





# Elevate to The Exclusive Leader

Hyundai Elevator

The sole elevator is for a building  
of unrivaled height.

THE EL, an ultra high speed elevator that enables  
you to experience the most advanced technologies and  
class, achieves previously unimagined heights and  
unfolds a new reality before your eyes.

THE EL, realizing more unique greater value,  
offers you new technologies,  
for the environment and safety.

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BRAND IDENTITY  
THE EL : The Exclusive Leader

SPEED  
300mpm ~ 1080mpm

RISE  
600m (More than 150 floors)

The overwhelming performance of THE EL that is proven by its "world's first, world's best" records.

THE EL embodies the meanings 'the only' and 'unrivaled', and aims to become the only ultra high speed elevator in its class.



# The Exclusive Leader



Your expectations  
will be elevated  
**AFTER** experiencing  
**THE EL**

**A Product of Cutting-Edge, Smart Operation, Green Technology**

From the world's most advanced technologies  
to a smart operation system and green technologies.  
THE EL is the best solution for enhancing the value of the  
ultra high rise building that you are planning and designing.

An encounter with THE EL will substantially raise your  
standard for ultra high speed elevators.

Core  
Technology







# PRESTIGE TECHNOLOGY

The world's highest speed and sophisticated technologies make your imagination come true.  
Cutting-edge technology only for you, THE EL.



PRESTIGE TECHNOLOGY

## 01



### The fastest speed in the world

#### Ultra high speed, nine-phase synchronous motor

THE EL has the heart of a fault tolerance design, a nine-phase multi-motor that is a three sets combination of three-phase synchronous motors. Even if there is a problem with some parts, the elevator remains fully operational, improving safety and service.

#### Noise, Vibration, Harshness (N.V.H) technology

The streamlined capsule structure, which minimizes air resistance, and the vibration control system remove even the slightest noise and vibration, offering a comfortable, smooth riding experience.

#### Atmospheric pressure controller

By controlling atmospheric pressure fluctuations caused by altitude change, the controller minimizes ringing in the ears. This enables a comfortable riding experience even inside an ultra high rise building.

#### The Hyundai Asan Tower, an ultra high speed elevator test tower

The Hyundai Asan Tower has the world's fastest elevator, with a speed of 18mps (1,080mpm). Here, the safety and reliability of ultra high speed elevators are proven in an environment that is most similar to an ultra high rise building. The Hyundai Asan Tower is opening a new horizon in the development of the world's top-notch elevator systems.

*Aerodynamic*  
DESIGN

600<sup>RISE</sup>m **9** 3-phase motor x 3Set  
MULTI  
MOTOR

World Best  
Speed **1,080**mpm



# SMART TECHNOLOGY

All spaces within your building are pleasant and convenient, but the elevator will be remembered as being much more.

THE EL, offering smart technologies.



*Intelligent Building System* Cutting-edge security and management system

*iGC-3000* GROUP CONTROL SYSTEM

Reduces waiting time and energy consumption *Destination* SELECTING SYSTEM

SMART TECHNOLOGY

# 02



## The next generation of intelligent operating system

### IBS (Intelligent Building System)

IBS creates a smart spatial culture in connection with the building's security and management system. You can receive high-quality services based on IT convergence technologies within a top-class building.

### Destination selecting system (Destination floor reservation system)

This is a system where you register your destination floor at a landing and the most appropriate elevator is automatically serviced. This enables maximum operational efficiency.

### Artificial intelligence-based group control system

Artificial intelligence-based analysis of traffic volume enables estimation of future traffic volume and patterns and necessary preparations. Optimal group management is allowed, leading to efficient control of elevator operations.

### Remote monitoring system

Remote monitoring of the elevator operation status all across the nation 24/7 prevents breakdowns and accidents.





# GREEN TECHNOLOGY

Inside THE EL, you are able to concentrate on your business only without any doubt in environment or energy. THE EL, already made with green technology.



GREEN TECHNOLOGY

## 03



### “A” class Energy Efficiency

First in the world to receive a grade of A from Tüv, German Institute

Energy efficiency rating (VDI 4707 Part1) involves giving international certification after assessing an elevator’s operation time, energy consumption, and average operation distance. THE EL became the first in the world to receive the A class (the best-in-class system) in the ultra high speed elevator (600mpm) category.

#### Energy recycling inverter

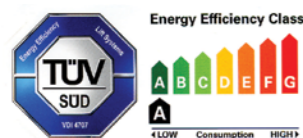
THE EL has a energy recycling inverter, which reuses energy that is generated during operation, resulting in increased energy efficiency of up to 77.5%. There is no charging or braking resistance area, which minimizes the emission of carbon. THE EL features leading green technology.

#### Ultra lightweight, ultra slim green technology

The permanent magnet synchronous motor of THE EL has an ultra slim and lightweight design, resulting in reduced machine room construction costs. It also consumes 25% less energy compared to induction motors.

#### Green process

Hyundai Elevator develops environmental-friendly elevators for customer satisfaction through a design and material development process that reduces environmental pollution. Hyundai Elevator is continually developing low electricity-consuming products and reducing the amount of materials used in the production process in line with customers’ ‘well-being’ demands, thereby taking the lead in environment-friendly technologies.



