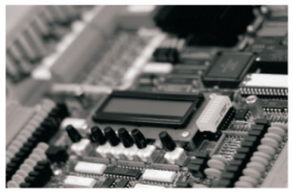
Intelligence - intelligent running, high-efficient experience

Intelligent group control manage system

By centralized control to multi elevators, this system will allocate elevator response rationally and dispatch the most suitable car to each landing. Ensure passengers to enjoy the timely service in any case.

Full computer intelligent control system

This system uses high-performance 64bit microcomputer processing chip, realizes multi – microcomputer, modularization, network control and improves data processing time.
Intelligent microcomputer module built-in system combines fuzzy logic serial communication technology to achieve fast information transmission, improve the system scheduling and operation rate further, and make elevator performance more excellent.



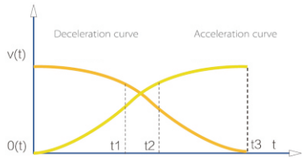
Comfort – enjoy smooth and pleasant trip

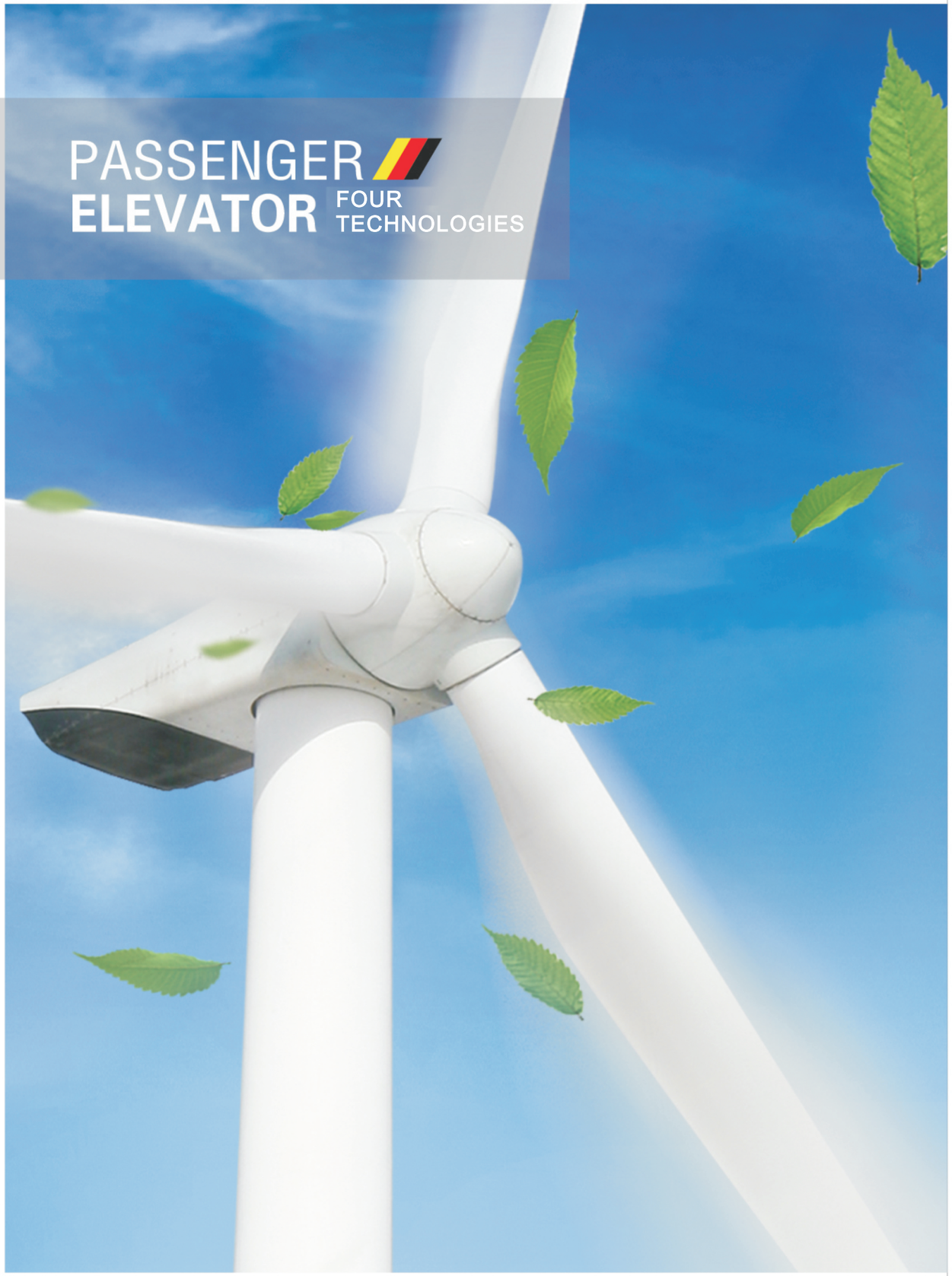
High-end door-motor system

The advanced VVVF control technology applies to the door-motor system, makes door starting, speeding up, braking curves smooth and fluent. Bring comfort to passengers by quiet switches.

Accurate position control system

This system uses advanced sensor that gets real-time signal feedback of the movement state of motor rotor. To make car positioning precision reach zero for better in and out freely.





Safety – humanity care all the way

ID/IC card identification system

This system controls the use of elevators by ID/IC card. Users take elevator by card to improve safety of buildings and efficiency of property management and create private space for them.

Infrared light curtain protection system

There's intensive light curtain protective barrier that naked eye cannot see at entrance, it could make sensitive response quickly to any objects in detection range in order to protect passenger safe efficiently.

