UPS power supply.
- 23 Program run WDT protection**
WDT detects continuously if the program runs incorrectly all output resetting system will be cut out when mistakes are found.
- 24 Hall call registration and memory display**
When the hall call button is pushed, the button illuminates for call accepted. The elevator will start traveling.
- 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 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

- 28 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.
- 29 Motor parameters tuning**
By parameters setting, the system can complete learning of the related control parameters of motor with or without load.
- 30 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.
- 31 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.
- 32 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.
- 33 Overspeed stop running**
If the elevator speed exceeds the limit, the elevator immediately stops running.
- 34 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.
- 35 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.
- 36 Alarm bell**
When the alarm bell button is pushed, the alarm bell will ring.
- 37 Parameter copying**
Uploading and downloading parameters to control system by hand-held operator.
- 38 Parameter inspection**
Use this function to find out the parameters set by system which are not consistent with original parameters
- 39 Running direction and floor display**
The floor number on which the elevator is and current running direction is displayed on landing call box.
- 40 Door open with floor button***
Before elevator starts, push the button on this floor, the car door will be opened automatically.
- 41 Reverse hall call registration**
The call will be registered if the call direction of this floor is not in the travel direction.
- 42 Anti-slip protection**
The elevator will stop running when steel wire rope slipping is detected.
- 43 Power failure data holding**
All running data will be saved completely and correctly when the power supply is cut off.
- 44 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.
- 45 Emergency car lighting**
Emergency lighting in car will turn on automatically during power failure.
- 46 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.
- 47 Phone**
The car is equipped with a phone, which is used for passengers to communicate with people outside.

NOTE:** ITEMS ONLY FOR AUTO OPENING DOOR SYSTEM

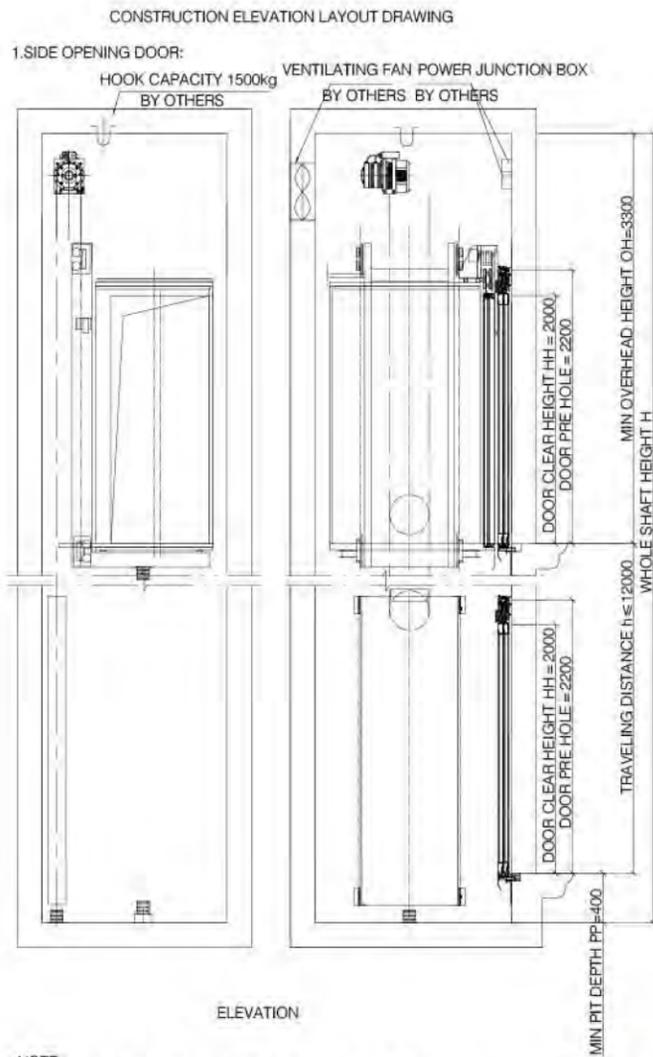
OPTIONAL FUNCTION

- 1 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.
- 2 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.
- 3 Automatic lock elevator**
Make elevator enter into and exit the state of lock elevator automatically by setting automatic lock elevator period in control system.