25% Lower energy consumption

Received “A” class energy efficiency certificate of VDI 4707

30% Lower electricity use

# A CLASS

77.5% RECYCLE ENERGY Energy use improved by reuse of electricity



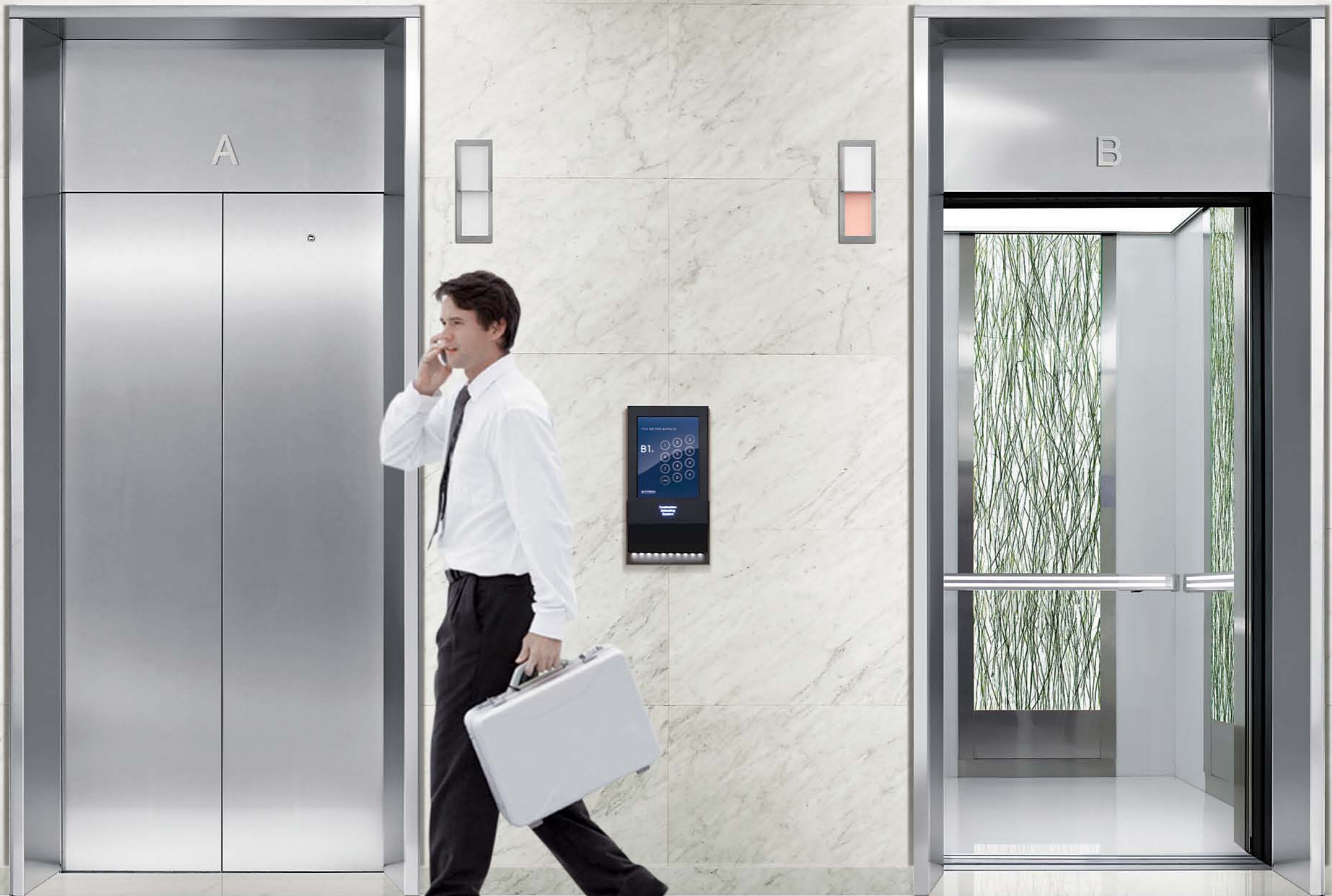


### ENTRANCE

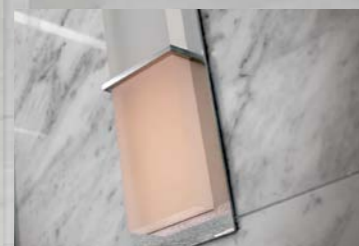
- Landing Door** STS Bead Blast
- Jamb** Flush Type, STS Bead Blast  
LED Lighting  
(Arrival Announcement System)
- Hall Button** Destination Selecting System  
(Box Type)
- Hall Lantern** HLS-750  
STS Bead Blast  
Acryl Lens, LED Lighting

### CAR DESIGN

- Ceiling** CD-499C  
(Barrisol, LED Lighting,  
STS Mirror 3S Vibration)
- Car Wall** Marble (THASSOS)  
3 Form Bear Grass (SEA WEED/19T)  
LED Lighting System  
STS Mirror 3S Vibration
- Car Door** STS Mirror 3S Vibration
- Operating Panel** Swing Panel  
Micro Push Button
- Handrail** STS Bead Blast, LED Lighting
- Flooring** Marble (THASSOS)  
STS Hairline (5T)



Information Display System (Car Wall)



