

人
智
心



SAEHAN ELEVATOR KOREA

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Homepage : <http://www.saehanel.co.kr>

Evolution

The cutting edge digital technology and IT new technology of Saehan Elevator is unfolding the new history of elevators.

If you select Saehan Elevators, you will benefit from the dramatically improved cutting edge technology.

SAEHAN DIGITAL ELEVATOR



The Perfect Digital Panel

The intensive lightweight and compact control panel of the cutting edge digital technology of the elevators will control in an optimal state and provide you with convenience functions.

Touch screen terminals with Advanced IT technologies applied

By applying the touch screen in the side of the elevator for the operating device, convenience, safety, and security are enhanced. Additionally, with the implementation of free communication with the outside world, we are able to open a new chapter for the elevators.

High Efficiency Gearless Traction Machine

The compact synchronous motors which are used in MRLs will be applied to middle and low speed MMR elevators. Since it is gearless, it is more efficient compared to the existing geared methods. It is not only energy saving but also superior in decreasing the noise and vibrations.

Eco-friendly Regen System

By regenerating the kinetic energy which is produced during the movement of elevators into electricity, it becomes a recycling system. As a result, the eco friendly Regen system allows the power consumption is reduced about 60% compared to the existing inverters.

Premium Design

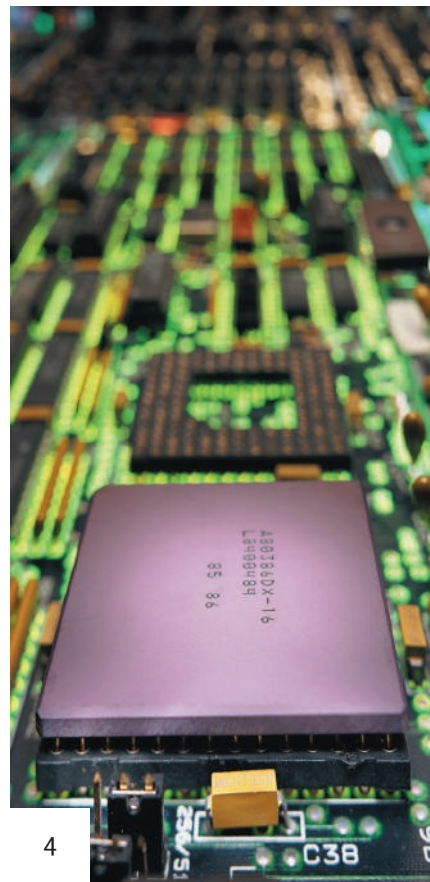
The design team of the Saehan Elevator Institute of technology department, wanted to provide a comfortable yet luxurious feel of variety of designs.

SAEHAN DIGITAL ELEVATOR

Saehan go forth into the world
to constant technological development

40 Different Varieties of Functions

The digital system of Saehan is very small but has a very strong function of 40 different types of control functions. As a result, Saehan Elevators provide the users of the elevators to use the elevators in a more convenient and safe way.



Distributed Control System Application

- After distributing the control system of the elevator into the machine room, CAR, and station, the data is transferred between with Network structure of the serial communication, the advanced control technology is applied to control the elevator.
- Wiring and electrical contacts are less than 30% of the existing methods, so when malfunctions occur, event of a failure factor has been inherently less so it will have more reliable.
- By the appearance of the control panel became lightweight and micro mini so it is possible to enjoy the intensive technology and it is possible to construct the machine room to be the same size as the hoist way (shaft).

Inverter only for Elevators

- By introducing the advanced signal processing DSP chip, it was possible to achieve 100% digital control
- By introducing the intelligent power storage, IPM, there is no audible noise as a result of switching is to high-frequency.
- UAs the inverter has built-in auto-tuning and 8-speed pattern capabilities, the ride implements a very smooth and stable ride.
- By combining the Micom board that controls the drive of the elevator and the inverter board that controls the speed of the elevator into one, the optimal control performance can be achieved.



Safety Landing Drive

The intensive lightweight and compact control panel of the cutting edge digital technology of the elevators will control in an optimal state and provide you with convenience functions.



Register and Cancel function of the button

The design team of the Saehan Elevator Institute of technology department, wanted to provide a comfortable yet luxurious feel of variety of designs.



Failure detection button and separation function

The design team of the Saehan Elevator Institute of technology department, wanted to provide a comfortable yet luxurious feel of variety of designs.



Power-saving features

The design team of the Saehan Elevator Institute of technology department, wanted to provide a comfortable yet luxurious feel of variety of designs.



Self-Assessment and Record Keeping Functions

By applying the touch screen in the side of the elevator for the operating device, convenience, safety, and security are enhanced. Additionally, with the implementation of free communication with the outside world, we are able to open a new chapter for the elevators.



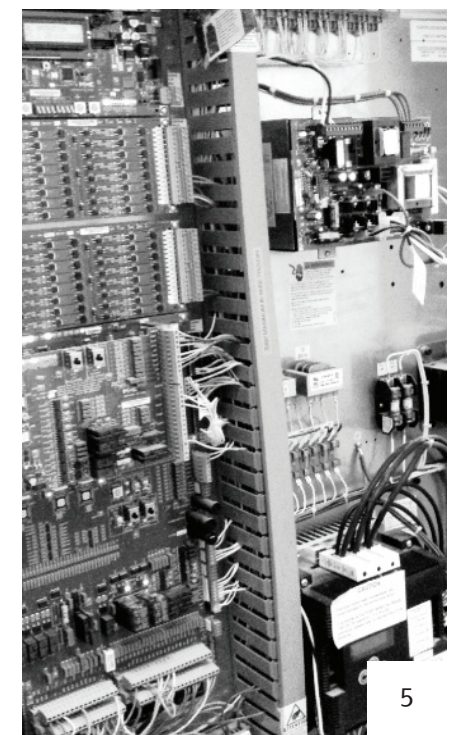
Different driving ranges

The design team of the Saehan Elevator Institute of technology department, wanted to provide a comfortable yet luxurious feel.



Remote Control System

The design team of the Saehan Elevator Institute of technology department, wanted to provide a comfortable yet luxurious feel of variety of designs.



01 PASSENGER ELEVATOR

PASSENGER ELEVATOR 02



Rear View



Front View

Cabin Design	
Ceiling	SH-09
Door	Painted Steel
Wall	Painted Steel
COP	SCOP-01
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Entrance Design	
Jamb(G)	Painted Steel
Door(G)	Painted Steel
Jamb(T)	Painted Steel
Door(T)	Painted Steel



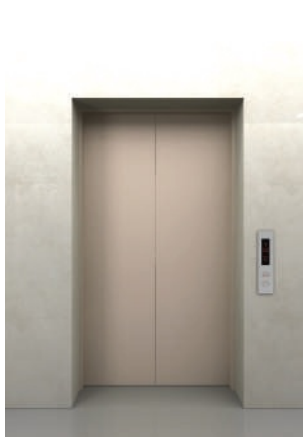
Front View



Rear View

Cabin Design	
Ceiling	SH-03
Door	Painted Steel
Wall	Painted Steel
COP	SCOP-01
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Entrance Design	
Jamb(G)	Painted Steel
Door(G)	Painted Steel
Jamb(T)	Painted Steel
Door(T)	Painted Steel



03 PASSENGER ELEVATOR

Rear View



Front View

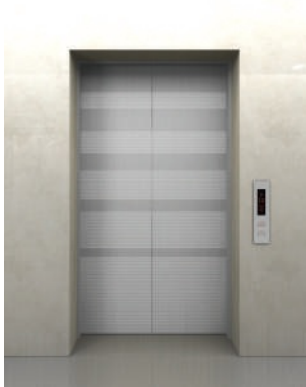


Cabin Design

Ceiling	SH-05
Door	Stainless Steel Hairline Etching
Wall	Stainless Steel Hairline Etching
COP	SCOP-02
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Entrance Design

