KONL® CANNY

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KLW

KLW MACHINE ROOMLESS
## PASSENGER ELEVATOR

Released space and infinite innovation

It removes the multiple elevator restrictions at one time

CANNY KLW series, machine roomless elevator removes the elevator's restrictions in construction, construction costs, architectural design style and utilization scopes. In saving space and costs, it brings passengers the efficiency and robustness of the upper wise.

Comparison of various types of elevator machine room

Machine room

Traditional elevator

Small machine room elevator

CANNY KLW machine roomless elevator
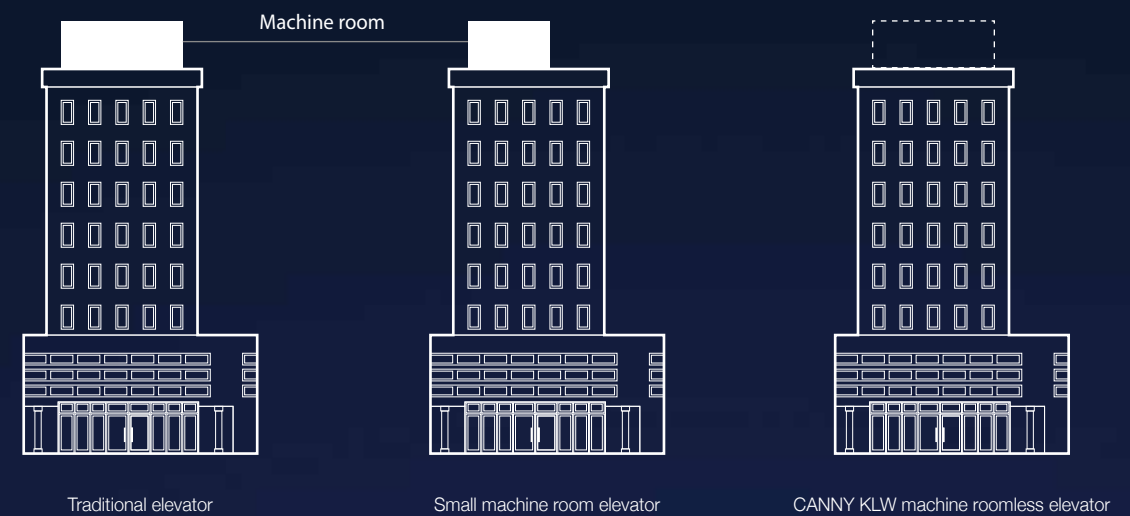
Save Construction Space

CANNY machine roomless elevator puts the entire elevator into the shaft, so that the machine room can exert no limits to the construction, which can save the construction space.

Save construction costs

CANNY machine roomless elevator places the control cabinet in the shaft. And there is no need to build a machine room additionally, thereby saving construction costs.
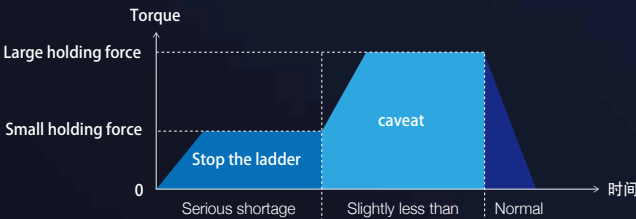
Optimize Construction Design

CANNY machine roomless elevator saves the space occupied by the machine room, which provides more choices for building design.

# Intrinsic strength and extraordinary stability

Brake force self-testing and monitoring function

Test the brake force periodically and autonomously to avoid more accidents by means of fault reminder and no running etc.

Torque

Large holding force

Small holding force

caveat

Stop the ladder

0

Serious shortage　Slightly less than　Normal

时间

New permanent magnetic door machine system

The optimized S-curve, smooth door switch, smaller motor load shock, good self-adaptive control capability can cope with various disturbing factors and realize automatic test, adjust and adapt. The oversized polyurethane rollers have strong abrasion resistance and can achieve muting operation.
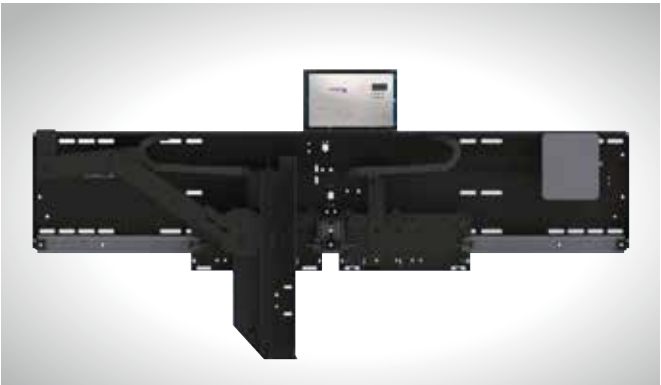
A new generation VVVF frequency inverter