Hall Lantern



Arrival Announcement System



Ceiling



Handrail



Operating Panel Button



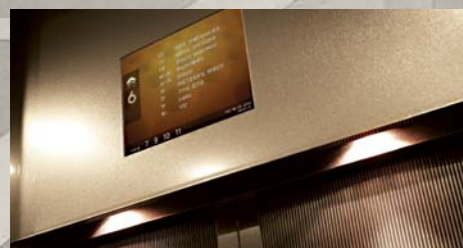


### ENTRANCE

- Landing Door** Bonded Metal (Delta/Bronze)  
Ti-Bronze 3S Vibration  
High Glossy Coating
- Jamb** 200TYPE, Down Light  
Ti-Bronze 3S Vibration  
High Glossy Coating
- Hall Button** Destination Selecting  
System (Box Type)
- Hall Lantern** STS Bead Blast  
Half Mirror Acryl  
LED Lighting

### CAR DESIGN

- Ceiling** CD-529C  
(Ti-Bronze Bead Blast,  
LED Indirect Lighting)
- Car Wall** Marble (BROWNTINI)  
3 Form Bear Grass (NIA)  
LED Lighting
- Car Door** 3 Form Bear Grass (NIA)  
Ti-Bronze Bead Blast
- Operating Panel** Swing Panel  
Micro Push Button
- Handrail** Ti-Bronze Hairline 1 Pipe
- Flooring** Marble  
(BOTTICINO, BROWNTINI)



Information Display System & Lighting



Destination Selecting System



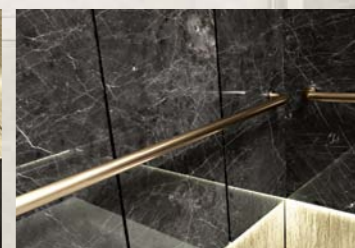
Hall Lantern



Information Display System & Car Doors



Ceiling



Handrail





Your decision  
will be elevated  
**AFTER** experiencing  
**THE EL**

The high-class technologies of THE EL enhance buildings' value. The smart technology that enables outstanding operational performance and the green technology that considers the environment while ensuring efficiency is provided to you with great satisfaction.

THE EL offers everything demanded for ultra high speed elevators.

Experiencing the state-of-the-art technologies featured by THE EL will enable you to make a quicker, clearer decision.

Core  
Advantage





1080mpm

World's top, maximum operation speed: 1,080m

600mpm

Advanced double deck system  
maximum operation speed: 600mpm

35 X2

THE EL 6000 Maximum number of passengers : 70

Fault Tolerance Drive & 9 Phase Motor

Energy recycling inverter that offers  
the world's highest efficiency

Intelligent Building System based on IT convergence technologies

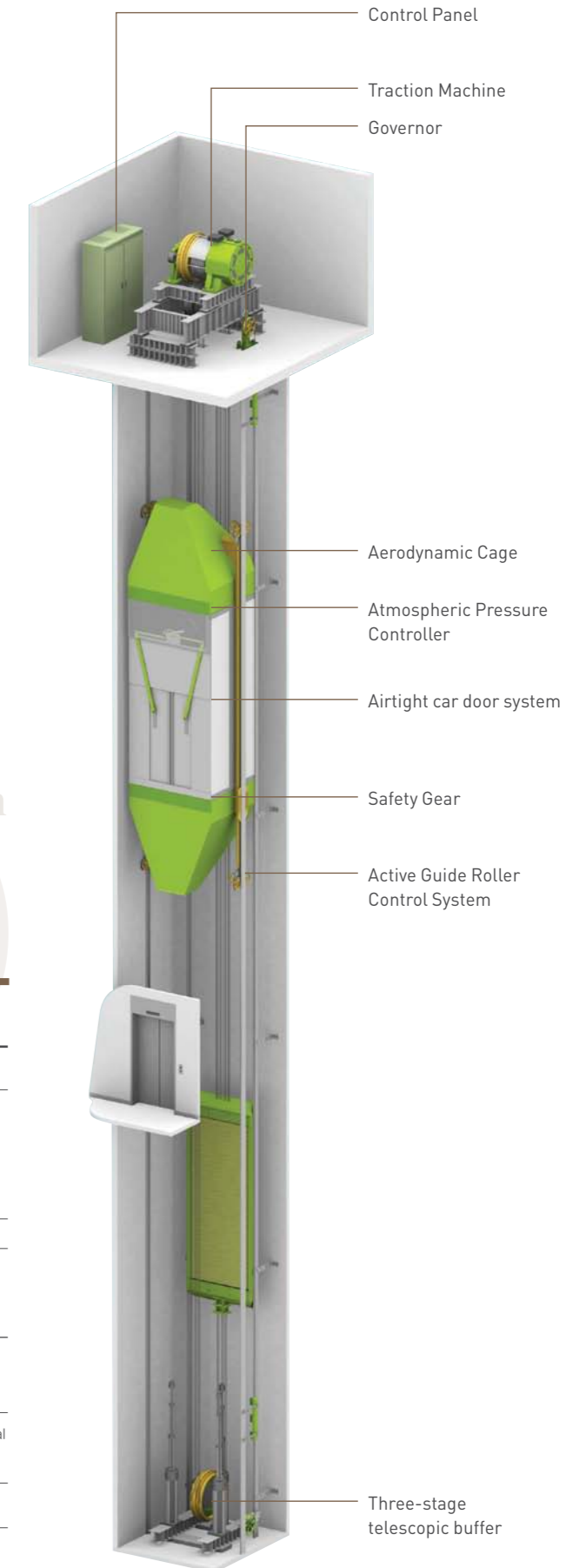
Noise, Vibration, Harshness (N.V.H) technology

Ultra precision atmospheric pressure controller

Maximum operation distance : 600m More than 150 floors



THE EL,  
an ultra high speed elevator  
that was created with the world's  
advanced technologies  
These technologies result  
in core advantages of THE EL,  
providing you with greater value.