Energy-saving – green model, path to sustained

A new generation of gearless permanent magnet synchronous traction machine

Excellent driving performance, more high-efficient running smart figure with convenient layout saves 10% construction area compared with the same load gear elevator, it saves 50% electric energy.

Energy feedback technology

Through energy feedback device, electric energy converted by potential energy produced when in elevator running gives back to the grid for the use of other electrical equipments in the building, this device could save 30% electric energy efficiently.

LED energy-saving lighting in car

We adopt super long-life LED light without harmful substances to save 80% energy saving than conventional tube under the same illumination.

Car automatic lighting system

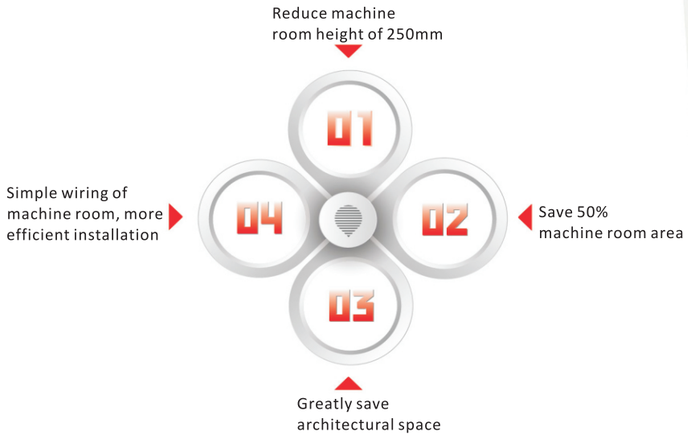
Turn off lighting automatically if nobody in the car.
Turn off lighting automatically after receiving calls.

PASSENGER ELEVATOR SMALL MACHINE ROOM

Less space, more intelligence

Art everywhere – perfect overlap of machine room and shaft area

LARSSON passenger elevator with small machine room uses compact layout of gearless permanent magnet synchronous traction machine and control cabinet to save construction space and expand utility rate of space. As machine room area is exactly same with shaft area, a harmony mechanical and electrical greenway comes into being. It is perfect into the building and increasing the aesthetic feeling.



Leading advantage gives you unlimited possibility

Optimize space, design span

With machine room less structure, control cabinet and traction are placed in the shaft flexibly. It saves construction area and with artistic and simple shape, which reduces comprehensive construction cost and leaves design space for architects and developers.

