I·XEL

INNOVATIVE EXPRESS ELEVATORS

HYUNDAI

ELEVATOR CO., LTD.

I·XEL

INNOVATIVE EXPRESS ELEVATORS

Hyundai Elevator — Optimal solutions for urban vertical transport.
Hyundai Elevator has won worldwide recognition for its outstanding technology with the development of the world's fastest, 21 m/sec. elevators. The i·XEL high-speed elevator applies the company's know-how to deliver speed, safety and comfort that are optimized for high-rise buildings. It improves the convenience of using elevators and boosts the value of buildings.

I·XEL

INNOVATIVE EXPRESS ELEVATORS

LEAD WITH
HIGH PERFORMANCE

i·XEL
INNOVATIVE EXPRESS ELEVATORS

HIGH CLASS

HIGH QUALITY

HIGH EFFICIENCY

Hyundai Elevator uses its world-renowned technology to offer customized solutions that fulfill customers' elevator and construction needs. With elegant designs, a comfortable ride, dependable safety and space efficiency, i·XEL is the smartest elevator choice for urban high-rise buildings.

ADVANCED TECHNOLOGY

for HIGH CLASS

İ·XEL's differentiated solutions emanate from Hyundai Elevator's innovative, cutting-edge technology. İ·XEL offers customers optimal operating performance and building space efficiency while providing passengers with an exceptional ride that corresponds to a high caliber building.

Permanent magnet gearless hoists, Hyundai Elevator's core technology

İ·XEL's permanent magnet gearless hoist is free from vibration caused by the engagement of gears and rope vibration, offering a smooth and comfortable first-class ride.

Sophisticated high-end control systems

A high-precision control inverter drive system and a regenerative inverter optimize motor speed by continuously changing voltage and frequency at the same time. The refined comfort of rides and breakthrough power efficiency increase buildings' premium value.

Minimal machine room footprint

İ·XEL's traction machines are enabled for multiple arrangement and are 50% smaller and lighter than previous induction models, minimizing machine room space requirements and saving valuable space in high-rise buildings.

SAFETY TECHNOLOGY

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for HIGH QUALITY

i·XEL offers cutting-edge safety systems, such as a smart control system that prevents unforeseen operational failures, as standard to ensure the safety of its elevator systems, which are critical components of buildings.

Self-diagnosis system

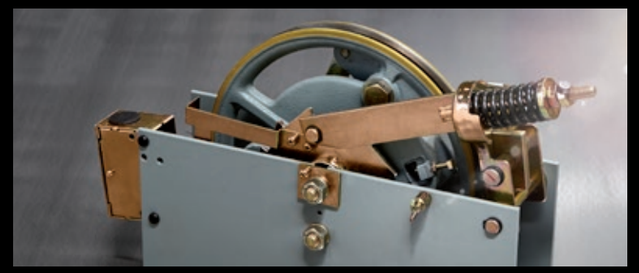
The smart control system that comes standard is equipped with an ultra-high speed microprocessor that controls speed with greater precision to improve reliability. A self-diagnosis system easily tracks the operation of elevators to prevent failures, guaranteeing passenger safety even in a high speed operational environment.

World-class safety design and dual brakes

i·XEL is designed to provide world-class, high-speed operational safety that meets EN81 European elevator design standards. Moreover, its dual brake system offers greater protection and capacity to manage diverse operational situations with an independent secondary brake that can be activated in the event of primary brake failure.

Door dislocation prevention system

Safety devices mounted on the top and bottom of doors minimize the risk of accidents caused by the dislocation of doors. Installed in all Hyundai Elevator products, including i·XEL, they demonstrate the company's commitment to promote safety.



GREEN TECHNOLOGY

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for HIGH EFFICIENCY

İ·XEL goes beyond providing functionality and efficiency to present eco-friendly solutions. It not only delivers outstanding energy efficiency that meets today's eco-friendly building requirements, but it also strives to minimize carbon emissions at every stage of production.

Regenerative inverter

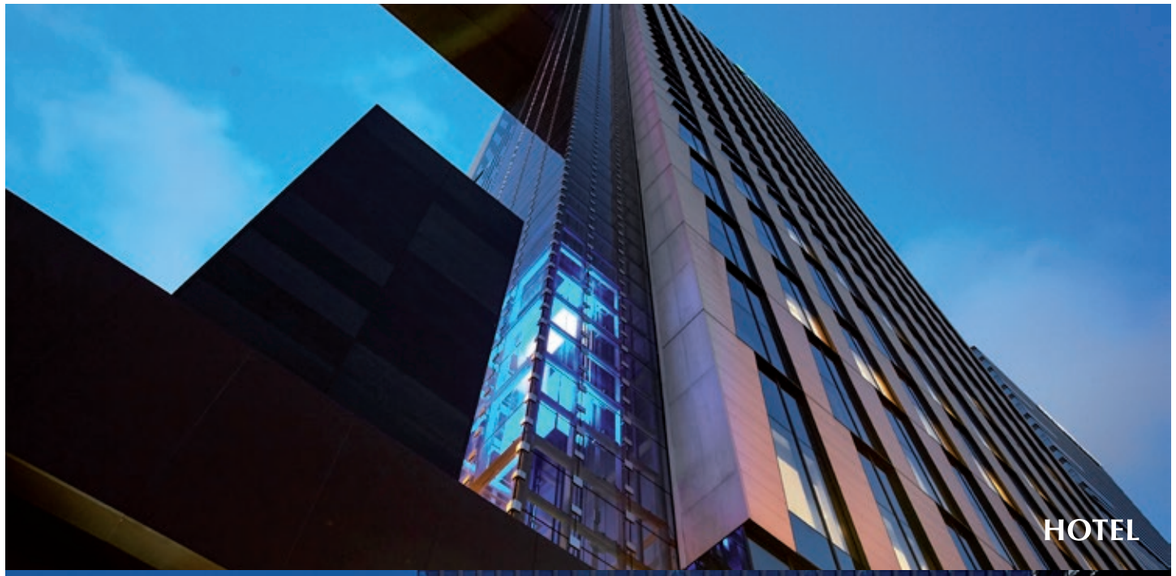
A power regenerating PWM inverter that recycles energy that is created while an elevator is running is installed in every İ·XEL product, improving energy efficiency by more than 77.5%. Germany's TÜV awarded class A energy efficiency certification to every major Hyundai Elevator high speed elevator model, including İ·XEL.

