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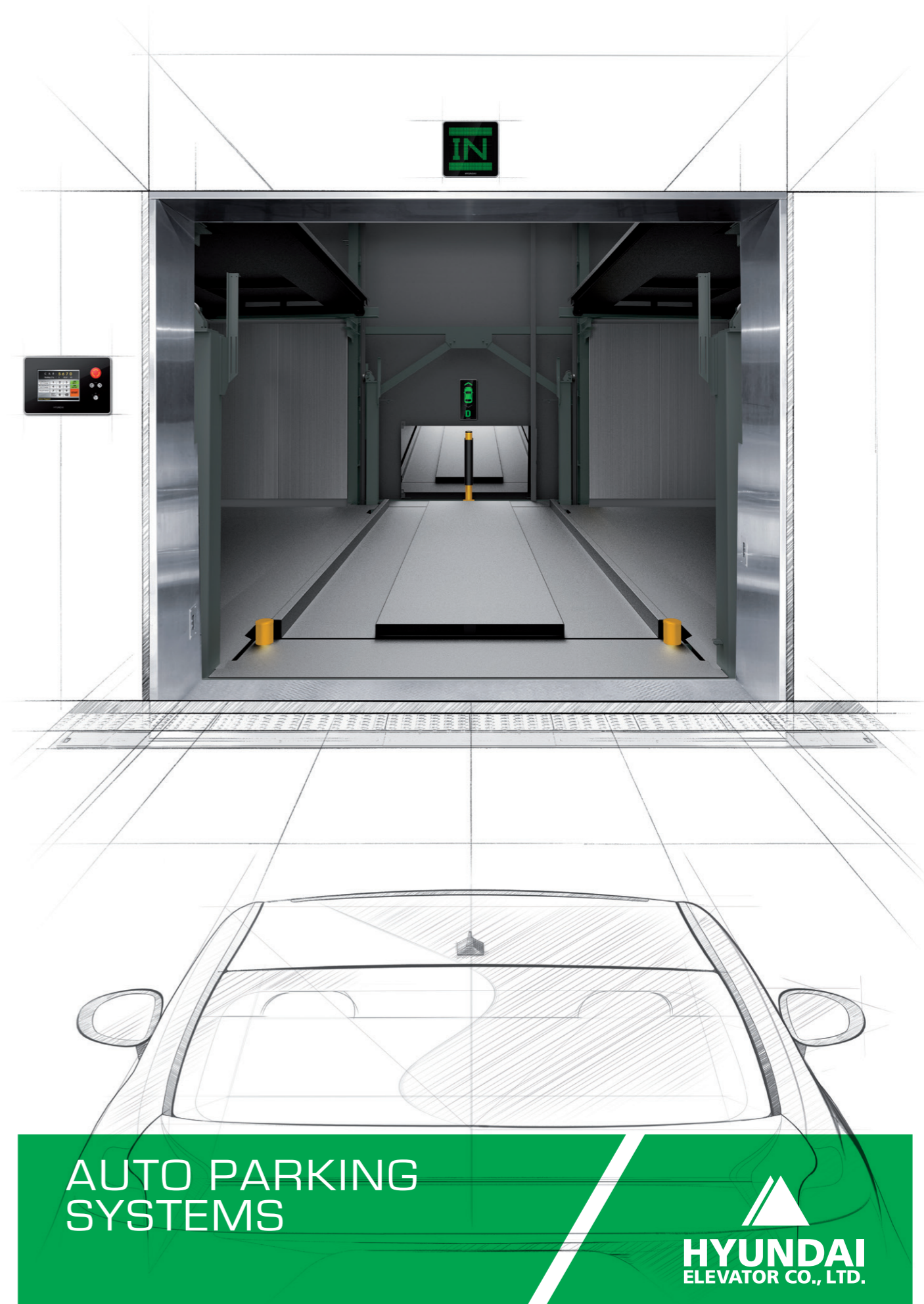
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# AUTO PARKING SYSTEMS

  
**HYUNDAI**  
ELEVATOR CO., LTD.

AUTO PARKING SYSTEMS - We reserve the right to change designs and specifications for the product development without prior notice.

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# HYUNDAI ELEVATOR AUTO PARKING SYSTEMS

**Hyundai Elevator offers state-of-the-art parking systems  
that can be optimized for any building.**

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 high-quality services, Hyundai Elevator's parking systems not only awe users and building administrators, but also contribute to the appreciation of property values.

# Why Hyundai Elevator's Auto Parking Systems?



## Speed and safety

Customized systems optimized for building use ensure quick and safe parking and retrieval of cars with minimum noise and vibration.



## Ease of operation

Simple, user-friendly operation reduces time to locate empty parking spaces or parked vehicles.



## Greater space efficiency

Up to 50% higher space efficiency versus regular parking garages, minimizing space occupancy and reducing construction costs.

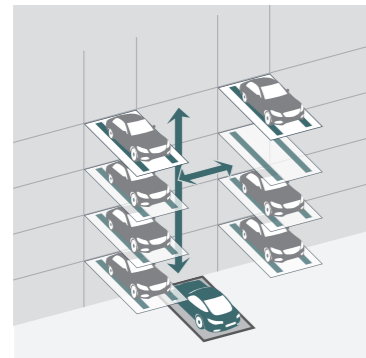


## Environmental friendliness

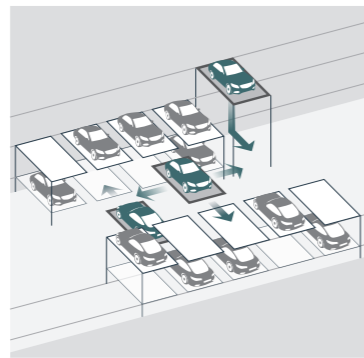
Diminished parking time reduces fuel consumption and CO<sub>2</sub> emissions.