Traction machine top mounted

Flexible layout, convenient maintenance

Traction machine is located between shaft top car and shaft wall, control cabinet is next to top hall door, which make the connection between them short enough, easy to repair and maintenance.

PASSENGER ELEVATOR STANDARD CAR DECORATION

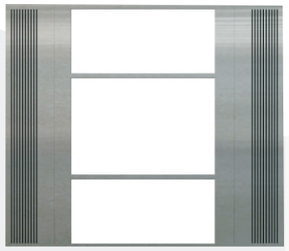
Car

Car walls with hairline stainless steel

COP

COP001

Ceiling



CL001

Floor PVC

FR101

Call

HB001

PASSENGER ELEVATOR

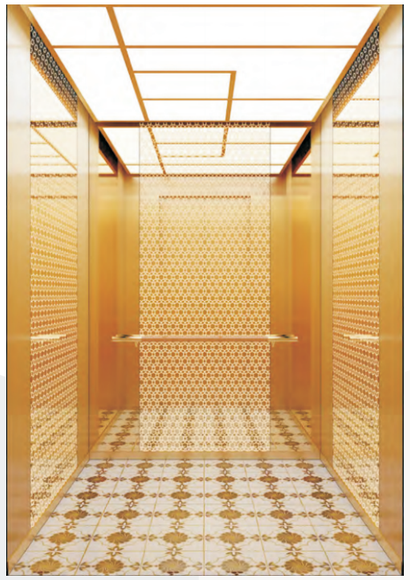
HOTEL CAR DECORATION

DC201

Ceiling Titanium mirror stainless steel
White organic board

Car wall Titanium mirror etching stainless steel
Titanium gold hairline stainless steel

Floor Standard PVC



DC202

Ceiling Titanium gold stainless steel decorative strip
White organic board

Car wall Titanium mirror etching stainless steel
Titanium gold hairline stainless steel

Handrail Titanium mirror stainless steel
Wood veneer

Floor Standard PVC

DC215

Ceiling Titanium mirror stainless steel

Car wall Titanium mirror etching stainless steel
Titanium gold hairline stainless steel

Handrail Titanium gold hairline stainless steel

Floor Standard PVC

DC219

Ceiling Titanium mirror stainless steel
White organic board

Car wall Titanium mirror etching stainless steel
Titanium gold hairline etching stainless steel

Handrail Titanium mirror stainless steel
Wood veneer

Floor Standard PVC

DC216

Ceiling Rose gold mirror etched stainless steel
Decorative lamp

Car wall Rose gold mirror etched stainless steel
Rose gold hairline stainless steel

Handrail Rose gold mirror stainless steel

Floor Standard PVC

DC217

Ceiling Rose gold mirror etched stainless steel
White organic board; Downlights

Car wall Rose gold mirror etched stainless steel
Rose gold hairline stainless steel

Floor Standard PVC

PASSENGER ELEVATOR BUSINESS CAR DECORATION

DC220

Ceiling Mirror stainless steel
White organic board; Downlights

Car wall Mirror etched stainless steel
Hairline stainless steel

Handrail Hairline stainless steel

Floor Standard PVC

DC212

Ceiling Mirror stainless steel; Downlights

Car wall Mirror etched stainless steel
Hairline stainless steel

Handrail Hairline stainless steel

Floor Standard PVC (Optional : Marble)

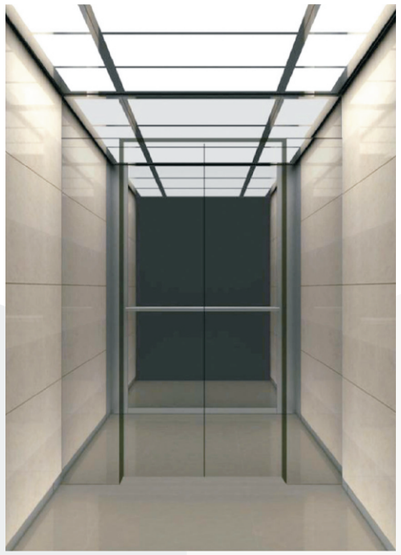
DC221

Ceiling Hairline stainless steel; Downlights

Car wall Mirror etched stainless steel
Hairline stainless steel

Handrail Hairline stainless steel

Floor Standard PVC (Optional : Marble)