AI group control system and LED lighting

An advanced elevator operation system determines the most efficient means of operating the elevators in accordance to the use and characteristics of a building. In addition to minimizing elevator operating hours, it prevents unnecessary usage to deliver significant energy savings. Moreover, İ·XEL uses LED interior lighting that consumes about 30% less energy than conventional lighting.

Green manufacturing processes

Hyundai Elevator is producing eco-friendly elevators with designs and materials that reduce environmental pollution and by making multifaceted eco-friendly efforts that span across product development, manufacturing, installation, and disposal. These eco-friendly initiatives are not only in line with global green construction trends, but also help increase buildings' competitiveness.


HOTEL

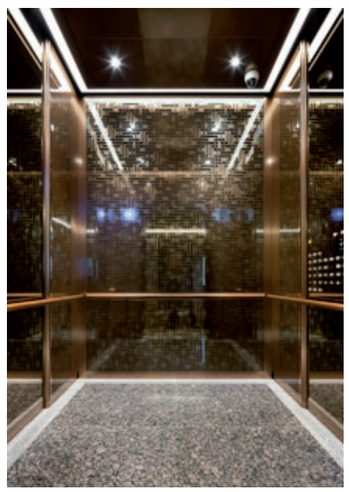

OFFICE


RESIDENCE

HOTEL

i·XEL is responsible for the efficient transportation of guests at Seoul Dragon City, Asia's largest and Korea's first hotel-plex, as well as the elegant elevator spaces at the D-Cube City Hotel pertaining to the global Sheraton hotel group.

Sheraton Seoul D Cube City Hotel Thirty-seven elevators were installed, including three 4 m/s units and fifteen 3.5 m/s units.

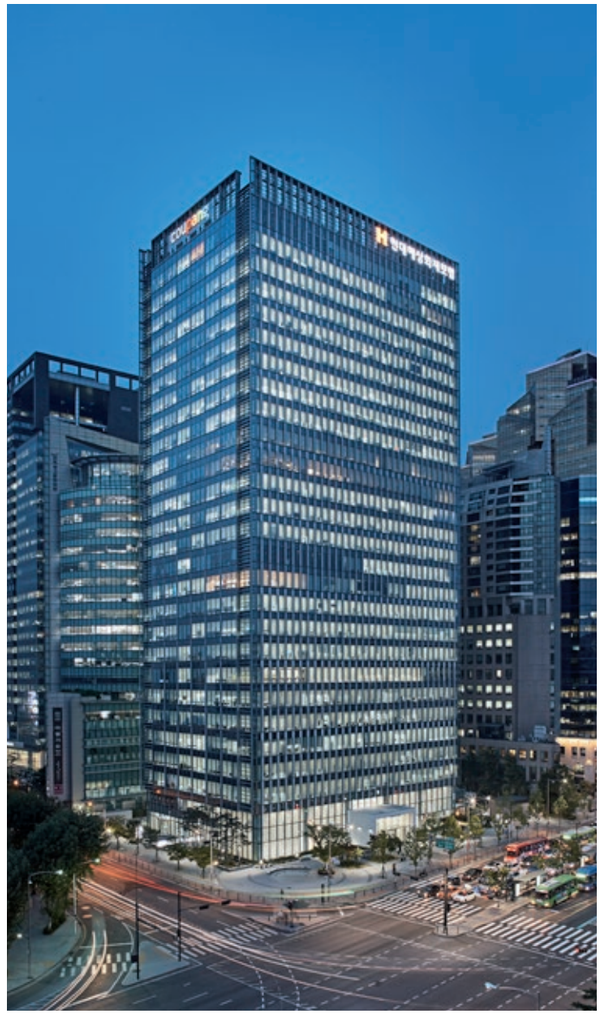


Seoul Dragon City Thirty-six elevators were installed, including twenty-three 4 m/s units and four 3.5 m/s units, as well as ten escalators.

OFFICE

i·XEL's smooth and comfortable ride can be experienced at the 27-story Jamsil Tower 730,
home of diverse businesses, venture companies, and a shopping arcade,
as well as the 36-story East Central Tower office building.

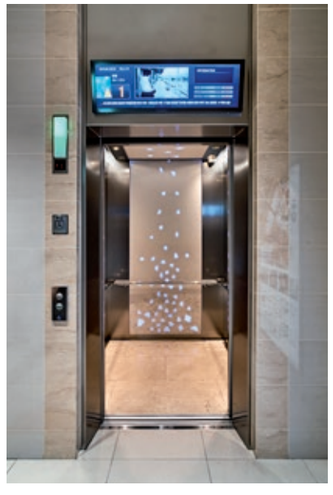
East Central Tower Eighteen elevators were installed, including thirteen 4 m/s units, as well as five escalators.



Tower 730 Eighteen elevators were installed, including twelve 3 m/s units, as well as two escalators.

RESIDENCE

Hyundai Elevator's İ·XEL has demonstrated its value through outstanding efficiency at Busan's new 59-story landmark, The W, a multi-family apartment complex located in Yonghoman, as well as Y-CITY, a high-rise multi-family apartment complex in Ilsan.