Jamb(G)	Stainless Steel Hairline
Door(G)	Stainless Steel Hairline Etching
Jamb(T)	Stainless Steel Hairline
Door(T)	Stainless Steel Hairline Etching



PASSENGER ELEVATOR 04

Front View



Rear View



Cabin Design

Ceiling	SH-04
Door	Stainless Steel Hairline Etching
Wall	Stainless Steel Hairline Etching
COP	SCOP-02
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Entrance Design

Jamb(G)	Stainless Steel Hairline
Door(G)	Stainless Steel Hairline Etching
Jamb(T)	Stainless Steel Hairline
Door(T)	Stainless Steel Hairline Etching



05 PASSENGER ELEVATOR

Rear View



Front View



Cabin Design

Ceiling	SH-03
Door	Stainless Steel Mirror Etching
Wall	Stainless Steel Mirror Etching
COP	SCOP-02
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Entrance Design

Jamb(G)	Stainless Steel Mirror
Door(G)	Stainless Steel Mirror Etching
Jamb(T)	Stainless Steel Hairline
Door(T)	Stainless Steel Hairline Etching



PASSENGER ELEVATOR 06

Front View



Rear View



Cabin Design

Ceiling	SH-08
Door	Stainless Steel Mirror Etching
Wall	Stainless Steel Mirror Etching
COP	SCOP-02
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Entrance Design

Jamb(G)	Stainless Steel Mirror
Door(G)	Stainless Steel Mirror Etching
Jamb(T)	Stainless Steel Hairline
Door(T)	Stainless Steel Hairline Etching



07 PASSENGER ELEVATOR



Cabin Design	
Ceiling	SH-08
Door	Ti-Steel
Wall	Stainless Steel Mirror Etching / Ti-Steel
COP	SCOP-02
Handrail	HR-01
Floor	Decotile / Marble (Optional)



Entrance Design	
Jamb(G)	Stainless Steel Hairline
Door(G)	Ti-Steel
Jamb(T)	Stainless Steel Hairline
Door(T)	Ti-Steel

PASSENGER ELEVATOR 08



Cabin Design	
Ceiling	SH-10
Door	Stainless Steel Hairline
Wall	Stainless Steel Hairline / Ti-Steel / Mirror
COP	SCOP-02
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Entrance Design	
Jamb(G)	Stainless Steel Hairline
Transom(G)	Stainless Steel Ti-Steel
Door(G)	Ti-Steel (Rain)
Jamb(T)	Stainless Steel Hairline
Door(T)	Stainless Steel Hairline



09PASSENGER ELEVATOR

Rear View



Front View



Cabin Design

Ceiling	SH-01
Door	Ti-Steel
Wall	Stainless Steel Mirror / Ti-Steel
COP	SCOP-01
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Entrance Design

Jamb(G)	Stainless Steel Hairline
Door(G)	Ti-Steel Clover Gold
Jamb(T)	Stainless Steel Hairline
Door(T)	Ti-Steel Clover Gold



PASSENGER ELEVATOR 10

Front View



Rear View



Cabin Design

Ceiling	SH-02
Door	High Glossy
Wall	High Glossy
COP	SCOP-01
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Entrance Design

Jamb(G)	High Glossy
Door(G)	High Glossy
Jamb(T)	High Glossy
Door(T)	High Glossy



11 PASSENGER ELEVATOR

Rear View



Front View



Cabin Design

Ceiling	SH-07
Door	Smart Metal
Wall	Stainless Steel Mirror / Smart Metal
COP	SCOP-01
Handrail	HR-01
Floor	Decotile / Marble (Optional)

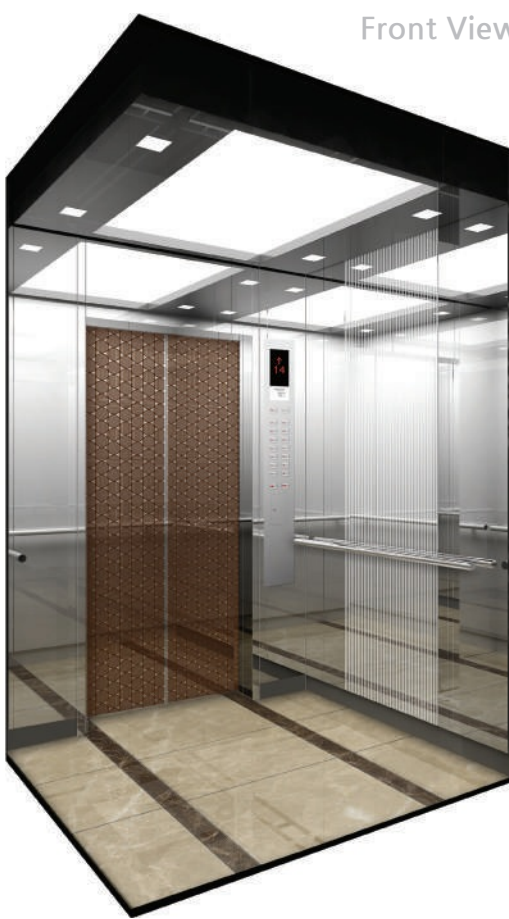
Entrance Design

Jamb(G)	Stainless Steel Mirror
Door(G)	Stainless Steel Mirror Smart Metal
Jamb(T)	Stainless Steel Mirror
Door(T)	Stainless Steel Mirror Smart Metal



PASSENGER ELEVATOR 12

Front View



Rear View



Cabin Design

Ceiling	SH-06
Door	Smart Metal
Wall	Stainless Steel Mirror / Smart Metal
COP	SCOP-02
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Entrance Design

Jamb(G)	Stainless Steel Mirror
Door(G)	Stainless Steel Mirror Etching
Jamb(T)	Stainless Steel Hairline
Door(T)	Stainless Steel Hairline Etching



13 OBSERVATION ELEVATOR



Rear View



Front View



Entrance Design (Top Floor)

Cabin Design

Ceiling	SH-03
Door	Stainless Steel Mirror / Glass
Wall	Stainless Steel Etching / Glass
COP	SCOP-01
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Jamb	Stainless Steel Hairline
Door	Stainless Steel Hairline / Glass
Hall Button	SHB-02

OBSERVATION ELEVATOR14



Front View



Entrance Design (Typical Floors)



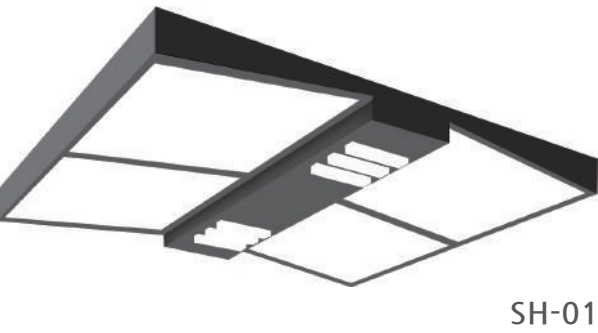
Rear View

Cabin Design

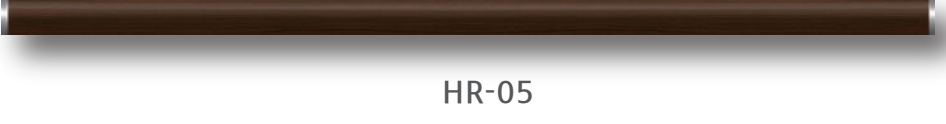
Ceiling	SH-04
Door	Stainless Steel Hairline
Wall	Stainless Steel Hairline Etching
COP	SCOP-02
Handrail	HR-01
Floor	Decotile / Marble (Optional)

Jamb	Stainless Steel Hairline
Door	Stainless Steel Hairline / Glass
Hall Button	SHB-02

