MOBILITY TO POSSIBILITY

HYUNDAI ELEVATOR

Company Profile

HYUNDAI ELEVATOR

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HYUNDAI ELEVATOR: TRUSTED WORLDWIDE FOR BRAND VALUE AND INNOVATIVE TECHNOLOGY

With over 40 years of experience and advanced technology, Hyundai Elevator is growing into a global vertical e-mobility company. It is improving quality and driving innovation through R&D at the world's tallest elevator test tower, and responding quickly and flexibly to local customers' diverse needs with customized 24-hour service and a global network that spans across more than 60 countries. By delivering safe and efficient mobility with reliable technology and integrating eco-friendly smart solutions, Hyundai Elevator is setting new standards for the future of mobility.

Trust.

HYUNDAI ELEVATOR ENHANCES
THE VALUE OF SPACES WITH
THE TRUST OF A GLOBAL BRAND.

*** Hyundai Asan Tower, a 250-meter elevator test tower built to world-class standards.**

Global brand power

"HYUNDAI" is a globally recognized brand that is expanding across various industries. Building on the trust and quality reputation of the brand, Hyundai Elevator is advancing technology and maximizing customer satisfaction.

Trusted across industries

Known for high quality in diverse industries, the "HYUNDAI" brand enhances a building's prestige. Based on brand credibility, Hyundai Elevator adds new value to spaces.

Smart.

HYUNDAI ELEVATOR DELIVERS SAFE AND EFFICIENT ELEVATOR EXPERIENCES THROUGH SMART TECHNOLOGY THAT SHAPES THE FUTURE.

*** A service that links elevator units and robots through MIRI API.**

The world's fastest elevator

In 2020, Hyundai Elevator led technological innovation with the world's first carbon fiber belt and the creation of an ultra-high-speed elevator capable of reaching speeds of up to 1,260 m/min.

Seamless robot integration

Hyundai Elevator is making seamless automated collaboration between elevators and robots a reality by integrating smart technology into the core infrastructure of future smart buildings.

MIRI smart maintenance

Hyundai Elevator is optimizing elevator maintenance by monitoring elevator operations in real-time and using AI technology to anticipate failures and replacement cycles.

Proactive.

HYUNDAI ELEVATOR ENSURES RELIABLE ELEVATOR OPERATIONS WITH LOCALLY CUSTOMIZED R&D AND 24-HOUR SUPPORT.

*** A Hyundai Elevator engineer receives locally customized, hands-on training.**

Customized research and development

Hyundai Elevator's R&D is customized to proactively reflect regional requirements.

Online training & dispatching of engineers

Hyundai Elevator ensures reliable elevator operations through customized training and on-site engineer support that is tailored to local needs.

Around-the-clock technical support

Hyundai Elevator's systematic maintenance service is available anytime, anywhere in the world.

HYUNDAI ELEVATOR OVERVIEW

WITH OVER 40 YEARS OF EXPERIENCE AND EXPERTISE, HYUNDAI ELEVATOR CONTINUES TO EXPAND AND STRENGTHEN ITS GLOBAL NETWORK, TRANSFORMING POSSIBILITIES INTO REALITY AND LEADING THE FUTURE OF MOBILITY THROUGH INNOVATION AND TRUST.



No.1 in the Korean elevator market for

19

years in a row



A global network supported by branch offices in

71

countries



State-of-the-art technology:

21

m/sec ultra-high-speed elevator



Annual elevator production capacity in 2025:

55,000

units

SMART FACTORIES

Hyundai Elevator offers outstanding quality and pursues continual innovation at its Smart Campuses in Chungju, Korea and Shanghai, China.

HYUNDAI ELEVATOR'S SMART CAMPUSES IN CHUNGJU AND SHANGHAI ARE DRIVING THE COMPANY'S GLOBAL LEAP

For the first time since its foundation in 1984, Hyundai Elevator relocated its headquarters and plant to Chungju in 2022, laying the groundwork for a new leap forward. The Chungju Smart Campus was designed to incorporate a wide range of 4th Industrial Revolution technologies and systems for manufacturing, R&D, and logistics. It is expected to become the hub of Hyundai Elevator's operations. The Shanghai Smart Campus, on which construction was completed in 2021, will help foster a spirit of challenge and innovation within Hyundai Elevator together with the Chungju Smart Campus.



Chungju Smart Campus, Korea

Site Area	172,759.5 m² (1,859,568 ft²)
Gross Floor Area (GFA)	125,381 m² (1,349,590 ft²)
Test tower	250 meters (820 ft)
Business lines	Elevators
	Auto parking systems

The Chungju Smart Campus went into commercial operation in 2022. Built on 172,759 m² of land, it hosts the headquarters building, the R&D center, employee welfare facilities, and a dormitory. Hyundai Elevator enhanced its ability to meet and exceed customers' needs by creating a smart factory that integrated manufacturing, packaging, and logistics, as well as Industrial Internet-of-Things (IIoT), big data, artificial intelligence, and other technologies to dramatically increase the automation rate.







Shanghai Smart Campus, China

Site Area	105,517 m² (1,135,765 ft²)
Gross Floor Area (GFA)	87,420 m² (940,981 ft²)
Test tower	175 meters (574 ft)
Business lines	Elevators
	Escalators and moving walks

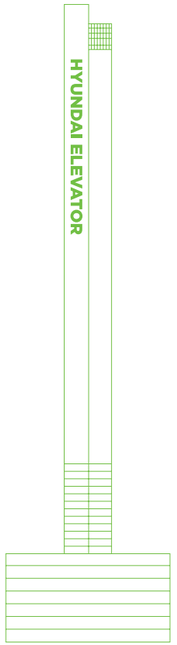
The Shanghai Smart Campus was built on 105,517 m² of land in Jinshan Industrial Zone, Shanghai, China in 2021. It consists of a smart factory, a test tower that can test 8 ultra-fast and mid-to-low-speed elevators, an office building, and a welfare building. The smart factory, in which the elevator and escalator production lines and the logistics center are linked, is equipped with production and logistics automation facilities, Industrial Internet-of-Things, and artificial intelligence technologies. The Shanghai Smart Campus is becoming the springboard for Hyundai Elevator to become the top-tier brand in China, the world's largest elevator market and the company's global market hub.

HYUNDAI ASAN TOWER

Hyundai Elevator inaugurated the Hyundai Asan Tower at its Chungju headquarters in 2025. This world-class test tower, ranked among the global top three, greatly enhances the company's R&D infrastructure for technological innovation and sustainable management.

ASAN TOWER—AN R&D HUB THAT CONNECTS TECHNOLOGICAL INNOVATION WITH A SUSTAINABLE FUTURE

Test Tower with a Height of 250 meters



75F	Observation deck
72F	Machine room
65F	Transfer lobby
48F	Refuge area (safety zone)
3F	Offices
1F	Main lobby, power electronics lab, control lab, materials storage room
B1F	Dynamometer lab, Noise & Vibration lab, mechanical parts lab, mechanical system lab

Hyundai Asan Tower is a state-of-the-art, 250-meter-high R&D facility that can test up to 19 elevators simultaneously. It is a hub for the development and testing of diverse low-carbon, high-efficiency technologies, including ultra-high-speed elevators that can travel at speeds up to 1,260 m/min, double-deck systems (600 m/min), and observation elevators (420 m/min). Research spans the entire product lifecycle—from design to operation—to reduce carbon emissions, optimize energy consumption, and enhance safety.

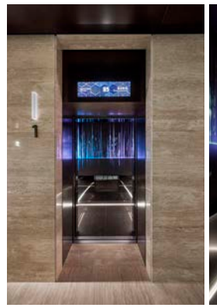
The R&D Center hosts over 160 resident researchers and continues to recruit talent to strengthen technological capabilities. Emphasis is placed on integrating eco-friendly solutions from the earliest stages of design, such as minimizing the use of electricity, developing high-performance materials, and reducing elevator noise.