A new generation VVVF frequency inverter can adjust the current magnitude and phase according to car load and precisely control the host rotating torque to ensure the stable operation of the elevator.

V(m/s)

F0

F1

T0　T1　T3　T4　T(s)
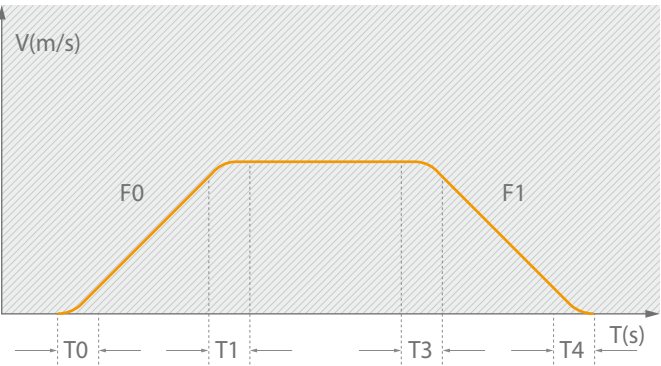
Inbuilt control cabinet

The control cabinet is placed inside the shaft, so that building reserved holes are removed and the installation will be more convenient; meanwhile, the noise pollution of the machine room can be avoided effectively.

Hoistway

Car

Controler
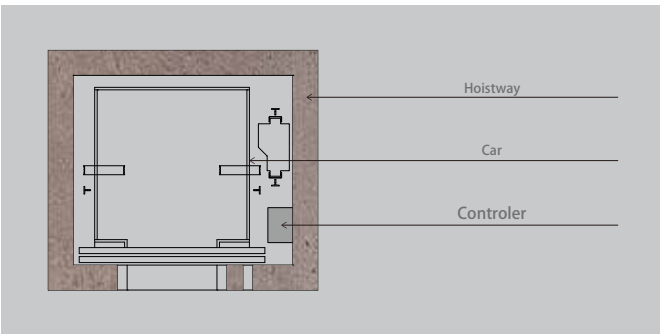
Traction rope sliding detection

Traction rope sliding detection can conduct a real-time monitoring over the data and automatically enter the safe operation mode as required to respond to the emergency by slowing down, so that the elevator accident will not happen.

Electric brake release switch

CANNY machine roomless elevator is specially equipped with the electric brake release switch so that the emergency relief can be more timely and conveniently.