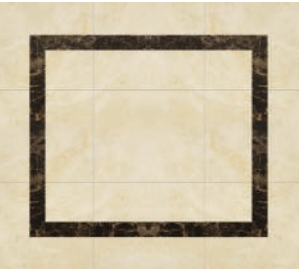
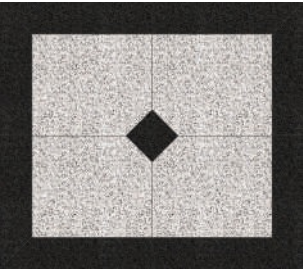
CEILING



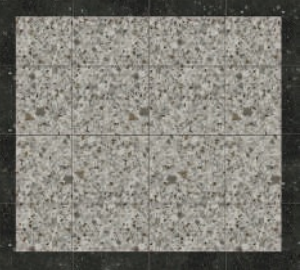
HANDRAIL & FLOOR



Decotile



Artificial Marble



FIXTURES

Car Operating Panel



ST-02
OPTION



SCOP-01



SCOP-02



SCOP-03
층표시기 분리형

Hall / Car Position Indicator



HPI-01



HPI-02



HPI-03



HPI-04



SLBM-01
OPTION



SLD-01
OPTION

※ 엘리베이터 내부용 층표시기(CPI)는 층표시기 분리형 COP를 선택하실 경우에만 해당됩니다.

FIXTURES

Button



SBT-01



SBT-02



SBT-03



SBT-04

Hall Button



SHB-01



SHB-02



SHB-03
슬림(돌출)형



SHB-04
슬림(돌출)형



SHB-05
슬림(돌출)형

Hall Indicator Button



SHIB-01



SHIB-02



SHIB-03
슬림(돌출)형



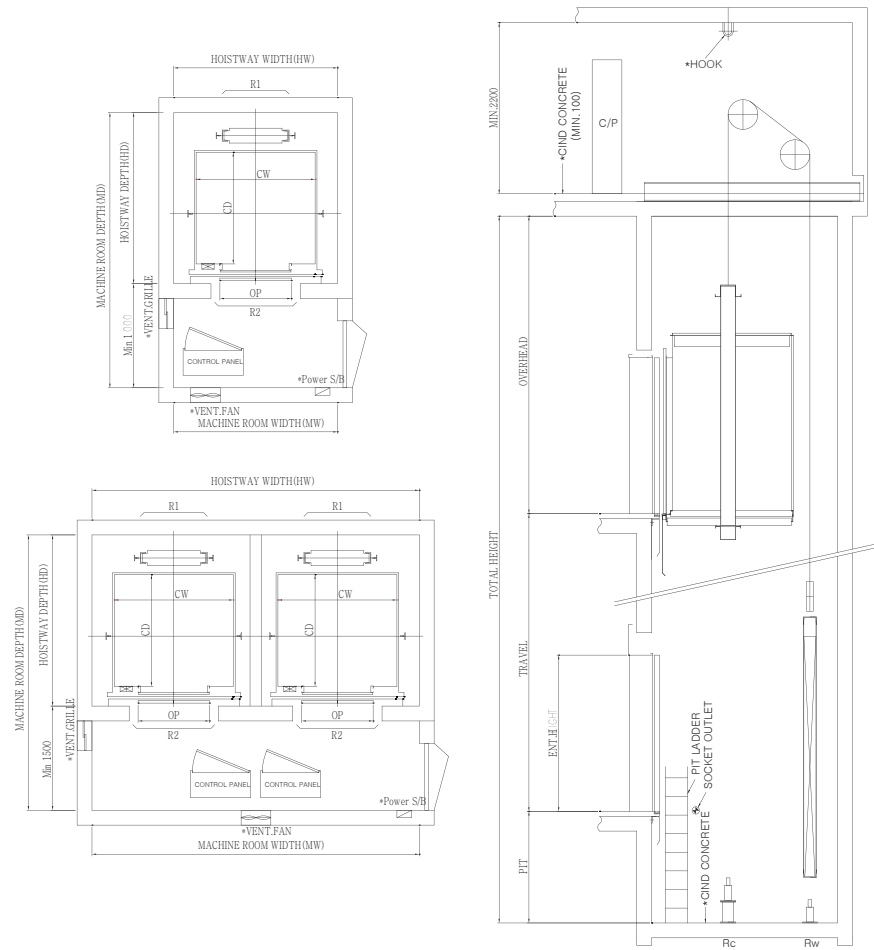
SHIB-04
슬림(돌출)형



SHIB-05
장애인용

ELEVATOR LAYOUT DIMENSION

PASSENGER ELEVATOR(Machine Room)



Note.
Marked as "*" shall be provided by builder (or owner)

HOISTWAY SECTION

(Unit:mm)

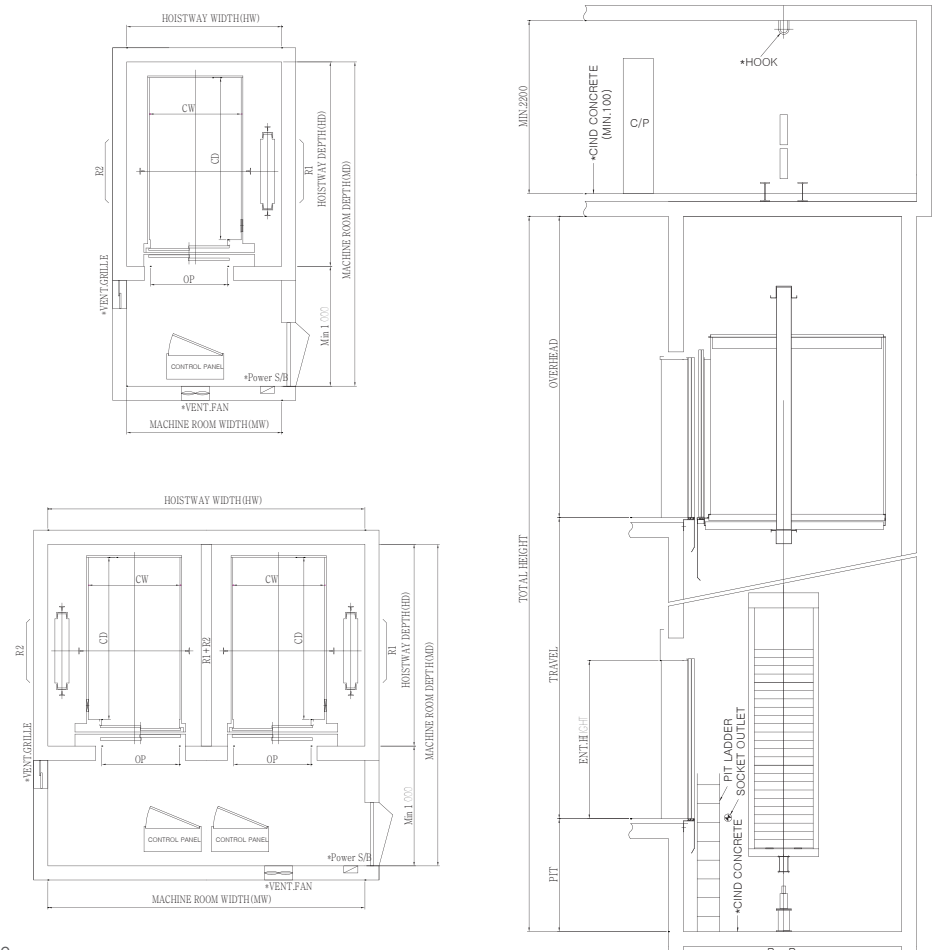
	Capacity		Door Opening		Car Insize		Hoistway size				Machine room size				MC Room Reaction Load (kg)		Pit Reaction Load(kg)	
	[m/min]	person	[kg]	Type	width	CW	CD	Simplex		Duplex		Simplex		Duplex				
								HW	HD	HW	HD	MW	MD	MW	MD	R1	R2	Rc
60~120	6	400	2P-CO	700	1100	1050	1550	1650	3200	1650	1550	2000	3200	2000	3800	2350	5500	3300
				800	1400	800	1800	1400	3700	1400	1800	2000	3700	2000				
	8	550	2P-CO	800	1400	1000	1800	1600	3700	1600	1800	2000	3700	2000	4200	2800	6200	4500
	9	600	2P-CO	800	1400	1100	1800	1700	3700	1700	1800	2000	3700	2000	4500	3100	6550	4700
	10	680	2P-CO	800	1400	1200	1800	1800	3700	1800	1800	2100	3700	2100	4900	3400	7300	5150
	11	750	2P-CO	800	1400	1300	1800	1900	3700	1900	1800	2100	3700	2100	5400	3850	7800	5500
	13	900	2P-CO	900	1600	1300	2000	1900	4100	1900	2000	2100	4100	2100	5750	4100	9400	6650
	15	1000	2P-CO	900	1600	1400	2000	2000	4100	2000	2000	2200	4100	2200	6150	4600	9950	6900
	17	1150	2P-CO	1000	1800	1450	2200	2050	4550	2050	2200	2200	4550	2200	9400	7750	12300	8750
	20	1350	2P-CO	1100	2000	1450	2500	2100	5150	2100	2500	2200	5150	2200	10000	8250	13600	9500
	24	1600	2P-CO	1200	2100	1600	2600	2250	5350	2250	2600	2250	5350	2250	11600	8700	15400	11600
	30	2000	2P-CO	1200	2350	1700	2850	2400	5850	2400	2850	2400	5850	2400	14400	10600	19100	14600
36	2500	2P-CO	1200	2350	2050	2850	2750	5850	2750	2850	2750	5850	2750	17900	12600	23700	18300	