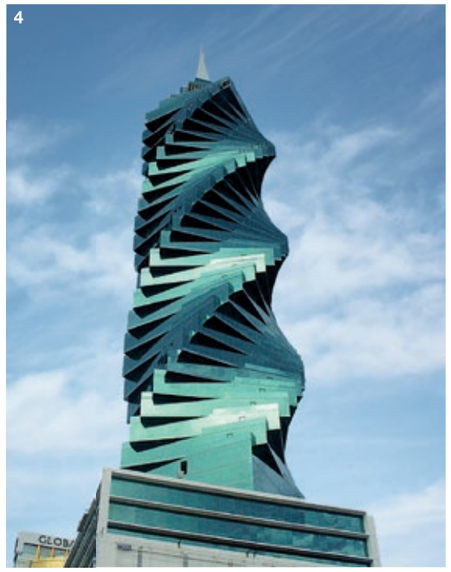


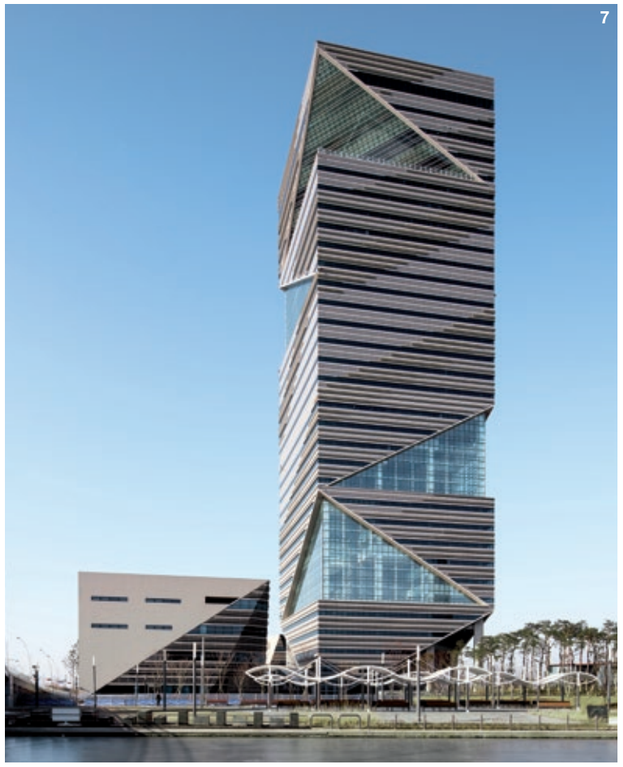
Busan Yonghoman The W Fifty-one elevators were installed, including twenty 4 m/s units, as well as twenty-eight escalators.

Il-san Y–CITY Sixty-six elevators were installed, including twenty-four 4 m/s units and six 3.5 m/s units, as well as twenty escalators.

MAJOR PROJECTS

İ·XEL's unique, cutting-edge high-speed elevator technology has proven its quality through various landmark buildings in Korea and overseas.





1. **Busan International Finance Center (Korea)** Thirty-two elevators were installed, including two 10 m/s units (Korea's fastest), three 9 m/s units, and eight 8 m/s units, as well as fourteen escalators.
2. **Park Hyatt Busan (Korea)** Eleven elevators were installed, including two 6 m/s units and three 4 m/s units.
3. **Gallery West (Indonesia)** Twenty-three 4 m/s elevators were installed, as well as twelve escalators.
4. **F&F Tower (Panama)** Five 4 m/s elevators were installed.
5. **Varyap Meridian (Turkey)** Fifty-three elevators were installed, including seven 4 m/s units and five 3.5 m/s units.
6. **KL Gateway (Malaysia)** Twenty-seven elevators were installed, including eight 3.5 m/s units, as well as forty-nine escalators and an auto parking system.
7. **Songdo G Tower (Korea)** Eighteen elevators were installed, including two 6 m/s units and six 3.5 m/s units.
8. **Yangon Hotel (Myanmar)** Twenty elevators were installed, including five 3 m/s units, two 2.5 m/s units, and six 2 m/s units.
9. **Metropol Istanbul (Turkey)** One hundred twenty-seven elevators were installed, including six 6 m/s units, one 5.8 m/s unit, and twenty-eight 4 m/s units, as well as twenty-four escalators.


2
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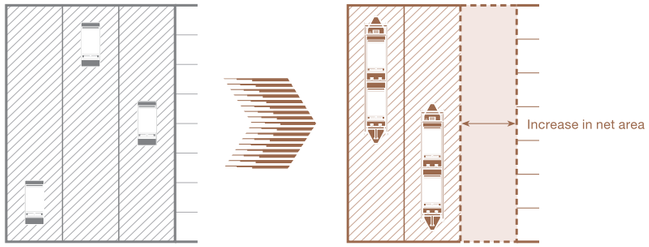
DOUBLE DECK ELEVATOR, LARGE CAPACITY TRANSPORT SYSTEM BASED ON A NEW METHOD

By operating two vertically connected elevator cars in one hoistway and servicing two floors simultaneously, transport capacity can be increased by up to 1.8 times standard capacity.

- Utilize space better thanks to fewer number of elevator hoistways
- Possible to design a building freely with the Floor Distance Adjustable Device
- Minimize noise and vibration by designing aerodynamic capsule cage (speed of more than 8 meters per second)



Single Deck　　Double deck

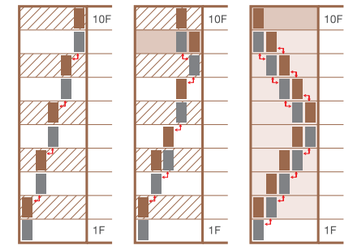
1 ／ THREE MODES OF DOUBLE DECK OPERATION

Flexible operation is possible with three modes (Exclusive, Core and Free Mode) depending on the characteristics or traffic of a building.

Exclusive Mode
Operation mode under which upper elevator car stops only at even number floors and lower elevator car stops only at odd number floors.

Core Mode
Operation mode under which both upper and lower elevator cars stop at a designated floor

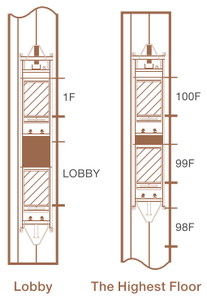
Free Mode
Operation mode under which both upper and lower elevator cars stop at every floor except for the lowest floor for an upper elevator car and the highest floor for a lower elevator car



Exclusive Mode　Core Mode　Free Mode

2 ／ FLOOR DISTANCE ADJUSTABLE DEVICE

The Floor Distance Adjustable Device is applied to adjust floor height of upper and lower elevator cars in case of different floor heights in a building providing more freedom to architectural design.



Lobby　The Highest Floor

KOREA IN 2015
Hyundai Elevator installed first double-deck elevators in the LG U+ office building, Korea in 2015.

SMART SYSTEM

Smart connection of people and elevators.

Hyundai Elevator combines key elevator technology and IT technology to provide a smart system that is optimized for a building's environment. By connecting people and spaces more conveniently and intelligently, it promotes transport efficiency, convenience, and most importantly, safety in buildings.