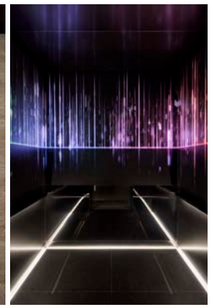
Asan Tower is more than a technology facility: it is a platform that embodies Hyundai Elevator's 40 years of expertise and realizes the company's vision for "People-Centered Mobility Technology." Centered around the Chungju Smart Campus and Asan Tower, Hyundai Elevator is accelerating the development of eco-friendly technologies and expanding the use of renewable energy to achieve carbon neutrality.

Carbon-fiber elevator (1,260 m/min)

A futuristic, high-energy media display provides an immersive experience of the ultra-high-speed elevator.

- Three-sided surround display
- Ceiling mirror: Creates a sense of continuity by reflecting the video.
- Three-sided media display: Plays immersive video content.
- Handrail with LED ambient lighting





Panoramic elevator (420 m/min)

A window frame reminiscent of a spaceship offers passengers a unique and memorable experience.

- Color LED frame visible from the outside
- The ceiling is seamlessly connected to the observation window
- A mirrored ceiling reflects the external view, enhancing the sense of openness
- Color-adjustable indirect lighting on the kickplate





Double-deck elevator (600 m/min)

A time-sensitive visual display is used to creates a shared spatial experience for passengers in both the upper and lower cars.





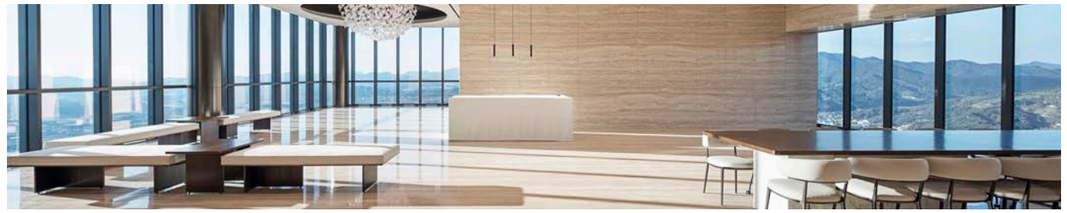
Upper car

- Three-sided lighting applied to both upper and lower car sections
- Starry ceiling lights and media display do not apply.

Lower car

- Three-sided media display on the upper section, three-sided lighting configurations on the lower section.
  The LED display is installed only on the lower car.
- Features include a starry ceiling light, video contents, and a welcome message.

Observation deck



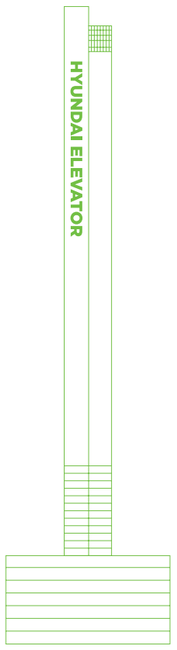
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HYUNDAI ELEVATOR R&D CENTER

Hyundai Elevator has increased R&D investments and developed innovative technologies in order to provide safer and more convenient means of transportation.

DRIVING FUTURE COMPETITIVENESS THROUGH INNOVATION—ADVANCING TOWARD GLOBAL TOP FIVE

Established in 1986, the R&D Center serves as the hub for new product development and future competitiveness. As mobility rapidly shifts toward the convergence of machines and IT, Hyundai Elevator is pioneering software-defined* elevators that evolve through continuous innovation, integrating artificial intelligence, big data, and the Internet of Things. As part of its globalization strategy to rank among the global top five, Hyundai Elevator is strengthening future competitiveness through its Global Modular Platform, which delivers cost efficiency, and by enhancing development quality with advanced CAE** capabilities such as digital twin technology.

*SW Defined (Software-defined): A technology by which software can be upgraded remotely and functions requested by customers can be provided through the network

**CAE (Computer Aided Engineering): A common designation for technologies that use computers.

Basic direction of R&D

INNOVATION	GLOBALIZATION
Differentiation of products and services (Smart products / service enhancement / IoT infrastructure construction)	Securing basic global competitiveness (Core technology)
• R&D of products and services based on the convergence of elevator technologies and IT • R&D of Internet-of-Things cloud platform	• Optimization of product and parts portfolio based on a system platform (Global Modular Platform) • Improvement of logistics efficiency through AI-based assignment algorithms • Advancement of the development and design environment via the use of digital twins.

Major achievements



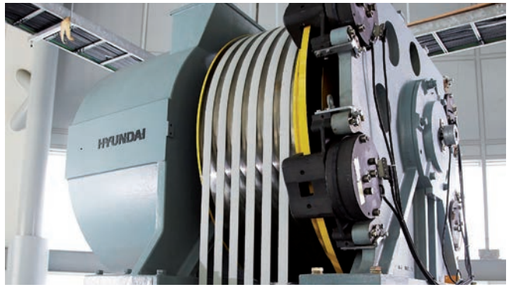
Smart Group Control System

The Smart Group Control System is an artificial intelligence-based system that controls and manages multiple elevator units. The System enhances elevator operational efficiency by studying operation data using a deep learning algorithm and analyzing data related to the movement of elevator units and passengers.



Elevator — Robot Connectivity

Robot Service uses telecommunication networks to control elevators and allow robots to move vertically. This Service is expected to bring delivery robots to life. Hyundai Elevator is strengthening the technical effectiveness of Robot Service by linking it to the Smart Group Control System.



World's First Carbon-Fiber Belt Ultra-High-Speed Elevator — 1,260 m/min

Hyundai Elevator, its vendors, and research institutions jointly developed the necessary technology, which includes a carbon fiber belt (the core element of the technology). The carbon fiber belt weighs only one-sixth of conventional metal ropes, thus increasing operational distance and reducing electricity consumption. The carbon fiber belt also features high natural vibration frequency, safeguarding it against resonance caused by wind or earthquakes.



Regenerative Inverter, LOWATT

LOWATT, a regenerative inverter that recycles energy created during elevator operation, is a groundbreaking eco-friendly regenerative energy technology that reduces the amount of energy used by up to 64% through the reuse of energy that would have been otherwise wasted.



GLOBAL NETWORK

Backed by a solid global network, Hyundai Elevator is advancing together with the world.

5
Countries Overseas Corporations

64
Countries Overseas Agencies

Headquarters

Smart Factory, R&D Center,
Asan Tower (Test Tower),
Logistics Center,
Customer Care Center, etc.

Overseas Corporations

China (factory),
Vietnam,
Türkiye,
Malaysia,
Indonesia

Overseas Agencies

Asia (11),
Middle East (8),
Africa (11),
Americas (19),
Europe (15)

HISTORY

With four decades of experience in overcoming challenges
and fostering innovation, Hyundai Elevator has embarked on
a new journey to become one of the world's top 5 players in the industry.

1984
ESTABLISHMENT



May.1984
Founded Hyundai Elevator Co., Ltd.

May.1985
Completed the Icheon Elevator Factory

Sep.1986
Completed the Icheon Escalator Factory and Elevator Test Tower

1990s
MOMENTUM



Aug.1993
Established the Chinese joint venture (Shanghai Hyundai Elevator Co., Ltd.)

Sep.1993
Established a joint venture in the Philippines (Hyundai Elevator Services Phils., Inc.)

Nov.1995
Completed the Cheonan Distribution Center

Mar.1998
Obtained the ISO 9001 and ISO 14001 Certifications for elevators, Auto-Parking Systems for elevators

2000s
GROWTH



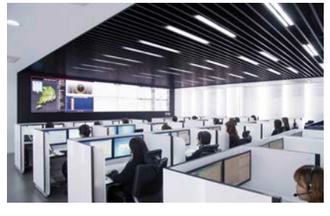
Jul.2001
Became the first Korean company to obtain the CE Mark (European safety standards) for elevators (DNV)

Mar.2006
Opened a round-the-clock customer center capable of handling customer complaints and serving customers

Apr.2009
Completed the world's tallest ultra-high-speed elevator test tower "Hyundai Asan Tower" (205 m) and the Chung Mong-hun R&D Center

Dec.2009
Developed and installed the world's fastest elevators (1,080 m/min. Hyundai Asan Tower) & the world's fastest double deck elevators (600 m/min. Hyundai Asan Tower)

2010s
GO GLOBAL



Jan.2012
Acquired the OHSAS 18001 and Green Management System (GMS) marks (DNV)

Mar.2013
Opened Hyundai Customer Care Center (HCCC)

Jan.2014
Established a Vietnam joint venture (Hyundai Thanh Cong Elevator Vietnam Co., Ltd.)