1080 mpm

Category	Name	Function
Machine structure	Ultra high speed nine-phase synchronous motor	Fault tolerance function
	Airtight car door system	Low noise, low vibration
N.V.H system	High-performance roller guide shoe	
	Vibration control system	
	Streamlined capsule cage	
Safety device	Atmospheric pressure controller	Minimization of ringing in the ears
	Emergency stop device	Excellent braking performance and shock absorber
	Fly ball governor	
Operation system	Three-stage telescopic buffer	
	IBS support system	Smart IT system (Bi-directional video telephony, mobile call, speed gate connection, etc.)
	Destination Selecting System	Outstanding enhancement of operational efficiency
	Artificial intelligence-based group control system	
	Remote monitoring and video telephony system	Prevention of crime and emergency situations
Advanced double deck system	Outstanding enhancement of operational efficiency	

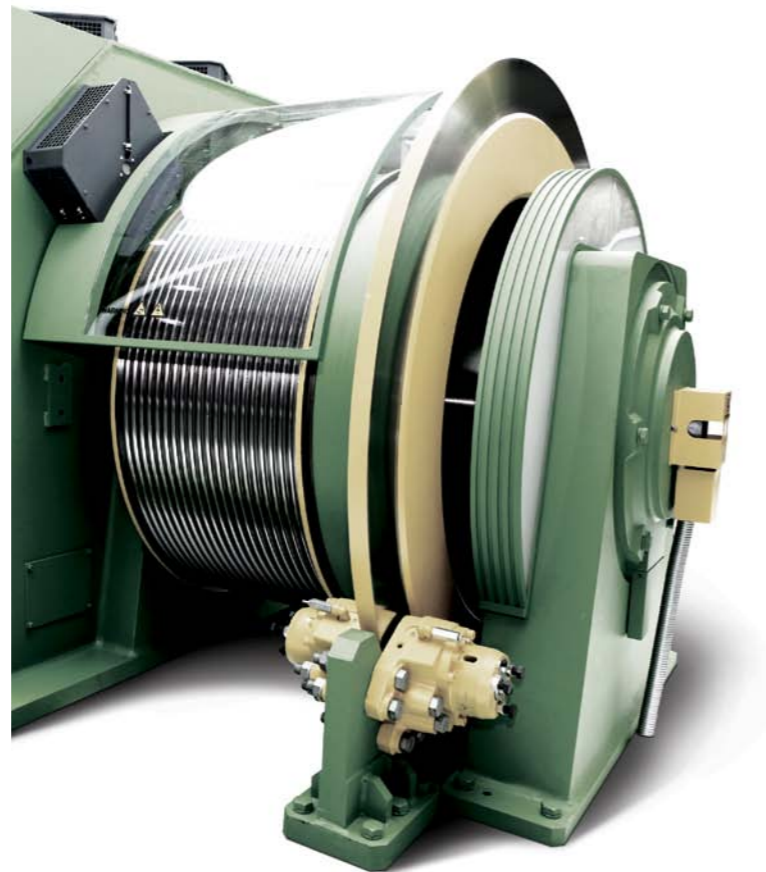




# KEY FEATURES

The ultra high speed nine-phase synchronous motor, which demonstrates the world's most outstanding traction power and is also very compact, a streamlined capsule design, and technologies that minimize noise and vibration... All the things mentioned above are in THE EL.

## TRACTION MACHINE



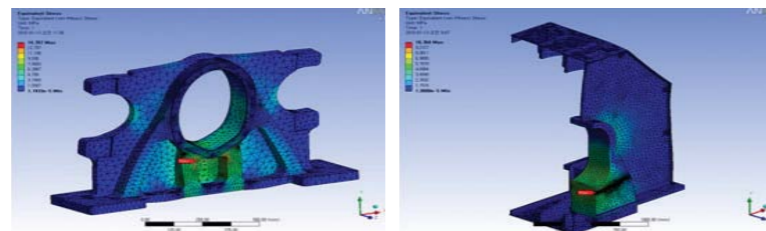
### Fault tolerance system

With a design that employs three three-phase permanent magnet synchronous motors in a single frame, the fault tolerance system is a key technology of THE EL that prevents breakdowns or out of service. Even when there is an issue with some parts, the other synchronous motors ensure normal operation.

### Electro-magnetic field simulation test

By reviewing safety based on electro-magnetic field simulation and structural analysis, an elevator that is the quietest and has the lowest level of vibration in the world was created to offer greater value.