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2

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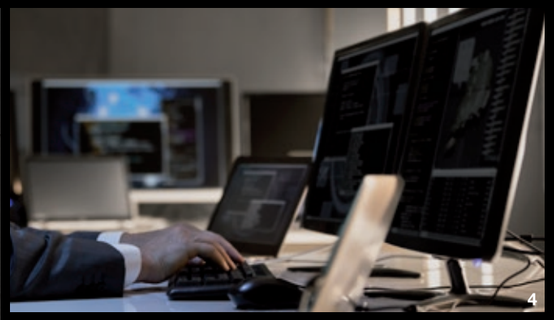


4

5

1. Destination Selecting System

The destination selecting system for fastest arrival at a destination floor, is a system that features improved operating efficiency of elevators for buildings with high levels of traffic by encouraging passengers going in the same orientation to board the same elevator and reducing waiting time and boarding time.

2. Intelligent Building System (IBS) support

IBS is an advanced building management system that supports a smart elevator usage environment by pairing the building's management system with IT technology. It enables the provision of premium services that enhance security and convenience, such as automatic registration of destination floors through access cards, elevator call service using smartphones, and optimized elevator operation in emergencies.

3. AI group control system

The AI group control system analyzes elevator traffic using AI and operates multiple elevators as a group, directing passengers travelling in the same direction to board the elevator that arrives first.

Adopts an artificial intelligence algorithm.

Based on artificial intelligence analysis on elevator traffic, the system controls several elevators for optimum service.

Allows the passenger to change the destination floor after boarding it.

The passenger can input the destination in the elevator after boarding the first arriving one at the platform.

Designates the first arriving elevator and encourages passengers to board it.

4. Crime Prevention System

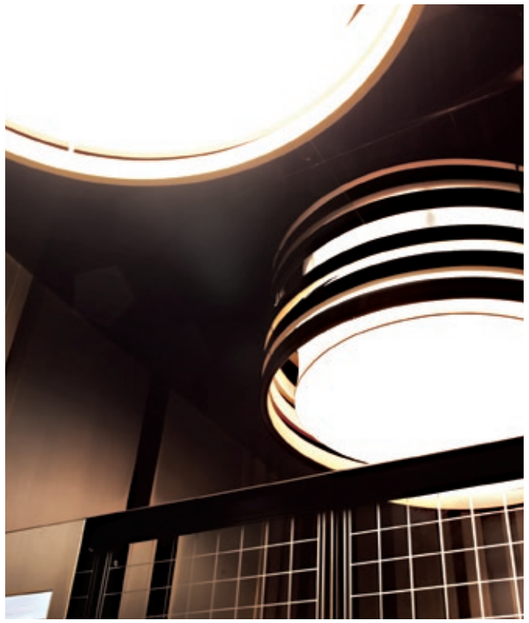
This system is to prevent and detect crime in the elevator. In the case of vibration or scream of over a certain level, an alarm is sent to the janitor's or management office and the elevator is moved to the nearest floor and opened.

5. Logistics robot connection

A logistics robot that can be operated remotely monitors the opening and closing of elevator doors and allows innovative building management in facilities such as hotels and hospitals.

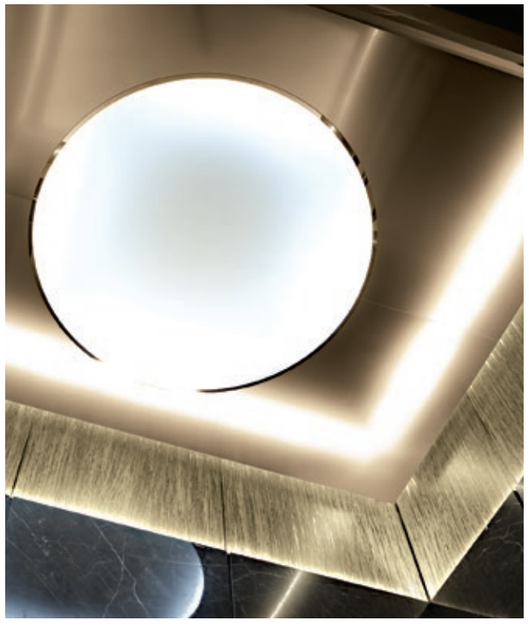
CEILING

Barrisol, LED Lighting, STS Mirror 3S Vibration



Inco-Black Mirror, Wood, Barrisol LED Lighting

STS Bead Blast, LED Lighting



Ti-Bronze Bead Blast, Ti-Bronze Mirror, Sheet, LED Indirect Lighting

OPERATING PANEL BOARDS

OPP-N264A

OPPNS5A0

OPP-N290B

Touch Screen
Operating Panel

* The design may change depending on the building.

HALL BUTTONS

Box Type

HPB-264

HIP-D264

Boxless Type

HPB-864

HIP-D864

HPB-A64

HPB-DA64

HPB-LA64

BUTTONS

BT5A Type

64 Type

90 Type

9A Type

HALL LANTERNS

Box Type

HLS-640

HLS-750

Boxless Type

HLS-790

INDICATORS

Box Type

PI-D110

Boxless Type

PI-D900

PI-L900

INFORMATION DISPLAY SYSTEMS

IDS-01

IDS-02

IDS-03

GROUP CONTROL SYSTEM

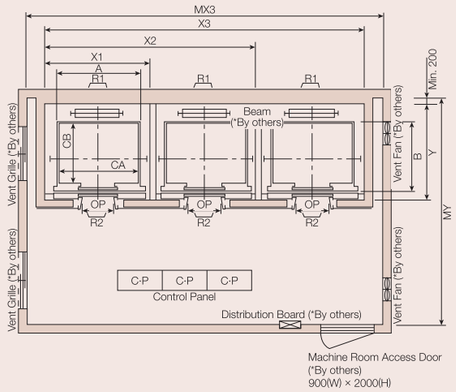
SERVICES

(X : Not applicable, S : Standard, O : Optional, ※ : Separate charges apply)