Jun.2014
Installed Korea's fastest elevators (600m/min, Busan International Finance Center)

Feb.2015
Installed and operated Korea's first double deck elevators (LG U+ office building in Yongsan)

Sep.2016
Established a joint venture in Türkiye (Hyundai Elevator Asansör ve Servis Sanayi ve Ticaret Anonim Sirketi)

2020s
NEW POSSIBILITY



Mar.2021
Completed the Smart Campus in Shanghai, China

Sep.2021
Acquired ISO 37301 certification for compliance management system for the first time in the machinery manufacturing industry

Mar.2022
Hyundai Elevator headquarters moved to Chungju Smart Campus Expanded business with releasing MIRI API, robot, AI speaker and smartphone connection platform

Jul.2022
Announced Vision 2030.
Marked KRW 5 trillion in sales, with overseas sales accounting for 50%, entering the global top 5



Sep.2024
Launched K-Escalator, Korea's largest escalator production base

May.2025
Completed the 250m height "Hyundai Asan Tower" (global top 3 test tower) and the Chung Mong-hun R&D Center

Sep.2025
Obtained ISO 37301 & ISO 37001 Integrated Certification

TECHNOLOGY

GUIDED BY THE VISION OF “MOBILITY TO POSSIBILITY,”
HYUNDAI ELEVATOR IS CREATING
INNOVATIVE MOBILITY SOLUTIONS.
IT DELIVERS NEW VALUE BY CONNECTING SPACES AND PEOPLE,
AND CONTINUOUSLY PURSUING BROADER
POSSIBILITIES FOR THE FUTURE.



Smart technology

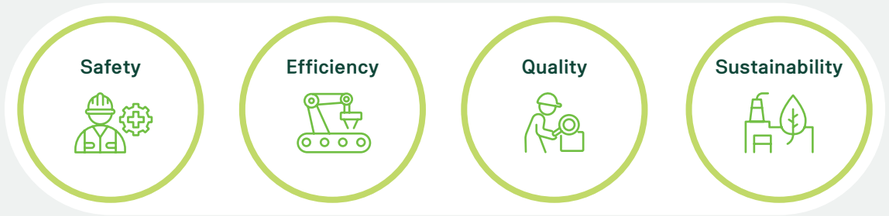
MODULAR ELEVATORS

Modular elevators are next-generation elevator solutions in which most elevator components are prefabricated in a factory and assembled on site. They enhance construction-site safety, installation efficiency, quality consistency, and sustainability. Hyundai Elevator's modular system improves the overall quality and value of construction projects by shortening installation periods, reducing on-site risks, and delivering consistent quality.

ENOBLOC

WHY ENOBLOC

HYUNDAI ELEVATOR ENOBLOC is a customer-oriented solution that goes beyond innovation in installation to improve the safety, efficiency, cost-effectiveness, and sustainability of construction projects.



Safety	Efficiency	Quality	Sustainability
Up to **99%**	Up to **80%**	**Factory Made**	**Minimum environmental impact**
reduction in serious accidents	reduction in elevator installation time	Quality improvement	Less noise, dust, waste, and harmful emissions

Safety-Oriented Solution



By prefabricating more than 90% of elevator components, ENOBLOC significantly reduces high-altitude work and heavy lifting on-site, minimizing hazards such as falls, falling objects, and entrapment to raise construction-site safety standards to a new level.

Standardized Quality



Through precise factory-based prefabrication and standardized assembly processes, ENOBLOC delivers reliable, consistent quality regardless of workers' skill levels or site conditions. From manufacturing and installation to maintenance, it enhances quality across the entire lifecycle.

Maximum Installation Efficiency



Installation is completed with minimal adjustments after on-site assembly, reducing elevator installation time by up to 80% depending on the project. This minimizes interference with other construction processes and improves the efficiency of subsequent construction phases.

Eco-Friendly Installation



ENOBLOC minimizes the environmental impact of construction sites by reducing noise, dust, construction waste, and welding work during installation. It is a forward-looking elevator solution designed with efficiency, quality, and sustainability in mind.

Smart technology

MIRI

(Maintenance Innovation & Real-time Information)

MIRI, an acronym that stands for Maintenance Innovation & Real-time Information, is the brand name of Hyundai Elevator's new-level elevator maintenance service. MIRI is a predictive service that integrates artificial intelligence, Internet of Things, cloud, big data, and Hyundai Elevator's robot technology to analyze maintenance data generated by the elevators on a real-time basis and achieve more efficient and safer operation.



MIRI highlights

Minimization of elevator downtime

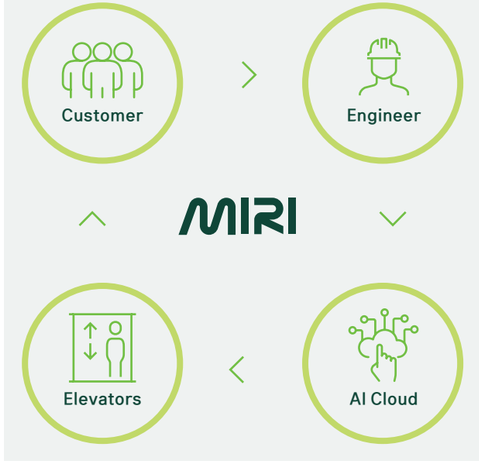
- Artificial intelligence analyzes the cause of failure when an elevator fails and provides information related to the failure and diagnostic metrics.
- Minimizes elevator downtime by applying artificial intelligence solutions and stocking necessary components in advance.

Advance detection of abnormalities

- Early detection of elevator abnormalities before breakdowns.
- The system evolves and prevents risks by learning.

Predictive maintenance of parts

- MIRI provides information on usage and replacement of parts by analyzing collected elevator data.
- Customers can check the status of parts directly through the customer portal.



Additional services

MIRI Call

MIRI Call is a cloud-based MIRI API technology-powered remote elevator calling feature. Users can easily call elevators through a smartphone app. Additionally, it can be voice-enabled by connecting smartphone AI assistant systems.



- Call elevators through with an app
- Voice control with MIRI API

MIRI View

MIRI View is an intelligent video analysis and voice-recognition-based passenger safety system. In the event of emergencies such as sudden movements, falls, or screams inside the elevator, AI immediately detects these signals and sends notifications. Elevator administrators can view the elevator's interior video through a smartphone app, and simultaneously, the customer care center can actively respond to the situation.



- AI monitors incidents and sends alerts
- Live video and support through an app

New Vertical Mobility

The elevators of the future will be more than just a means of moving within a building; they will become new platforms that connect more people and infrastructure. MIRI connects buildings to service robots, delivery platforms, and more, creating greater mobility efficiency and value. Additionally, it can be seamlessly integrated with various mobility services through cloud MIRI APIs.

- MIRI links elevators to smart services
- Cloud APIs enable integration

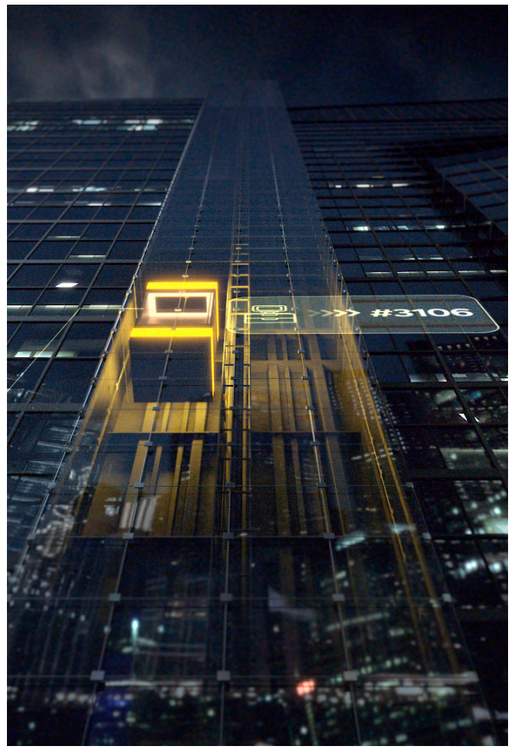
Smart technology

IoT

(Internet of Things)

