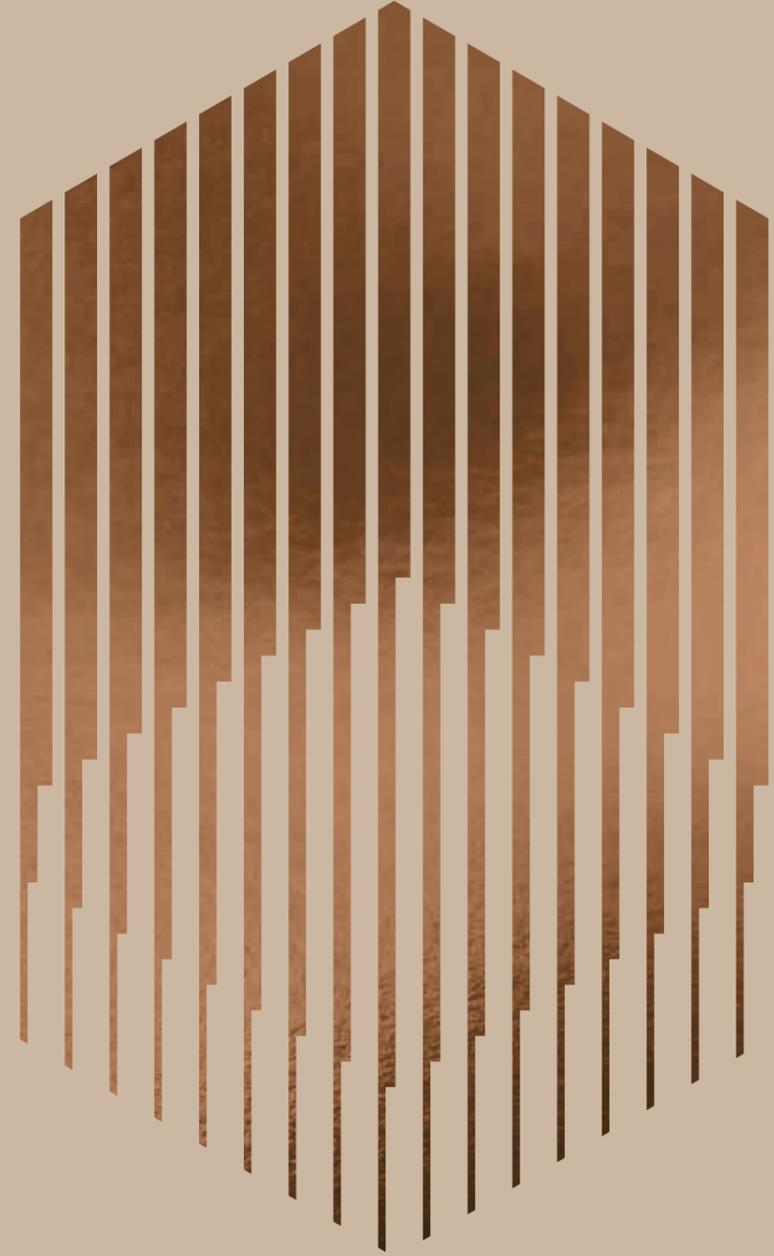


H300



 **HYUNDAI ELEVATOR**

HYUNDAI ELEVATOR H300



H300


HYUNDAI
ELEVATOR CO., LTD.

 **HYUNDAI ELEVATOR**

H300 C-HTH-E0107/2019.05

Elevate Your Thinking

H300

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Our Strengths / Signature Projects

08 **Why H300**
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Smart technology and state-of-the-art safety systems are changing the way that people think about elevators. Green technology is being applied to protect the global environment and to ensure the Earth's future. H300 will provide a new level of experience that will elevate your expectations about elevators.



H300

Elevate Your Thinking

H300

H300

Hyundai Elevator has been providing the fastest, safest and most convenient mobility solutions based on continuous technological development and unique products that keep abreast with rapidly evolving urban architecture. Now, its high-speed H300 elevators will add value to high-rise buildings with a greater level of sophistication, efficiency and environmental friendliness.

Our Strengths

We have outstanding competitiveness in diverse areas ranging from technology and production facilities to networks.

Advanced Technology

World-Class Elevator Technology

Hyundai Elevator has the world's most advanced high-speed elevator technology. It built the Hyundai Asan Tower in April 2009 to thoroughly evaluate and validate the safety and reliability of its products under conditions that closely replicate those of a high-rise building.

The EL 1080 High-Speed Elevator

World-class elevator (1,080 m/min.)

The EL DUO Double-Deck Elevator

1.8 times more loading capacity through 2 vertically integrated elevators

Global Operations and Sales Network

Production System and Sales Network that Spans Across Borders

In addition to state-of-the-art production facilities in Korea, Hyundai Elevator built manufacturing facilities in China to supply its unparalleled products worldwide. The company strives to better meet the needs of global customers through localization and by maximizing synergy among its 6 overseas subsidiaries and 45 sales networks.

OVERSEAS BRANCHES

CHINA	SHANGHAI HYUNDAI ELEVATOR CO., LTD.
INDONESIA	PT. HYUNDAI ELEVATOR INDONESIA
MALAYSIA	HYUNDAI ELEVATOR (MALAYSIA) SDN. BHD
BRAZIL	HYUNDAI ELEVADORES DO BRASIL LTDA.
VIETNAM	HYUNDAI THANH CONG ELEVATOR VIETNAM CO., LIMITED
TURKEY	HYUNDAI ELEVATOR ASANSOR VE SERVIS SANI VE TIC. A.S.



Manufacturing Plants

Icheon Headquarters (Icheon, Korea)

- [Factories 1, 2, 3] 46,484 m² state-of-the-art facilities
- Production of elevators, parking systems, etc.
- Hyundai Asan Tower
- Hyundai Customer Care Center (CCC)

China Factory (Shanghai, China)

- 28,716 m² state-of-the-art facilities
- Production of elevators and escalators
- Elevator test tower (72 m high)

New China Factory (Shanghai, China)

Under Construction

- 123,564 m² state-of-the-art facilities
- Production of elevators and escalators (annual capacity max. 25,000 units)
- Elevator test tower (185 m in total height, 175 m above ground)



Icheon Headquarters (Icheon, Korea)



China Factory (Shanghai, China)



New China Factory (Shanghai, China) - Under Construction

Signature Projects

A rich portfolio of projects around the world demonstrates the added value that Hyundai Elevator can give.

1 BUSAN INTERNATIONAL FINANCE CENTER (KOREA)
Installed 32 elevators, including two 10 m/s units (Korea's fastest), three 9 m/s units, and eight 8 m/s units, as well as 14 escalators

2 PARK HYATT BUSAN (KOREA)
Installed 11 elevators, including two 6 m/s units and three 4 m/s units

3 GALLERY WEST (INDONESIA)
Installed twenty three 4 m/s elevators, 12 escalators

4 F&F TOWER (PANAMA)
Installed five 4 m/s elevators

5 VARYAP MERIDIAN (TURKEY)
Installed 53 elevators, including seven 4 m/s units and five 3.5 m/s units

6 SEOUL DRAGON CITY (KOREA)
Installed 33 elevators, including twenty three 4 m/s units and four 3.5 m/s units, as well as 10 escalators

7 LG U+ YONGSAN OFFICE BUILDING (KOREA)
Installed 10 elevators, including 3.5 m/s double deck units (Korea's first) and four 4 m/s units, as well as 2 escalators