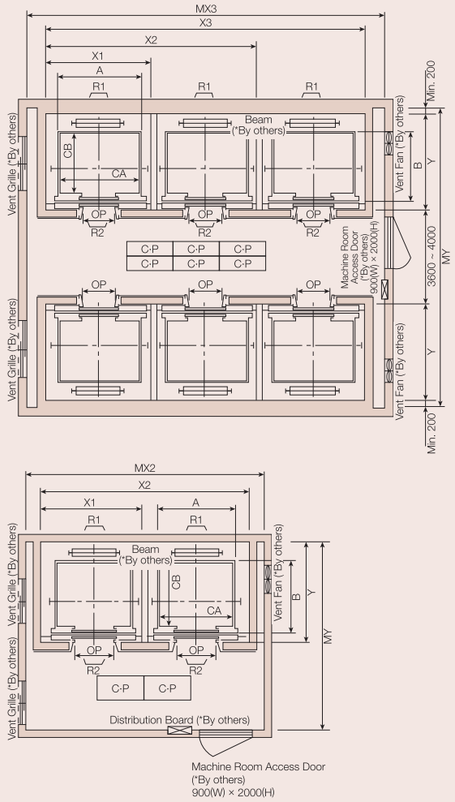
Item	Details	HRGC–100 (general type)	HRGC–1000 (standard type)	HRGC–3000 (premium type)	Option
AI processing function	Optimal control of building traffic volume through application of the latest AI technology	S (Limited)	S	S	
Learning function	Improves group control performance by conducting learning by day/ time zone	X	S	S	
Adaptation of double deck and double + single deck	Optimal control for group control on double deck or double + single deck	X	X	O	
Predictive assignment type	Optimal control after conducting comprehensive evaluation on present / future traffic situations	X	S	S	
Evaluation on weighted waiting time depending on estimated number of passengers	Reduces congestion in platform by providing service to the floor where it is expected to have many passengers waiting for the elevator	X	O	O	
Linkage control of security system in the building	Can control personnel having access to each floor by linking with security system within building (card key, speed gate) (destination selecting system)	X	O	O	
Hybrid destination selecting system	Installs destination selecting system at the floor where it is frequently congested and general hall button at other floors (used call button in the elevator)	O (Lobby floor)	O	O	
System control by experts	Provides solutions for improving traffic during peak congestion	X	O	O	
Controls waiting status of the elevator	Controls operation so that at least one elevator can stand by at the floor	S	S	S	
Commuting hour & lunch time service	Controls operation so that several numbers of elevators can stand by at the floor during peak hours	O	O	O	※ (Add E/L monitoring panel)
Closing hour & after-lunch time service	Minimizes waiting time by distributing elevators during peak hours	S	S	S	※ (Add E/L monitoring panel)
Off-peak hour service	Reduces power consumption by minimizing unnecessary operations during night time	O	O	O	
Distribution service during commuting hours	Distributes elevators into low-floor and high-floor elevators during commuting hours to maximize transportation ability	O	O	O	※ (Add E/L monitoring panel)
Centralized service on certain floors	Allocate the several elevators in order to solve temporary congestion within a short period of time	X	O	O	
Multiple objective control evaluation type	Can select certain objectives such as focusing on waiting time, changing operating floors, and designating certain floors	X	S	S	
Controls stop status on the floor	Every elevator that passes by departure floor stops at the base floor	O	O	O	※ (Add E/L monitoring panel)
Power saving service	Executes power saving operation by minimizing number of operating elevators when the number of passengers is reduced	O	O	O	
Control for priority assignment	Assigns the elevator that has been called upon from adjacent floor	O	O	O	
Estimated control for capacity	Estimates the number of passengers to control capacity in advance and improve operation efficiency	X	S	S	
Attendant operation	Operated exclusively by car call separately from operation of group control	S	S	S	
Displays arrival alarm	Generates signal that can be recognized visually / audibly at the time when car speed is reduced	S	S	S	
Prompt notification function	Generates a signal that can be recognized visually / audibly by selecting the car to be serviced immediately after the call is registered	O	O	O	
Displays the selected elevator	Turns on lantern on the elevator that leaves from base floor to provide customers with convenience	O	O	O	
Cancel registration	Press the button once more to cancel the registration (only available in group control system)	O	O	O	
Independant operation	Automatic operation of one elevator by separating it from group control operation	S	S	S	
VIP operation	Exclusive operation by VIP call signal	O	O	O	
NEAR MISS restriction	When high speed elevator is operated in same direction within the same hoistway, occurrence of noise / vibration due to air current is suppressed.	O	O	O	
DOOR TIME auto adjustment	Automatically controls door opening / closing time depending on floor, call type, and traffic situation	X	O	O	
Function for changing Main floor	Function that can change Main floor	S	S	S	
Function for changing service floor	Changes service floor by controlling switch or using E/L monitoring panel	S	S	S	
System BACKUP function	Uses double-calculation micom configuration to operate group control as assistant group controller in case of failure of main group controller	O	O	O	※ Subgroup management
Device to display platform information	Device for displaying E/L information, building information, and general information on the screen for passengers waiting for elevator	O	O	O	※ Information server
Device for displaying information in the elevator	Device for displaying elevator information such as floor and location and general information in text or video for the passengers in the elevator	O	O	O	※ Information server
Elevator monitoring system	System that monitors elevator operating status, changes operation item on group control, and controls monitoring function using personal computer	O	O	O	※ (Add E/L monitoring panel)
Remote monitoring control system	System that uses central computer and communications network installed in the maintenance center to inspect operating status of elevators on a 24-hour basis	O	O	O	※ (Add E/L monitoring panel)