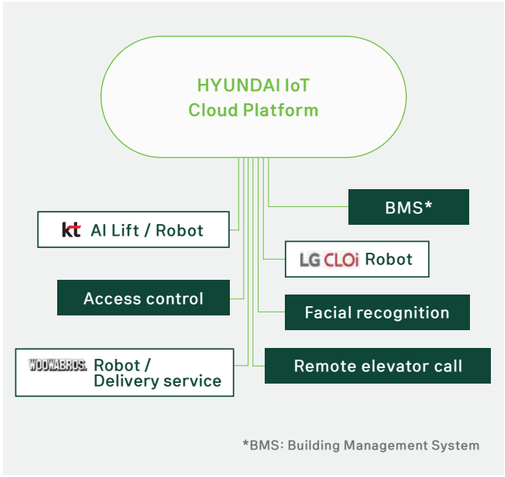
Hyundai Elevator offers a standardized API* and testing environment, enabling rapid and cost-effective integration with external systems and devices. By using MIRI API, the service can be effectively scaled up by interworking the elevator to a range of Internet of Things devices and external systems, such as robots, artificial intelligence speakers, smartphones, digital signage, and building management systems.

*API (Application Programming Interface): A software interface that helps computers or computer programs connect to each other.



Hyundai Elevator IoT Cloud Platform

Since MIRI API is operated on the cloud, it can be easily connected to external devices, such as robots and smartphones, wherever the Internet is available without installing additional equipment. A variety of services, including smartphone-enabled elevator calls and personalized in-elevator display information based on passenger identification, can be developed. In addition, the operating system can be improved by analyzing elevator usage to reduce power consumption and waiting time by automatically positioning elevators on crowded floors.



*BMS: Building Management System

Services provided using MIRI API

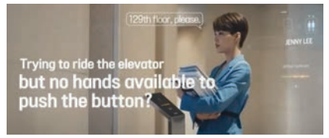
Remote calling system

Passengers can conveniently call an elevator anytime and anywhere using a dedicated smartphone application. The app also allows users to check the real-time status of the elevator-such as its current location and estimated arrival time-offering a more efficient and user-friendly experience.



Voice recognition system

This system enables passengers to call an elevator simply by using voice commands, without pressing any buttons. It is especially useful when carrying items or when hands are not free, and its intuitive interface makes it easy for anyone to use.



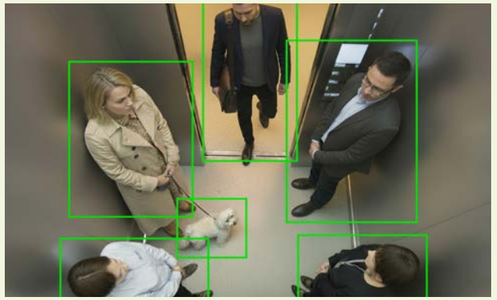
Facial recognition system

The system automatically recognizes the faces of registered residents and selects their frequently used floors. With no need for manual input, users can simply enter the elevator and be taken to their destination. It also enhances building security by limiting access for unauthorized individuals.



AI Vision

AI-powered cameras connected to the elevator continuously analyze the surrounding environment and passenger movement in real time, enabling optimized automation. The system supports intelligent door access control, detects the presence of people, and automatically opens or closes doors accordingly. Additionally, it can recognize pets to prevent the doors from closing unexpectedly, providing safe and smart functionality for a variety of everyday scenarios.



Key features

Pet Care Elevator

An AI camera detects pets and alerts passengers inside and outside the elevator that a pet is on board, helping to prevent potential risks when riding with pets.

Space Recognition Control

Automatically switches the elevator status to "Full" when cabin congestion is detected, directing waiting passengers to other elevators and reducing unnecessary stops and long wait times.

In-Cabin Detection Control

If a passenger is detected in the cabin after a ride ends, the system alerts the passenger and the control room, sending the elevator to the main floor to ensure a safe exit.

Elevator Landing Congestion Control

Real-time congestion analysis quickly reduces waiting lines and improves traffic efficiency by dispatching elevators to crowded floors or allocating them as needed.

Smart Door Control

Door opening and closing times are automatically adjusted depending on the presence of waiting passengers, enhancing boarding convenience and operational efficiency.

Ghost Call Deletion Control

If a call is registered without a passenger, it is automatically canceled to prevent prank calls and unnecessary stops, improving efficiency and saving energy.

Smart technology

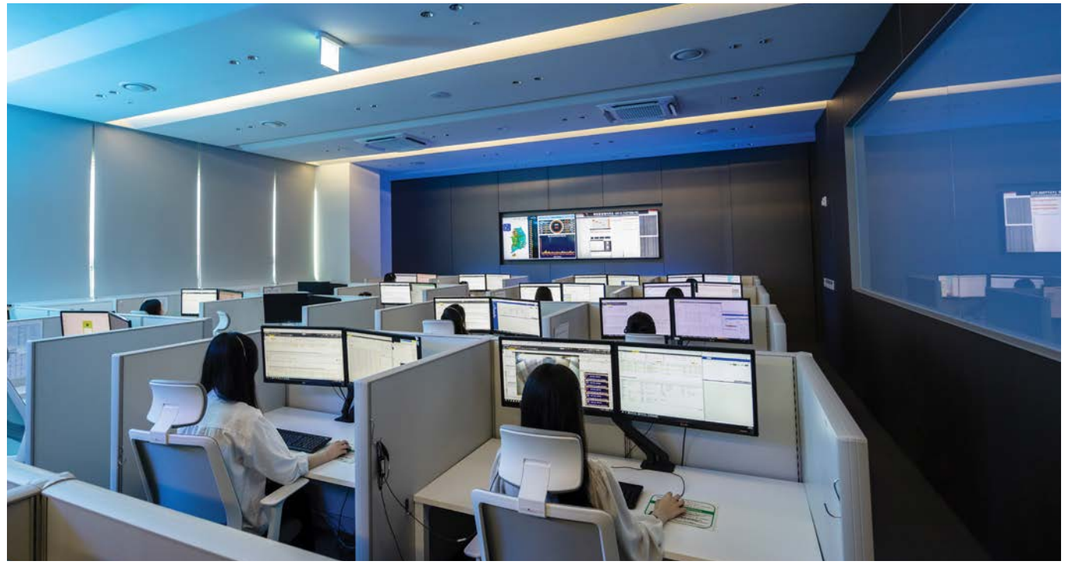
HCCC

(Hyundai Customer Care Center)

Powered by an extensive service network and an advanced remote management system (HRTS), the Hyundai Customer Care Center provides fast, reliable maintenance services 24/7, 365 days a year.

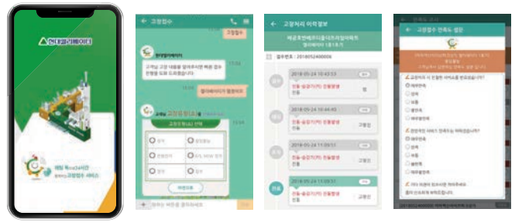
The HCCC operation process

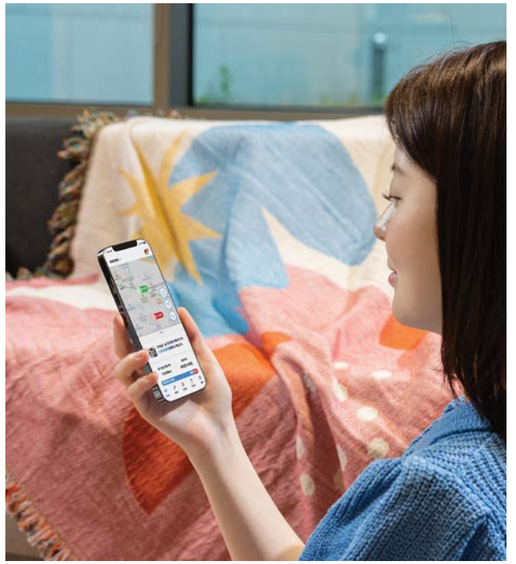




Smart Center System with AI Chatbot

Hyundai Elevator operates a smart center powered by an AI chatbot that responds in real time to inquiries and service requests. The chatbot manages the entire process—from registering breakdowns to dispatching technicians, notifying their arrival, reporting outcomes, and following up with customers—streamlining procedures and minimizing response times.