# Anticipation, energy conservation and bearing the future

A new generation permanent magnet synchronous gearless traction machine

A new generation permanent magnet synchronous gearless traction machine can save more than 40% of the energy and it is maintenance-free. There is less noise and without need to replace grease.
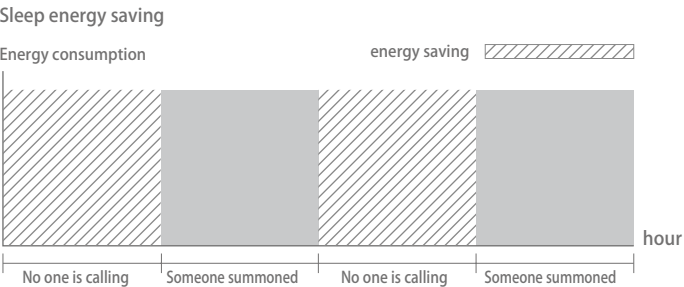
40%
Energy Saving
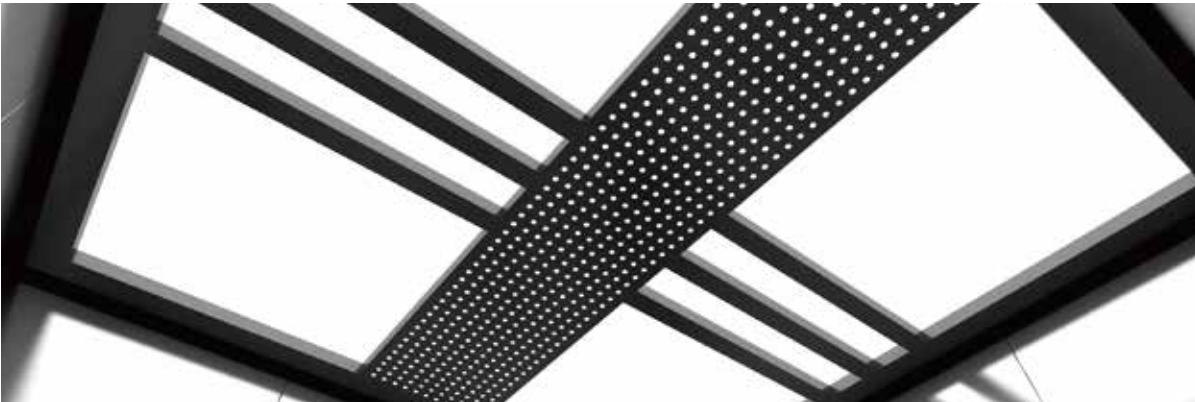
LED car lighting

LED car lighting device has the advantagessuch as safety,efficiency,no-radiation,easy maintenance etc.

LED lighting and general lighting | life | Energy consumption

LED lighting				
General lighting				
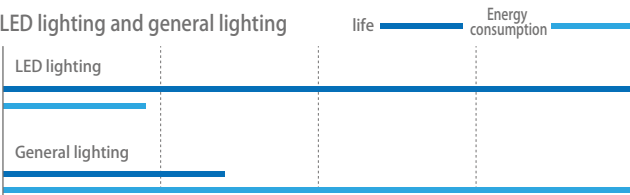
Dormancy energy saving procedures

In case of no callings, the elevator will start the dormancy energy saving procedures; When there's passenger call, the device will automatically start so as to save the energy consumption during the non-operational period.

Sleep energy saving

Energy consumption | energy saving

hour

No one is calling	Someone summoned	No one is calling	Someone summoned

Road of respect, follow your heart

Leveling for power failure (Optional)

When the power grid powers off, the leveling device for powerfailure will power it to the nearest floor so that the door opens.
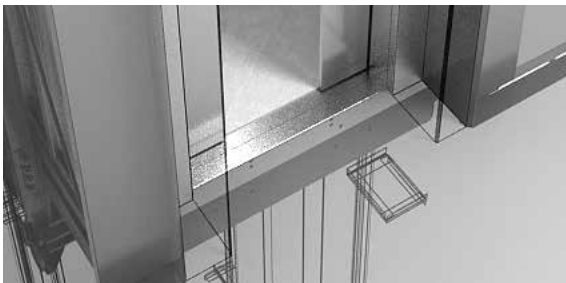
Group controlling intelligent dispatching system (Optional)

Abiding by the principle of intelligent dispersed principle, carry passengers with highest speed and efficiency.

First floor lobby

Traditional elevator   CANNY elevator
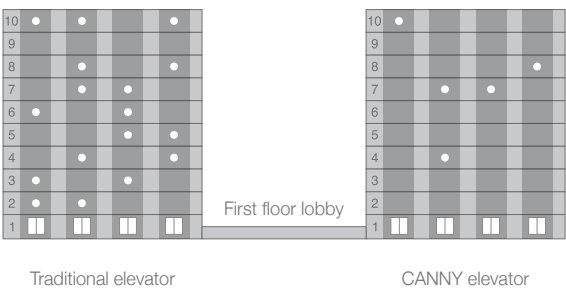
"Saineng" Energy renewable and feedback technology (Optional)

Transfer the renewable energy into the electric energy and return it to the local power grid for utilization, which reduces 30% of energy consumption.