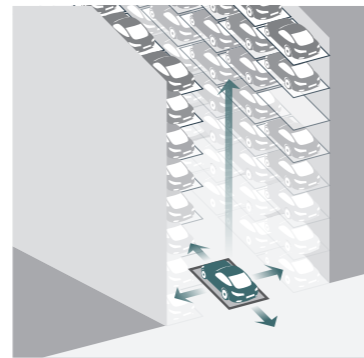
## Product Type



**Elevator Type**



**Cart Type**



**HIP (Hyundai Integrated Parking System)**

## Product Division

Type	Model	Specification	Application
Elevator Type	Independent Tower Type	Lower Entry Type AETL Turntable built-in: AETLT 09 (90° Type) AETLT 18 (180° Type) Middle Entry Type AETM Turntable built-in: AETMT 09 (90° Type) AETMT 18 (180° Type)	Buildings for small & medium scale types: - Hospitals - Office Buildings - Hotels
	Inside of Building Type	Lower Entry Type AEBL Turntable built-in: AEBLT 09 (90° TYPE) AEBLT 18 (180° TYPE) Middle Entry Type AEBM Turntable built-in: AEBMT 09 (90° TYPE) AEBMT 18 (180° TYPE)	- Apartment buildings - Commercial facilities (parking lot operators)
Cart Type		Front Type ACT(T)-F, Side Type ACT(T)-S	Buildings and lands for middle & large scale (Underground Type)
HIP (Hyundai Integrated Parking System)		Driving Cart Type HIPL	Buildings for large scale types: - Department Stores - Shopping Centers - Hotels - Entertainment complexes - Office Buildings

# Elevator Type

Ideal for small spaces due to high space utilization and convenient maintenance.

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.

### STANDARD SPECIFICATION

Category	Specification		
Capacity	10~70 cars		
Available Vehicle to Park	Category	SEDAN	SUV Cars (Full size car model)
	Length (mm)	5160	5160
	Width (mm)	2100	2100
	Height (mm)	1550	1850
Driving Speed	Lifting Facility: 70 ~ 120 m/min. Shifting Facility: 36 m/min.	Lift for Turntable: 1.85 m/min. Rotation for Turntable: 4.3 rpm	
	Motor	Lifting Facility: 22 kW / 30 kW 37 kW / 45 kW Shifting Facility: 3.7 kW	Lift for Turntable: 2.2 kW Rotation for Turntable: 1.5 kW
Operation and Control	Color Touch Screen System, Microcontroller or PLC Control (Full vector control)		
Hoistway	T rails		
Electricity	AC 380 V, 3 Ø, 4 W, 60 Hz, 28~63 kVA (Not including ground wires)		
Safety Devices	Guide Lamp for Entry, Emergency Stop Switch, Impact Absorber, Photo Sensors for Safety, Motion Detection Sensors		
Entrance Door	Up Sliding Door		

\* Note: Vehicle width dimensions are inclusive of side mirrors.

### OPTIONAL

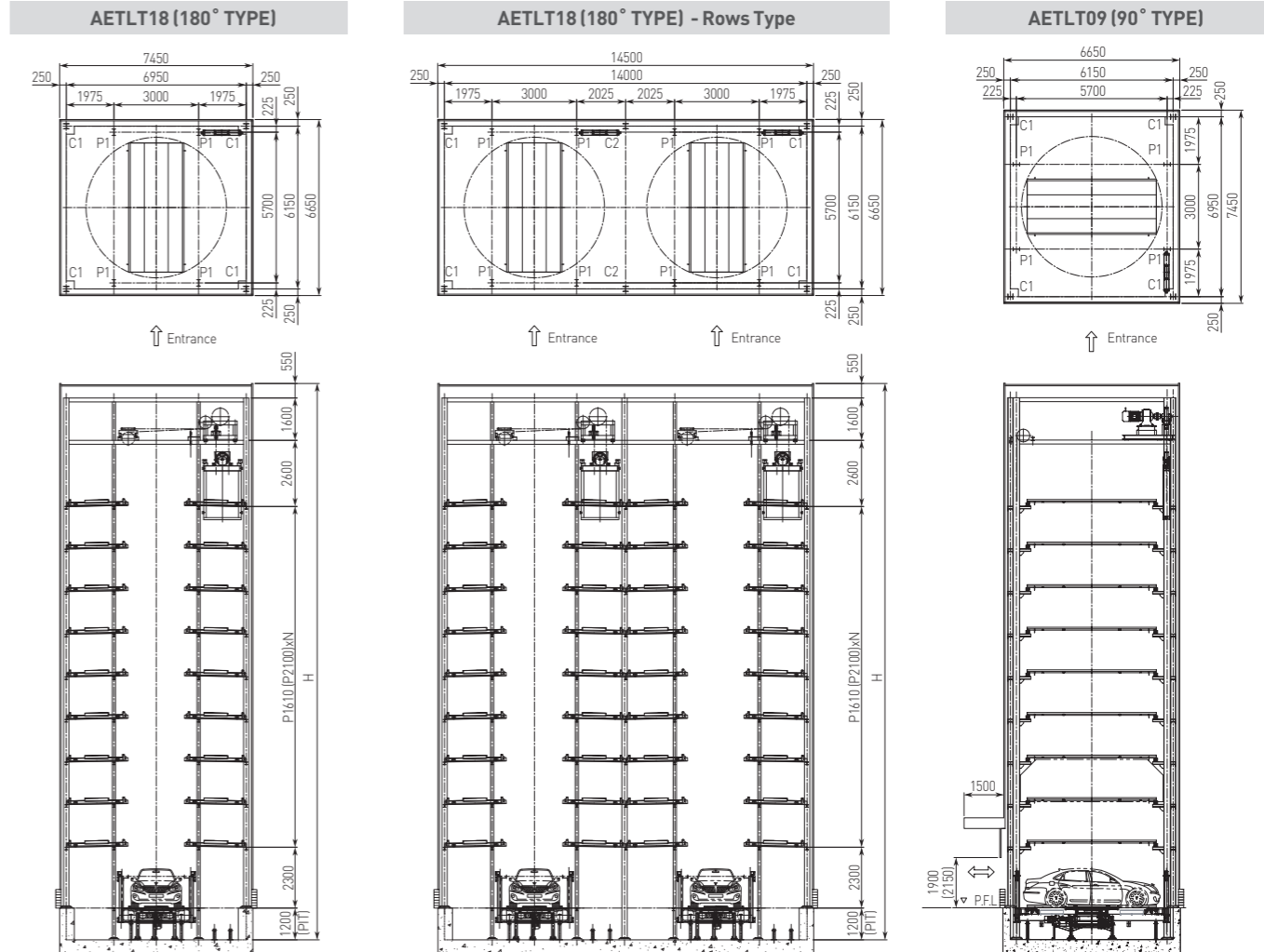
- **Turntable** - Improves the convenience of parking and retrieving vehicles by eliminating the need to back out.
- **Power Regeneration Function** - Consumes about 30% less power moving cars vertically.
- **Computer Monitoring** - Instantaneous tracking of occupancy makes system convenient to operate.
- **LED Parking Indicator** - Easy communication of the operating status of the lift. Possibility to input character strings upon request.