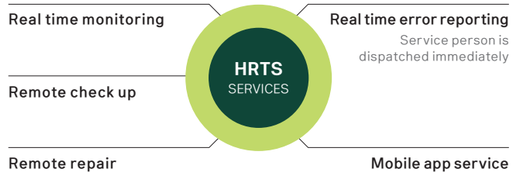




Hyundai Real Time Service (HRTS)

HRTS is an advanced remote monitoring system that tracks elevator operations in real time. It conducts inspections, responds to breakdowns, and analyzes operational data and fault history using big data, enabling preventive measures, extending product lifespan, and minimizing downtime for greater operational efficiency. Remote inspections can be scheduled according to customer needs, reducing unnecessary site visits and ensuring more reliable management.

The HRTS process







Smart technology

H-PORT

(Hyundai Elevator Vertiport System)

H-PORT is a next-generation vertiport for urban air mobility (UAM) that integrates parking, charging, and boarding in a single compact structure. Designed for maximum efficiency in limited urban spaces, it offers an optimized solution for future mobility hubs.

Vertically-layered Vertiport (H-PORT)

1. Landing zone Landing zones include touchdown, approach, and safety areas — compliant with EASA and US FAA guidelines.

2. Auto Guided Vehicle (AGV) Once grounded, eVTOLs are moved by AGVs, which secure the wheels or skids, lift the vehicle, and transport it to the main lift.

3. Main lift The traction-rope main lift safely transports eVTOLs while keeping the hoistway sealed, opening only when the car reaches the landing level.

4. Regenerative drive Regenerative drives supply extra power for eVTOL charging — boosting vertiport energy efficiency.

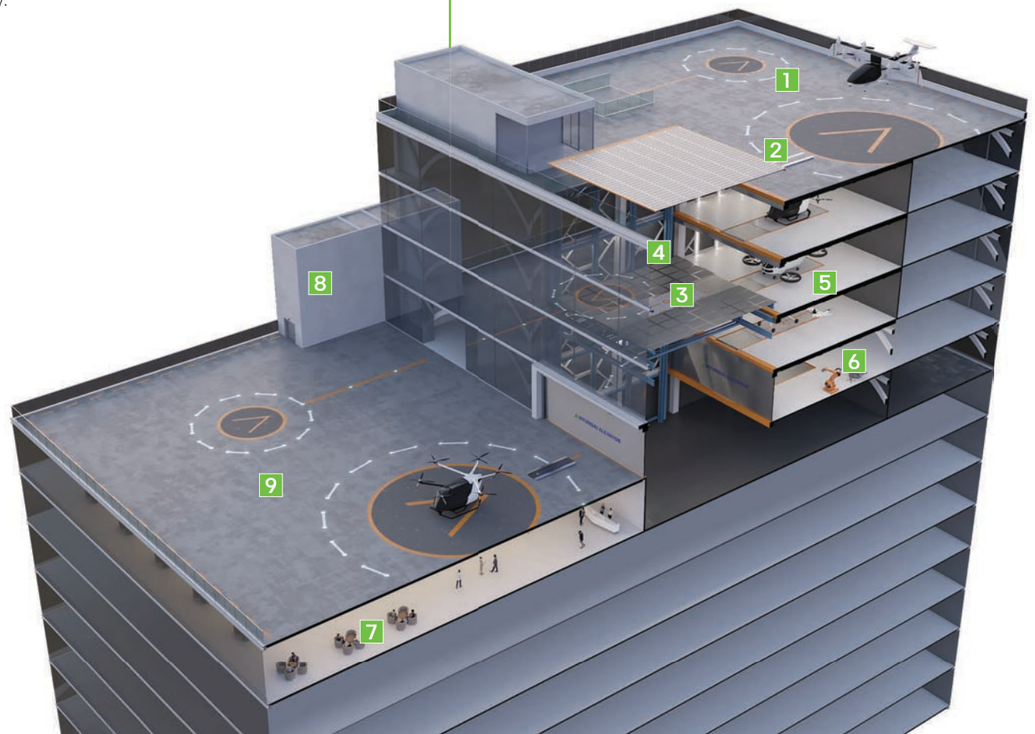
5. Parking layer Adjustable eVTOL parking layers with built-in automatic charging.

6. MRO station On-site eVTOL MRO — safer, faster, more efficient.

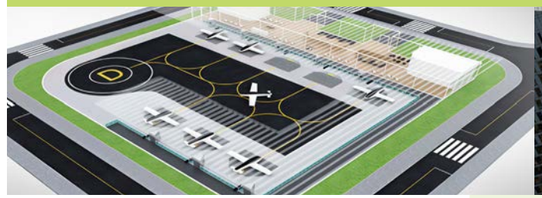
7. Passenger lounge Passenger lounge — comfort and convenience right beneath the take-off zone.

8. Ambulance lift Direct ambulance access to the landing zone — faster emergency response.

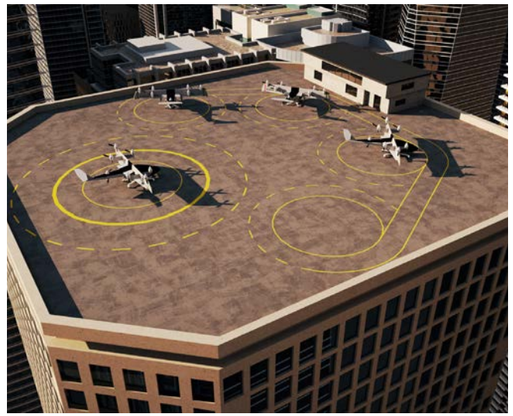
9. Take-off zone Dedicated departure area — separated for faster turnaround.



Comparison between on-the-ground vertiports and the Hyundai Elevator Vertiport System

ON-THE-GROUND VERTIPORTS		HYUNDAI VERTIPORT SYSTEM
		
Large site required. Not suitable for urban areas.	Land use	Vertical structure allows installation in limited urban spaces.
Open structure poses higher security risks.	Security	Vertical separation of spaces enhances security.
Inefficient hub-and-spoke model.	Fleet management	Network-based fleet management for higher efficiency.
Charging, maintenance, and boarding facilities can be dispersed.	Facility integration	Integrated space allows one-stop charging, maintenance, and boarding.

Requirements for Vertically Layered Vertiports



Conventional Vertiport Design

Minimum surface area required for
1 touchdown/ lift off area (TLOF) and 4 aprons: 8,475 ㎡



Hyundai's Vertiport Design

Minimum surface area required for
2 TLOFs and 4 aprons: 1,400 ㎡

Advanced technology

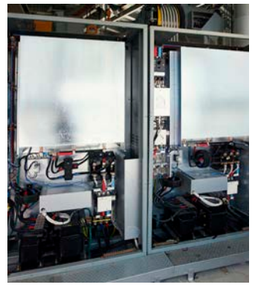
ULTRA-HIGH-SPEED ELEVATORS

Hyundai Elevator succeeded in developing the world's fastest 21 m/s elevator in March 2020 using proprietary high-speed technology. It continues to lead the world in high-speed technology after developing the nation's fastest 18 m/s elevator in 2009.











Key technologies

ULTRA-HIGH SPEED AND EFFICIENCY

1. 9-phase synchronous motor for ultra-high-speed operation

Three independent motors are combined to ensure operational stability. Even if a component fails, the elevator can continue to operate without interruption.

2. High-performance microprocessor control panel

Variable Voltage and Variable Frequency (VVVF) control reduces energy consumption and improves ride comfort.

RIDE COMFORT

3. Streamlined, ultra-high-speed capsule

An aerodynamically design based on biomechanics minimizes air resistance, reducing vibration and noise during ascent and descent.

4. Active power control to reduce lateral vibration

Real-time measurement of acceleration and actuator-based control effectively suppress lateral vibrations.