\* Torque Ripple of no more than 0.1%, the lowest in the world



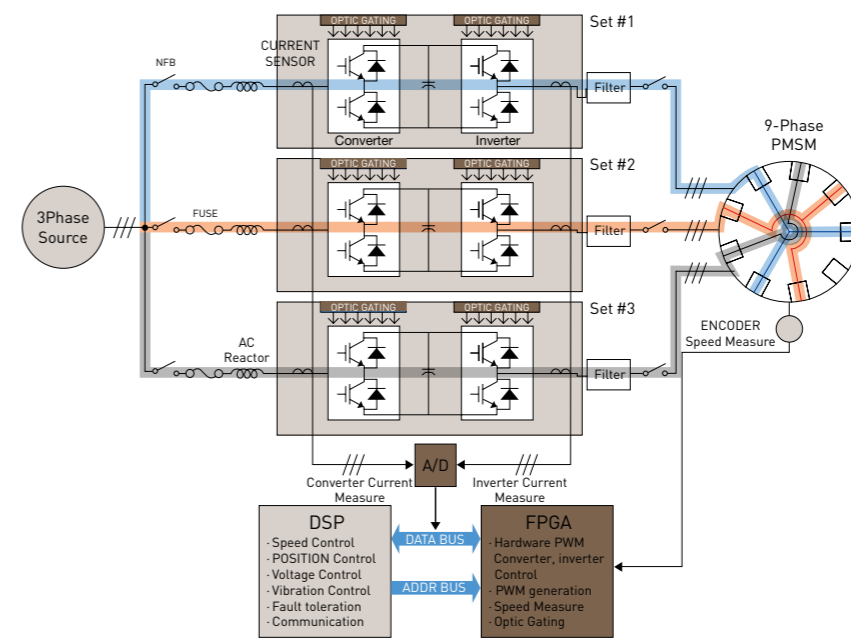
Structural analysis simulation in consideration of heavy load

### Hydraulic brake

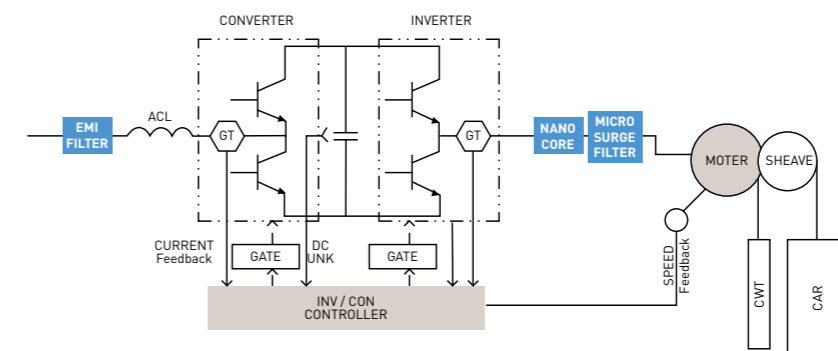
The high-capacity, hardened hydraulic brake is more compact than a magnetic brake and has excellent braking performance. This also allows for control that is as much as ten times more precise than regular braking.

	GT 350	GT 500	GT900(D/D)	GT 1000	GT 1500 (D/D)
Max. Rise (m)	200	300	400	600	600
Max. Capacity (kg)	2000	2000	3200	2000	4000
Max. Speed (mpm)	420	600	600	1080	600

**Three-phase parallel control device** The three-phase parallel control device maintains the independence of three synchronous motors and mutually connects them, and it has a highly efficient, high-capacity control board, resulting in outstanding shift quality and quietness.



- \* EMI Filter: Satisfies EMC standards (EN12015, EN12016, EN61000-4 etc)
- \* Nano Core: Minimizes Common Mode Noise
- \* Micro Surge Filter: Protects the motor, minimizes leakage current, reduces noise

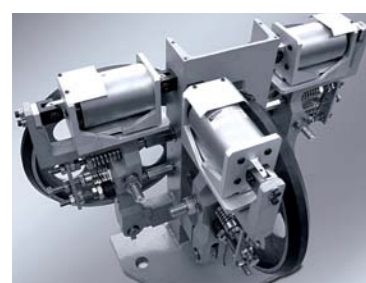






## N.V.H SYSTEM

[NOISE, VIBRATION, HARSHNESS]



**Airtight car door system** After the door closes, it slides towards the cage. This completely seals the entrance, which is the main source of noise, resulting in excellent noise insulation and atmospheric pressure control.

**High performance roller guide shoe** The high elasticity roller and lever structure minimizes the transmission of external force from the rail to the inside of the car, ensuring optimal comfort during high speed operation.

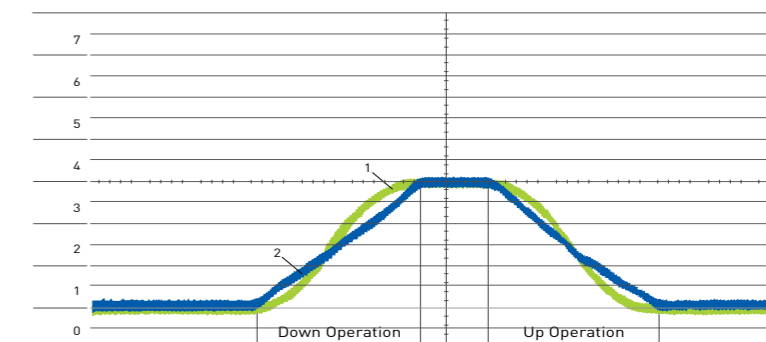
**Aerodynamic capsule cage** The aerodynamic, streamlined capsule cage that was designed through flow analysis and simulation minimizes air resistance, resulting in a smooth riding experience with little noise and vibration.

**Vibration control system** The active guide roller control system reduces the lateral vibration within the car to less than 5gal. The longitudinal vibration control system uses a motor control device and reduces vibration by 40%.