(Unit:mm)

Capacity [kg]	Speed [m/min]	Overhead [mm]	Pit Depth [mm]	Machine Room Height [mm]	Remark
400~1000	45	3900	1400	2100	
	60	4000	1500	2100	
	90	1200	1600	2200	
	105	4500	1700	2200	
1150~2500	45	4000	1500	2100	
	60	4200	1600	2200	
	90	4400	1700	2300	
	105	4700	1900	2300	

ELEVATOR LAYOUT DIMENSION

BED ELEVATOR(Machine Room)



Note.
Marked as "*" shall be provided by builder (or owner)

HOISTWAY SECTION

Code area

(Unit:mm)

Speed	Capacity		Door Opening		Car Insize		Hoistway size				Machine room size				MC Room Reaction Load(kg)		Pit Reaction Load (kg)	
							Simplex		Duplex		Simplex		Duplex					
[m/min]	person	[kg]	Type	Width	CW	CD	HW	HD	HW	HD	MW	MD	MW	MD	R1	R2	Rc	Rw
60~105	20	1350	2P-2S	1100	1300	2300	2100	2800	4350	2800	2100	3000	4350	3000	7900	6100	8800	6700
	24	1600	2P-2S	1200	1500	2300	2300	2800	4750	2800	2300	3000	4750	3000	11550	8500	9500	7700

(Unit:mm)

Non-code area

(Unit:mm)

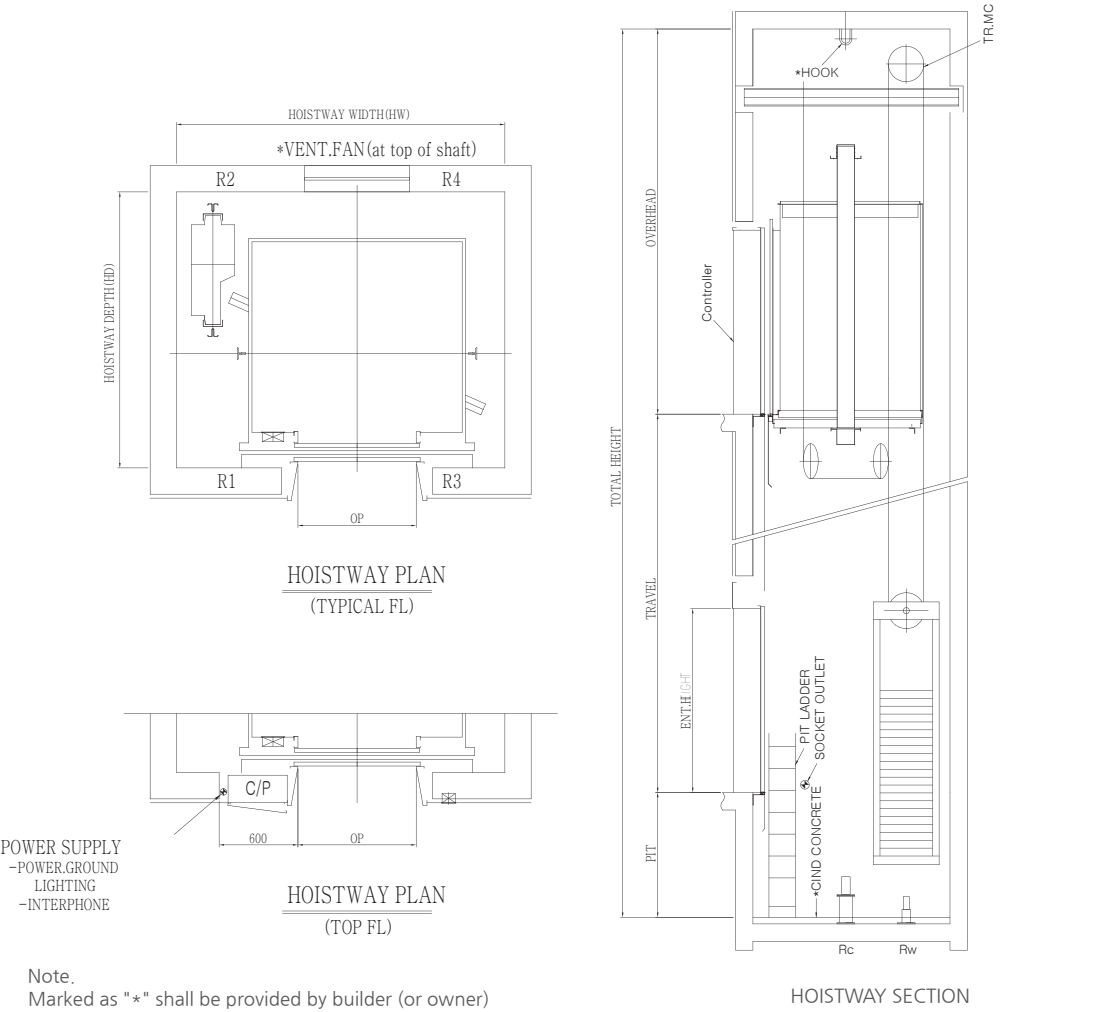
Speed	Capacity		Door Opening		Car Insize		Hoistway size				Machine room size				MC Room Reaction Load(kg)		Pit Reaction Load (kg)	
							Simplex		Duplex		Simplex		Duplex					
[m/min]	person	[kg]	Type	Width	CW	CD	HW	HD	HW	HD	MW	MD	MW	MD	R1	R2	Rc	Rw
60~105	10(11)	750	2P-2S	1100	1300	2300	2100	2800	4350	2800	2100	3000	4350	3000	6500	4100	8500	6500
	13(15)	1000	2P-2S	1200	1500	2300	2300	2800	4750	2800	2300	3000	4750	3000	6800	5100	9000	7000

(Unit:mm)

Capacity [kg]	Speed [m/min]	Overhead [mm]	Pit Depth [mm]	Machine Room Height [mm]	Remark
750~1600	60	4400	1500	2100	
	90	4500	1600	2200	
	105	4700	1700	2300	