5. Guide rollers & rails

High-insulation guide rollers and precision rails minimize vibration and enhance stability during linear movement.

6. Sealed door system

A 5 mm airtight door inside the cabin minimizes noise and friction after closing, ensuring a smooth ride where acceleration and deceleration are barely noticeable.

SAFETY

7. Emergency braking device

Guide rails and emergency friction brakes ensure safety during high-speed operation, while special ceramic materials maintain performance even at 1000 ˚C.

8. Rope sway prevention device

Predicts rope movements during earthquakes or strong winds to prevent collisions and operates at reduced speed or within a restricted range when needed to maintain safety.

Expected benefits

Hyundai Elevator's advanced technology allows ultra-high-speed elevators to run fast and safely in high-rise buildings, shortening travel time for users and lowering operational costs with energy-efficient systems.

- Shorter waiting and travel times in high-rise buildings
- Reduced noise and prevention of ear discomfort from pressure changes due to a streamlined capsule
- Improved operational efficiency and energy savings through remote monitoring and usage analysis

Advanced technology

JUMP ELEVATORS

Jump elevators are construction elevators that rise with the building as floors are added. Hyundai's jump elevator transports personnel and materials quickly and safely, reducing construction time and costs. Its specialized design efficiently adapts to a wide range of building environments.



Key advantages

Jump elevators accelerate the construction of high-rise buildings by being installed in the initial phase.

- SHORTEN CONSTRUCTION PERIOD
- REDUCE CONSTRUCTION COSTS
- IMPROVE TRANSPORTATION EFFICIENCY
- SAVE ENERGY
- ENHANCE SAFETY

Jump elevator structure

1. Waterproof protection
Plates prevent rainwater from entering and protect workers from the weather.

2. Upper work platform
Prevents objects from falling and ensures worker safety.

3. Work platform
Temporary platform for installing the rail entrance.

4. Machine room
Moves down to the basement as the building rises, allowing the elevator to "jump" with the structure.

5. Elevator car
Transports personnel and materials to more floors as the building expands.

6. Rope drum
Winds the rope in the pit as the number of operating floors increases.

Green technology

REGENERATIVE INVERTER

Using revolutionary green technology to recycle power that would otherwise be wasted, regenerative inverters capture energy generated during elevator operation to save up to 60% of energy.

LOWATT

LOWATT is an eco-friendly regenerative inverter that efficiently captures excess energy generated during elevator operation. When the elevator car ascends while lighter than the counterweight, or descends while heavier than the counterweight, surplus power is produced. Instead of being wasted as heat, this regenerated energy is redirected through the inverter for reuse elsewhere in the building. By recycling energy that would otherwise be lost, LOWATT reduces overall power consumption, lowers operating costs, and supports sustainable building management.

The first elevator in Korea to earn "Class A" energy efficiency certification (from Germany)

Hyundai Elevator acquired Class A certification from TÜV SÜD, a German testing and certification institution, meeting energy efficiency standards established by Verein Deutscher Ingenieure (VDI), an engineering association of Germany.

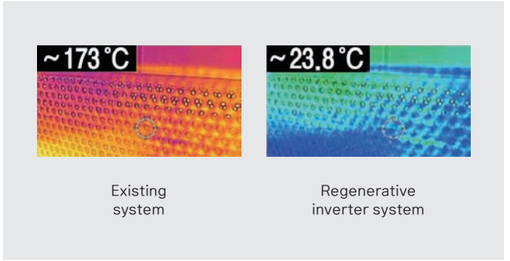


Benefits of LOWATT

A regenerative system captures and reuses power from elevator weight imbalances, improving energy efficiency.

Machine room heat reduction

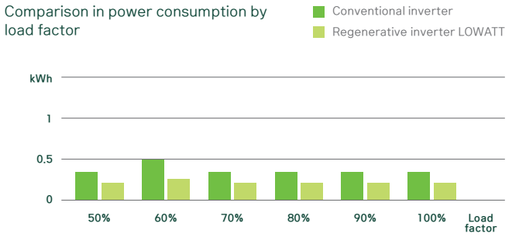
Machine room heat is greatly reduced by recycling power generated during elevator operation.



Existing system | Regenerative inverter system

Up to 60% energy savings (PWM system)

The PWM system saves up to 60% energy, with greater savings as occupancy increases.



PRODUCTS

HYUNDAI ELEVATOR PRODUCES ONLY
THE HIGHEST-QUALITY PRODUCTS, WHOSE RELIABILITY AND
SAFETY ARE VERIFIED THROUGH ONE OF THE WORLD'S MOST
ADVANCED TEST TOWERS. IT DELIVERS NEW MOBILITY
EXPERIENCES BY COMBINING INNOVATIVE TECHNOLOGIES
SUCH AS CLEAN MOVING SOLUTION AND DESTINATION SELECTION
SYSTEM (DSS) WITH DESIGNS THAT REFLECT GLOBAL TRENDS.



ELEVATORS

Hyundai Elevator offers its customers a variety of customized solutions with a diverse range of products based on elevator usage and building design. Hyundai Elevator's products offer unique ride comfort, outstanding safety performance and efficient use of space during construction, and maximize the value of the buildings with their sophisticated designs and convenience features.

MR [Machine Room]		
THE EL	Ultra-high	· 5-21 m/sec · 1,150-2,000 kg
THE EL Duo		
i-XEL	High	· 3-4 m/sec · 900-2,000 kg
LUXEN / LUXEN-1	Low	· 1-3 m/sec · 450-2,000 kg

MRL [Machine Room Less]		
N:EX / N:EX-1	Belt	· 0.15-1.75 m/sec · 250-1,150 kg
YZER / YZER-1	Rope	· 1-2 m/sec · 400-2,500 kg

ULTRA-HIGH SPEED ELEVATORS

THE EL

The EL is the world's first carbon fiber belt-type elevator that moves at a speed of 1,260 meters per minute. The ultra-high-speed 9-phase synchronous motor, the NVH system that minimizes noise and vibration and the high-performance braking system provide a comfortable ride and stability worthy of a world-class ultra-high-speed elevator.

THE EL Duo

THE EL Duo is a double-deck elevator, vertically connecting two elevator units via one hoistway and provides services to two floors simultaneously. By applying floor height variable technology, THE EL Duo can be installed in buildings with floors of different heights, such as the lobby or sky lounge, and boasts a rapid speed of 600 meters per minute.



HIGH SPEED ELEVATORS

i-XEL

The electro-permanent magnetic traction machine and the high-precision control system developed by Hyundai Elevator provide outstanding ride comfort and stability. i-XEL offers an optimized level of satisfaction with its dramatic energy savings, modern door design, and contemporary car interior.



MID-TO-LOW SPEED ELEVATORS

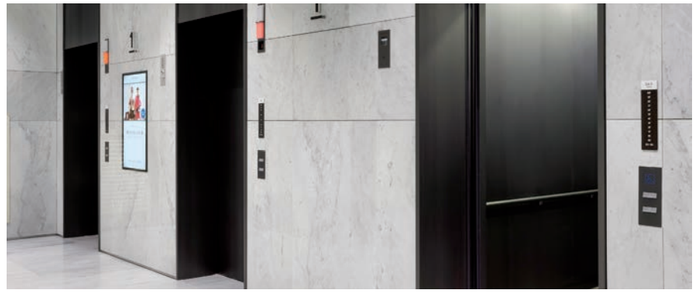
N:EX / N:EX-1

N:EX is the most advanced H-belt-driven elevator with next-generation eco-friendly technologies that enhance silence, operation efficiency, and space utilization.



LUXEN / LUXEN-1

LUXEN is Hyundai Elevator's leading eco-friendly, mid-to-low speed gearless elevator model equipped with a regenerative inverter that provides a high-level of ride comfort and energy savings.



YZER / YZER-1

YZER is Hyundai Elevator's first elevator model that requires no machine room. It improves space utilization in buildings and alleviates restrictions on hoistway layout and skyline design.