Light load uplink

Heavy haul downlink

Available to local area power grid for lighting and other purposes.
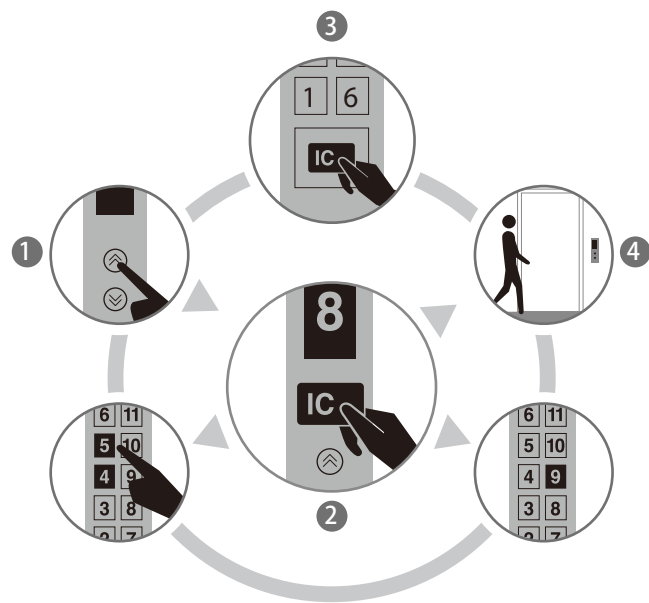
30%
Energy Saving

IC card intelligent management system(Optional)

### IC card intelligentsystem inside the lift car

Equipped with IC card intelligent identification system; the passenger can enjoy convenient travelling experience by swiping card and reaching the destination.

1. Call   2.Read card at entrance floor
3. Select Floor No. in the elevator car   4. Enter the elevator car

Each floor can be selected for leveling, without pressing any button, it will automatically reach the designated floor of user.

OTHER OPTIONAL FUNCTION

Long-distance monitor

Pre-open Function

Building automation system

Anti-disturbance Function

Standard design

Integrated operation panel

KL/K4-2001 (Standard configuration)

Ceiling: KL/DD-4004, Dusting steel plate,
hole on center support, LED light source
Car wall: Hairline stainless steel
Front wall: Hairline stainless steel
Vertical column: Hairline stainless steel
Operation panel: KL231C
Car door: Hairline stainless steel
Floor: KL/JD-4004 (PVC)
Skirting: Hairline stainless steel

San the QR code to know more
about the lift car in the 360-degree manner

Optional cars

KL-K 001

Free optional

Ceiling: KL-D 001, LED car light source
Car wall: Hairline stainless steel
Front wall: Hairline stainless steel
Vertical column: Hairline stainless steel
Operation panel: KL231C
Car door: Hairline stainless steel
Floor: KL-JD 009(PVC)
Skirting: Hairline stainless steel

San the QR code to know more
about the lift car in the 360-degree manner

More optional designs please see CANNY"Elevator Show"

Integrated operation panel

Stanozolol KLW no room passenger elevator, using the shape of the most simple one-piece dashboard, without having to install again, modeling natural, environmentally friendly materials, cost, responsive, and easy to maintain.

Display screen
Dot matrix display

Parking number
2-48 stop layer

Button optional

KL231C
Stanard

KL232C
Free optional

Panel material (Hairline stainless steel)
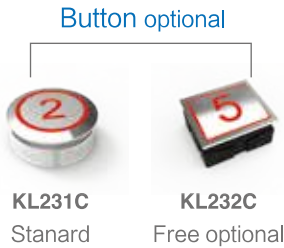
Display screen
Liquid crystal display screen

Parking number
2-48 stop layer

Panel material (Hairline stainless steel)

Display screen
Multimedia display screen

Parking number
2-48 stop layer

Panel material (Hairline stainless steel)

Embedded operating panels

The embedded operating panel meets the customization of the diversified control functions, thus making the structure more solid and the maintenance more convenient.

Display screen
Dot matrix display screen

Parking number
2-48 stop layer

Panel material (Hairline stainless steel)

Button optional

KL261C
Stanard

KL262C
Free optional
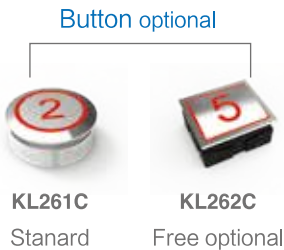
Display screen
Dot matrix display screen

Parking number
2-48 stop layer

Car indicator

Button optional

Panel material (Hairline stainless steel)

KL265C
Free optional
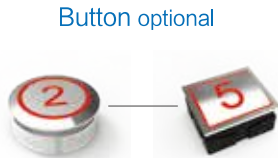
KL266C
Free optional