Ramada Plaza Suwon Hotel

## Independent Tower Type (Lower Entry Type)

(Unit: mm)



\* Note: 1. Dimensions in parentheses are for RV/SUV model units.  
2. Dimensions for freestanding systems may vary according to vehicle capacity, wind speed, and terrain conditions.

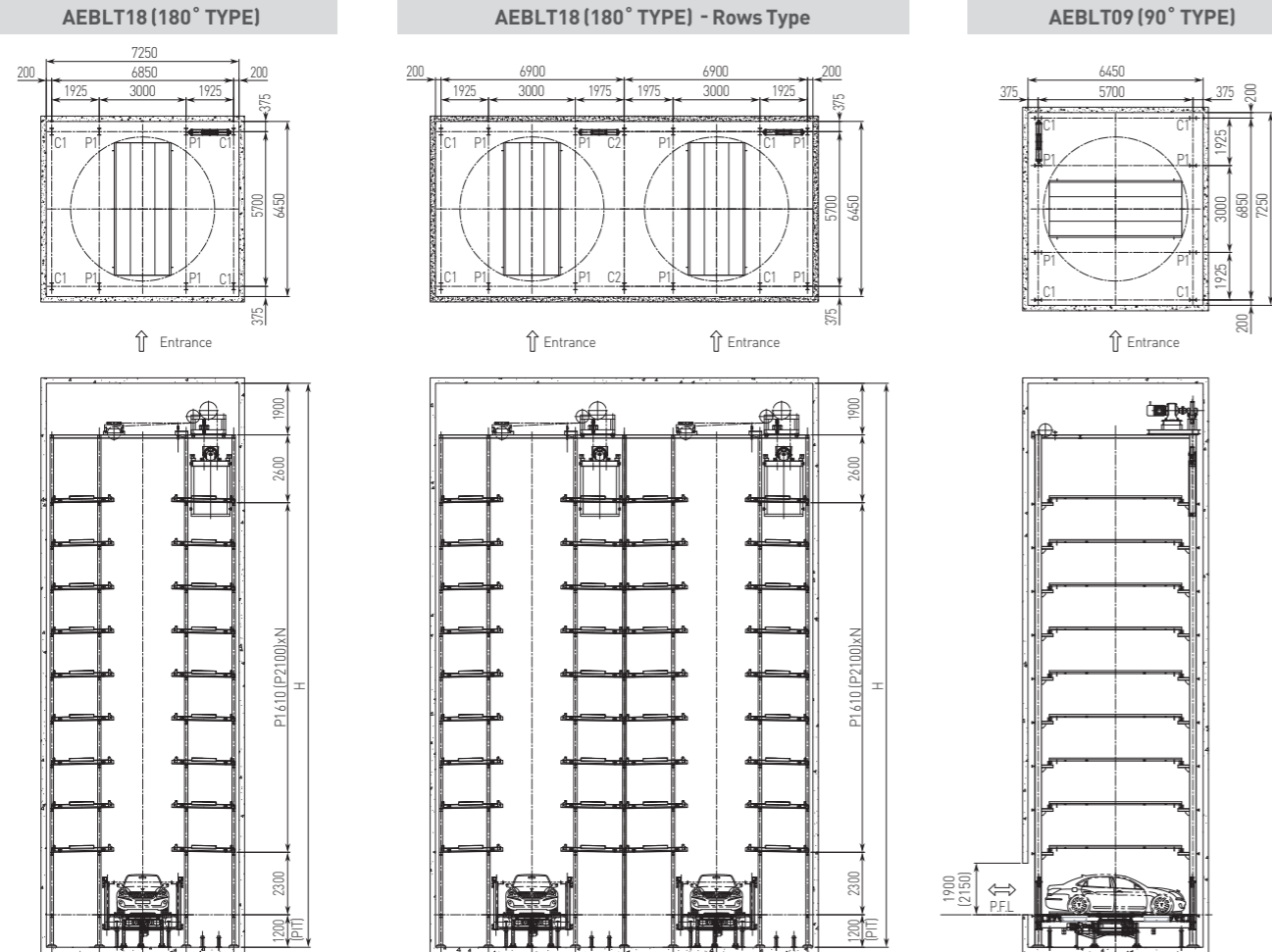
## Independent Tower Type (Lower Entry Type) AETL / Turntable Built-in Type AETLT 09,18