8 KL GATEWAY (MALAYSIA)
Installed 27 elevators, including eight 3.5 m/s, 49 escalators

9 YANGON HOTEL (MYANMAR)
Installed 20 elevators, including five 3 m/s units, two 2.5 m/s units, and six 2 m/s units

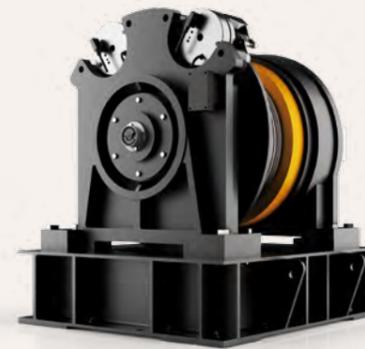


Smart Technology

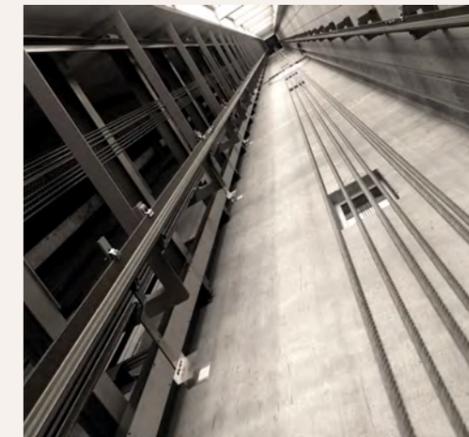
H300 optimizes performance and efficiency while maximizing space utilization to provide the ultimate ride and user convenience. Enjoy Hyundai Elevator's differentiated, cutting-edge high-speed elevator technology with H300.

First-Class Ride Comfort

H300's permanent magnet gearless traction machine engages gears without vibration and dampens rope vibration, delivering a smooth and comfortable first-class ride. It consumes up to 25% less energy versus induction motors.



◀ H300's permanent magnet gearless traction machine spearheads the development of Hyundai Elevator's cutting-edge technology



50%

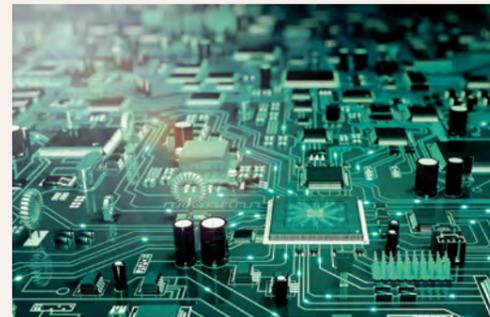
Smaller & Lighter
Traction Machine Size and Weight Reduction

Advanced Technology that Even Takes into Consideration Building Space Utilization

H300's traction machine can be installed in multiple arrangement. It is about 50% smaller and significantly lighter than conventional induction motors, improving buildings' space utilization.

Energy Saving Technology that Dramatically Reduces Power Consumption

Equipped with a regenerative inverter that comes standard, H300 recycles energy that is generated while operating the elevator to improve energy efficiency by more than 77.5%. Moreover, its next-generation smart control system furnishes quick and precise speed control technology to deliver exceptional ride comfort and its LED interior lighting consumes 30% less energy than previous models to reduce operational costs.



▲ The key to eco-friendly systems, the regenerative inverter recycles energy.

77.5%

 ↓↓↓

Energy Efficiency

Recycling of power generated during operation improves energy efficiency by over 77.5%



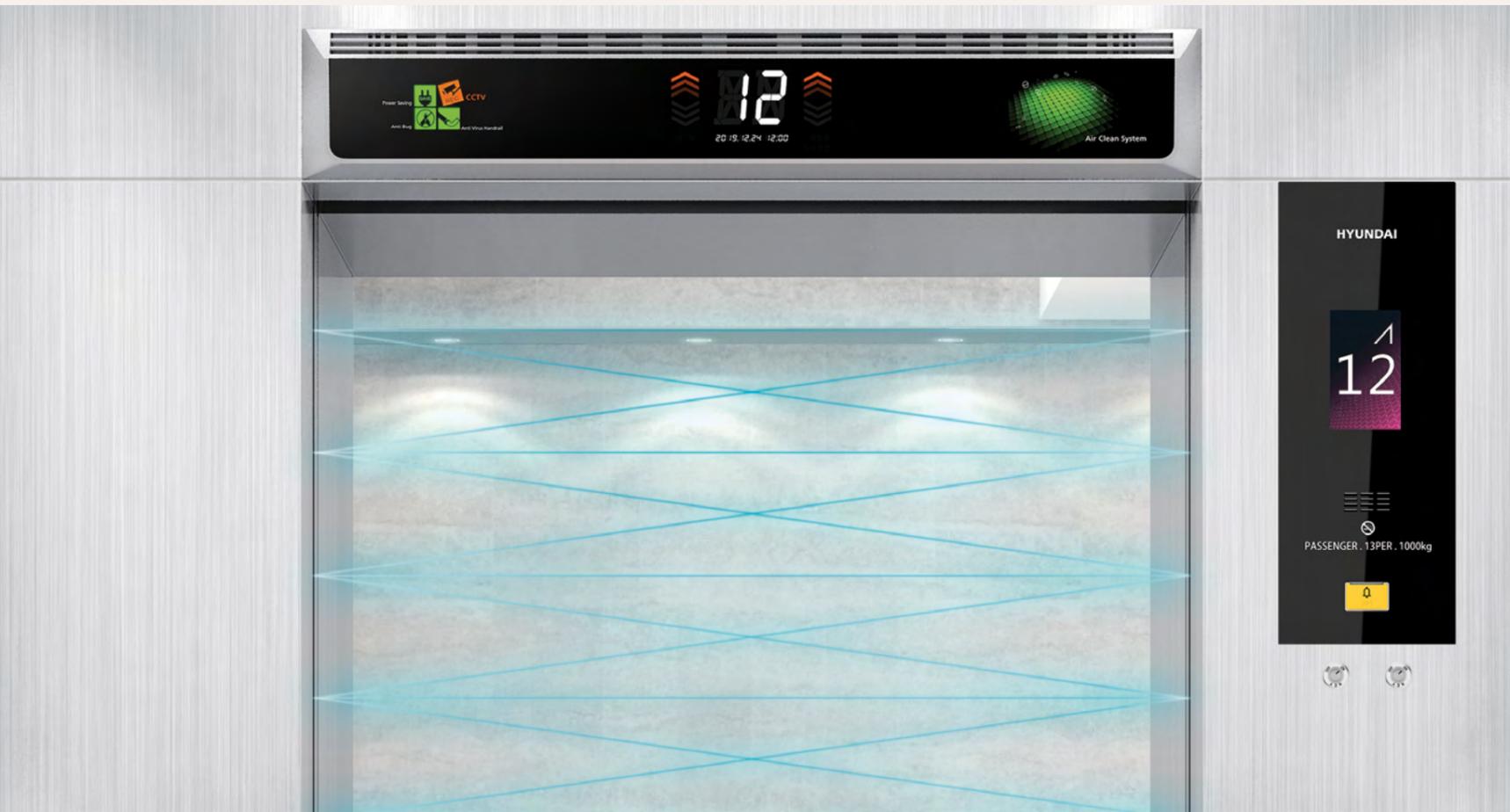
▲ Destination Selecting System

Green Process: Environmentally Friendly Development and Production

Hyundai Elevator is in the forefront of environmentally friendly technology by developing and applying designs, processes and materials that reduce environmental pollution to build its eco-friendly elevators and by continuously improving development and production processes to reduce material waste. It meets the demands of customers for a healthy and clean lifestyle.

Green Technology

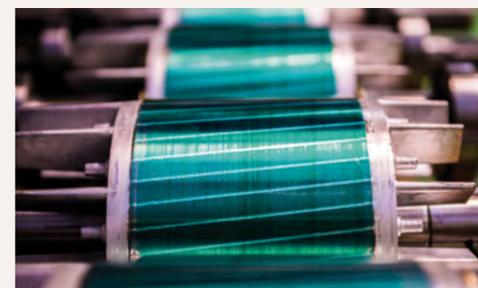
H300 further enhances eco-friendly buildings by minimizing carbon emissions from the design stage and dramatically reducing power consumption with energy-saving technologies.