DC205

Ceiling Mirror stainless steel decorative strip
White organic board

Car wall Marble pattern board
Mirror stainless steel

Floor Standard PVC (Optional : Marble)

DC225

Ceiling Black titanium mirror stainless steel
White organic board; Downlights

Car wall Mirror stainless steel
Wood pattern board

Handrail Black titanium gold hairline stainless steel

Floor Standard PVC (Optional : Marble)

DC227

Ceiling Champagne gold mirror stainless steel
White organic board ; Downlights

Car wall Champagne gold mirror etched stainless steel
Champagne gold hairline stainless steel

Handrail Champagne gold mirror stainless steel

Floor Standard PVC (Optional : Marble)

DC226

Ceiling Mirror stainless steel
White light strip

Car wall Wood pattern board
Mirror stainless steel

Floor Standard PVC (Optional : Marble)

DC301

Ceiling Hairline stainless steel
White organic board ; Downlights

Car wall Toughened glass
Stainless steel baffle

Handrail Hairline stainless steel

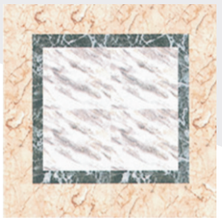
Floor Standard PVC

PASSENGER ELEVATOR DECORATION SERIES

PVC Floor


FR101


FR102


FR103


FR104


FR105


FR106


FR107

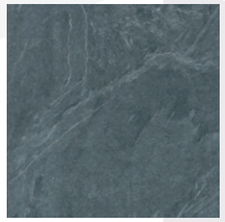

FR108

Marble Floor(Optional)

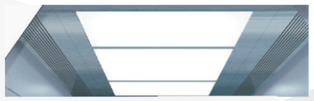

FR001


FR002

FR003


FR004

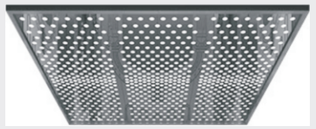
Ceiling


CL001


CL002


CL003


CL004


CL005


CL006


CL007


CL008


CL009

Handrail


HR001


HR002


HR003


HR004


HR005


HR006


HR101


HR202


HR303


HR404

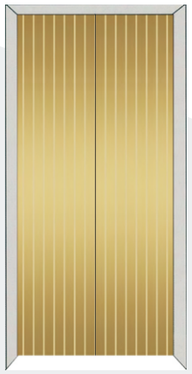
Door plank
(Optional:Titanium gold;Rose gold;Champagne gold)


LD001


LD002


LD003


LD004


LD005


LD006


LD007


LD008


LD009


LD010

Spraying color

RAL7035
(Standard)

RAL7037

RAL6027

RAL9001

Elevator multimedia information system


Liquid crystal display
(Standard)


Liquid crystal display


Dot matrix display

Multimedia

COP
(Split type)


COP001
(Standard)


COP002

COP
(Integral type; Optional)


COP004


COP003

Barrier-free operating panel (Optional)


COP501

COP502

LOP

HB001
(Standard)

HB002

HB004

Duplex LOP(Optional)

HB101

HB102

HB104

Wall mount LOP(Optional)