Capacity (N)	Height (mm)	Load of Column (kN)					Motor Capacity (kW)
		C1Compressive load	C1Tensile Load	P1Compressive load	C2Compressive load	C2Tensile Load	
18 (X2)	21,130	408	-98	153	468	-92	22
20 (X2)	22,740	441	-124	168	517	-132	
22 (X2)	24,350	475	-149	183	566	-173	
24 (X2)	25,960	508	-175	199	615	-213	
26 (X2)	27,570	541	-201	214	664	-253	
28 (X2)	29,180	574	-226	229	713	-294	
30 (X2)	30,790	607	-252	244	762	-334	
32 (X2)	32,400	705	-324	360	872	-419	
34 (X2)	34,010	803	-396	377	982	-504	
36 (X2)	35,620	901	-467	393	1092	-589	
38 (X2)	37,230	999	-539	410	1202	-674	
40 (X2)	38,840	1097	-611	427	1313	-759	
42 (X2)	40,450	1196	-683	443	1423	-844	
44 (X2)	42,060	1294	-755	460	1533	-929	
46 (X2)	43,670	1392	-826	476	1643	-1014	
48 (X2)	45,280	1490	-898	493	1753	-1099	
50 (X2)	46,890	1588	-970	510	1863	-1185	
52 (X2)	48,500	1686	-1042	526	1973	-1270	
54 (X2)	50,110	1784	-1114	543	2083	-1355	
56 (X2)	51,720	1883	-1185	560	2193	-1440	
58 (X2)	53,330	1981	-1257	576	2303	-1525	
60 (X2)	54,940	2079	-1329	593	2413	-1610	
62 (X2)	56,550	2177	-1401	609	2524	-1695	
64 (X2)	58,160	2275	-1473	626	2634	-1780	
66 (X2)	59,770	2373	-1544	643	2744	-1865	
68 (X2)	61,380	2471	-1616	659	2854	-1950	
							30
							37
							45
							55

1. Floor height calculation  
 - Passenger car model: 2,300 [platform] + [(capacity / 2-1) × 1,610] + 2,600 [overhead] + 1,600 [machine room]  
 - RV model: 2,300 [platform] + [(capacity / 2-1) × 2,100] + 2,600 [overhead] + 1,600 [machine room]
2. For facilities with capacity that exceeds 70 vehicles, please inquire.
3. Load value assumptions  
 - Wind speed 26 m/s

## Inside of Building Type (Lower Entry Type)

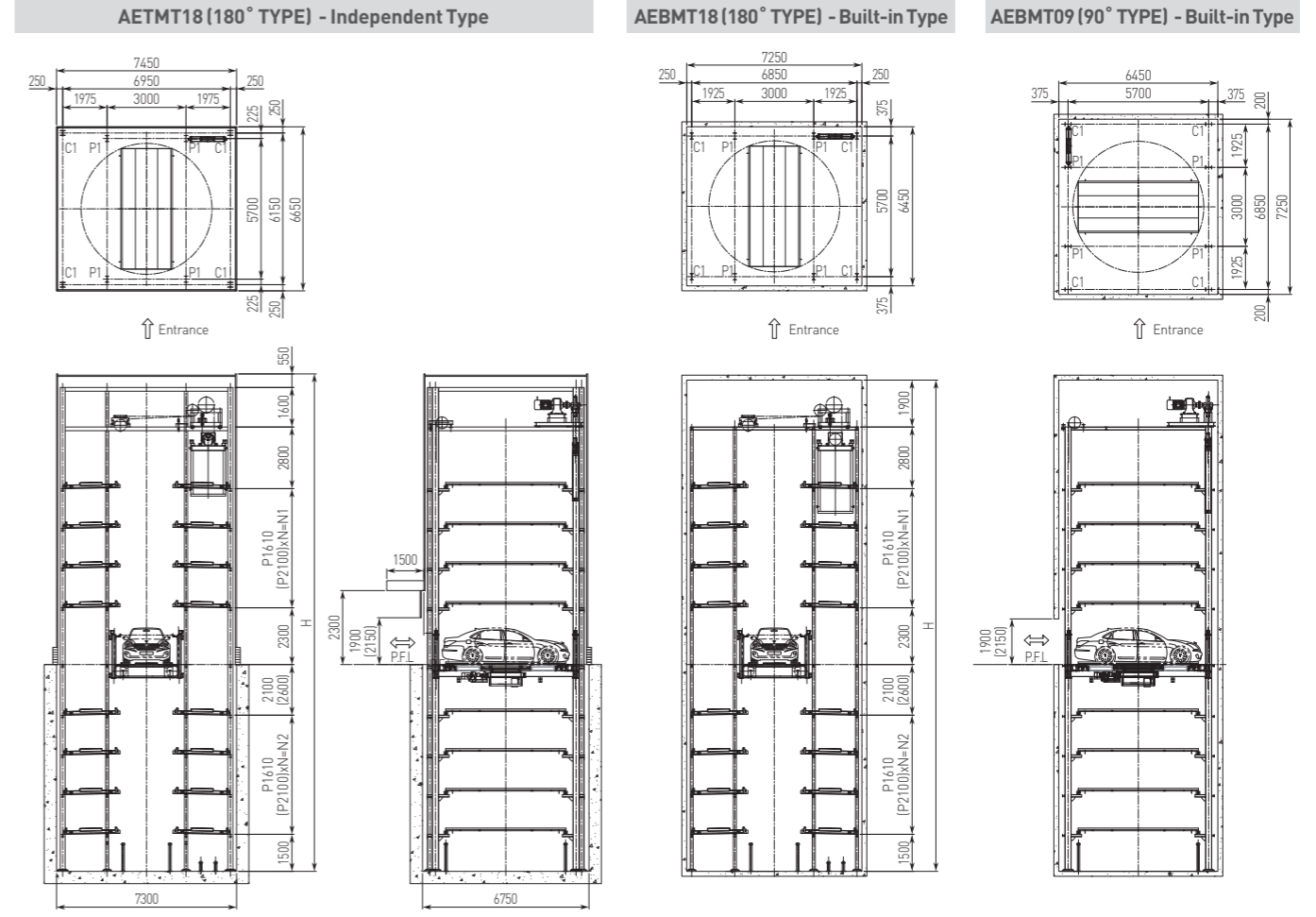
(Unit: mm)



\* Note: Dimensions in parentheses are for RV/SUV model units.