## ATMOSPHERIC PRESSURE CONTROLLER

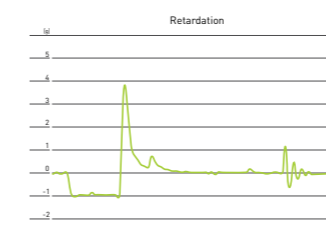
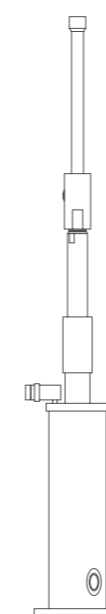
**Minimization of ringing in the ears** By controlling the induction and exhaust system within the cage, the atmospheric pressure control system reduces air pressure fluctuation to within 5% inside the car. It maintains atmospheric pressure at a certain level, preventing the pressure change that would otherwise occur during ultra high speed operation. This allows the body to more easily adapt to the change, resulting in a comfortable riding experience.

[Change in the atmospheric pressure within the cage]



1. No-controlled atmospheric pressure 2. Controlled atmospheric pressure

## MECHANICAL SAFETY COMPONENTS



**Emergency stop device** Attached to the bottom of the cage, this device grasps the guide rail like a wedge in the event of excessive speed, resulting in outstanding braking force. The special ceramic friction material can maintain frictional force even at high temperatures of more than 1000°C. It offers excellent braking performance and safety by its outstanding thermal resistance and durability.



**Fly ball governor** A fly ball governor detects abnormal speed and activates an emergency stop when necessary. Speed can be precisely measured even during ultra high speed operation, resulting in a level of safety that befits the elevator's class.



**Three-stage telescopic buffer** The three-stage telescopic buffer reduces shock to the car if the elevator were to descend below the lowest floor to the pit. The buffer can reduce the height in three stages, which improves the use of space with pit depth.





# OPERATION SYSTEM

High efficiency and security are both offered by the double deck system maximizing transport efficiency, the destination floor reservation system, the mobile call system that features the latest technologies, and the remote monitoring system.

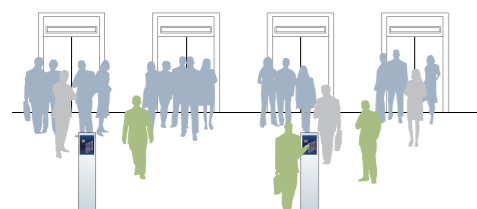
## INTELLIGENT BUILDING SYSTEM



The IBS support system connects the building's management systems and information technologies to create a smart spatial culture. It provides optimal services and systems of the kind expected of a cutting-edge building based on various information technologies, including bi-directional video telephony, mobile calling, speed gate connection and operation, handwriting enabled OPB(Operating Panel Board), and crime prevention system.

## DESTINATION SELECTING SYSTEM

(DESTINATION FLOOR RESERVATION SYSTEM)



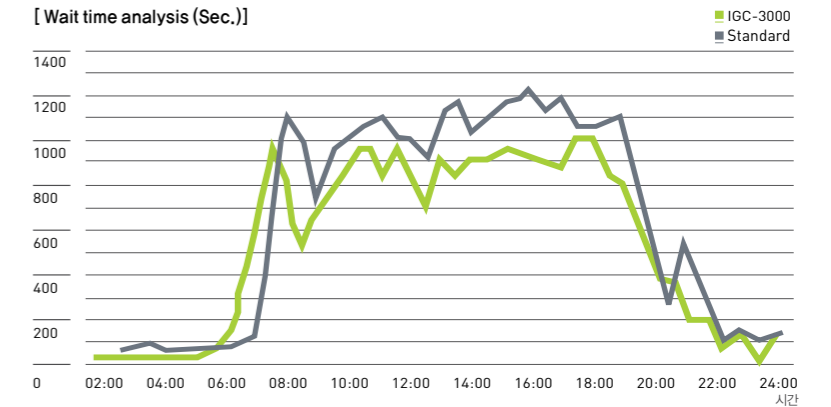
This is a system where you register a destination floor at a landing. The most appropriate elevator is automatically selected. In addition to reducing passenger wait time and unnecessary operation, it enables maximum energy saving.

## ARTIFICIAL INTELLIGENCE-BASED GROUP CONTROL SYSTEM

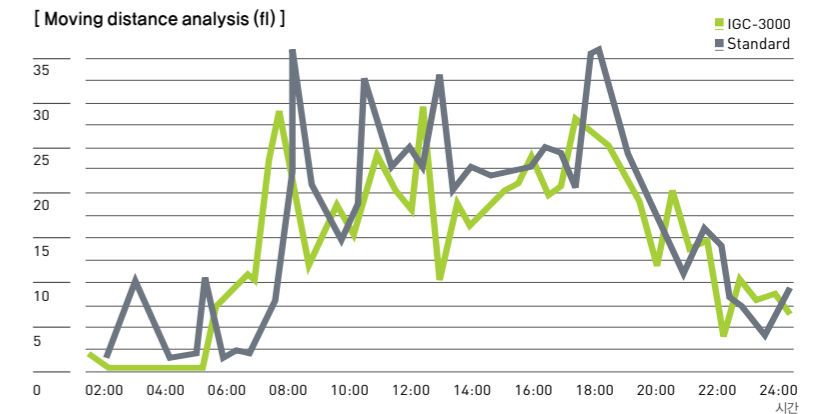
(IGC-3000)

Artificial intelligence-based analysis of elevator traffic volume allows the system to learn weekly traffic volume and patterns. This enables optimal group management and efficient operation of several elevators.