▲ Multi-Beam Door Safety Devices

Safety Technology

Passenger safety is H300's top priority. H300's preempts unforeseeable operational failures by offering the most advanced safety systems, such as smart control, multi-beam door safety devices, forcible door-opening prevention and dual brakes as standard.



Multi-Beam Door Safety Device & Car Door Locking Device

H300 comes equipped with a multi-beam sensor that detects movement precisely and opens doors automatically to protect passengers. In addition, it comes with a car door locking device, required by international standards, to prevent accidents caused when external factors lead the elevator to stop abnormally between floors and doors are forced open. The door safety device and car door locking device come standard in all H300 products to ensure customer safety.

▼ Certification

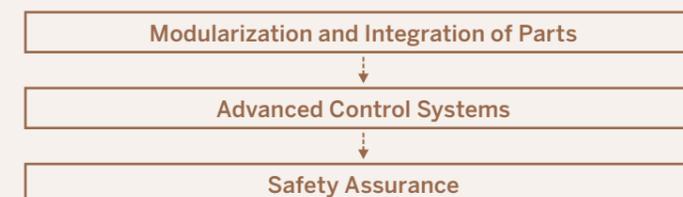


ISO9001 ISO14001 OHSAS18001 CE

Impeccable Next-Generation Smart Control System that Ensures Safety

H300's standard Advanced Control System integrates inverter parts in a single module. The Smart Control System, featuring advanced control technology and a self-diagnosis system, easily monitors the elevator's operation and prevents malfunctions for world-class safety.

World-Class Safety





Cage & Fixtures Design

H300 not only provides an exceptional ride and energy cost savings,
it offers a variety of design options to meet diverse building specifications.
It will deliver outstanding value and satisfaction, surpassing all expectations.

Cage Design

HY-1931 / HY-1811 / HY-1812 / SLD-03 / SLD-04

Fixtures Design

Car Operating Panels / Buttons / Hall Buttons / Indicators /
Hall Lanterns / User Interfaces / Ceilings

Standard Cage Design

HY-1931

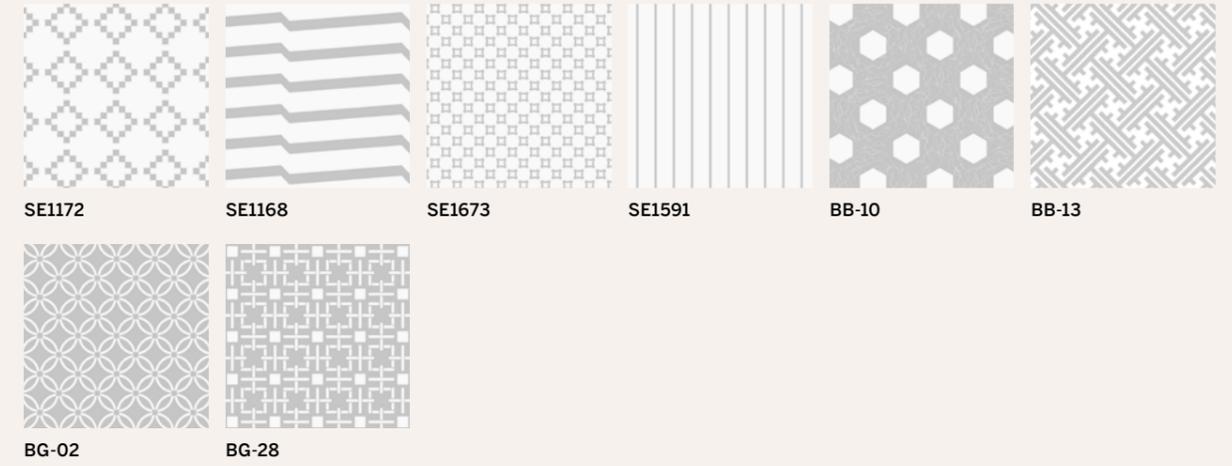
CAGE DESIGN

Ceiling	CD253A (LED) / Painted Steel (P024)
Car Wall Material	Stainless Hairline (1.5 mm) Stainless Mirror (1.5 mm)
Car Operating Panel	OPP-L582SW / Front Return Panel
Car Position Indicator	PI-L210
Flooring	Marble / FM-01



ETCHING PATTERN

* Etching patterns in this catalog are 1/3 of the actual size. * Relief / Engraving of etched parts



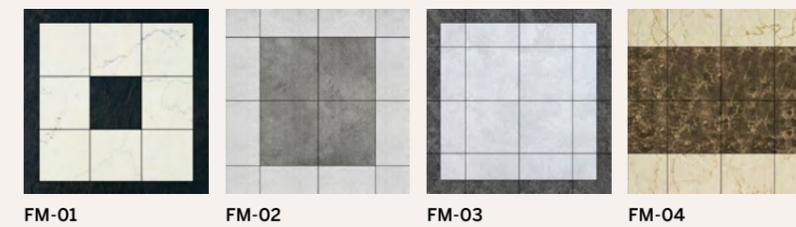
COLOR-COATED STAINLESS STEEL



EMBOSSED STAINLESS STEEL



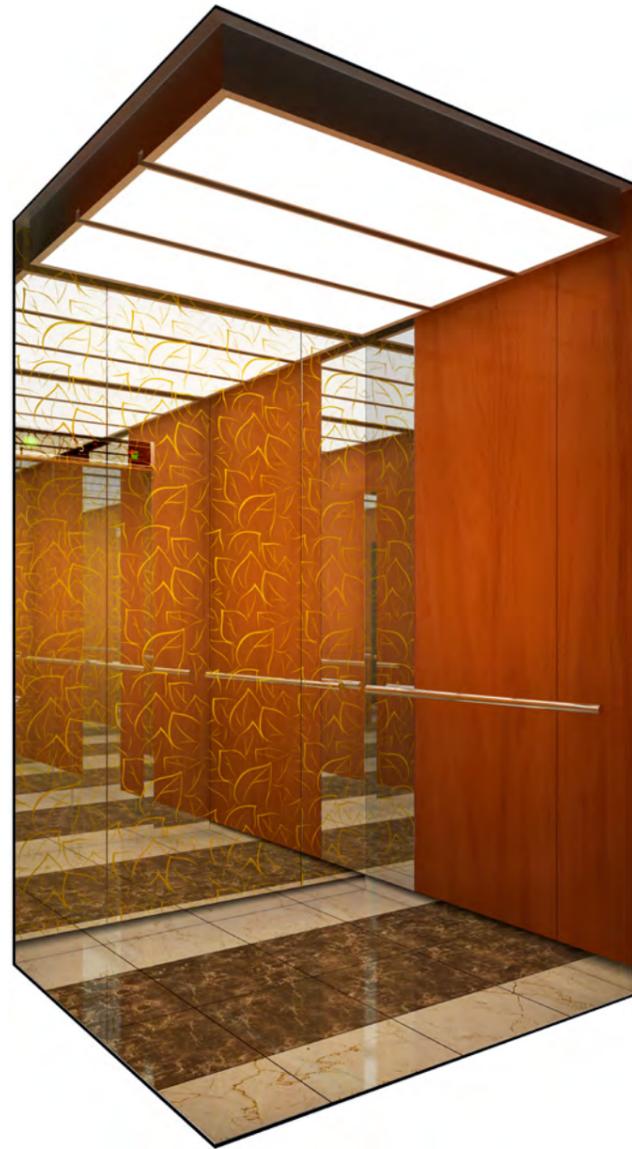
FLOOR FINISH: PATTERN MARBLE



HY-1811

CAGE DESIGN

Ceiling	CD219A / Painted Steel (P022)
Side Wall	Color Coated Steel (CW-01) / STS Mirror
Rear Wall	Partial Ti-Gold Mirror Etching (SD-01)
Front Wall	STS Mirror
Car Door	STS Mirror
Handrail	STS Hairline 1 Pipe (1R)
COP	OPP-D521SW / Front Return Panel
CPI	PI-L210
Flooring	Marble / FM-04 (By Local)