## Independent Tower & Inside of Building Type (Middle Entry Type)

(Unit: mm)



\* Note: 1. Dimensions in parentheses are for RV/SUV model units.  
2. Dimensions for freestanding systems may vary according to vehicle capacity, wind speed, and terrain conditions.

## Inside of Building Type (Lower Entry Type) AEBL / Turntable Built-in Type AEBLT 09,18

Capacity (N)	Height (mm)	Load of Column (kN)			Motor Capacity (kW)	
		C1 Compressive load	P1 Compressive load	C2 Compressive load		
18 (X2)	20,880	131	133	198	22	
20 (X2)	22,490	145	147	219		
22 (X2)	24,100	158	161	239		
24 (X2)	25,710	172	175	260		
26 (X2)	27,320	186	189	281		
28 (X2)	28,930	199	203	302		
30 (X2)	30,540	213	217	323		
32 (X2)	32,150	227	231	343		
34 (X2)	33,760	240	244	364		
36 (X2)	35,370	254	258	385		
38 (X2)	36,980	268	272	406		
40 (X2)	38,590	281	286	426		
42 (X2)	40,200	295	300	447		
44 (X2)	41,810	309	314	468		
46 (X2)	43,420	322	328	489		
48 (X2)	45,030	336	342	509		
50 (X2)	46,640	350	356	530	30	
52 (X2)	48,250	363	369	551		
54 (X2)	49,860	377	383	572		
56 (X2)	51,470	391	397	593		
58 (X2)	53,080	404	411	613		
60 (X2)	54,690	418	425	634		
62 (X2)	56,300	431	439	655		
64 (X2)	57,910	445	453	676		37
66 (X2)	59,520	459	467	696		
68 (X2)	61,130	472	481	717		
					45	
					55	

- Floor height calculation
  - Passenger car model: 2,300 (platform) + [(capacity / 2 - 1) × 1,610] + 2,600 (overhead) + 1,900 (machine room)
  - RV model: 2,300 (platform) + [(capacity / 2 - 1) × 2,100] + 2,600 (overhead) + 1,900 (machine room)
- For facilities with capacity that exceeds 70 vehicles, please inquire.

## Independent Type AETM / Turntable Built-in Type AETMT 09,18

Capacity (N)	Height (mm)
18	Depth [below ground level] = 1,610 x N2 + 3,600 Height (above ground level) = 1,610 x N1 + 7,250 Total height = depth + height
20	
22	
24	
26	
28	
30	
32	
34	
36	
38	
40	
42	
44	
46	N1: [vehicle capacity above ground/2] - 1 N2: [vehicle capacity below ground/2] - 1
48	
50	
52	
54	
56	
58	
60	
62	
64	
66	
68	

For facilities with capacity that exceeds 70 vehicles, please inquire.

## Inside Type AEBM / Turntable Built-in Type AEBMT 09,18

Capacity (N)	Height (mm)
18	Depth [below ground level] = 1,610 x N2 + 3,600 Height (above ground level) = 1,610 x N1 + 7,000 Total height = depth + height
20	
22	
24	
26	
28	
30	
32	
34	
36	
38	
40	
42	
44	
46	N1: [vehicle capacity above ground/2] - 1 N2: [vehicle capacity below ground/2] - 1
48	
50	
52	
54	
56	
58	
60	
62	
64	
66	
68	

For facilities with capacity that exceeds 70 vehicles, please inquire.

# Cart Type

## Efficient use of limited space that significantly expands parking areas.

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.

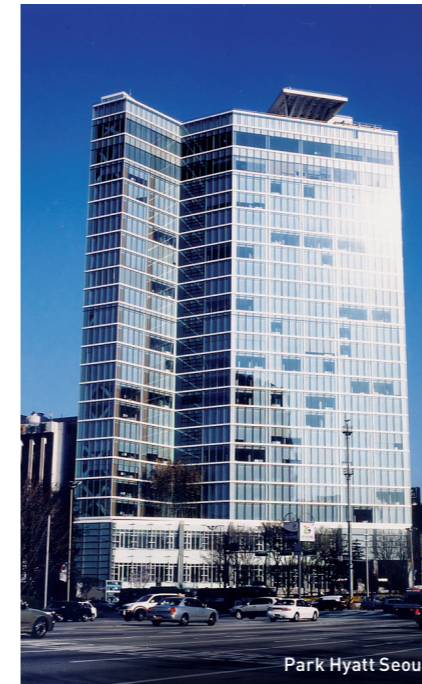
### STANDARD SPECIFICATION

Category	Specification		
Capacity	50 cars		
Available Vehicle to Park	Category	SEDAN	SUV Cars (Full size car model)
	Length (mm)	5160	5160
	Width (mm)	2100	2100
	Height (mm)	1550	1850
	Weight (kg)	2100	2200
LIFT	Lifting Speed	40-90 m/min.	
	Motor Capacity	22 kW / 30 kW	
	Driving Speed	60-110 m/min.	
Capacity Per Level	Motor Capacity	1.5 kW × 2	
	Shifting Speed	38-45 m/min.	
	Motor Capacity	1.5 kW	
Operation and Control	Color Touch Screen System		
Electricity	AC 380 V, 3 Ø, 4 W, 60 Hz, 49-98 kVA (Not including ground wires)		
Safety Devices	Guide Lamp for Entry, Emergency Stop Switch, Photo Sensors for Safety, Motion Detection Sensors		
Entrance Door	Up Sliding Door		

\* Note: Vehicle width dimensions are inclusive of side mirrors.  
Motor specifications and speed of lifts and carts may vary depending on design requirements.