Car indicator

Calling indicator without bottom box

Need to break the traditional call boxes installed in the wall holes mode without leaving holes civil, compact, easy disassembly, repair and maintenance quick.
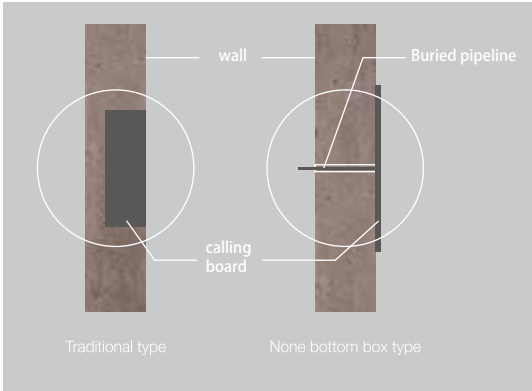
Single elevator

KL631H
Standard
Dot matrix display

KL632H
Free optional
Dot matrix display

Panel material optional

Panel material (Hairline stainless steel)

Double−elevator

KL635H
Dot matrix display

KL636H
Dot matrix display

Panel material optional

Panel material
(Hairline stainless steel)

Installation methods comparison

wall | Buried pipeline

calling board

Traditional type | None bottom box type

Conventional: When leaving holes to be pre-civil, time-consuming and labor-intensive.
Bottomless box type: simply embedded pipeline, without leaving holes civil engineering, installation and maintenance more convenient.

Fire Protection Box and Elevator Locking Box without Bottom Case

KL651H
Standard

KL652H
Standard

Ceilings

KL / DD-4004
Standard

Dusting steel plate, hole on center support, LED light source.

KL / DD-4005
Optional

Dusting steel plate, hole on center support, LED light source.
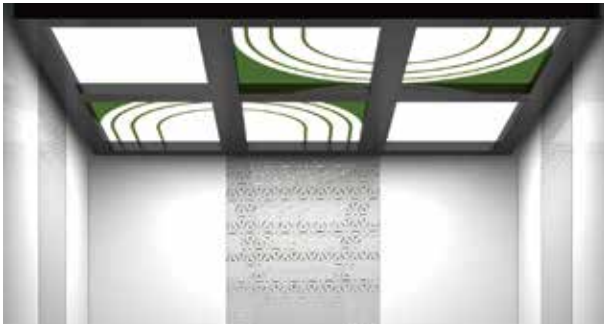
KL / DD-4006
Optional

Dusting steel plate, hole on center support, LED light source.

KL-D 001
Optional

Double arched white organic light emitting board plus the gentle light illumination of the mid down light.

Landing door

KL-D 002
Optional

Hairline finished st./st. frame, LED light source design, Acrylic top panel, checked.

KL-D 006
Optional

Hairline finished st./st. frame, LED light source design, Acrylic lighting cover.

KL-TM 001
Standard

Landing Door:
Hairline stainless steel

Jamb: Hairline stainless steel

KL-TM 002
Standard

Landing Door:
Dusting steel plate

Jamb: Dusting steel plate

KL/M-4013
Optional

Landing Door:
Stainless steel etched mirror

Jamb: Hairline stainless steel

KL/M-4020
Optional

Landing Door:
Stainless steel etched mirror

Jamb: Hairline stainless steel

Dusting color standard (optional)

KL -SK 001
Ice gray
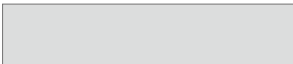
KL -SK 002
Plane gray

KL -SK 003
Corny yellow

KL -SK 004
Pebble gray

KL -SK 005
Ultramarine blue

KL -SK 006
Pastel blue

KL -SK 007
Light green

KL -SK 008
Light pink

Stainless steel color standard (optional)

Hairline stainless steel

PVC floor

| KL-JD 001 | KL-JD 002 | KL-JD 003 | KL-JD 004 | KL-JD 005 | KL-JD 006 | KL-JD 007 |

KL-JD 001	Optional	PVC parquet	KL-JD 005	Optional	PVC parquet
KL-JD 002	Optional	PVC single-color	KL-JD 006	Optional	PVC parquet
KL-JD 003	Optional	PVC single-color	KL-JD 007	Optional	PVC parquet
KL-JD 004	Optional	PVC single-color			

| KL-JD 008 | KL-JD 009 | KL-JD 010 | KL / JD-4004 | KL / JD-4005 | KL / JD-4006 |

KL-JD 008	Optional	PVC parquet	KL / JD-4004	Optional	PVC
KL-JD 009	Optional	PVC single-color	KL / JD-4005	Optional	PVC
KL-JD 010	Optional	PVC single-color	KL / JD-4006	Optional	PVC

Functions

● **Brake detection protection**

Actively and regularly test the brake force; prevent more serious accident by means of malfunction indication and running prohibition and so on.