HY-1812

CAGE DESIGN

Ceiling	CD451B / Painted Steel (P022)
Side Wall	Embossed Steel (YW-01)
Rear Wall	Partial Ti-Gold Mirror Etching (SD-02)
Front Wall	STS Mirror
Car Door	STS Mirror
Handrail	STS Hairline 1 Pipe (1R)
COP	OPP-LT264SW / SUB OPB
CPI	PI-L210
Flooring	Marble (By Local)



ENTRANCE

200U Type

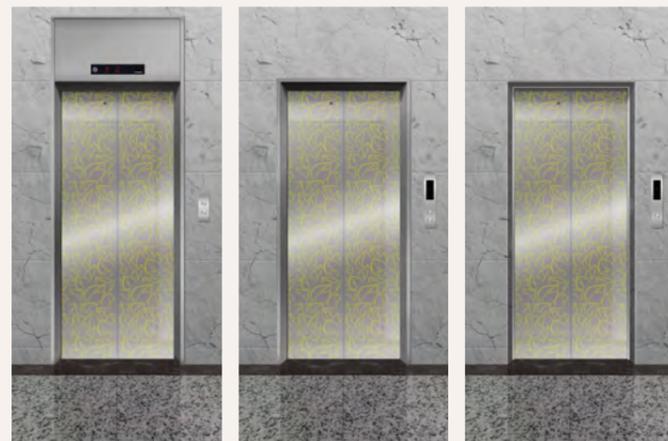
Jamb	STS Hairline / 200U Type
Transom Panel	STS Hairline
Door	Partial Ti-Gold Mirror Etching (SD-01)
Hall Button	HPB-221C / STS Hairline
CPI	PI-D110

100 Type

Jamb	STS Hairline / 100 Type
Door	Partial Ti-Gold Mirror Etching (SD-01)
Hall Button	HIP-D221C / STS Hairline

50 Type

Jamb	STS Hairline / 50 Type
Door	Partial Ti-Gold Mirror Etching (SD-01)
Hall Button	HIP-D221C / STS Hairline



200U Type

100 Type

50 Type

▲ Notes: 1. Colors printed in this catalog may appear different from actual colors.
2. In smaller or lower capacity cars, walls may be divided into 2 panels.
3. If the front wall is narrow, the COP may need to be installed on the side wall.

ENTRANCE

200U Type

Jamb	STS Hairline / 200U Type
Transom Panel	STS Hairline
Door	Partial Ti-Gold Mirror Etching (SD-02)
Hall Button	HPB-221C / STS Hairline
CPI	PI-D110

100 Type

Jamb	STS Hairline / 100 Type
Door	Partial Ti-Gold Mirror Etching (SD-02)
Hall Button	HIP-D221C / STS Hairline

50 Type

Jamb	STS Hairline / 50 Type
Door	Partial Ti-Gold Mirror Etching (SD-02)
Hall Button	HIP-D221C / STS Hairline



200U Type

100 Type

50 Type

▲ Notes: 1. Colors printed in this catalog may appear different from actual colors.
2. In smaller or lower capacity cars, walls may be divided into 2 panels.
3. If the front wall is narrow, the COP may need to be installed on the side wall.

SLD-03

CAGE DESIGN

Ceiling	CD253A / Painted Steel (P022)
Side Wall	Ti-Black STS Hairline / STS Mirror Trim
Rear Wall	Ti-Black STS Hairline / Ti-Black Mirror / STS Mirror Trim
Front Wall	Ti-Black STS Hairline
Car Door	Ti-Black STS Hairline
COP	OPP-L564SW / Front Return Panel / Ti-Black STS Hairline
CPI	PI-L210
Flooring	PVC / FH-09, Marble (By Local)



SLD-04

CAGE DESIGN

Ceiling	CD245AS / Ti-Gold STS Hairline
Side Wall	Ti-Gold STS Hairline / STS Mirror Etching (SE1673) / STS Mirror Trim
Rear Wall	Ti-Gold STS Hairline / Ti-Gold Hairline Etching (SE1673) / STS Mirror Trim
Front Wall	Ti-Gold STS Hairline
Transom Panel	Ti-Gold STS Mirror
Car Door	Ti-Gold Mirror Etching (SE1673)
Handrail	HR-01A / Ti-Gold STS Hairline
COP	OPP-D521SW / Front Return Panel / Ti-Gold STS Hairline
CPI	PI-L210
Flooring	PVC / FH-12, Marble (By Local)



ENTRANCE

200U Type

Jamb	Ti-Black STS Hairline / 200U Type
Transom Panel	Ti-Black STS Hairline
Door	Ti-Black STS Hairline
Hall Button	HPB-A64
CPI	PI-D700

100 Type

Jamb	Ti-Black STS Hairline / 100 Type
Door	Ti-Black STS Hairline
Hall Button	HIP-DA64

50 Type

Jamb	Ti-Black STS Hairline / 50 Type
Door	Ti-Black STS Hairline
Hall Button	HIP-DA64



200U Type

100 Type

50 Type

▲ Notes: 1. Colors printed in this catalog may appear different from actual colors.
2. In smaller or lower capacity cars, walls may be divided into 2 panels.
3. If the front wall is narrow, the COP may need to be installed on the side wall.

ENTRANCE

200U Type

Jamb	Ti-Gold STS Hairline / 200U Type
Transom Panel	Ti-Gold STS Hairline
Door	Ti-Gold Hairline Etching (SE1673)
Hall Button	HPB-A64
CPI	PI-D800

100 Type

Jamb	Ti-Gold STS Hairline / 100 Type
Door	Ti-Gold Hairline Etching (SE1673)
Hall Button	HIP-DA64

50 Type

Jamb	Ti-Gold STS Hairline / 50 Type
Door	Ti-Gold Hairline Etching (SE1673)
Hall Button	HIP-DA64



200U Type

100 Type

50 Type

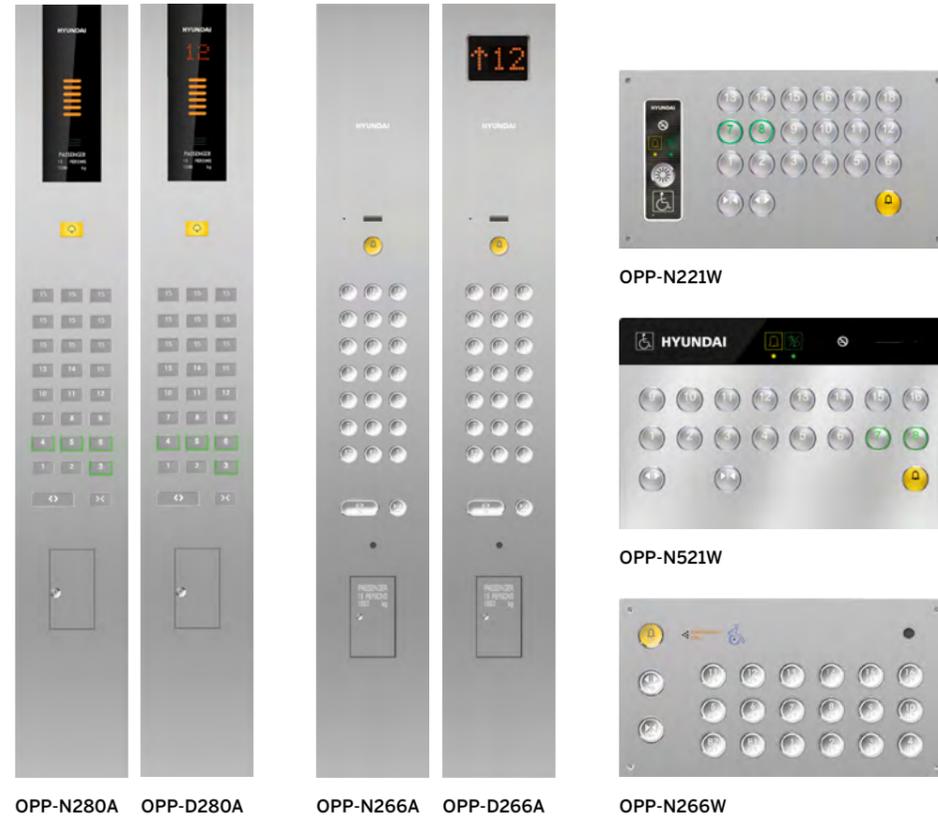
▲ Notes: 1. Colors printed in this catalog may appear different from actual colors.
2. In smaller or lower capacity cars, walls may be divided into 2 panels.
3. If the front wall is narrow, the COP may need to be installed on the side wall.