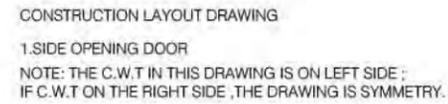
PLANFORM OF

HOISTWAY/MACHINE ROOM

only for auto door



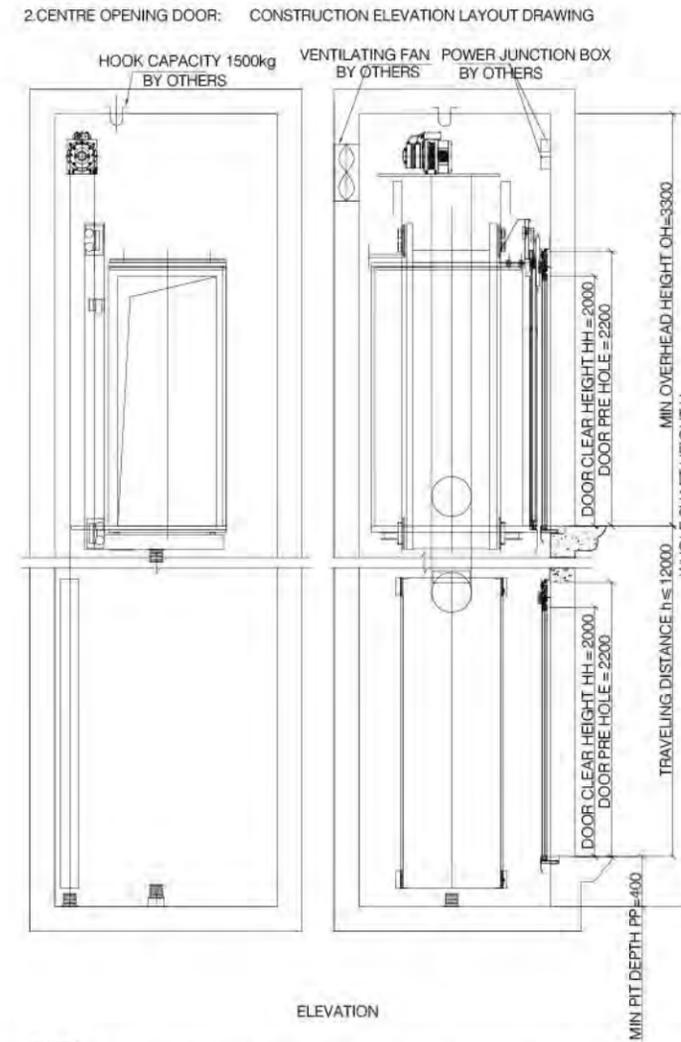
NOTE:
1 WHEN THE FLOOR DECORATION IS MARBLE, THE ALUMINUM HONEYCOMB MARBLE PROPOSED TO BE USED, AT THIS TIME, THE DEPTH OF SHAFT PIT SHOULD BE 420MM, THE OVERHEAD HEIGHT NOT BE CHANGED
2 THE MINIMUM TOP HEIGHT OF OVERHEAD IS SUITABLE FOR THE MAXIMUM HEIGHT OF THE CAR HEIGHT 2150MM (BELOW THE SHAFT TOP TO THE CAR ROOF).