● **Traction Rope Slide Detection**

It provides real-time monitoring of sliding data, and can automatically enter the safe operation mode for emergencyaccording to requirements.

● **Brake detection protection**

Brake arm detection switch executes real-time monitor to brake opening / closing. If the brake does not open by the requirements, the system will not start the elevator.

● **Protection of none door opening outside door zone**

Automatic door opening is forbidden under none door zone condition.

● **Low-speed protection**

It prevents elevator from low-speed running outside the control range causing any safety problem(s).

● **Overload protection**

Before the elevator shuts the door, if it detects overload signal, the elevator does not shut then, "door-shut button" becomes effective. After it removes overload problem, it re-starts automatically.

● **Automatic parking in trouble**

When the elevator stops in none leveling zone due to any trouble, if it is not caused by safety device action, it executes self-rescue running towards the middle floor direction at low speed. It parks and opens the door at the nearest service floor to prevent from any trapping accident.

● **Protection of elevator blockage**

When the system runs start command, it does not start within preset time nor because it is during the elevator travelling, and it does not reach certain distance within preset time as well, the elevator stops accordingly.

● **Attendant running**

When it is under the operator condition, the elevator system operates according to the car command signal. If landing call signal is available, it automatically cuts as per forward landing call. The door opens automatically after the leveling parking. But it does not shut automatically until the operator presses "door closing button".

● **Fire-fighting return**

When the fire-fighting switch closes, the system enters into fire-fighting running. The system will remove all the landing calls and car command signals, and it automatically returns to fire-fighting home landing, and the door keeps open. If the elevator is travelling in reverse direction, it parks at nearby floor, and returns to fire-fighting home landing with the door keeping closed, after that it keeps the door open.

● **Home landing elevator locking**

When the elevator is under automatic condition, when it shuts home landing locking switch, the elevator will complete all the registered car command services, automatically return to home landing, it enters into parking condition. As soon as locking switch is on, it immediately returns from parking condition and goes into normal running.

● **Cancel theerror-register**

If the passenger presses the car command button at certain floor and has registered it by mistake, (by then the car indicating lamp is bright), if under the condition of none elevator running, you only press the car command button at the same floor to cancel the register. (By then the car indicating lamp dies out.)

● **Electrified automatic door-opening**

Every time when the elevator is electrified, if the car is in the door zone, the elevator door opens automatically.

● **Automatic return to home landing**

In non-attendant running, if automatic return function to home landing is still effective, and no-landing call signal time fulfills preset time, the elevator returns to home landing automatically.

● **Automatic stop of the car illumination and fan**

If nobody uses the elevator within certain period of time, the car illumination and fan shut off automatically and re-opens on receiving any landing call command(s).

● **Automatic correction of floor signal**

If the floor display position has error, after the system detects terminal switch in the travel, it will automatically correct the floor display.

● **Cancellation of the reverse command(s) in the car**

When the elevator travels to the farthest floor and changes the speed, it removes all the car command register.

● **Self-diagnostic embedded call button**

If you press call button at certain landing for over 20 second, and it still does not disconnect, the system assumes that it is embedded button. It does not register the landing call of the same floor afterwards. Responsive lamp which corresponds to the button keeps flickering and alarming. When the button disconnects, it exits from above condition.

● **Electric brake release switch**

CANNY machine roomless elevator is specially equipped with the electric brake release switch so that the emergency relief can be more timely and conveniently.