### OPTIONAL

- **Turntable** - Improves the convenience of parking and retrieving vehicles by eliminating the need to back out.
- **Computer Monitoring** - Instantaneous tracking of occupancy makes system convenient to operate.
- **LED Parking Indicator** - Easy communication of the operating status of the lift. Possibility to input character strings upon request.



Park Hyatt Seoul



Public parking lot in Guui-dong, Seoul

### Features of Cart Type Parking Systems

- 1 Inverter-type lift operates silently and moves cars with high precision. Low power consumption reduces energy costs.
  - Simultaneous vertical and lateral movement of vehicles reduces the time required to store and retrieve cars relative to the size of the facility.
- 2 Designed for underground use, systems can be installed more freely compared to other systems, regardless of the location of the building's structural columns and beams.
- 3 Multiple installation of carts and turntables can maximize the utility of basement and entry floors.
- 4 Independent operation of driving parts reduces power consumption.
- 5 Ideal for medium and large scale installations because economies of scale are high.



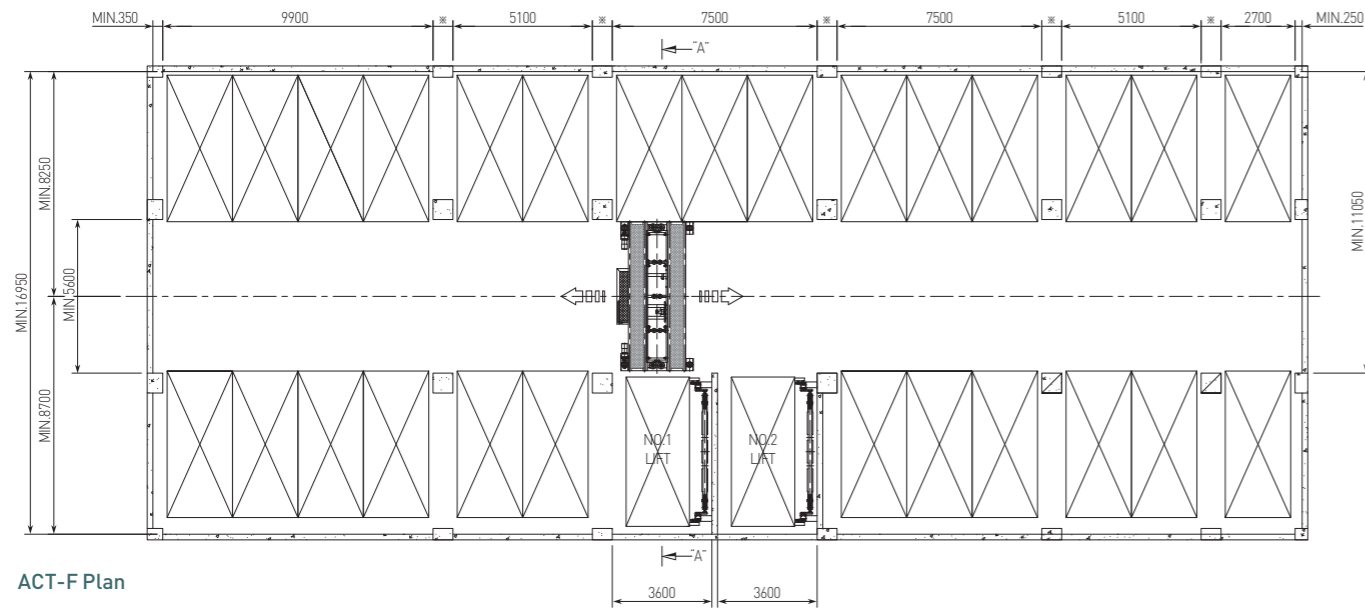
EL Tower



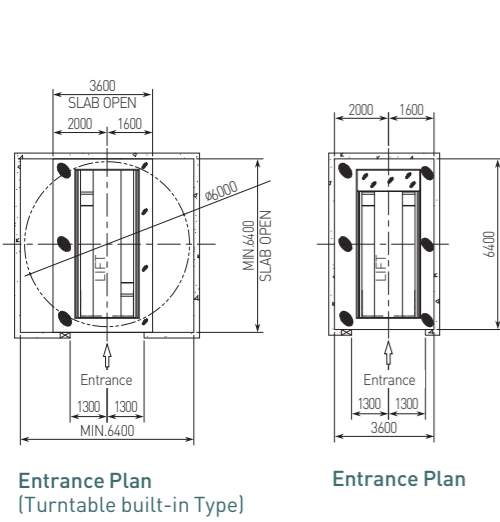
Public parking lot in Guui-dong, Seoul

# Front Type (ACT(T)-F)

(Unit: mm)