BASIC PARAMETERS

CAPACITY (kg)	PERSONS	TRAVELING DISTANCE (m)	SPEED (m/s)	POWER(KVA)
320	4	h ≤ 12	0.25	4
			0.4	4
400	5	h ≤ 12	0.25	4
			0.4	4

CAPACITY (kg)	SPEED (m/s)	DOOR JJ × HH	CAR DIMENSION (mm)		HW × HD (mm)
			CW × CD		
320	0.25	800 × 2000	900 × 1200	1500 × 1600	
	0.4				
400	0.4	800 × 2000	900 × 1300	1500 × 1650	

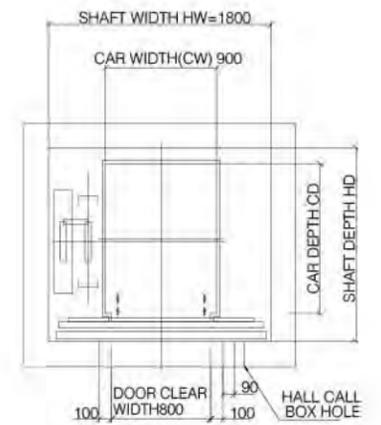


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CONSTRUCTION LAYOUT DRAWING

2. CENTRE OPENING DOOR

NOTE: THE C.W.T IN THIS DRAWING IS ON LEFT SIDE ;
IF C.W.T ON THE RIGHT SIDE ,THE DRAWING IS SYMMETRY



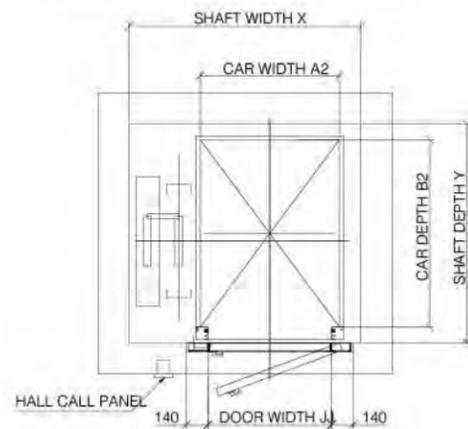
CAPACITY (kg)	SPEED (m/s)	DOOR JJ × HH	CAR DIMENSION (mm)		HW × HD (mm)
			CW × CD		
320	0.25	800 × 2000	900 × 1200	1800 × 1550	
					0.4
400	0.4	800 × 2000	900 × 1300	1800 × 1600	

PLANFORM OF

HOISTWAY/MACHINE ROOM

only for manul door

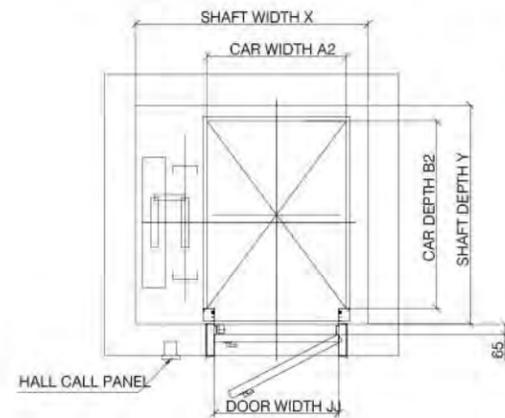
CONSTRUCTION LAYOUT DRAWING
SIDE OPENING DOOR(SUPPLIED BY BLT COMPANY)
NOTE: THE C.W.T IN THIS DRAWING IS ON LEFT SIDE ;
IF C.W.T ON THE RIGHT SIDE ,THE DRAWING IS SYMMETRY.