INSTALLATION LAYOUT PLAN

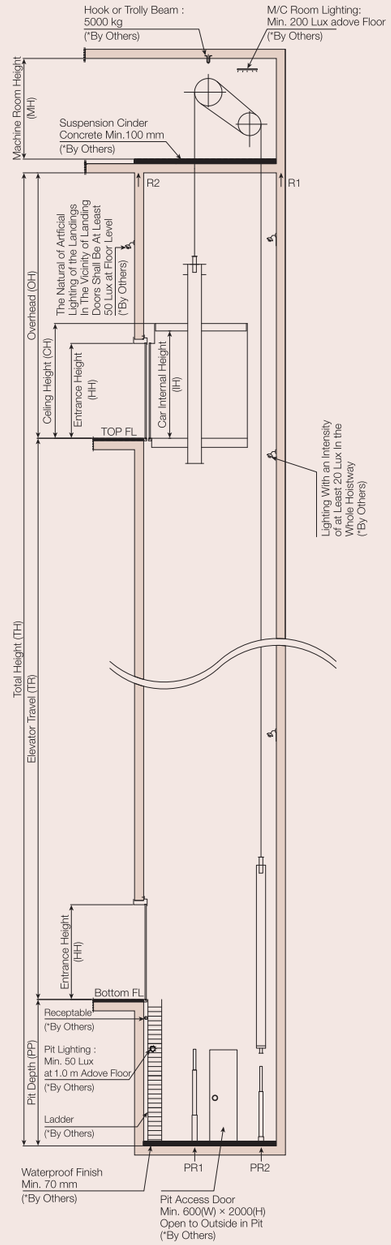
PLAN OF HOISTWAY & MACHINE ROOM
(IN-LINE ARRANGEMENT OF 3 UNITS)



FACE-TO-FACE ARRANGEMENT



SECTION OF HOISTWAY



*By others: To be built by the building owner

STANDARD DIMENSIONS

MANUFACTURER STANDARDS

(Units: mm)

Speed (m/sec.)	Capacity		Opening Type	Door Width (mm)	C.WT Drop	Car Insize (mm)	Hoistway Size (mm)			Machine Room Size (mm)			M/C Room Reaction (kg)		Pit Reaction (kg)	
	Ps	kg		OP		CA × CB	X1	X2	X3 × Y	MX1	MX2	MX3 × MY	R1	R2	PR1	PR2
3.0	12	900	1S-CO	900	Rear	1600 × 1350	2300	4700	7100 × 2100	2800	5500	7900 × 4350	12030	6650	13100	11300
			2S-SO	900	Side	1300 × 1600	2300	4700	7100 × 2100	2800	5500	7900 × 4350				
	13	1000	1S-CO	900	Rear	1600 × 1400	2300	4700	7100 × 2150	2800	5500	7900 × 4400	12810	6950	14600	12600
			2S-SO	900	Side	1300 × 1800	2300	4700	7100 × 2300	2800	5500	7900 × 4550				
	15	1150	1S-CO	1000	Rear	1800 × 1400	2500	5100	7700 × 2150	3000	5900	8500 × 4400	13080	7150	17200	14900
			2S-SO	1000	Side	1300 × 2000	2300	4700	7100 × 2500	2800	5500	7900 × 4750				
	18	1350	1S-CO	1000	Rear	1800 × 1600	2500	5100	7700 × 2350	3000	5900	8500 × 4600	14360	7650	18800	16100
			2S-SO	1100	Side	1300 × 2300	2300	4700	7100 × 2800	2800	5500	7900 × 5050				
	21	1600	1S-CO	1100	Rear	2000 × 1700	2700	5500	8300 × 2450	3200	6300	9100 × 4700	15100	8100	21000	17100
			2S-SO	1200	Side	1400 × 2400	2400	4900	7400 × 2900	2900	5700	8200 × 5150				
	24	1800	1S-CO	1100	Rear	2000 × 1800	2700	5500	8300 × 2550	3200	6300	9100 × 4800	15700	8400	24000	18700
			2S-SO	1200	Side	1500 × 2400	2550	5200	7850 × 2900	3050	6000	8650 × 5150				
3.5 ~ 4.0	13	1000	1S-CO	900	Rear	1600 × 1400	2300	4750	7150 × 2200	2800	5550	7950 × 4450	12810	7800	14600	12600
			2S-SO	900	Side	1300 × 1800	2350	4800	7250 × 2300	2850	5600	8050 × 4550				
	15	1150	1S-CO	1000	Rear	1800 × 1400	2500	5150	7750 × 2200	3000	5950	8550 × 4450	14100	8000	17200	14900
			2S-SO	1000	Side	1300 × 2000	2350	4800	7250 × 2500	2850	5600	8050 × 4750				
	18	1350	1S-CO	1000	Rear	1800 × 1600	2500	5150	7750 × 2400	3000	5950	8550 × 4650	15100	8050	18800	16100
			2S-SO	1100	Side	1300 × 2300	2350	4800	7250 × 2800	2850	5600	8050 × 5050				
	21	1600	1S-CO	1100	Rear	2000 × 1700	2700	5550	8350 × 2500	3200	6350	9150 × 4750	15700	8100	21000	17100
			2S-SO	1200	Side	1400 × 2400	2450	5000	7550 × 2900	2950	5800	8350 × 5150				
	24	1800	1S-CO	1100	Rear	2000 × 1800	2700	5550	8350 × 2600	3200	6350	9150 × 4850	16000	8500	24000	18700
			2S-SO	1200	Side	1500 × 2400	2600	5300	8000 × 2900	3100	6100	8800 × 5150				

▲ **Note:** 1. Dimensions are per Hyundai Elevator standards or EN81. Please contact us for codes and specification requirements for other countries.
2. Please consult with us if installing safety gear on the counterweight side.
3. Please consult with us if installing a 180-degree through-type elevator.
4. Please ensure a minimum distance of 500 mm between cars when installing duplex elevators. If not possible, please install a middle partition in the hoistway.
5. Rail bracket pitch (separated beams/walls): 2,000 mm for speed 3.0 m/s elevators with a capacity below 1,600 kg.
6. If a single car is to be installed in the hoistway, please contact us for wind pressure countermeasures for the building and elevator.
7. Hoistway width and depth measurements are based on clear dimensions ±20 mm horizontal tolerance in the whole hoistway.

OVERHEAD & PIT DEPTH

(Units: mm)

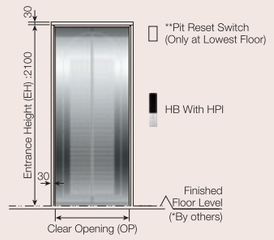
Speed (m/sec.)	Overhead (OH)	Pit Depth (PP) Note 2)	M/C Room Height (MH)
3.0	CH+3300	2700	3000
3.5	CH+3700	3200	3000
4.0	CH+4400	3850	3300

*CH: (External) Car Height

◀ **Note:** 1. The table is based on EN81-20.
2. PP can be 2500 mm depending on the layout. Please consult with us.
3. Machine room temperature should be maintained below 40°C with a ventilating fan and/or air conditioner (if necessary) and humidity should be kept below 90%.
4. If the height of non-stop floor exceeds 11 m (7 m in the case of a fire-fighter lift), please consult with us on the need of emergency exits.