HB005

HB006

HB007

HB008

HB009

HB010

Transverse display（Optional）

Hb201

Hb204

Micro motion button

B001A (standard)
White lettering,blue light

B001B
White lettering,red light

B001C
White lettering,white light

B002A
White lettering,blue light

B002B
White lettering,red light

B002C
White lettering,white light

B003A
White lettering,blue light

B003B
White lettering,red light

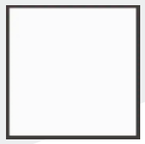
B003C
White lettering,white light

B101A
Blue lettering,blue light

B101B
Red lettering,red light

B102A
Blue lettering,blue light

B102B
Red lettering,red light



B103A
Blue lettering,blue light

B103B
Red lettering,red light

Hall direction lights（Optional）

HL001

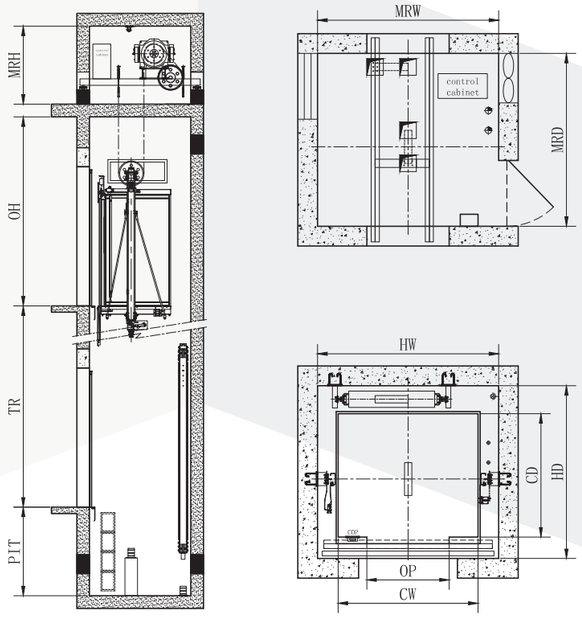
HL002

HL003

HL004

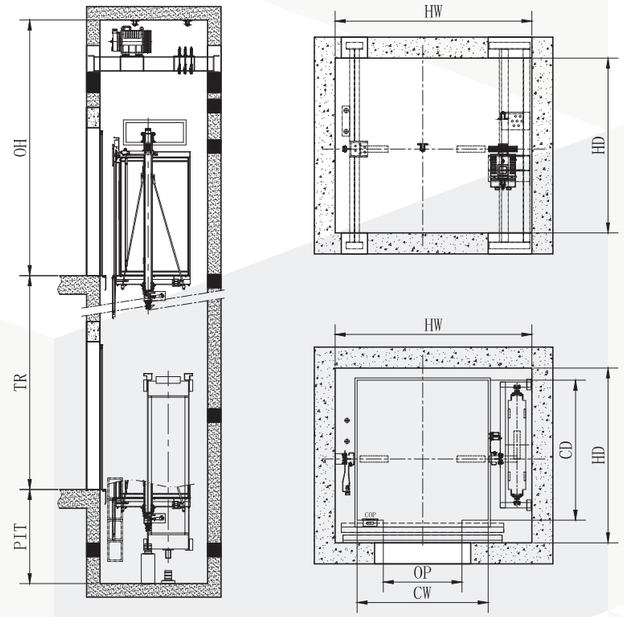
HL005

HL006



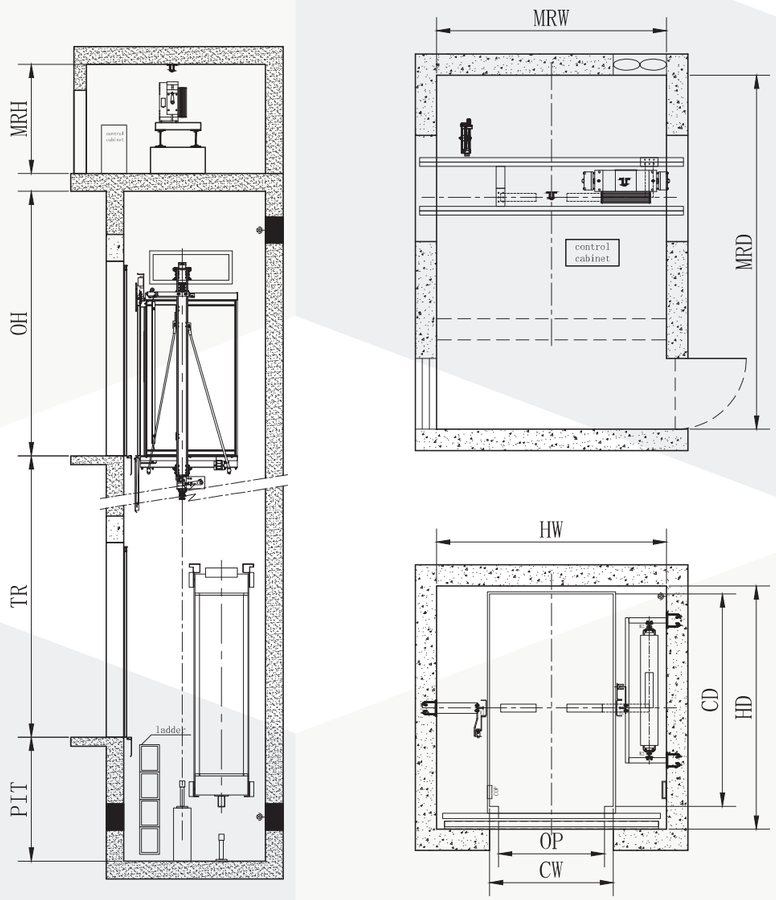
Specifications of passenger elevator with machine room