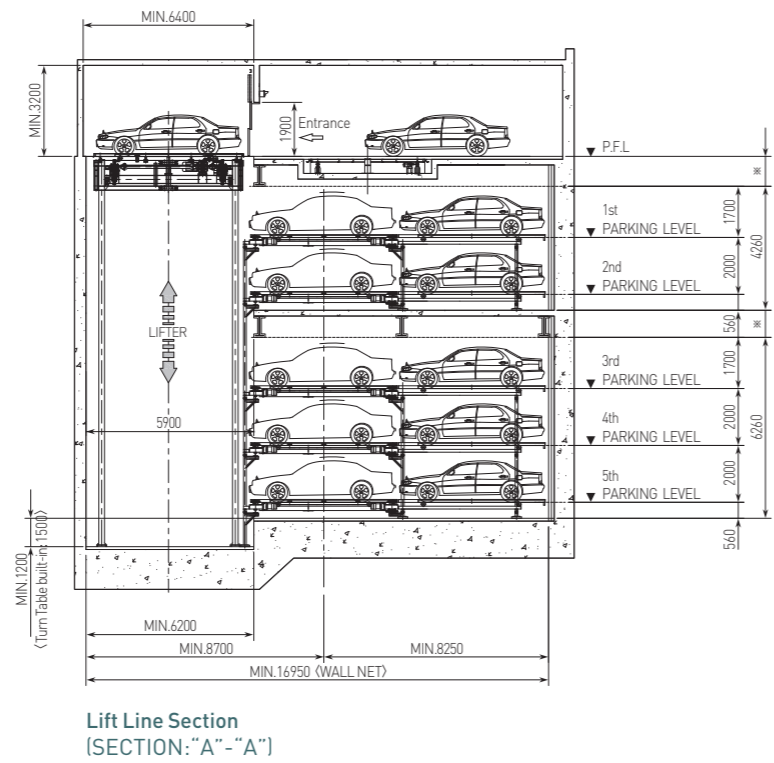


ACT-F Plan



Entrance Plan  
(Turntable built-in Type)

Entrance Plan

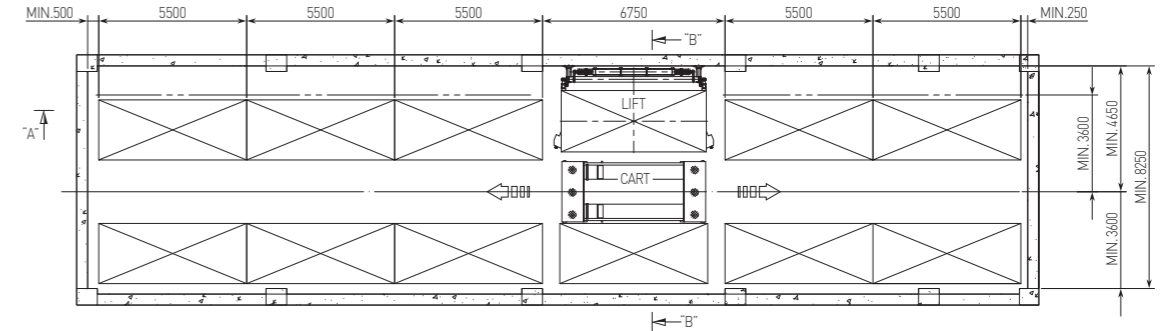


Lift Line Section  
(SECTION: "A"-"A")

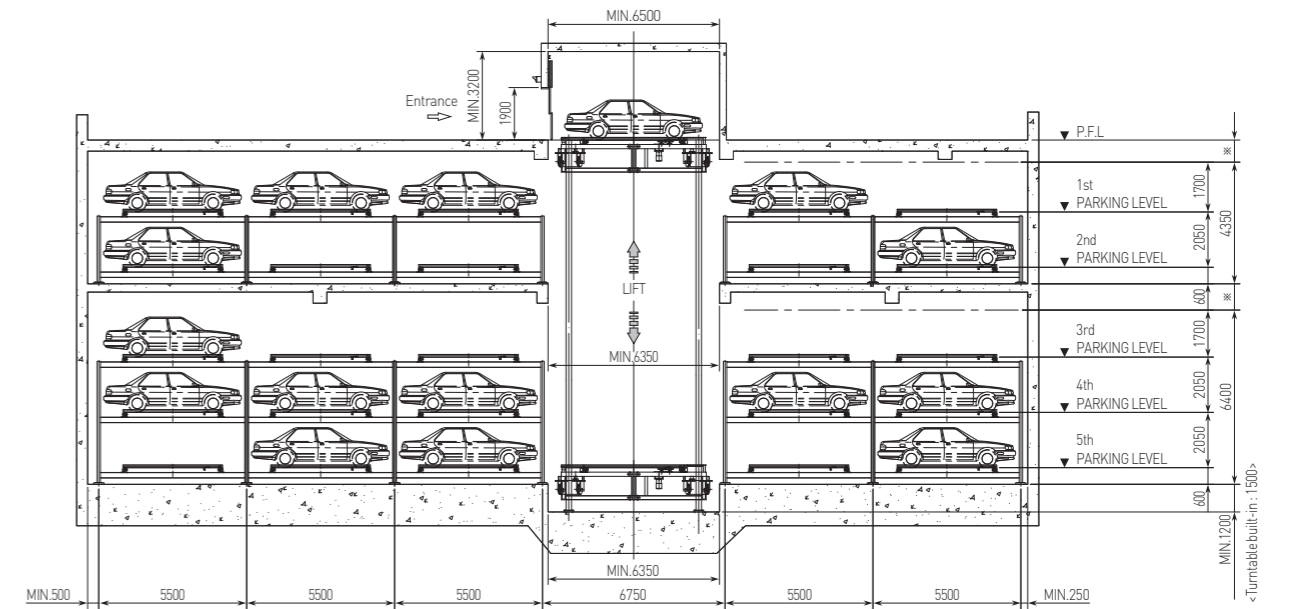
\* Note: 1. Measurements with the ※ mark are to be determined by the architect.  
2. Please inquire for RV/SUV models.