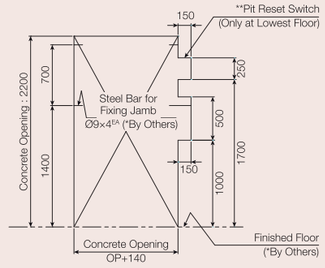
ENTRANCE LAYOUTS

ENTRANCE



JP050 TYPE (STANDARD)

STRUCTURAL OPENING OF ENTRANCE



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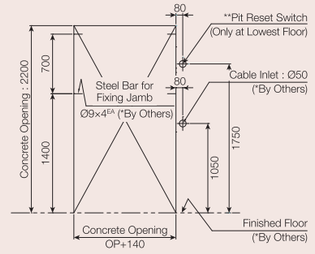

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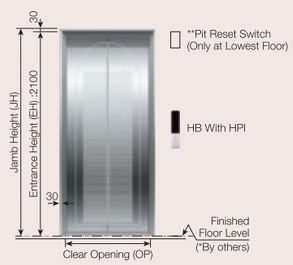

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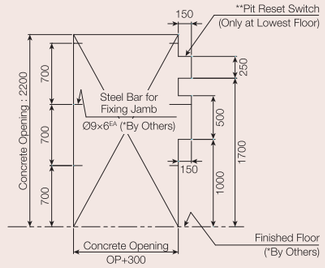

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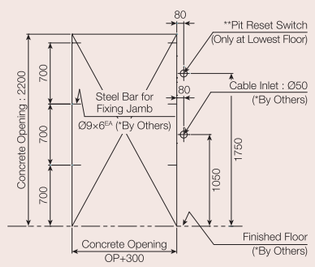

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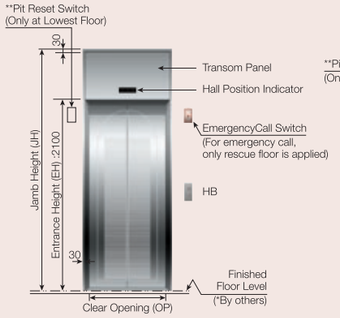

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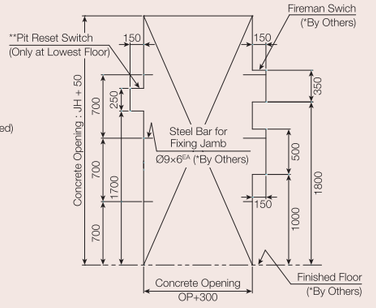

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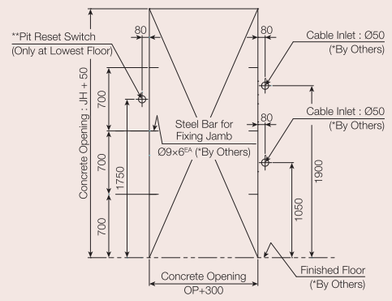

BOXLESS TYPE

*By others: To be built by the building owner
**Pit Reset Switch: Only applied EN81-20

ELECTRIC POWER REQUIREMENTS

POWER SUPPLY PLAN

(380V)

Load (kg)	Speed (m/sec.)	Motor Capacity (kW)	MCCB Capacity of Building (A)		Power Supply Capacity (kVA)		Power Cable Size (mm²)		Earth Wire Size (mm²)	
			1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars
900	3.0	16.6	50	100	30	59	16	35	10	16
1000	3.0	18.4	60	125	32	64	16	50	10	25
	3.5	21.5	75	125	38	76	25	50	16	25
	4.0	24.6	100	150	44	87	35	70	16	25
1150	3.0	21.2	75	125	38	76	25	50	16	25
	3.5	24.7	75	150	44	87	25	70	16	25
	4.0	28.2	100	175	50	99	35	95	16	25
1350	3.0	24.9	75	150	44	87	25	70	16	25
	3.5	29	100	175	51	102	35	95	16	25
	4.0	34	125	200	58	115	50	95	25	50
1600	3.0	29.5	100	175	52	104	35	95	16	25
	3.5	35	125	200	60	120	50	95	25	50
	4.0	40	125	225	69	138	50	95	25	50
1800	3.0	34	100	200	58	115	35	95	16	50
	3.5	39	125	225	68	135	50	95	25	50
	4.0	45	125	250	77	153	50	120	25	95

▲ **Note:** 1. The table above applies to electric wiring up to 50 meters long from the machine room to the building's transformer.

2. Use the following formula if cable length exceeds 50 meters:

$$\text{Power feeder size (mm}^2\text{)} = \frac{\text{Power feeder length (m)}}{50} \times \text{Size in the above (mm}^2\text{)}$$

3. Power feeder thickness is for copper wires and metallic tubing.
4. Wider diameter earth wires are recommended.
5. Please contact us if electric power requirements for 220V- or 440V-class elevators are needed.
6. Use the following formula to install multiple elevators:
   Transformer capacity [kVA] = Number of elevators x Diversity factor

Number of Elevators	1	2	3	4	5
Diversity Factor	1.00	0.91	0.85	0.80	0.76

WORK TO BE DONE BY OTHER CONTRACTORS

CONSTRUCTION WORK

Hoistway

1. Forming holes on the wall surrounding the exit on each floor (exit, hall button, hall lantern, etc.), and finishing the walls and floors after installing the elevator (including mortar filling)
2. Installation of steel frame to fix the left/right jambs on the exit
3. Installation of ladder for pit inspection
4. Waterproofing work inside the pit and finishing work after attaching the buffer
5. Installation of hoistway partitions or separating beams (when necessary)
6. Removing various tie pins and molds
7. Others (items indicated on the floor plan)
8. Construction of concrete structures (thickness of 150mm or above) or beam structures that can fasten the rail brackets in the hoistway wall
9. Supplying storage for construction tools and materials free of charge
10. Destruction and finishing of concrete structures that are not constructed as indicated on the blueprint
11. Installation of lighting within hoistway (install lighting of 100 Lux or above on upper and lower part of the hoistway)
12. Installation of tensile beam or hook that is designed to lift the machine to the ceiling of hoistway