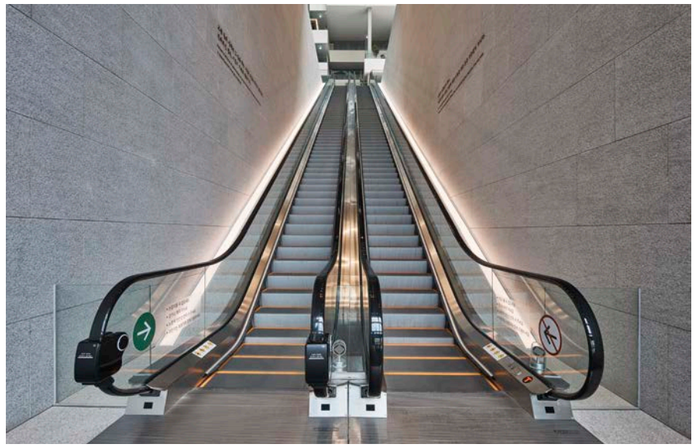
ESCALATORS / MOVING WALKS

A safe and comfortable ride and affordable maintenance are essential elements for escalators and moving walks that connect spaces and help people move comfortably. Hyundai Elevator facilitates relaxed and efficient movement within buildings with technology and designs that match the purpose and character of the building.

Escalators

Escalators that incorporate Hyundai Elevator's know-how enable open communication between spaces and people through efficient design and construction tailored to specific architectural spaces. Sophisticated and compact designs, as well as reliable performance, improve building utilization and value.



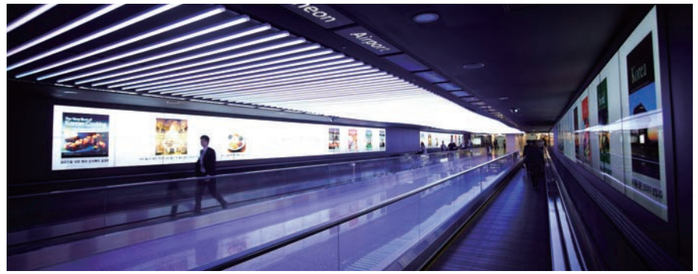


Moving walks

The safety and reliability of Hyundai Elevator's moving walks has already been proven in large-scale transportation infrastructure such as international airports and subway stations. Hyundai Elevator's moving walks provide better ride comfort with a noise-free design suitable for quiet spaces, and the company offers a wide range of moving walk products, such as horizontal and inclined types.







AUTO PARKING SYSTEMS

The cutting-edge technology and know-how of Korea's elevator industry leader is also available through its parking systems. Offering a high level of convenience and space efficiency, minimal maintenance costs, and highquality services, Hyundai Elevator's parking systems not only awe users and building administrators, but also contribute to the appreciation of property values.



Elevator type

Up to 70 parking spaces can be built on a footprint large enough for 3 cars. Energy efficient system with low vibration and noise reduces energy costs and is easy to operate and maintain.



Cart type

The multi-dimensional, auto parking system accelerates vehicle parking and retrieval by operating lifts and carts vertically and horizontally at the same time. It maximizes parking capacity of limited underground space by allowing linear or parallel expansion of parking rows.



HIP

(Hyundai Integrated Parking System)

The Hyundai Integrated Parking System (HIP) is a large scale, multi-dimensional parking system that can park or retrieve cars consecutively in 38 seconds. It is Korea's fastest parking system that uses a palletless conveyor system that can be installed underneath buildings or roads. This state-of-the-art system can accommodate hundreds of cars and be scaled up through multi-layering and parallelization to create safe and convenient, large-scale facilities.



CABIN DESIGNS

Hyundai Elevator offers customized design solutions tailored to diverse customer needs and environments. Balancing functionality and aesthetics, designs maximize passenger convenience and safety in harmony with the building's concept.

A variety of choices

Diverse design solutions meet customers' needs.



Bronze



Gold



Bronze + VCM

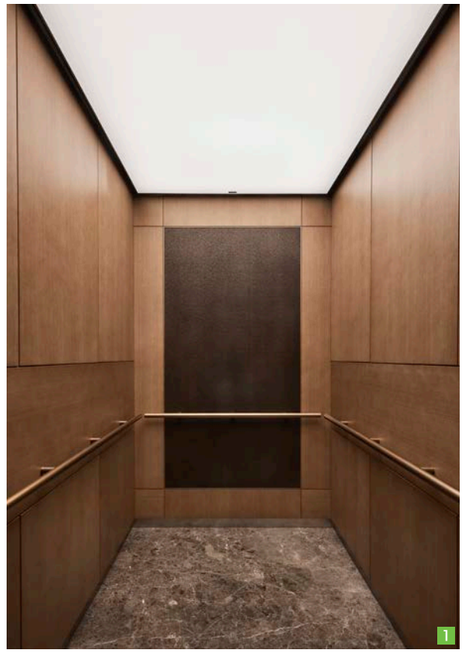


Black + VCM

Customized designs

Tailored solutions satisfy customer requirements.

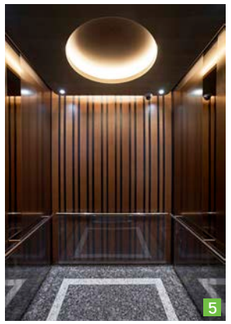
1. HD Hyundai Global
2. Naver 1784
3. Park Hyatt Busan
4. Daishin 343
5. The W
6. Y-CITY













CLEAN MOVING SOLUTIONS

Hyundai Elevator is helping to create cleaner and safer spaces by reducing the need for people to come into contact with surfaces whenever they use elevators, escalators, and moving walks. Thanks to Hyundai Elevator's Clean Moving Solutions, people can now go wherever they want without any need for skin-to-surface contact.

Motion call buttons

The motion recognition sensor recognizes the vertical movement of the human hand and calls an elevator. This solution alleviates concerns over bacterial or viral infection from direct contact.



Touchless buttons

Touchless buttons are especially suitable for places like hospitals, because they perform so well at preventing the spread of viruses and infections. They can be used in conjunction with both the inside and the hallway buttons of an elevator, and work much better than antibacterial films.



Foot buttons

Passengers whose hands are full or who cannot use their hands can call elevators using a sensor built into the lower part of hall button panels without needing to use their hands.



Smart indicators

Smart indicators display a wide range of information such as the floor, power mode, and CCTV operation, and maintain a pleasant indoor environment with built-in ultrasonic pest repellents and ozone-free negative ion air purifiers.



Antiviral handrails

Certified antiviral materials are applied to handrails that are easily exposed to viruses, blocking 99% of germs and effectively preventing the spread of germs and infections.



Air Touch

Passengers can register a desired floor and call an elevator without touching a button, using a position recognition sensor with advanced IR sensing technology. This system enhances public health as it prevents the spread of germs and infections.



DESTINATION SELECTION SYSTEM (DSS)

The Destination Selection System (DSS) assigns passengers with the same destination to the same elevator, reducing waiting time and unnecessary trips. By minimizing stops on each floor, it enables faster travel, improves operational efficiency by 20-30%, and reduces energy consumption.

Performance comparison between Conventional Group Systems and the Destination Selection System (DSS)

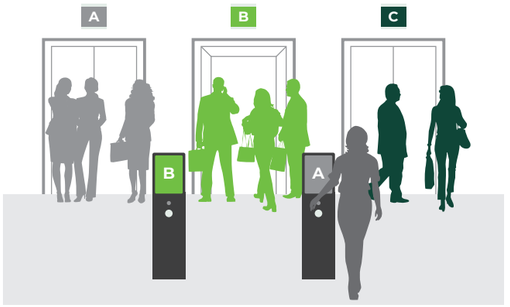
ULTRA-HIGH SPEED AND EFFICIENCY

Dispatches the elevator that can reach a floor the fastest when a call button is pressed.



DESTINATION SELECTION SYSTEM (DSS)

Calculates the waiting time, travel time, and the number of passengers when a destination floor is registered and optimizes the dispatch of elevators.



Key advantages

Smarter control

DSS sorts passengers according to destination floors to reduce the number of stops, waiting time, and boarding time.

Building security integration

IoT sensors can be linked to the building's security system to block unauthorized entry and ensure tenants' secure and efficient movement.

Hygienic elevator calling

With the electrostatic contactless touch screen, destination floors can be entered without direct contact with the surface of elevator panels (* 10.1" touchless, capacitive LCD touch screen).