Fixtures Design

Car Operating Panels

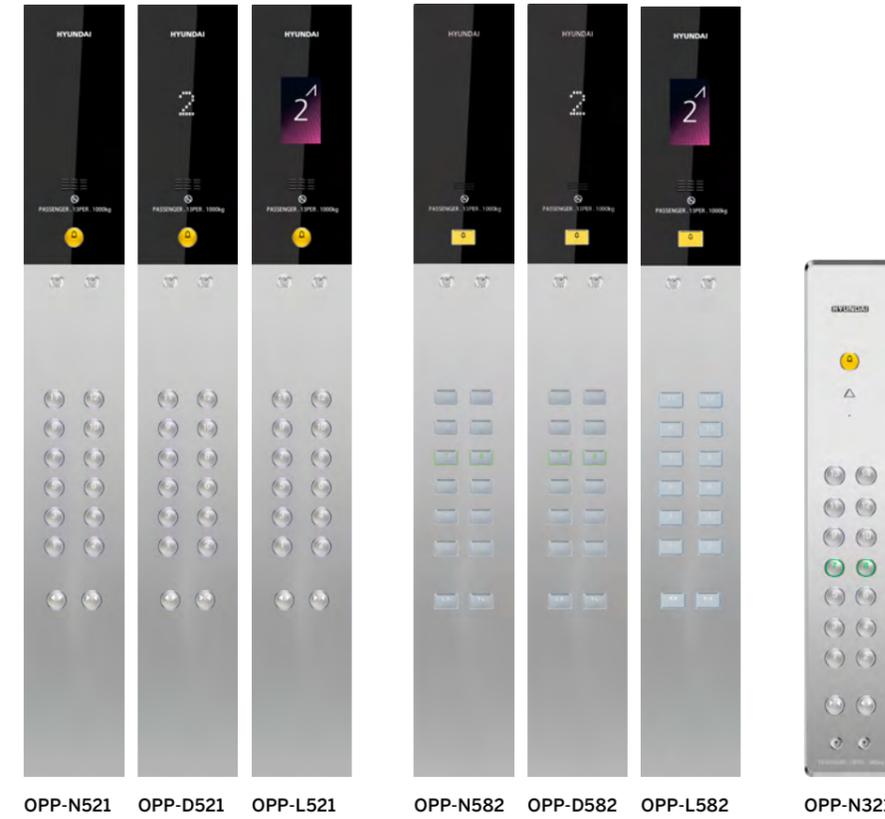
DELUXE

D: DOT TYPE / L: LCD TYPE



STANDARD

D: DOT TYPE / L: LCD TYPE



Buttons

DELUXE

*The surface of 66 type buttons is convex. 80 type buttons are applicable to NON-CODE only



STANDARD

*The surface of 21 type buttons is concave. The surface of 64 buttons is convex. 82 type buttons are applicable to NON-CODE only



Hall Buttons

DELUXE

D: DOT TYPE / L: LCD TYPE

Box Type



HIP-LT264C HIP-LT264CW

Boxless Type



HIP-LC21 HIP-LC21W

STANDARD

D: DOT TYPE / L: LCD TYPE

Box Type



HPB-264C / HIP-D264C

Boxless Type



HPB-B64

HIP-DB64

HPB-A21 / HIP-DA21



HPB-621 / HIP-D621



HPB-821 / HIP-D821



HIP-DA64W

Indicators

DELUXE

D: DOT TYPE / L: LCD TYPE

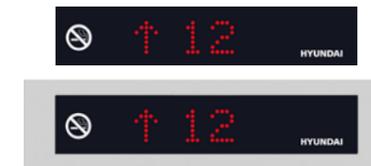
Box Type



PI-L210
Applicable to center open only
(JJ=700, 800, 900, 1000,
1100, 1200)
*For the inside of the car only.

STANDARD

Box Type



PI-D110 / PI-D310



PI-D800

Boxless Type



PI-D700



PI-L700 (Korea)



PI-D600 / PI-D610

Hall Lanterns

Box Type



HLS-640

HLS-770

Boxless Type



HLS-790

User Interfaces

DSS

LCD Type



HTS-A02
224x373x62



HTS-B01
372x216x67

Ten Key Type



HTK-B03
133x306x44



HTK-B05
For the handicapped
290x220x37

Kiosk Type



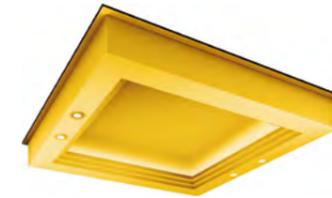
HTS-K01
195x1280x150

Ceilings

DELUXE



CD399A
CA≥1100, CB≥850, Without safety window
CA≥1100, CB≥1200, With safety window



CD245AS
CA≥1200, CB≥1050



CD253A
1200≤CA≤3300, 850≤CB≤3300

STANDARD



CD191A
Without safety window 1100 ≤CA≤1600,
1100 ≤CB≤1500



CD198A
CA≥1100&CB≥1000, Without safety window



CD199A
Without safety window CA≥1100, CB≥850
With safety window CA≥1100, CB≥1100



CD199B
Without safety window CA≥1000, CB≥850



CD219A
1200≤CA≤3300, 850≤CB≤3300



CD451B
Without safety window

* Colors printed in this catalog may appear different from actual colors.
* Cars without a safety window cannot be used as emergency elevators.