Machine Room

1. Forming holes for machines and ropes on the floor, finishing on cinder concrete, and installation of those indicated on the floor plan
2. Installation of pulley beam or hook on the ceiling of machine room
3. Installation of reinforcement beam on machine room floor (when necessary)
4. Supplying water used for construction free of charge
5. Supplying storage for construction tools and materials free of charge

ELECTRIC WORK

Hoistway

1. Installation of natural or artificial lighting of 50 Lux or above (measured from the floor) on platform of each floor (150 Lux in case of an elevator for the handicapped)
2. Piping and wiring work from monitoring panel to hoistway when monitoring panel is installed
3. Piping and wiring work when CCTV is installed
4. Others (items indicated on the floor plan)
5. Wiring work on power system within the hoistway for supplying power and lighting (refer to the floor plan for building power facilities regarding the capacity of power facilities.)
6. Installation of distribution box for elevator (including N.F.B) on electrical room (install near the hoistway. refer to the floor plan for building power facilities regarding the capacity of power facilities.)
7. Construction for power facilities to maintain the voltage regulation of distribution source within +5% to -10% and lighting within ±2%
8. Piping and wiring work on lighting outlet for pit inspection
9. Supplying power needed during installation and commissioning free of charge
10. Piping and wiring work on emergency communication device between elevator control panel, central control (Wire specifications: UTP 0.5 mm x 2P per each elevator)
    1) Communication device that connects the inside and outside of the elevator should be installed redundantly on the area where the managing personnel is stationed (security office, electric room, and central control room). In case of the facility where the managing personnel is stationed in only one place, however, only one communication device may be installed.
    2) Also, a communication device that automatically requests for help to maintenance company or self-inspector should be installed in order to deal with the situation where the internal communication is not established.

Machine Room

1. Piping and wiring work outside the hoistway when interphone is installed on places other than the machine room
2. Construction of lighting and lighting outlets for inspection in machine room
3. Supplying power needed during installation and commissioning free of charge
4. Installation of lighting for power system and cage, and construction of machine room incoming panel and its wiring for emergency power
5. Installation of permanent lighting that can be separated from the power for elevator and provide light of 200 Lux or above from the floor in machine room

MATTERS TO NOTE

1. Exit for machine room should be made of fire-proof material and should be installed in a structure that does not lead to other places.
2. Do not install ducts or pipes for other purposes (electricity, water, gas, hydrant) on the hoistway and walls inside the machine room.
3. Lower part of pit should not be used as residence, pathway, or for other purposes.
4. Power and voltage regulation should be within +5% to -10%.
5. Temperature in machine room should be 40°C and humidity should be 90% or below. Be sure to install the entilation window, ventilator, or other airconditioning facilities to prevent generation of dust or poisonous gas inside the machine room.

※ When you wish to build the hoistway in steel frame, please contact us. (Steel frame construction for hoistway is excluded from our supply scope.)

※ Construction errors: Inner hoistway size that is indicated on the blueprint of this catalog is the minimum size that is designed to fit the size of the elevator interior. So, the construction error limit for hoistway width and overall height is ±30 mm.

※ Calculation equation for heat generation in machine room (based on one elevator)
Q: (kcal/H) = W × V × F × N
W: Loading capacity (kg) N: Number of elevators
V: Rated speed (m/min) F: Coefficient based on control type (1/42 : VVVF)

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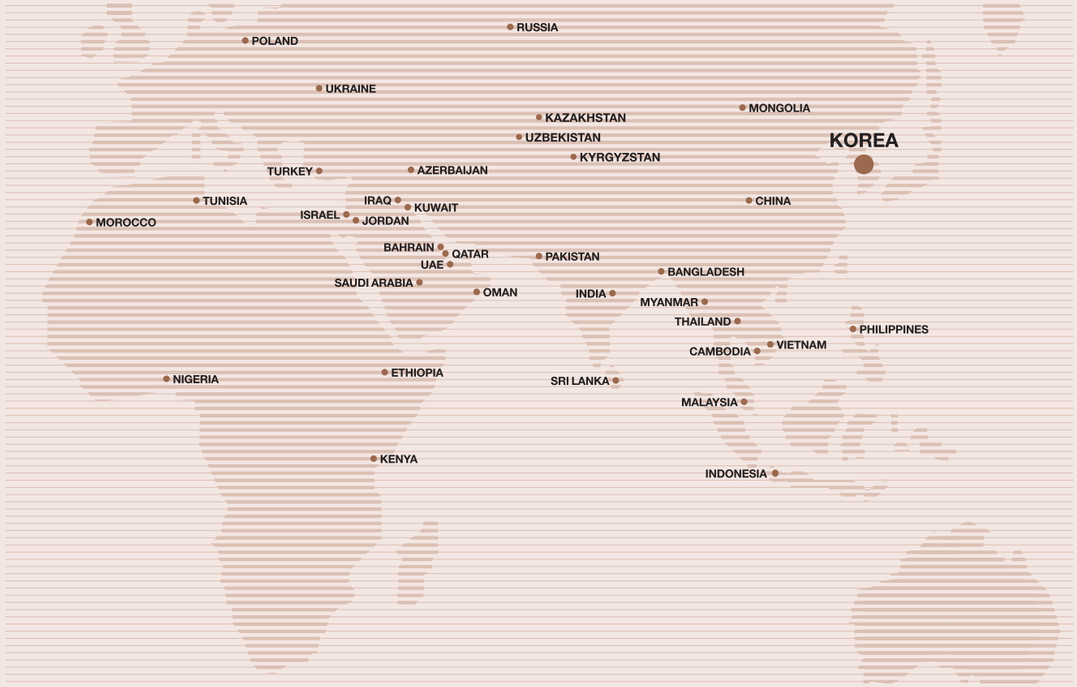

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