ACHIEVEMENTS

HYUNDAI ELEVATOR HAS SUPPLIED PRODUCTS
AND SERVICES TO A WIDE RANGE OF
BUILDINGS—FROM LANDMARK TOWERS AND PUBLIC FACILITIES
TO MIXED-USE COMMERCIAL SPACES AND
URBAN INFRASTRUCTURE—SOLIDIFYING ITS REPUTATION
AND VALUE BY DELIVERING DIFFERENTIATED
MOBILITY EXPERIENCES WORLDWIDE.



40+
Countries

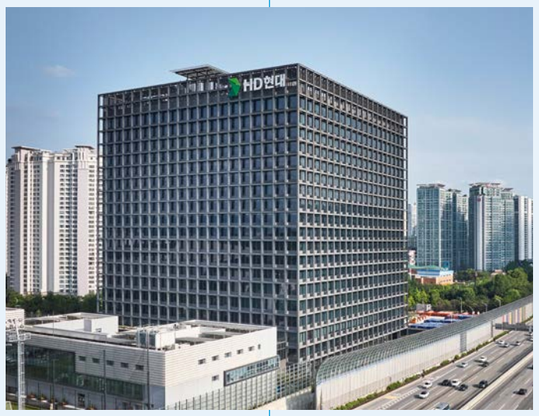
GLOBAL PROJECT PRESENCE

Hyundai Elevator has partnered with landmark buildings in over 40 countries, building trust and value worldwide.

SIGNATURE PROJECTS 1

Domestic

With leading technology that moves the world, Hyundai Elevator provides its products and services to various landmark buildings in Korea to increase buildings value and enhance the status of the company.



HD Hyundai R&D Center (20F)

3 units x 240m/min elevators,
24 units x 180m/min elevators and
1 unit x 120m/min elevator
(34 in total), 4 escalators



NAVER 1784 (28F)

10 units x 300m/min elevators,
10 units x 240m/min elevators
(20 in total)

The world's first robot-friendly building, Features a 'Roboport', an elevator dedicated to robots, Linked Rookie, the self-driving service robot, and passenger elevators



Park Hyatt Busan

2 units x 360m/min elevators,
3 units x 240m/min elevators
and 2 units x 210m/min
elevators (11 in total)



Seoul Dragon City

23 units x 240m/min elevators,
4 units x 210m/min elevators
(33 in total), 10 escalators



Paradise City Hotel

11 units x 150m/min
elevators (73 in total),
20 escalators,
5 dumbwaiters



Busan International Finance Center (63F)

2 units x 600m/min elevators
(the fastest in Korea),
3 units x 540m/min elevators,
8 units x 480m/min elevators
and 6 units x 360m/min
elevators (32 in total),
14 escalators



Dongdaegu Complex Transfer Center

27 units x 105m/min elevators
(36 in total), 99 escalators,
8 moving walks



Lotte World Mall

45 units x 105m/min elevators
(60 in total)



Hillstate Songdo The Terrace

62 units x 210m/min elevators
(69 in total) and 3 escalators
(including Korea's first Jump
Elevators)



LG U+ Yongsan Office Building

2 units x 240m/min double deck
elevators (the first in Korea),
4 units x 240m/min elevators and
2 units x 210m/min elevators
(10 in total), 2 escalators

SIGNATURE PROJECTS 2

Overseas

The passion of becoming the best in the world has led to the success of numerous Hyundai Elevator projects in various regions around the world. Hyundai Elevator's global business prospects are expected to continue to expand thanks to its rich experience and know-how.



Centro Simon Bolivar (54F)

VENEZUELA

Max 8 m/sec
Total 22 units EL only
* Ultra-high-speed lift project



Lerthai Center

CHINA

4 units x 360m/min elevators,
4 units x 210m/min elevators
(8 in total)



Yangon Hotel

MYANMAR

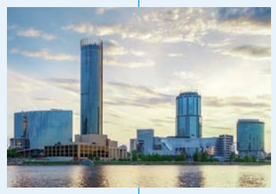
5 units x 180m/min elevators,
2 units x 150m/min elevators and
6 units x 120m/min (20 in total)



F & F Tower (53F)

PANAMA

5 units x 240m/min elevators



Iset Tower

RUSSIA

2 units x 360m/min elevators,
1 unit x 210m/min elevator
(6 in total)



Space Residency (Vistana Tropika)

MALAYSIA

6 units x 300m/min elevators,
4 units x 240m/min elevators
and 3 units x 210m/min
elevators (23 in total),
2 escalators



Metropol Istanbul (71F)

TÜRKIYE

6 units x 360m/min elevators,
1 unit x 300m/min elevator
and 26 units x 240m/min
(93 in total), 26 escalators



Varyap Meridian

TÜRKIYE

14 units x 240m/min elevators,
10 units x 210m/min elevators
(71 in total)



Inanlar Terrace Lotus

TÜRKIYE

5 units x 150m/min elevators
(12 in total), 4 escalators



Gallery West

INDONESIA

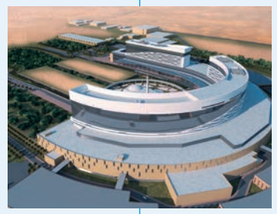
4 units x 240m/min elevators
(23 in total), 12 escalators



IBC Hotel

UZBEKISTAN

10 units x 150m/min elevators
(19 in total)



Security Forces Medical City

SAUDI ARABIA

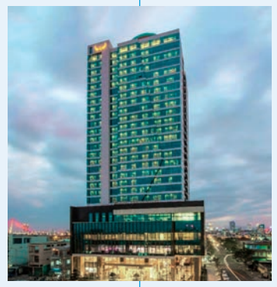
21 units x 150m/min elevators,
38 units x 105m/min elevators
(184 in total), 24 escalators



Hanoi Landmark Tower

VIETNAM

2 units x 240m/min elevators
(29 in total), 27 escalators



Muong Thanh Song Han Hotel

VIETNAM

18 units x 180m/min elevators,
6 escalators

SIGNATURE PROJECTS 3

Remodeling, Escalators, Moving Walks and Special Elevators

From demanding remodeling and ergonomically curved escalators, to flexible moving walks that boast organic connectivity and special elevators, Hyundai Elevator has been providing optimal moving solutions to match its customers' operating environments.

Remodeling



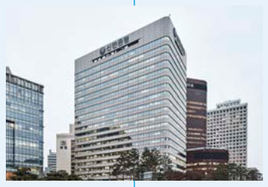
Grand Hyatt Seoul

4 units x 240m/min elevators



Jongno Tower

3 units x 210m/min elevators,
3 units x 180m/min elevators,
2 units x 120m/min elevators
and 1 unit x 60m/min elevator
(9 in total)



Headquarters of Shinhan Bank

8 units x 210m/min elevators,
1 unit x 150m/min elevator
and 1 unit x 105m/min
elevator (10 in total)



Main Building of HANA Financial Investment

8 units x 240m/min elevators,
1 unit x 120m/min eleva-
tor and 2 units x 90m/min
elevators
(11 in total)



Main Building of Seoul Metropolitan Government Complex

10 units x 210m/min
elevators

Escalators, Moving Walks and Special Elevators



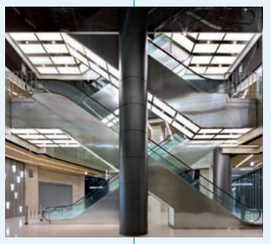
Incheon International Airport

22 escalators, 40 moving walks



Hyundai Premium Outlets SPACE 1

38 escalators



Garden 5

78 escalators



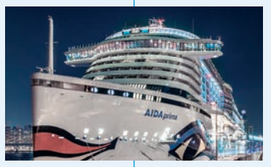
Hyundai Department Pangyo Store

82 escalators



Dongdaegu Complex Transfer Center

99 escalators,
8 moving walks



AIDA Cruise (PRIMA/PERIA)

66 marine elevators

MOBILITY TO POSSIBILITY

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Connecting people and spaces, and bridging the environment and the future, Hyundai Elevator's spirit of challenge and innovation never stops. With ideas and technology that transcend boundaries, the company continues to transform everyday life in remarkable ways.

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Designed by Killing Mario

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