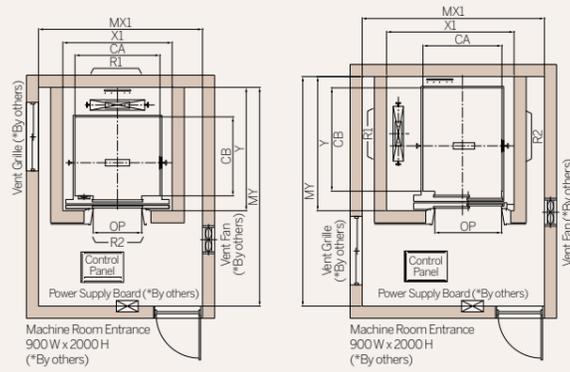


Specifications

Installation Layout Plan
Standard Dimensions
Entrance Layouts
Standard & Optional Features

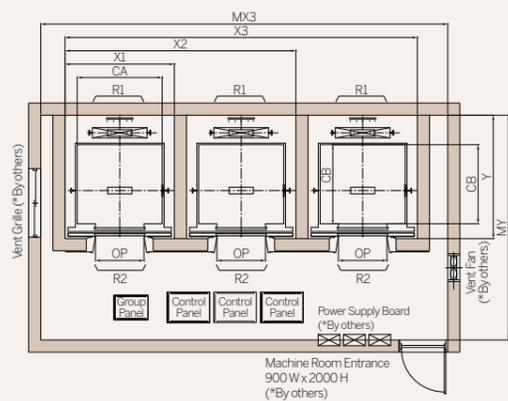
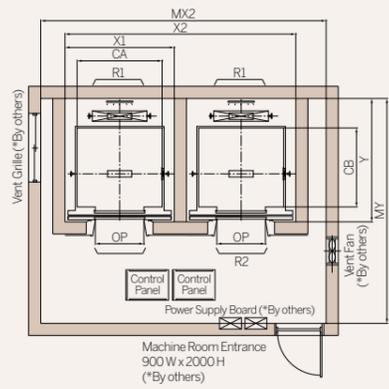
INSTALLATION LAYOUT PLAN

PLAN OF HOISTWAY & MACHINE ROOM

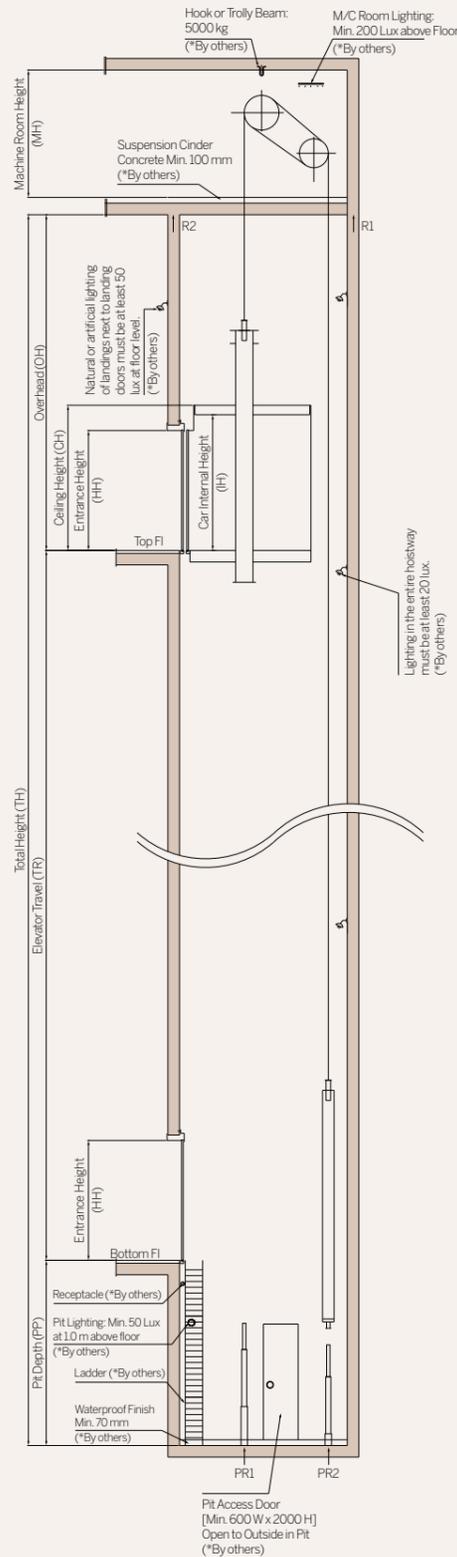


Center Opening

Side Opening



SECTION OF HOISTWAY



*By others: To be built by the building owner

STANDARD DIMENSIONS

MANUFACTURER STANDARDS

(Units: mm)

Capacity	Speed (m/sec.)	Opening Type	Door Width (mm)		Car Insize (mm)		Hoistway Size (mm)				Machine Room Size (mm)				M/C Room Reaction (kg)		Pit Reaction (kg)	
			OP	CA x CB	1X	2X	3X	x	Y	MX1	MX2	MX3	x	MY	R1	R2	PR1	PR2
13 (15)	1000	3.0	900	1600 x 1500	2300	4550	6900	x	2350	2800	5500	7900	x	4700	12810	6950	14600	12600
15 (17)	1150		1000	1800 x 1500	2500	4950	7500	x	2350	3000	6100	8800	x	4700	13080	7130	17200	14900
18 (20)	1350	3.0	1000	1800 x 1700	2500	4950	7500	x	2550	3000	6100	8900	x	5000	14360	7650	18800	16100
21 (24)	1600		1100	2000 x 1500	2700	5350	8100	x	2350	3200	6250	9100	x	4700	15090	8080	21000	17100
13 (15)	1000	ISCO	1100	2000 x 1750	2700	5350	8100	x	2600	3200	6250	9100	x	5000	15090	8080	21000	17100
15 (17)	1150		1100	2150 x 1600	2850	5650	8550	x	2450	3400	6500	9400	x	4800	15090	8080	21000	17100
13 (15)	1000	3.5 ~ 4.0	900	1600 x 1500	2300	4600	6950	x	2350	2800	5600	8200	x	4900	12810	7800	14600	12600
15 (17)	1150		1000	1800 x 1500	2500	5000	7550	x	2350	3000	6100	8900	x	4900	14100	8000	17200	14900
18 (20)	1350	3.5 ~ 4.0	1000	1800 x 1700	2500	5000	7550	x	2550	3000	6100	8800	x	5000	15100	8050	18800	16100
21 (24)	1600		1100	2000 x 1500	2700	5400	8150	x	2350	3200	6200	9000	x	5000	15100	8050	18800	16100
13 (15)	1000	ISCO	1100	2000 x 1750	2700	5400	8150	x	2600	3200	6400	9000	x	5000	15700	8100	21000	17100
15 (17)	1150		1100	2150 x 1600	2850	5700	8600	x	2450	3400	6500	9400	x	5000	15700	8100	21000	17100

Capacity	Speed (m/sec.)	Opening Type	Door Width (mm)		Car Insize (mm)		Hoistway Size (mm)			Machine Room Size (mm)			M/C Room Reaction (kg)		Pit Reaction (kg)	
			OP	CA x CB	1X	x	Y	MX1	x	Y	R1	R2	PR1	PR2		
13 (15)	1000	3.0	900	1100 x 2100	2100	x	2650	2650	x	5000	12810	6950	14600	12600		
15 (17)	1150		1000	1200 x 2100	2200	x	2650	2750	x	5000	13080	7130	17200	14900		
18 (20)	1350	2S-SO	1100	1300 x 2300	2300	x	2850	2850	x	5200	14360	7650	18800	16100		
21 (24)	1600		1200	1400 x 2400	2400	x	2950	2950	x	5300	15090	8080	21000	17100		
13 (15)	1000	3.5 ~ 4.0	900	1100 x 2100	2150	x	2650	2750	x	5000	12810	7800	14600	12600		
15 (17)	1150		1000	1200 x 2100	2250	x	2650	2850	x	5000	14100	8000	17200	14900		
18 (20)	1350	3.5 ~ 4.0	1100	1300 x 2300	2350	x	2850	2950	x	5200	15100	8050	18800	16100		
21 (24)	1600		1200	1400 x 2400	2450	x	2950	3050	x	5300	15700	8100	21000	17100		

- ▲ Notes:
- Dimensions are per Hyundai standard or EN81. For other countries' codes and specifications, please contact us.
 - () : Weight and passenger capacity ratings can vary by region. For the exact rating, please consult with us.
 - To install safety gear on the counterweight side, please contact us.
 - If installing a front and rear double door elevator, please consult with us.
 - For single shaft hoistways, please contact us to get the right specifications for preventing wind noise.
 - Hoistway dimensions (width and depth) assume a maximum horizontal slope of +0~50 mm across the entire length of the hoistway.