ELEVATOR LAYOUT DIMENSION

PASSENGER ELEVATOR(Machine RoomLess)

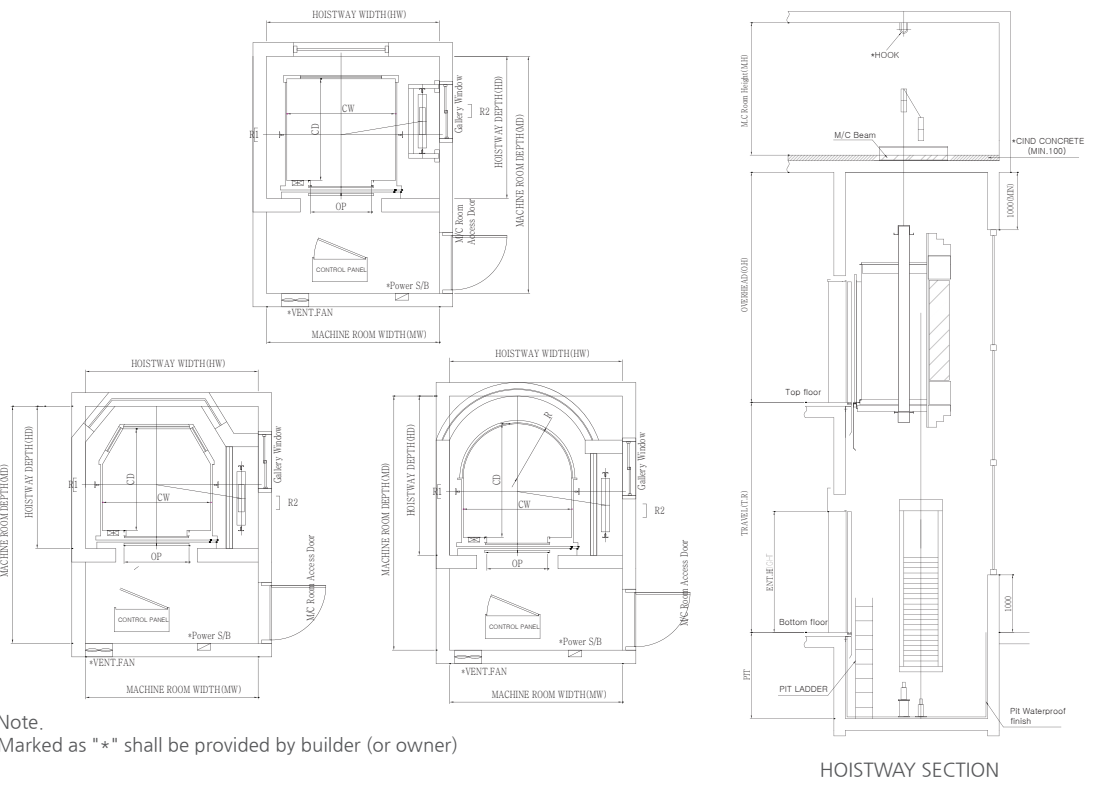


(Unit:mm)														
Speed	Capacity		Door Opening		Car Insize		Hoistway size		MC Room Reaction Load (kg)				Pit Reaction Load(kg)	
							Simplex							
[m/min]	person	[kg]	Type	width	CW	CD	HW	HD	R1	R2	R3	R4	Rc	Rw
60~105	6	400	2P-CO	700	1100	1050	1850	1600	2200	4000	1500	400	5500	3300
				800	1400	800	2050	1500						
	8	550	2P-CO	800	1400	1000	2050	1600	2200	4000	1500	400	6200	4500
	9	600	2P-CO	800	1400	1100	2100	1700	2200	4300	3100	600	6550	4700
	10	680	2P-CO	800	1400	1200	2100	1800	2200	4300	3400	600	7300	5150
	11	750	2P-CO	800	1400	1300	2100	1850	2300	4500	3850	600	7800	5500
	13	900	2P-CO	900	1600	1300	2300	1850	2600	5100	4100	700	9400	6650
	15	1000	2P-CO	900	1600	1400	2300	1900	2600	5200	4600	700	9950	6900
	17	1150	2P-CO	1000	1800	1450	2200	2050	2900	5850	7750	850	12300	8750
	20	1350	2P-CO	1100	2000	1450	2500	2100	3500	6800	8250	1100	13600	9500
	24	1600	2P-CO	1200	2100	1600	2600	2250	4700	7200	8700	1200	15400	11600
	30	2000	2P-CO	1200	2350	1700	2850	2400	6200	7600	10600	1400	19100	14600
36	2500	2P-CO	1200	2350	2050	2850	2750	7300	8200	12600	1600	23700	18300	

Capacity [kg]	Speed [m/min]	Overhead [mm]	Pit Depth [mm]	Remark
400~1000	45	3800	1400	
	60	3800	1500	
	90	4000	1600	
	105	4300	1700	
1150~2500	45	4000	1500	
	60	4000	1600	
	90	4200	1700	
	105	4500	1900	

ELEVATOR LAYOUT DIMENSION

PANORAMIC ELEVATOR(Machine Room)



Speed	Capacity		Door Opening		Car Insize		Hoistway size		Machine room size		MC Room Reaction Load (kg)		Pit Reaction Load (kg)	
							Simplex	Duplex	Simplex	Duplex				
[m/min]	person	[kg]	Type	Width	CW	CD	HW	HD	MW	MD	R1	R2	Rc	Rw
60~105	8	550	2P-CO	800	1400	1000	2200	1500	2200	2000	4250	3350	6700	5500
	9	600	2P-CO	800	1400	1100	2200	1600	2200	2000	4500	3500	7050	5700
	10	680	2P-CO	800	1400	1200	2200	1700	2200	2000	4900	3700	7050	5700
	11	750	2P-CO	800	1400	1300	2200	1900	2200	2000	5400	4000	8300	6500
	13	900	2P-CO	900	1600	1300	2400	1900	2400	2000	6300	4350	9900	8800
	15	1000	2P-CO	900	1600	1400	2400	2000	2400	2200	6650	4650	11600	9200
	17	1150	2P-CO	1000	1800	1450	2600	2050	2600	2200	10050	6000	12400	10200
	20	1350	2P-CO	1100	2000	1450	2800	2050	2800	2200	10700	6500	12900	11900
	24	1600	2P-CO	1100	2100	1600	3000	2200	3000	2200	12050	6650	13400	12400