Construction parameters

Hoistway section

Section B

Hoistway plan
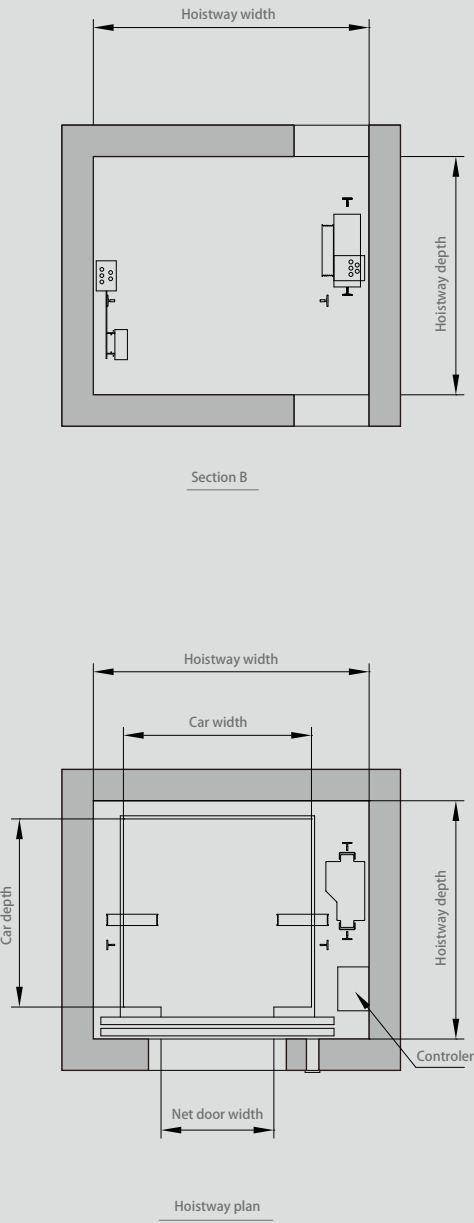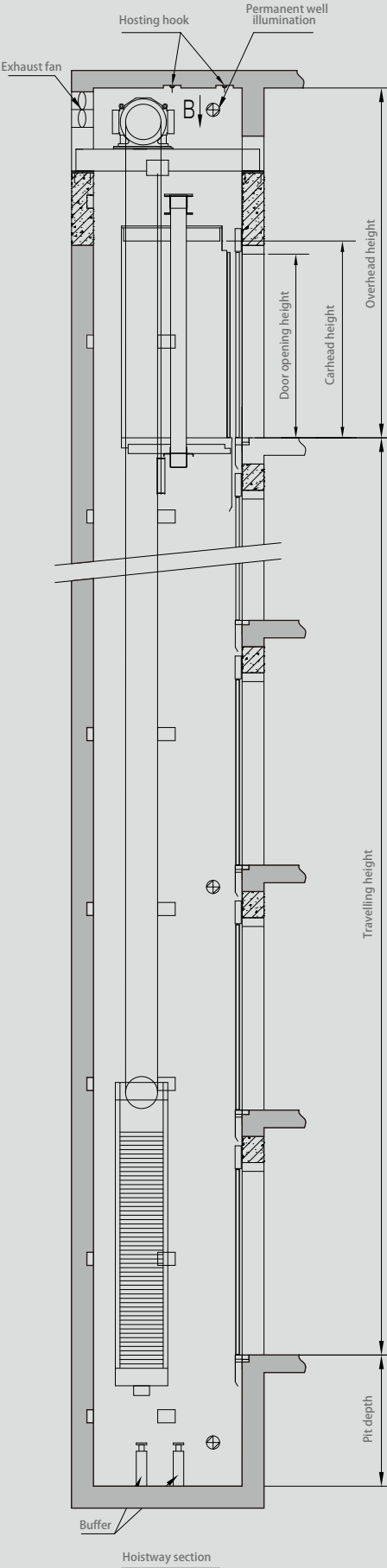
KLW Machine Roomless Elevator Parameter Table