BASIC PARAMETERS

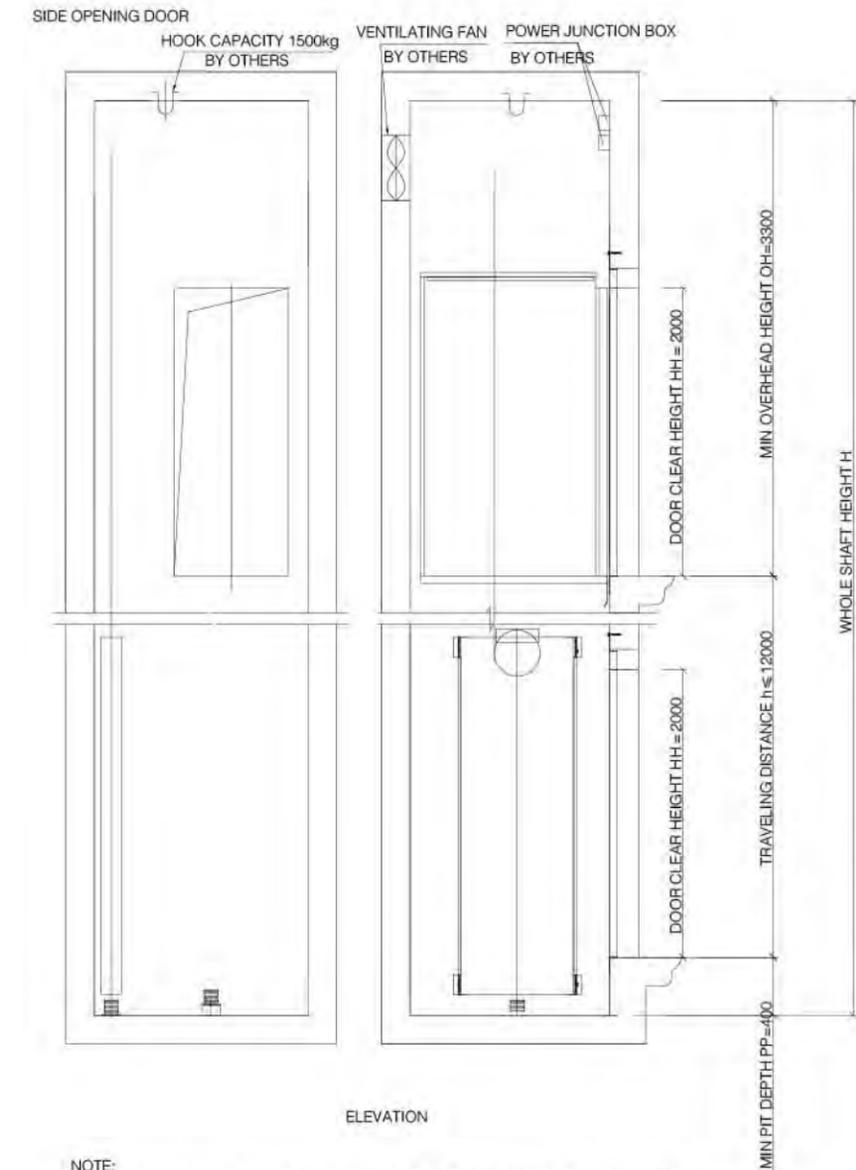
CAPACITY (kg)	PERSONS	TRAVELING DISTANCE (m)	SPEED (m/s)	POWER(KVA)
320	4	$h \leq 12$	0.25	4
			0.4	4
400	5	$h \leq 12$	0.25	4
			0.4	4

CONSTRUCTION LAYOUT DRAWING
SIDE OPENING DOOR(SUPPLIED BY OWNER)
NOTE: THE C.W.T IN THIS DRAWING IS ON LEFT SIDE ;
IF C.W.T ON THE RIGHT SIDE ,THE DRAWING IS SYMMETRY.



CAPACITY (kg)	SPEED (m/s)	DOOR JJ x HH	CAR DIMENSION (mm)	SHAFT DIMENSION X x Y
			A2 x B2	X x Y
320	0.25 0.4	800 x 2000	900 x 1200	1500 x 1400
320		900 x 2000	900 x 1200	1500 x 1400
400		800 x 2000	900 x 1300	1500 x 1500
400		900 x 2000	900 x 1300	1500 x 1500

CONSTRUCTION ELEVATION LAYOUT DRAWING



NOTE:
1 WHEN THE FLOOR DECORATION IS MARBLE, THE ALUMINUM HONEYCOMB MARBLE PROPOSED TO BE USED, AT THIS TIME,THE DEPTH OF SHAFT PIT SHOULD BE 420MM, THE OVERHEAD HEIGHT NOT BE CHANGED .
2 THE MINIMUM TOP HEIGHT OF OVERHEAD IS SUITABLE FOR THE MAXIMUM HEIGHT OF THE CAR HEIGHT 2150MM (BELOW THE SHAFT TOP TO THE CAR ROOF).