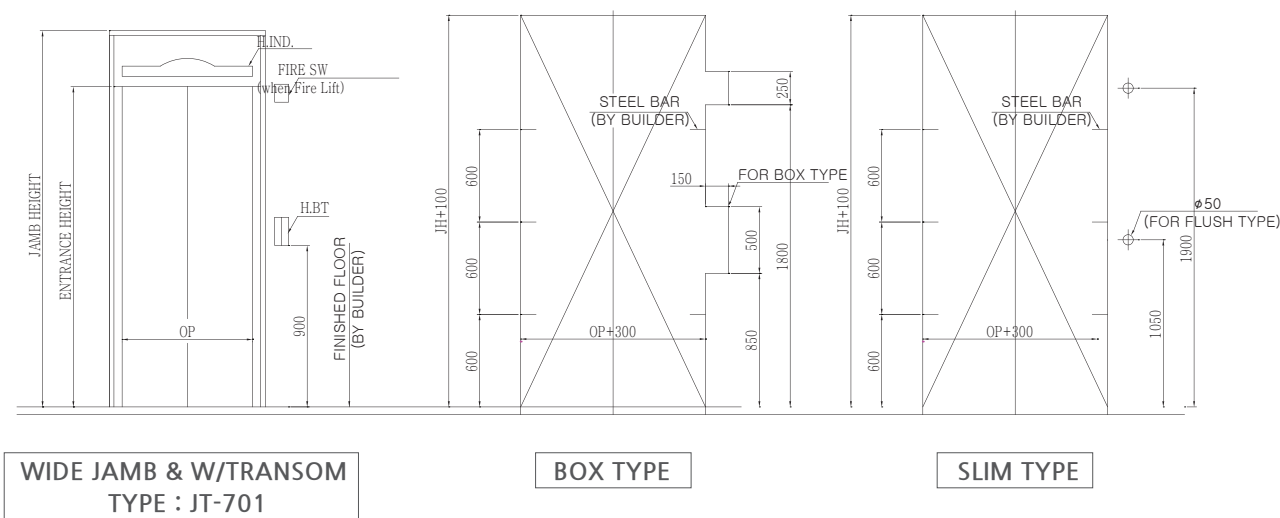
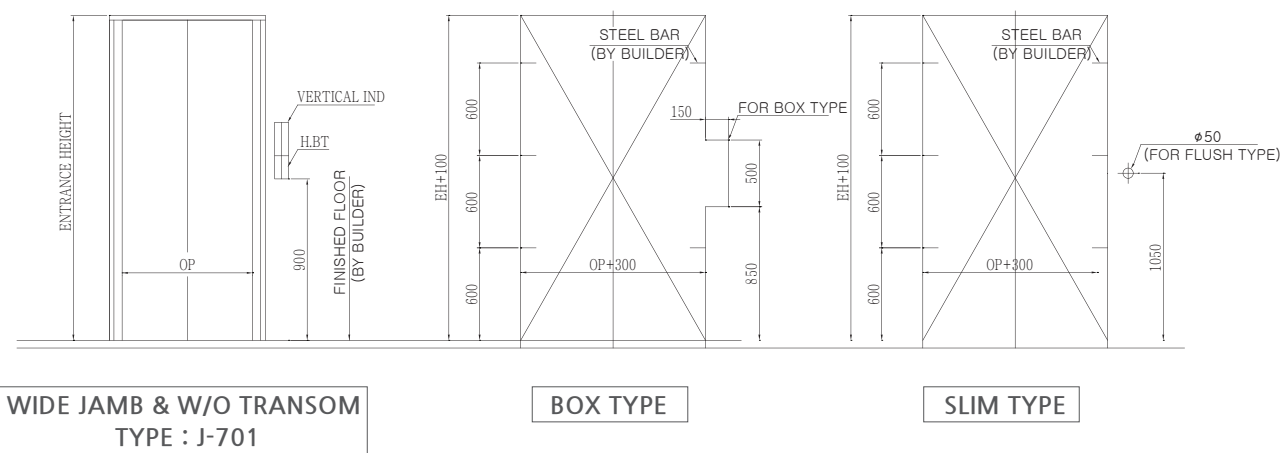
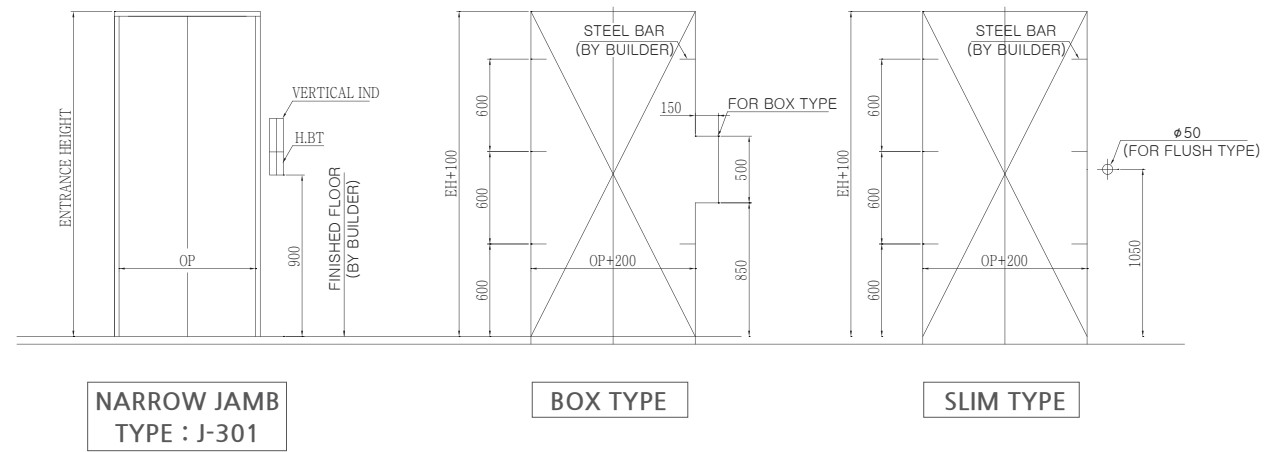
Speed	Capacity		Door Opening		Car Insize		Hoistway size		Machine room size		MC Room Reaction Load (kg)		Pit Reaction Load (kg)	
							Simplex	Duplex	Simplex	Duplex				
[m/min]	person	[kg]	Type	Width	CW	CD	HW	HD	MW	MD	R1	R2	Rc	Rw
60~105	15	1000	2P-CO	900	1400	1800	2400	2450	2400	3150	7600	5250	13800	11400
	17	1250	2P-CO	900	1500	1800	2500	2550	2500	3250	10200	6750	14600	12400
	20	1350	2P-CO	1000	1600	1950	2650	2700	2650	3400	11250	6750	16100	15100
	24	1600	2P-CO	1100	1700	2100	2850	2850	2850	3550	12450	6850	16600	15600

Speed	Capacity		Door Opening		Car Insize		Hoistway size		Machine room size		MC Room Reaction Load (kg)		Pit Reaction Load (kg)	
							Simplex	Duplex	Simplex	Duplex				
[m/min]	person	[kg]	Type	Width	CW	CD	HW	HD	MW	MD	R1	R2	Rc	Rw
60~105	13	900	2P-CO	900	1500	1450	2400	2050	2400	2750	7250	4650	12200	10000
	15	1000	2P-CO	900	1500	1650	2400	2250	2400	2950	7600	4950	12800	10400
	17	1250	2P-CO	1000	1600	1750	2650	2400	2650	3100	10200	6400	13600	11400
	20	1350	2P-CO	1000	1700	1850	2750	2500	2750	3200	11050	6650	14100	13100

Speed [m/min]	Overhead [mm]	Pit Depth [mm]	Machine Room Height [mm]	Remark
60	4500	2000	2100/2300	2300 : Load = 1600
90	4600	2100	2200/2300	
105	4700	2300	2200/2300	