OVERHEAD & PIT DEPTH

(Units: mm)

Speed (m/sec.)	Overhead (OH)	Pit Depth (PP)	M/C Room Height (MH)
3.0	CH+3050	2700 ^{Note.3}	2500
3.5	CH+3300	3500	2800
4.0	CH+3650	4000	2800

*CH: (External) Car Height

- ▲ Notes:
- All dimensions are in compliance with N81-20.
 - OH indicates standard dimensions, which are the minimum values.
 - Values correspond to the use of compensation chains. Please consult with us if compensation ropes are used.
 - Machine room humidity and temperature must be kept below 90% and 40°C respectively using a fan and/or air conditioner if necessary.
 - If the height of a non-stop floor is over 11 m, please consult with us to assess the need to install an emergency exit.

POWER SUPPLY PLAN

(380 V)

Load (kg)	Speed (m/sec.)	Motor Capacity (kw)	MCCB Capacity of Building (A)		Power Supply Capacity (kVA)		Power Cable Size (mm ²)		Earth Wire Size (mm ²)	
			1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars
1000	3.0	18.4	100	150	38	76	35	50	25	25
	3.5	21.5	100	150	38	76	35	50	25	25
1150	4.0	24.5	100	150	38	76	35	50	25	25
	3.0	21.1	100	150	38	76	35	50	25	25
1350	3.5	26.7	100	150	38	76	35	50	25	25
	4.0	28.2	100	150	38	76	35	50	25	25
1600	3.0	24.8	100	150	38	76	35	50	25	25
	3.5	28.9	100	150	38	76	35	50	25	25
1600	4.0	33.0	125	200	56	120	50	70	25	35
	3.0	29.4	100	150	38	76	35	50	25	25
1600	3.5	34.3	125	200	56	120	50	70	25	35
	4.0	39.2	125	200	56	120	50	70	25	35

- ▲ Notes:
- Power feeder sizes are for electric wiring between an elevator machine room and transformer that are up to 50 m apart. For distances equal or above 50 m, apply the following formula:

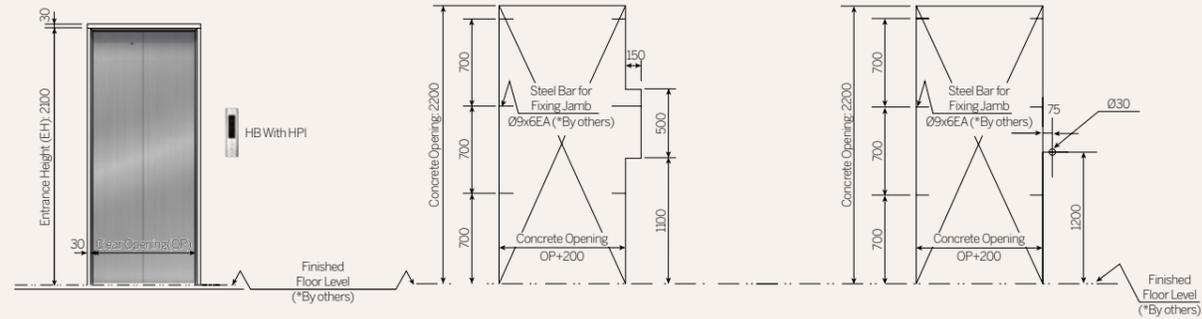
$$\text{Power feeder size (mm}^2\text{)} = \frac{\text{Cable length (m)}}{50} \times \text{Corresponding dimension above (mm}^2\text{)}$$
 - Power cable sizes are for copper wires inside electro-metallic tubing.
 - We recommend the use of larger diameter earth wires.
 - For power requirements for 3 cars or more, please consult with us.
 - Please contact us if 220 V electric power requirements are needed.

ENTRANCE LAYOUTS

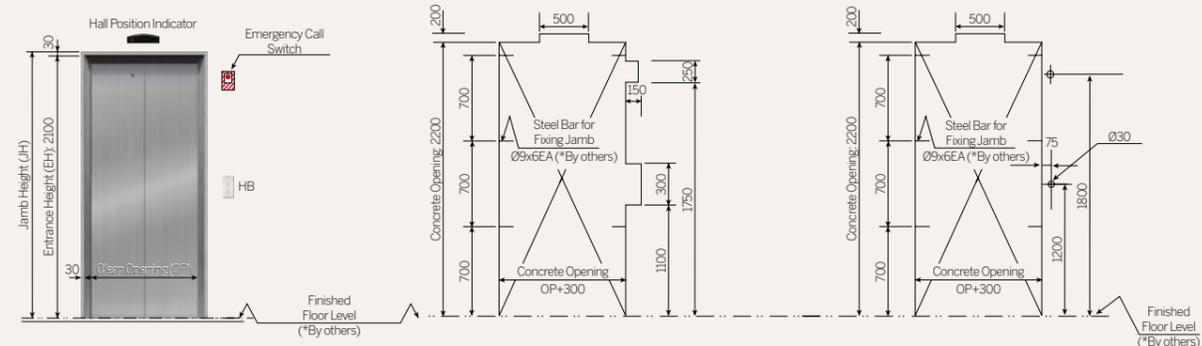
ENTRANCE

STRUCTURAL OPENING OF ENTRANCE

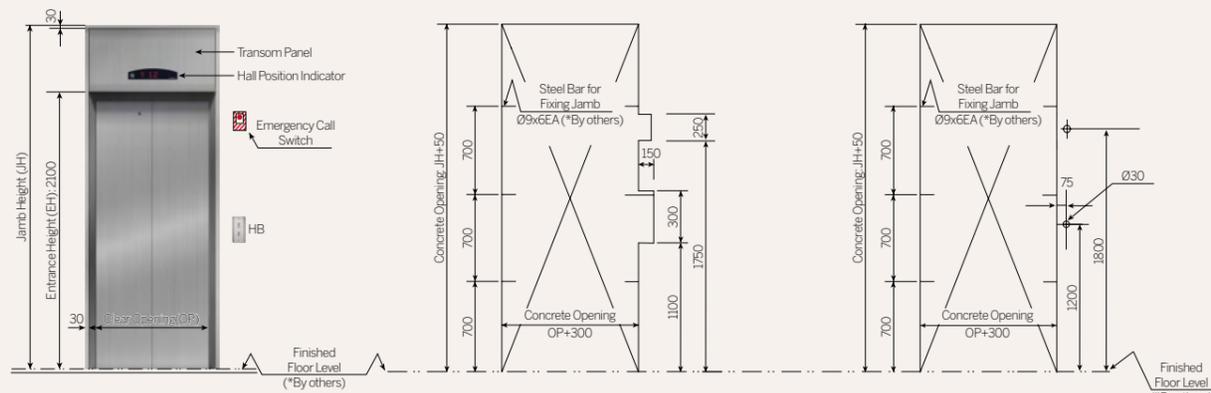
IN CASE OF BOXLESS TYPE



E050 Type (basic)



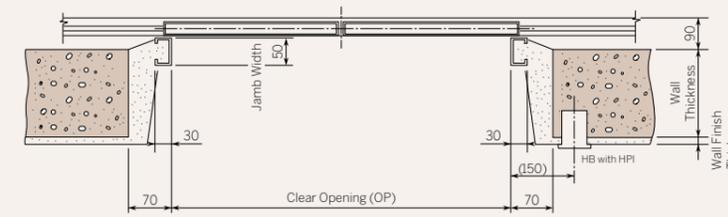
E100 Type (optional)



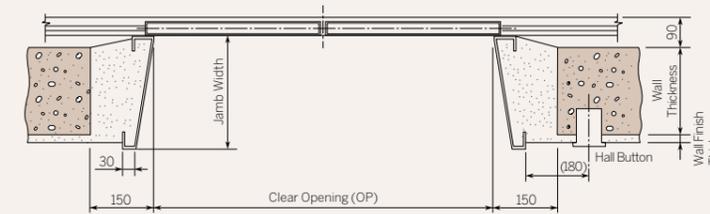
E200 Type (optional)