[ Wait time analysis (Sec.) ]



[ Moving distance analysis (fl) ]



## REMOTE MONITORING AND VIDEO TELEPHONY SYSTEM

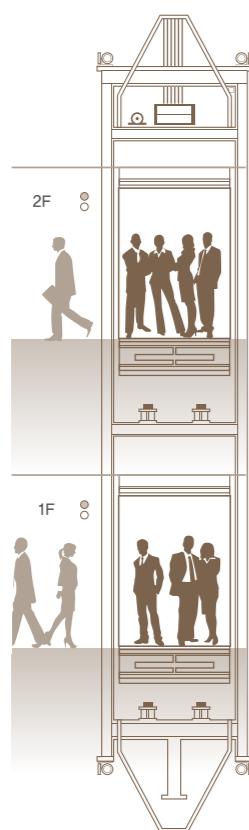
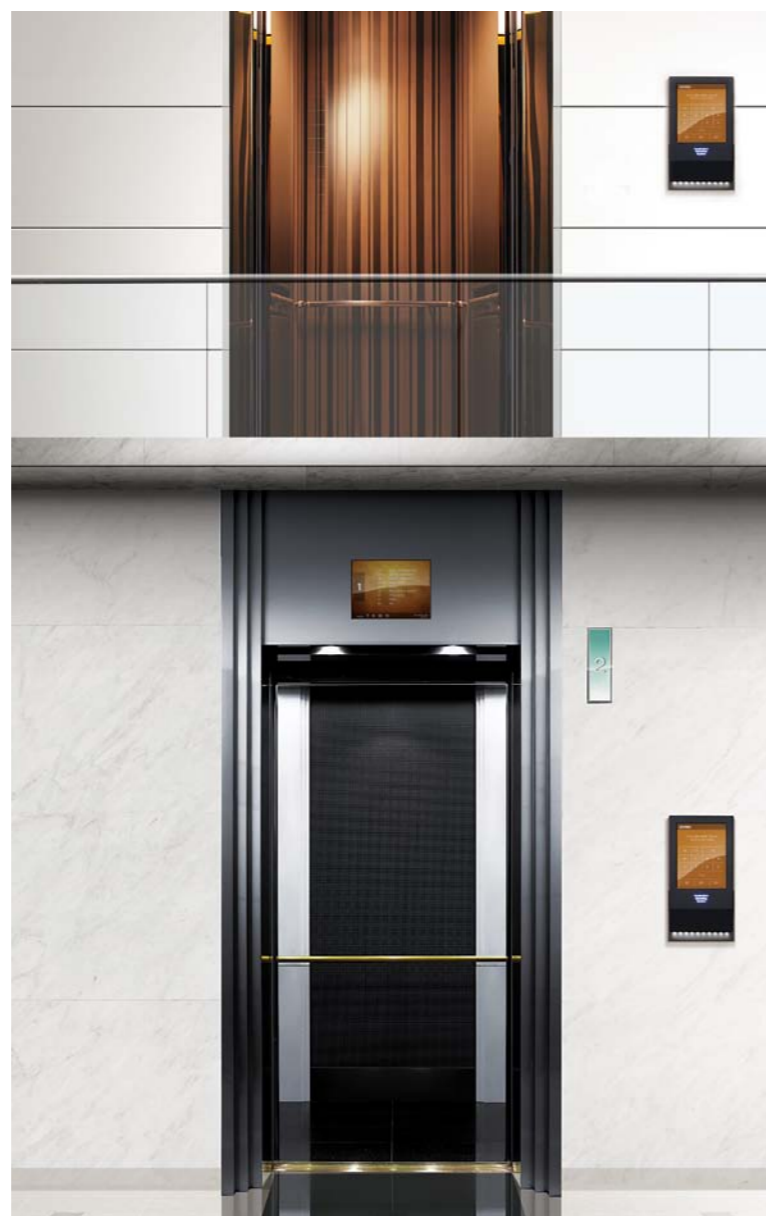
Terminals on control panels that are used for collecting and analyzing operation data allow remote real-time monitoring of the operation of elevators across the nation. This prevents breakdowns and accidents. The video telephony system is used to determine the status inside cars through the customer center. This system prevents crime and accidents caused by emergency situations.







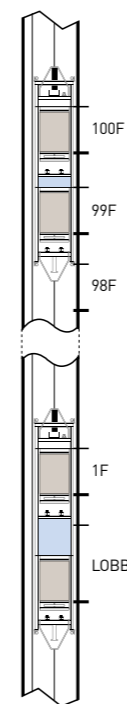
## ADVANCED DOUBLE DECK SYSTEM



**Higher transport efficiency** Two elevators connected vertically are simultaneously run to offer 1.8 times greater transport capability. Fewer hoistways mean lower construction costs and more available floor space.

**Streamlined capsule design** An aerodynamic capsule design that is applied to airplanes was adopted to minimize air resistance for a smooth riding experience with low noise and vibration.