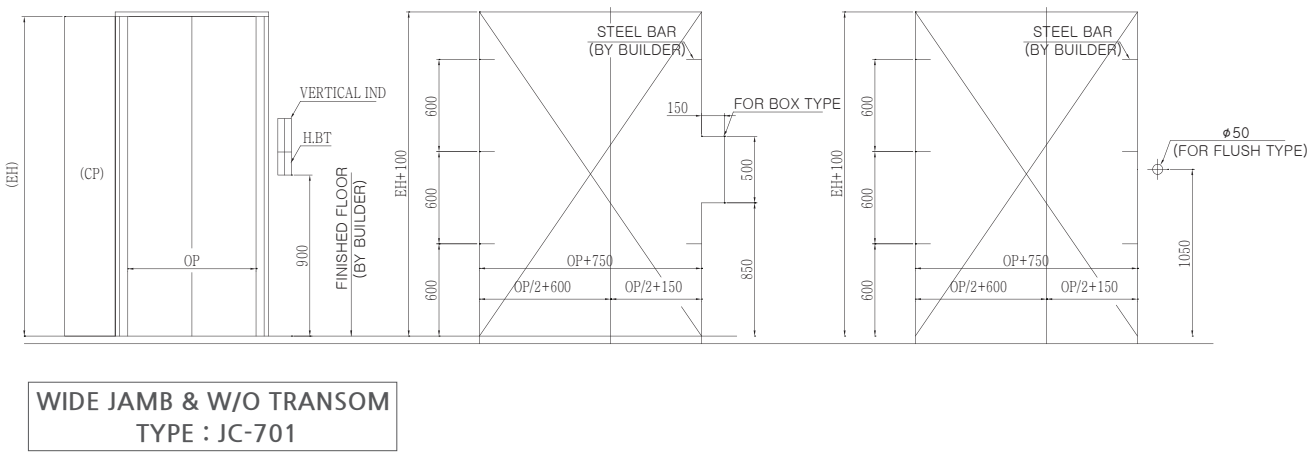
ELEVATOR LAYOUT DIMENSION

Entrance Plan

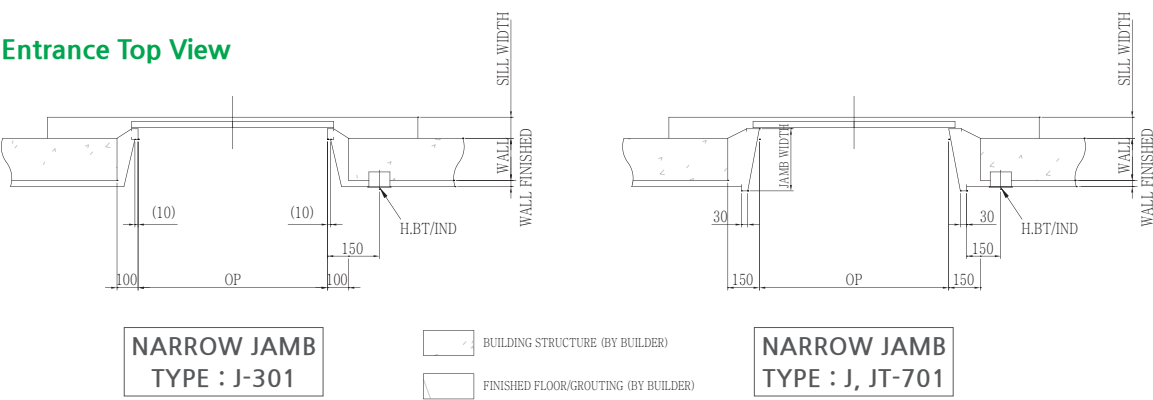


ELEVATOR LAYOUT DIMENSION

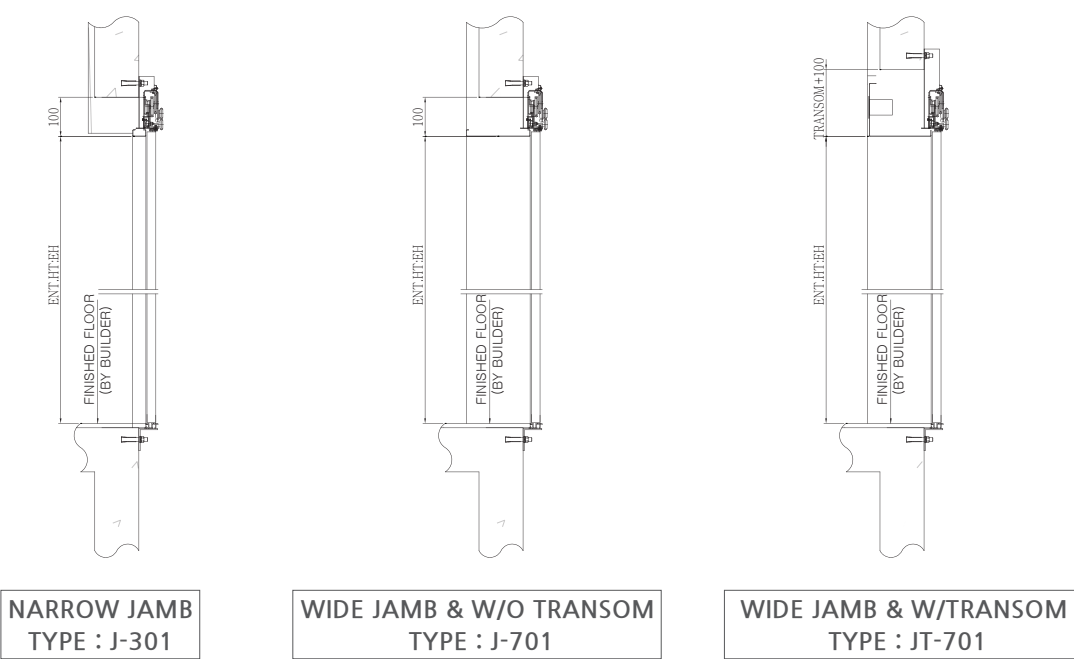
Entrance Plan For MRL (C/P Mounting Floor)



Entrance Top View

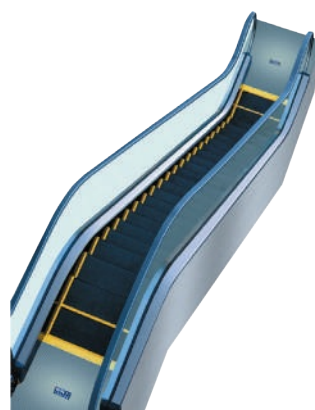


Entrance Section View



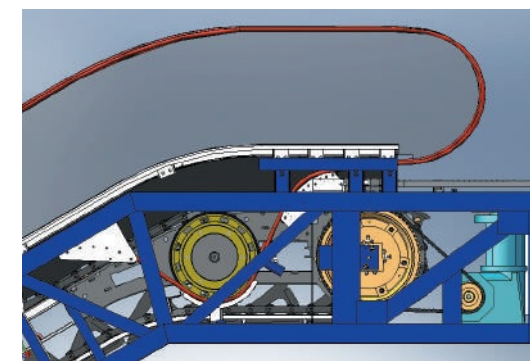
ESCALATOR

We offer an escalator in the world's highest quality produced through strict quality control in the world's largest factory with competitive price.



Escalators of the highest quality

And producing and using only the escalator truss automatic welding robot in the world, the way to assemble the parts assembled in one place, not the escalator to build a large-scale assembly line, each assembly process specialization, standardization and production of high quality products and.



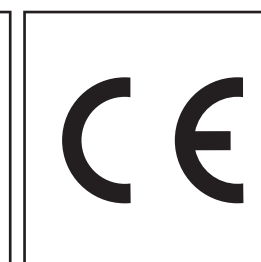
High-efficiency motor with worm and helical gear applicable

Can save energy by applying a high-efficiency motors on all models, and if there are no passengers to stop the operation of the escalator minimize energy consumption.

In addition to preventing the operation of the reverse direction to improve the riding comfort and fundamentally by applying the complement of the worm reduction gear and helical manner the drawbacks of the basic scheme of the worm gear and helical manner provides a more secure escalator system.



Environment-friendly and automated coating corrosion and wear my uniform coating through the system is excellent.



About CANNY GROUP

CANNY GROUP is a professional manufacturer of the world's largest professional production enterprises with living escalators and elevators. Particularly in the case of an escalator and boasts a production scale and quality in the world.

Have a test tower production factory total area of 250,000 square meters and a height of 80m and has been operating a Chinese national ministries, universities and cooperation of two research and development centers produce 8,000 annual escalator University through various modernized production equipment you are exported to all over the world. Schindler, Thyssen-ku Srpska delivery OEM and enterprise products, such as the thousands of units, and we guarantee you receive domestic EK certification and European CE certification quality and excellence in safety. Domestic customers will also readily available supply through the (main) Saehan elevator.