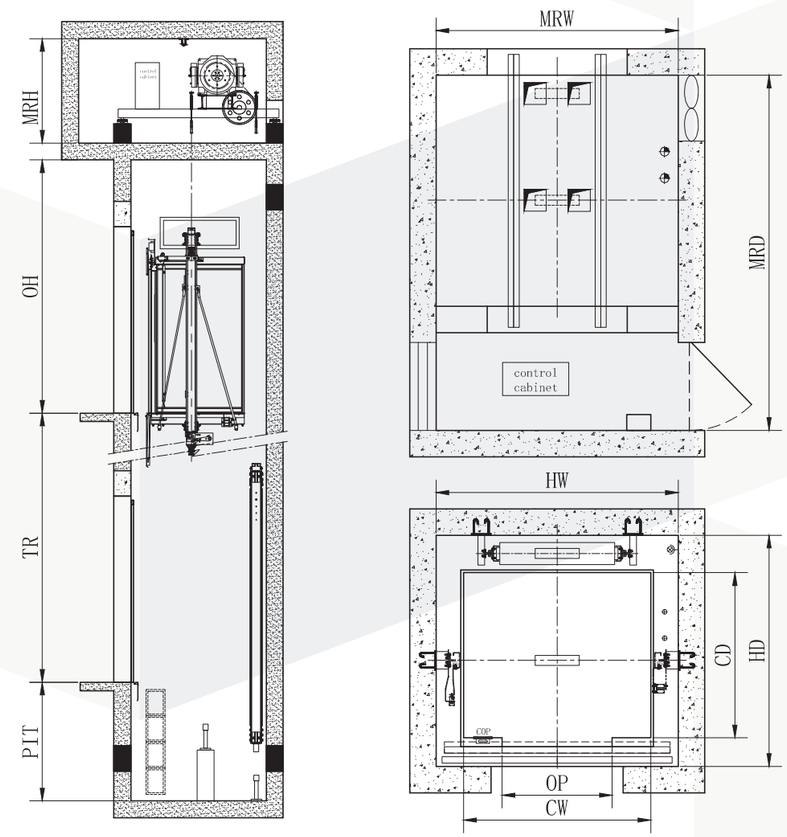
Load (kg)	Speed (m/s)	Car Size (mm)			Opening Size (mm)		Hoistway Size (mm)				Mzchine Room Size (mm)			HIGHEST Floors	Highest Rise Height (m)
		CW	CD	CH	OP	HH	HW	HD	OH	PIT	MRW	MRD	MRH		
450	1	1100	1100	2300	700	2100	1600	1700	4050	1400	1600	1700	≥2500	16	50
	1.5								4200	1500				25	75
630	1	1300	1200	2300	800	2100	1800	1800	4050	1400	1800	1800	≥2500	16	50
	1.5								4200	1500				25	75
	1.75								4250	1550				30	90
800	1	1400	1350	2300	800	2100	1850	1950	4050	1400	1850	1950	≥2500	16	50
	1.5								4200	1500				25	75
	1.75								4250	1550				30	90
	2								4400	1600				36	110
	2.5								4600	1850				40	120
1000	1	1600	1500	2300	900	2100	2050	2100	4050	1400	2050	2100	≥2500	16	50
	1.5								4200	1500				25	75
	1.75								4250	1550				30	90
	2								4400	1600				36	110
	2.5								4600	1850				40	120
1150	1	1700	1500	2300	1000	2100	2200	2100	4050	1400	2200	2100	≥2500	16	50
	1.5								4200	1500				25	75
	1.75								4250	1550				30	90
	2								4400	1600				36	110
	2.5								4600	1850				40	120
1250	1	1700	1700	2300	1000	2100	2200	2400	4100	1450	2200	2400	≥2500	16	50
	1.5								4200	1500				25	75
	1.75								4250	1550				30	90
	2								4400	1600				36	110
	2.5								4600	1850				40	120
1350	1	1800	1700	2300	1100	2100	2400	2400	4100	1450	2400	2400	≥2500	16	50
	1.5								4200	1500				25	75
	1.75								4250	1550				30	90
	2								4400	1600				36	110
	2.5								4600	1850				40	120
1600	1	1900	1800	2300	1200	2100	2600	2500	4100	1450	2600	2500	≥2500	16	50
	1.5								4200	1500				25	75
	1.75								4250	1550				30	90
	2								4400	1600				36	110
	2.5								4600	1850				40	120