Loading capacity (Kg)	Rated speed (m/s)	Door opening width (mm)	Door opening height (mm)	Car size Width (mm)	Depth (mm)	Height (mm)	Hoistway size Width (mm)	Depth (mm)	Top floor height (mm)	Pit depth (mm)	Max.travelling height (m)
450	1.0	800	2100	1100	1100	2250	1800	1700	3800 (3900) / 3850 (3950)	1450	30 / 50
	1.6	800	2100	1100	1100	2250	1800	1700	3950 (4050) / 4000 (4100)	1550	30 / 60
630	1.0	800	2100	1100	1400	2250	1800	1800	3800 (3900) / 3850 (3950)	1450	30 / 50
	1.6	800	2100	1100	1400	2250	1800	1800	3950 (4050) / 4000 (4100)	1550	30 / 60
	1.75	800	2100	1100	1400	2250	1800	1800	4000 (4100) / 4050 (4150)	1600	30 / 80
800	1.0	800	2100	1300	1400	2250	2000	1800	3800 (3900) / 4100	1450	30 / 50
	1.6	800	2100	1300	1400	2250	2000	1800	4050 / 4200	1550	30 / 60
	1.75	800	2100	1300	1400	2250	2000	1800	4050 (4100) / 4200	1600	30 / 80
1000	1.0	900	2100	1500	1500	2250	2200	1900	3800 (3900) / 4100	1450	30 / 50
	1.6	900	2100	1500	1500	2250	2200	1900	4050 / 4200	1550	30 / 60
	1.75	900	2100	1500	1500	2250	2200	1900	4050 (4100) / 4200	1600	30 / 80
	2.0	900	2100	1500	1500	2250	2200	1900	4700	1650	95
1150	1.0	1000	2100	1700	1500	2250	2550	1950	3900 (4000) / 4200 (4300)	1500	30 / 50
	1.6	1000	2100	1700	1500	2250	2550	1950	4150 (4250) / 4300 (4400)	1600	30 / 60
	1.75	1000	2100	1700	1500	2250	2550	1950	4150 (4250) / 4300 (4400)	1650	30 / 80
	2.0	1000	2100	1700	1500	2250	2550	1950	4700	1700	95
1250	1.0	1000	2100	1800	1500	2250	2650	1950	3900 (4000) / 4200 (4300)	1500	30 / 50
	1.6	1000	2100	1800	1500	2250	2650	1950	4150 (4250) / 4300 (4400)	1600	30 / 60
	1.75	1000	2100	1800	1500	2250	2650	1950	4150 (4250) / 4300 (4400)	1650	30 / 80
	2.0	1000	2100	1800	1500	2250	2650	1950	4700	1700	95
1350	1.0	1100	2100	1950	1500	2250	2800	1950	3900 (4000) / 4200 (4300)	1500	30 / 50
	1.6	1100	2100	1950	1500	2250	2800	1950	4150 (4250) / 4300 (4400)	1600	30 / 60
	1.75	1100	2100	1950	1500	2250	2800	1950	4150 (4250) / 4300 (4400)	1650	30 / 80
	2.0	1100	2100	1950	1500	2250	2800	1950	4700	1700	95
1600	1.0	1100	2100	1950	1750	2250	2800	2150	3900 (4000) / 4200 (4300)	1500	30 / 50
	1.6	1100	2100	1950	1750	2250	2800	2150	4150 (4250) / 4300 (4400)	1600	30 / 60
	1.75	1100	2100	1950	1750	2250	2800	2150	4150 (4250) / 4300 (4400)	1650	30 / 80
	2.0	1100	2100	1950	1750	2250	2800	2150	4700	1700	95
2000	1.0	1100	2100	2000	2000	2250	2900	2400	3900 (4000) / 4200 (4300)	1500	30 / 50
	1.6	1100	2100	2000	2000	2250	2900	2400	4150 (4250) / 4300 (4400)	1600	30 / 60
	1.75	1100	2100	2000	2000	2250	2900	2400	4150 (4250) / 4300 (4400)	1650	30 / 80
	2.0	1100	2100	2000	2000	2250	2900	2400	4700	1700	95
Remarks				Height of the elevator car			Beam structure in brackets Permanent magnet door machine 2.0m/s beam structure			No Compensation Chain Configuration under 30m 2.0m/s Full Compensation Chain Configuration	

The user's tasks

- It makes the drawing according to the relevant lift technical standard, It needs to be checked and confirmed by the user before it becomes the lift installation proof.
- It shall be embedded in the wall for the machine supporting beam of the traction machine, Then the supporting length shall be 20mm more than the wall center, It shall not be less than 75mm.
- After the installation completion, the ground decoration shall have a proper height step in the sill surface to prevent water or other impurity from entering into the well.
- The casting object in the installation shall satisfy the relevant drawing requirements.
- The buffer base shall be made under the directions of the installers.