ESCALATOR

Indoor Escalator



Escalator Post Beam



Handrail Color

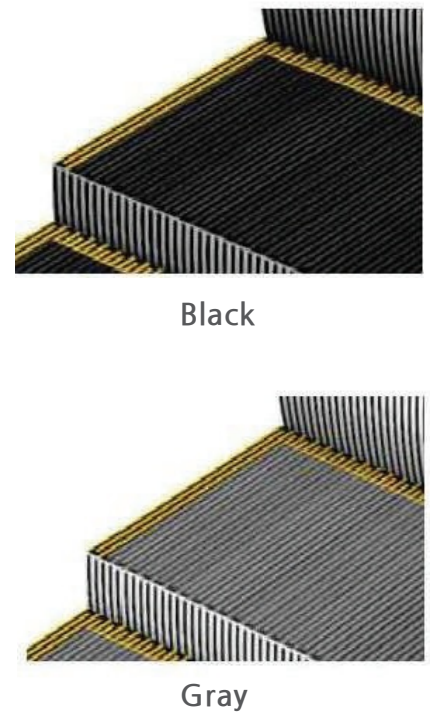


Outdoor Escalator

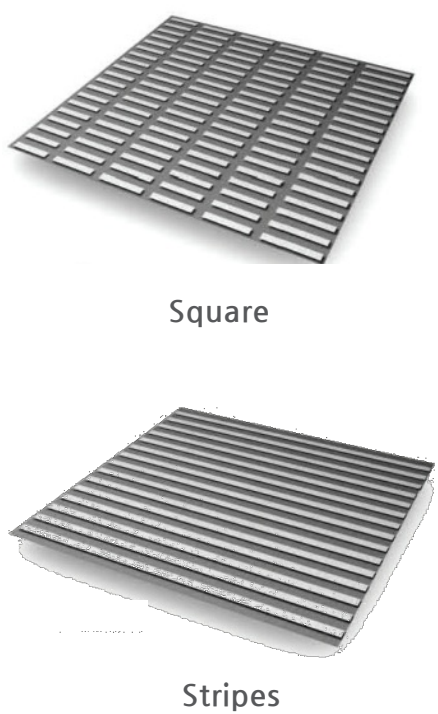
Waterproof, Anti-freeze heated,
Night lighting equipment,
Durable reinforced handrail apply



Step Color



Landing Plate Nonslip Pattern



TECHNICAL FEATURE

Feature	Description	Remark
Anti- nuisance Operation	Incase of substantial difference between the number of calls registered on the car operating panel and actual load in the elevator, the elevator prevents unnecessary operation by cancelling all registered calls when it arrives at the nearest floor.	●
Car Call Cancellation	Allows cancellation of an incorrectly registered car call. If you push a wrong floor button in the car, you can cancel it by pressing the same button one more time.	●
Automatic Turn Off of Car Light and Fan	Car illumination and fan are turned off automatically in case there is no hall call or car call to save energy.	●
By Pass Operation (80%)	If the actual load comes to more than 80% of the allowable maximum load, the elevator will not react to the calling signals from other passing floors.	●
Over Load (110% of Rated load)Holding Stop	When the load of passengers exceeds the maximum capacity, a buzzer sounds and the elevator remains stopped at the floor. When the passengers get off, the buzzer will stop. Consequently elevator doors will close and operation continues.	●
Anti Hall Button Jamming	If landing door would not closed by a hall button's jamming and it is caused car can't start then, the floor will close in force by the command from controller so that the car service next calls.	●
Door Reopen Control	While the car door is closing, if a door reopen signal is occurred the door will be reopened immediately and after specified time expired the door will again close.	●
Car Door Safety Edge	This devise enables the doors the return to the fully open position, should the door encounter a person or obstacle while closing.	●
Automatic Adjustment of Door Time	Door closing time can be adjusted in order to improve the efficiency.	●
Micro Leveling	An automatic two-way leveling device is provided to maintain the elevator car level with the landing, regardless of elevator load or direction travel.	●
Back-up Operation	In normal operation, if the serial communication between the controller and it's terminal board have something malfunction, the car mode is changed to a "back-up" mode automatically, then the car checks itself by servicing every even floors and every odd floors until the car returns normal condition. By this operation, even though the car has something malfunction, passengers can be offered a limited service without shutdown.	●
Safety Drive Operation	During normal operation, a malfunction is occurred suddenly but it's not serious, in this case, if the car is not in a door zone, then the car starts to run to the nearest floor in slow speed. After stop at the nearest floor, the case remains stop with door fully open and "Out of service" lamp. If the car condition is possible to return a normal condition itself the, the car can service normal operation again.	●
Voice Synthesizer	This system provides passengers with audio information about car operation such as direction of travel, landing floor, etc.	●
Door Photo Sensor	The door will return to fully open position if the light ray until detects an obstacle when the door are closing.	
Multi-photo	When passengers are entering or getting out of the elevator, the multi-photo device will prevent the door from closing.	
Forced Floor Stop	After service on specific floor stop by car call, the car is operated normally.	
Supervisory Panel	This panel monitors elevator operations and conditions of emergency operations from the building's control room.	
Parking Operation	In order for park the elevator, if the parking key is on position the car stop at the specified floor after finish servicing of all of registered calls. After the car stops at the specified floor, the car light and fan are off automatically and every buttons both on the car operating panel and hall button box are no more available.	●
Fire Return Operation	In case of fire every cars should be returned to the specified floor in order to evacuate passengers safety.	
Fireman Operation	In case of fire, a firemen can use the elevator which is stopped at the specified floor in order to support firemen for fire-fighting.	

TECHNICAL FEATURE

Work by Others

The works below are not included in the elevator installation work and should be carried out by building contractors in accordance with our drawings, relevant international or local codes and regulations.

Hoistway	* A properly framed and enclosed hoistway, including any ventilation as required by the governing code or authority.
	* A dry pit constructed to the elevator manufacturer's specifications to reinforce or sustain any vertical forced on the guide rails and impacted loads from the car and counterweight buffers.
	* A metal still angle or concrete haunch across the full width of the hoistway at each elevator landing.
	* Provision of steel bars to fix jamb around the entrance of each floor.
	* All cutting, including cutouts to accommodate hall signal fixtures, patching, painting of walls, floors, or partitions, together with finish painting of entrance doors and frames, if required.
	* Provision of entrance or ladder for pit access
	* Supply and installation of fascia plate.
	* Installation of emergency exits and electric wiring in blind sections of hoistway where required.
	* The tolerance of emergency exits and electric wiring in build sections of hoistway where required.
	* The tolerance of perpendicular line over the whole hoistway height must not exceed ±30mm.
Machine Room	* A waterproof outlet and light fixture in the elevator pit area with the light switch being local ted adjacent to the access door or ladder.
	* Suitable light fixture and convenience outlet in the pit with a light switch adjacent to the access door or ladder. The receptacles shall have protection for ground
	* Provision of wiring between controller and building management system.
	* A construction hoisting beam or hook, if required, with the correct location and size as deter mined by the elevator contractor for each hoistway.
	* Noise insulation should be installed between machine room and adjacent residential area.
The others matters	* A suitable machine room with legal access, ventilation and concrete floor. The temperature in the machine room should be maintained between 5℃ and 40℃ Relative humidity should not exceed 90% (monthly) and 95% (daily) non-condensing. Ventilation fan or air conditioner should be provided as per heat dissipation by the elevator contractor.
	* The size of entrance shall be min. 1000mm(w) X 2000mm(H).
	* Installation of lead-in wire and earth wire between building main power board and machine room incoming distribution board. However, machine room lighting source supply shall be installed separately.
	* Provision of suitable light fixture and convenience outlets in the machine room.
	* Wiring and piping between each machine room and monitoring system.
	* Machine room and hoistway shall be free of dust or harmful gas.
	* All electric power for lighting, tools, welding, etc during installation.
	* All single phase receptacles installed in machine room, pit and machinery spaces shall have ground fault circuit interrupter protection.
	* Fire detector for fire emergency operation.
	* A secured area for storage of elevator equipment and materials during installation.