Specifications of passenger elevator without machine room

Load (kg)	Speed (m/s)	Car Size (mm)			Opening Size (mm)		Hoistway Size (mm)				HIGHEST Floors	Highest Rise Height (m)
		CW	CD	CH	OP	HH	HW	HD	OH	PIT		
450	1	1100	1100	2300	800	2100	1800	1450	4050	1300	16	50
	1.5								4200	1400	25	75
630	1	1200	1300	2300	800	2100	1950	1650	4050	1300	16	50
	1.5								4200	1400	25	75
	1.75								4250	1450	30	90
800	1	1350	1400	2300	800	2100	2100	1800	4050	1300	16	50
	1.5								4200	1400	25	75
	1.75								4250	1450	30	90
1000	1	1500	1600	2300	900	2100	2250	2000	4050	1300	16	50
	1.5								4200	1400	25	75
	1.75								4250	1450	30	90
1150	1	1550	1700	2300	1000	2100	2400	2100	4050	1300	16	50
	1.5								4200	1400	25	75
	1.75								4250	1450	30	90
1250	1	1700	1700	2300	1000	2100	2500	2100	4050	1300	16	50
	1.5								4200	1400	25	75
	1.75								4250	1450	30	90
1350	1	1700	1800	2300	1100	2100	2500	2200	4050	1300	16	50
	1.5								4200	1400	25	75
	1.75								4250	1450	30	90
1600	1	1800	1900	2300	1200	2100	2600	2300	4050	1300	16	50
	1.5								4200	1400	25	75
	1.75								4250	1450	30	90





Specification parameter of hospital elevator

Load (kg)	Speed (m/s)	Car Size (mm)			Opening Size (mm)		Hoistway Size (mm)				Mzchine Room Size (mm)			HIGHEST Floors	Highest Rise Height (m)
		CW	CD	CH	OP	HH	HW	HD	OH	PIT	MRW	MRD	MRH		
1000	1	1100	2100	2300	800	2100	1900	2450	4050	1400	1900	2450	≥2500	16	50
	1.5								4200	1500				25	75
	1.75								4250	1550				30	90
	2								4400	1600				36	110
1350	1	1300	2300	2300	1100	2100	2400	2700	4100	1450	2400	2700	≥2500	16	50
	1.5								4200	1500				25	75
	1.75								4250	1550				30	90
	2								4400	1600				36	110
1600	1	1400	2400	2300	1200	2100	2600	2800	4100	1450	2600	2800	≥2500	16	50
	1.5								4200	1500				25	75
	1.75								4250	1550				30	90
	2								4400	1600				36	110