PLAN OF ENTRANCE

Building Structure (*By others) Wall and Floor Finishing (*By others)



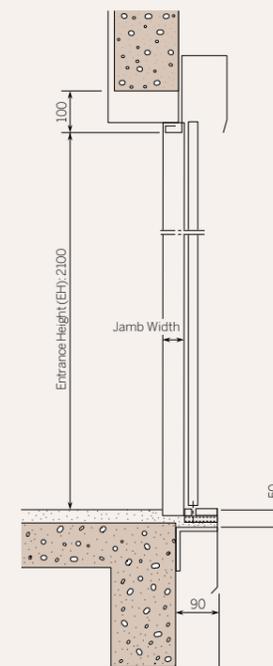
E050 Type



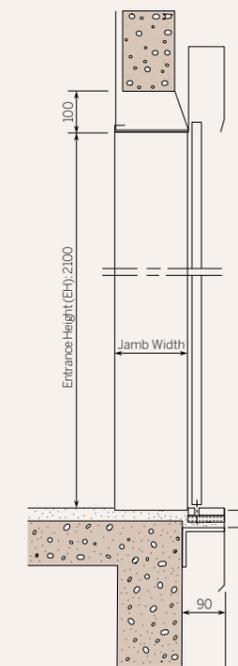
E100, E200 Type

SECTION OF ENTRANCE

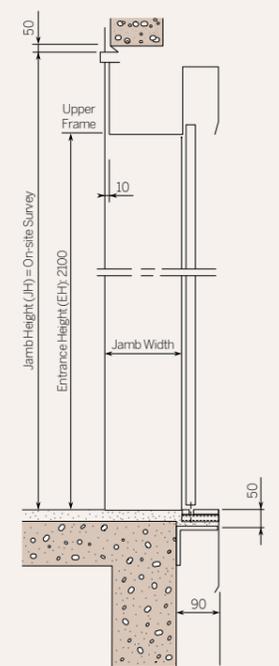
Building Structure (*By others) Wall and Floor Finishing (*By others)



E050 Type



E100 Type



E200 Type

*By others: To be built by the building owner

*By others: To be built by the building owner

STANDARD & OPTIONAL FEATURES

Feature	Description	Standard	Optional
Collective selective control	Automatically collects call signals and answers them systematically as the car moves in a given direction.	◆	
Slow self-rescue operation	If a car does not stop at a landing under normal operation, it will automatically move to the closest landing at a low speed and open the doors to allow passengers to exit.	◆	
Automatic door open	Elevator doors open automatically upon arriving at a landing.	◆	
Door open in the hall	Elevator doors open with a press of the hall button and close automatically after a given interval. They remain open as long as the hall button remains pressed.	◆	
Advance door close	Doors can be closed immediately by pressing the door closing button.	◆	
Door open by open button	Elevator doors can be opened, reopened, or kept open at a landing by pressing the opening button.	◆	
Repeated door open	If the elevator doors do not close completely, they will automatically re-open and close again. If the doors fail to close after a few attempts, repair personnel will be summoned.	◆	
Inspection operation	Once the inspection switch is engaged, the COP and indicator will display a "STOP" sign and stop taking calls. The car can be operated at inspection speed by pressing the up and down buttons.	◆	
Emergency car lighting	Emergency lighting in the car turns on automatically during power outages.	◆	
Five-way interphone	Calls can be made between the machine room, car, ceiling, pit and watch room to connect passengers with building personnel.	◆	
Attendant operation	Elevator operation can be changed from fully automatic service to manual service using a switch on the COP.	◆	
False call cancel	Passengers can press a floor button twice on the COP to cancel a call.	◆	
Reversal car call canceling	After the car finishes answering all the calls going in one direction, the system automatically resets and clears remaining calls going in the other direction.	◆	
Car arrival chime	A chime announces the arrival of the elevator to passengers.	◆	
Car light auto off	If no calls are registered within a given period of time, the car lights automatically shut off to conserve energy.	◆	
Car fan auto off	If no calls are registered within a given period of time, the car fan automatically shuts off to conserve energy.	◆	
Home landing	If no calls are registered with a given period of time, the elevator automatically returns to the home floor.	◆	
Hoistway data memory	The elevator records diverse hoistway data (height, safety switch position, etc.) and operational data permanently.	◆	
Flexible service floor setting	Floor display configurations can be set freely in the system. Base floor, lobby floor and non-stopping floors can be programmed flexibly.	◆	
Dot matrix display indication	Car position can be shown on dot matrix displays inside the car and on landings.	◆	
Automatic car position updating	Safety switch action points and landing switches on each floor update elevator position data.	◆	
Parking service	Elevator operation can be stopped or started with a switch.	◆	

Feature	Description	Standard	Optional
Fireman's emergency return	When the key switch on the main floor or the COP is activated, all calls are canceled, the car returns immediately to the main floor, and the doors are opened.	◆	
Light curtain door protection	A multiple infrared light curtain covers the full width and height of the doors to detect passengers or objects as the doors open or close.	◆	
Overload hold protection	When passenger load exceeds maximum capacity, a buzzer will ring, doors will remain open, and a LED display will indicate capacity overload.	◆	
Reverse operation protection	If the system detects that the elevator is moving in the opposite direction of a call for three seconds, it will stop the elevator and sound an alarm.	◆	
Skid protection	If the system detects that the wire rope has slipped, it will stop the elevator and sound an alarm.	◆	
Anti-slipping car protection	If the system detects a three second feedback pulse and a mutative signal when the elevator reaches a landing, it will immediately stop the car and sound an alarm.	◆	
Anti-terminal protection	A terminal stopping switch and final limit switches on the upper and lower ends of the elevator prevent the car from stopping past the limit.	◆	
Voice synthesizer	When the elevator arrives at a landing, a voice synthesizer announces the floor number and operational direction.	◆	
Full bypass	If a car operating under auto mode becomes fully loaded, it will only respond to calls made from the inside of the car and bypass calls made from the hallway.	◆	
Mechanical door protection	Mechanical door bumpers detect passengers or objects caught in the doors and reopens the doors immediately.		◆
Duplex control	Optimizes the operation of two elevators by dispatching the closest car to respond to a call.		◆
Group control	Optimizes the operation of a group of 3 to 6 cars by minimizing waiting time and saving energy.		◆
Auxiliary COP	An extra car operating panel installed in a large capacity elevator offers convenience to passengers as well as handicapped users.		◆
High crowd service	Under group control, specific floors can be given a higher priority and be serviced more frequently.		◆
ELD (Emergency Land Device) operation	In the event of a power outage, the car will move to the nearest floor using a rechargeable battery.		◆
CRT (Computer monitoring System)	A computer in a building's monitor room or other location monitors the signal status, fault state and operation of the elevator through the CAN.		◆
Hall lantern flash	Attractive indicator lights above the elevator doors on each landing inform waiting passengers which car will arrive first and the direction of the car. Lights flash to indicate the arrival of the car.		◆
Emergency fireman's service	When a preset key switch inside the car is engaged, all hall signals are cancelled and the car only responds to calls placed by a fireman from the inside of the car for fire-extinguishing purposes. This function must be used in conjunction with the fire elevator.		◆
Earthquake service	When the seismic sensor detects an earthquake, all cars stop at the nearest landing to prevent accidents.		◆
Emergency power operation	Service continuity can be ensured by automatically or manually designating a specific number of cars to operate with emergency power in line with the building's power supply.		◆

▲ **Notes:** For more information on CRT and Group control, please refer to our "H.Solution" brochure.

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