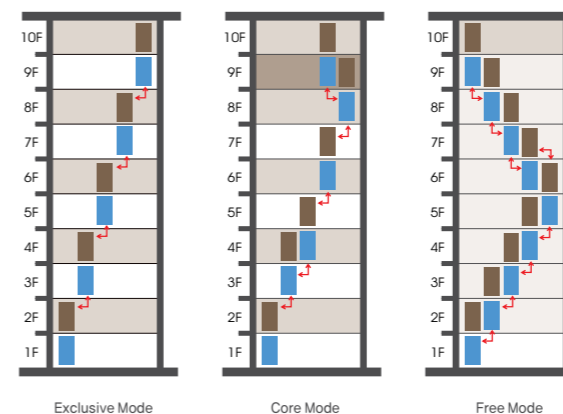
### [ Floor distance adjustable device ]



This enables the adjustment of the floor distance between the higher and lower cage. Varying floor heights are accommodated to enable more latitude in building design.

[Hyundai Asan Tower: Floor distance is adjustable up to 7m]

### [ Three modes of operation of the double deck system ]



The system can be flexibly operated in one of three modes – Exclusive, Core, Free – depending on building characteristics or traffic volume.

**Exclusive Mode** A typical approach based on odd number floor/even number floor operation

**Core Mode** Top and bottom deck service is enabled for specific floors

**Free Mode** The bottom deck services all floors except for the very top floor, while the top deck services all floors except for the very bottom floor







# PERFORMANCE

Hyundai Elevator is there for a new ultra high rise building that becomes the latest and greatest landmark in the city.  
THE EL is the only elevator that can provide top speed and performance for your ultra high rise building.



**BIFC**  
(63 FL.)  
Busan, Korea  
Speed : 600m/min (2units)  
540m/min (3units)  
480m/min (8units)  
Total : 46units



**Park-Hyatt Hotel**  
(34 FL.)  
Busan, Korea  
Speed : 360m/min (2units)  
Total : 11units



**I-SET Tower**  
(30 FL.)  
Ekaterinburg, Russia  
Speed : 360m/min(2units)  
210m/min(1units)  
Total : 6units



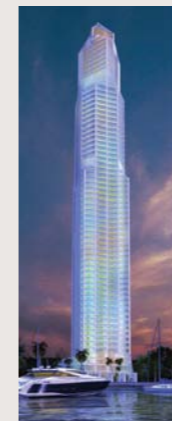
**Hilton Panama City Hotel**  
(53 FL.)  
Panama City, Panama  
Speed : 240m/min (8units)  
Total : 31units



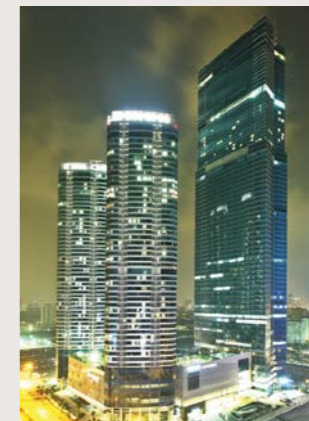
**Songdo I-Tower**  
(33 FL.)  
Incheon, Korea  
Speed : 360m/min (2units)  
Total : 18units



**Kepco Company Building**  
(31 FL.)  
Naju, Korea  
Speed : 300m/min(6units)  
240m/min(5units)  
Total : 26units



**Rivage Tower**  
(68 FL.)  
Panama City, Panama  
Speed : 240m/min (4units),  
180m/min (1units)  
Total : 5units



**Hanoi Landmark Tower**  
(72 FL.)  
Hanoi, Vietnam  
Speed : 240m/min (2units),  
210m/min (10units)  
Total : 29units



**Venezuela Centro Simon Bolivar**  
(56 FL.)  
(Government Complex)  
Caracas, Venezuela  
Speed : 480m/min (2units),  
420m/min (4units),  
360m/min (2units)  
Total : 15units



**Lerthai Center**  
(29 FL.)  
Shijiazhuang, China  
Speed : 360m/min (4units),  
210m/min (4units),  
180m/min (2units)  
Total : 10units



**Panama F&F Tower** (55 FL.)  
Panama City, Panama  
Speed : 240m/min (5units)  
Total : 5units



**Varyap Meridian Hotel**  
(58 FL.)  
Istanbul, Turkey  
Speed : 240m/min (7units),  
210m/min (5units)  
Total : 53units





## International Sales & Service Network

### AFRICA

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**MIDDLE EAST**

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E-mail : elevators@nassgroup.com

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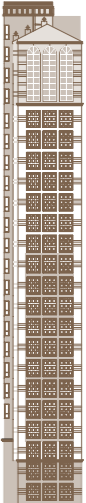



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## Prize & Certification

-  **VDI 4707**  
A class of the TÜV, German
-  **ISO 9001**  
Quality System Certification
-  **ISO 14001**  
Environmental System Certification
-  **OHSAS 18001:2007**  
Safety System Certification
-  **Excellent Service Quality**  
Certification
-  **CE Mark**
-  **GD Mark**  
Good Design Certification
-  **Korea Certification**
-  **UL mark**  
Underwriter's Laboratories Certification
-  **GMS**  
Green Management System Certification
-  **K-BPI**  
Korea Brand Power Index

## Brand Line up

	<p><b>Ultra High Speed</b> Speed 1080mpm Rise 600m</p>		<p><b>High Rise</b></p>
	<p><b>High Speed</b> Speed 240mpm Rise 200m</p>		<p><b>Mid Rise</b></p>
	<p><b>Middle-Low Speed</b> Speed 180mpm Rise 150m</p>		<p><b>Low Rise</b></p>
	<p><b>Machine Room-less</b> Speed 210mpm Rise 120m</p>		

Hyundai Elevator offers a lineup that is best for customers' various designs.