High speed passenger elevator

Load (kg)	Speed (m/s)	Car Size (mm)			Opening Size (mm)		Hoistway Size (mm)				Mzchine Room Size (mm)			HIGHEST Floors	Highest Rise Height (m)
		CW	CD	CH	OP	HH	HW	HD	OH	PIT	MRW	MRD	MRH		
1050	3	1600	1500	2500	900	2300	2300	2500	5500	2800	2500	4600	≥2500	66	200
	3.5								5800	3350				66	200
	4								6100	4000				66	200
1150	3	1700	1500	2500	1000	2300	2400	2500	5500	2800	2600	4600	≥2500	66	200
	3.5								5800	3350				66	200
	4								6100	4000				66	200
1350	3	1800	1700	2500	1100	2300	2600	2700	5500	2800	2800	4600	≥2500	66	200
	3.5								5800	3350				66	200
	4								6100	4000				66	200
1600	3	1900	1800	2500	1200	2300	2700	2800	5500	2800	2900	4600	≥2500	66	200
	3.5								5800	3350				66	200
	4								6100	4000				66	200
	5								7000	5000				66	200

PASSENGER ELEVATOR FUNCTION TABLE

Note: O is optional for residential △ is optional for business and hotel

General Protection

Closing time protection	Protection against reverse travel	
Emergency fire operation (EFO)	Prevent slipping protection	
Emergency lighting in the car	Safety circuit protection	
Overload warming (Caution light and buzzer)	Limit protection	
The screen door protection device	Upper and lower limit protection device	
Car roof and control cabinet emergency electric operation	Door interlock protection	
Fault automatic diagnosis	Operation contactor protection	
Alarm bell	Brake detection and protection	
Hitting the bottom buffer device	Manual brake release rescue (only for elevator with machine room)	
Outside door zone without opening door	Machine room door switch	
Wave detection of grid voltage	Driven equipment overheating protection (OHT)	
Contactor feedback detection	Fire signal feedback	
Relay detection protection	Electric brake (only for elevator without machine room)	
Speed feedback detection	Power-off emergency leveling	○ △
Fault low-speed self-rescue	Emergency power supply device operation	○ △
HB button embedded self-diagnosis	Firefighters service (in car)	○ △

Information Display

Hall and car digital position indicator	Running number display
Hall and car call/register	Floor display character arbitrary setting
Hall and car running direction display	

Steady Running

Return to base station without call	End station for speed and floor number correction
Full collective control	Parking
Independent service	Two parallel △
Full-load direct running (LNS)	Door opening re-leveling ○
Automatic door switch	Advance door opening ○
Pre-torque output	Group control operation management ○ △
Upon elevator floor setting	Double-door elevator ○ △
Hoistway self-learning	

Comfortable Ride

Hall and car door setting time	Manually selected floor
Open and close button	Cancellation of wrong landing
Automatic ventilation and lighting of automatic control in car	Anti-nuisance operating
Automatic cancellation of reverse order	Car arrival gong △
HB calls door opening	Attendant control ○ △
Repeated closing door	Ventilator automatic control (only for residential) ○
Bypassed stop setting	Voice announcement ○
Input port evaluation	Liquid display (only for residential) ○

Security Monitoring

Intercom from monitor room to machine room, car (Exclude machine room wired to monitor room)	Card reader ○ △
CCTV cable (From car to machine room) ○	BA interface (Dry contact) ○ △
Elevator remote control	Community monitoring panel ○ △
	Community computer monitoring ○ △

Headquarters:

No. 168, Xiangcheng Avenue, Xiangcheng District,
Suzhou, Jiangsu, China 215151
E-Mail:info@elevatorscn.com
Tel:+86 512 6618 1118
http://www.elevatorscn.com
http://www.facebook.com/larssonelevatorcn

LARSSON 2023.01

PASSENGER ELEVATOR

LARSSON ELEVATOR CO.,LTD