# Side Type (ACT(T)-S)

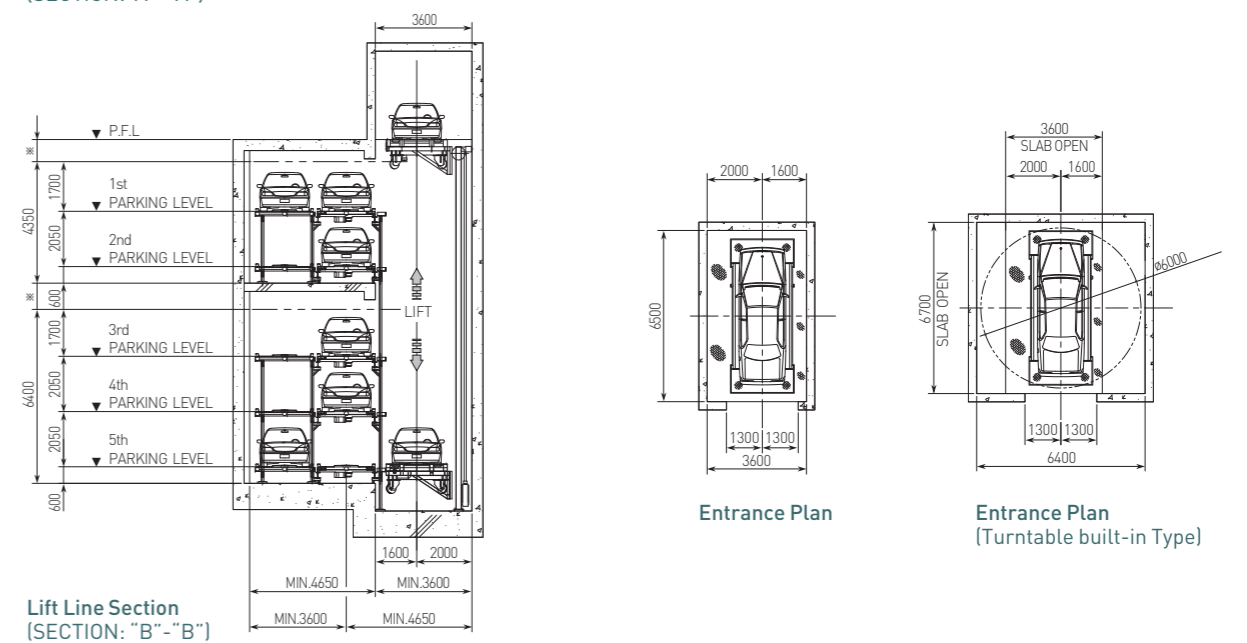
(Unit: mm)



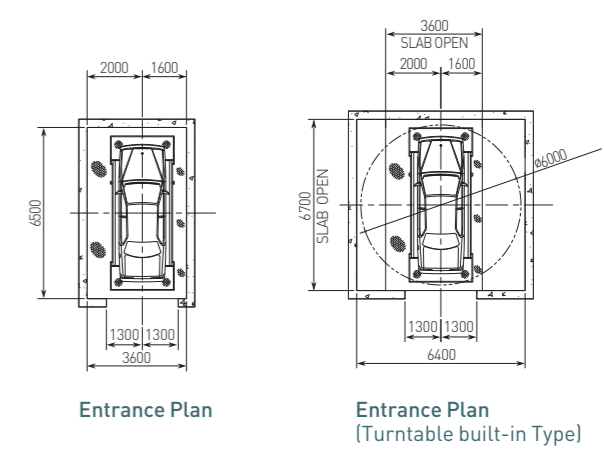
ACT-S Plan



Lift Line Section  
(SECTION: "A"-"A")



Lift Line Section  
(SECTION: "B"-"B")



Entrance Plan

Entrance Plan  
(Turntable built-in Type)

\* Note: 1. Measurements with the ※ mark are to be determined by the architect.  
2. Please inquire for RV/SUV models.

# HIP (Hyundai Integrated Parking System)

## Hyundai Elevator's fastest Auto Parking System can even make use of space underneath ordinary roads.

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.

### STANDARD SPECIFICATION

Category	Specification		
Capacity	More than 100 cars		
Available Vehicle to Park	Category	SEDAN	SUV Cars (Full size car model)
	Length (mm)	5160	5160
	Width (mm)	2100	2100
	Height (mm)	1550	1850
	Weight (kg)	2100	2200
LIFT	Lifting Speed	Max. 120 m/min.	
	Motor Capacity	30 kW	
	Driving Speed	Max. 300 m/min.	
Capacity Per Level	Motor Capacity	30 kW	
	Shifting Speed	35 m/min.	
	Motor Capacity	7.5 kW	
Operation and Control	Color Touch Screen System, PLC Control		
Electricity	AC 380 V, 3 Ø, 4 W, 60 Hz (Not including ground wires)		
Safety Devices	Guide Lamp for Entry, Emergency Stop Switch, Photo Sensors for Safety, Motion Detection Sensors		

\* Note: Vehicle width dimensions are inclusive of side mirrors.

### OPTIONAL

- **Computer Monitoring** - Instantaneous tracking of occupancy makes system convenient to operate.
- **Waiting Queue Display** - Users can view the status of waiting queues.
- **RF (Radio Frequency) Parking Card** - Parking card facilitates storage and retrieval of vehicles.

### FEATURES

- 1 Voice assistance makes the system easy to operate even for first-time users.
- 2 Spacious entryway makes it easy and convenient to step out of the car.
- 3 Automated controller recognizes parking cards tagged on a card reader and stows cars conveniently.
- 4 Conveyor automatically rearranges poorly stationed cars in the entryway for convenient and safe parking.
- 5 Carts move at a high speed of 300 m/min. to store cars quickly and safely.
- 6 Pallet-free, conveyor system dramatically reduces processing time.
- 7 Straightforward vehicle retrieval system is activated by tagging the parking card on a card reader.
- 8 Car retrieval within 38 seconds on average.



Hyundai Department Store, Cheonho Branch

Hyundai Department Store, COEX



## Vehicle parking and retrieval

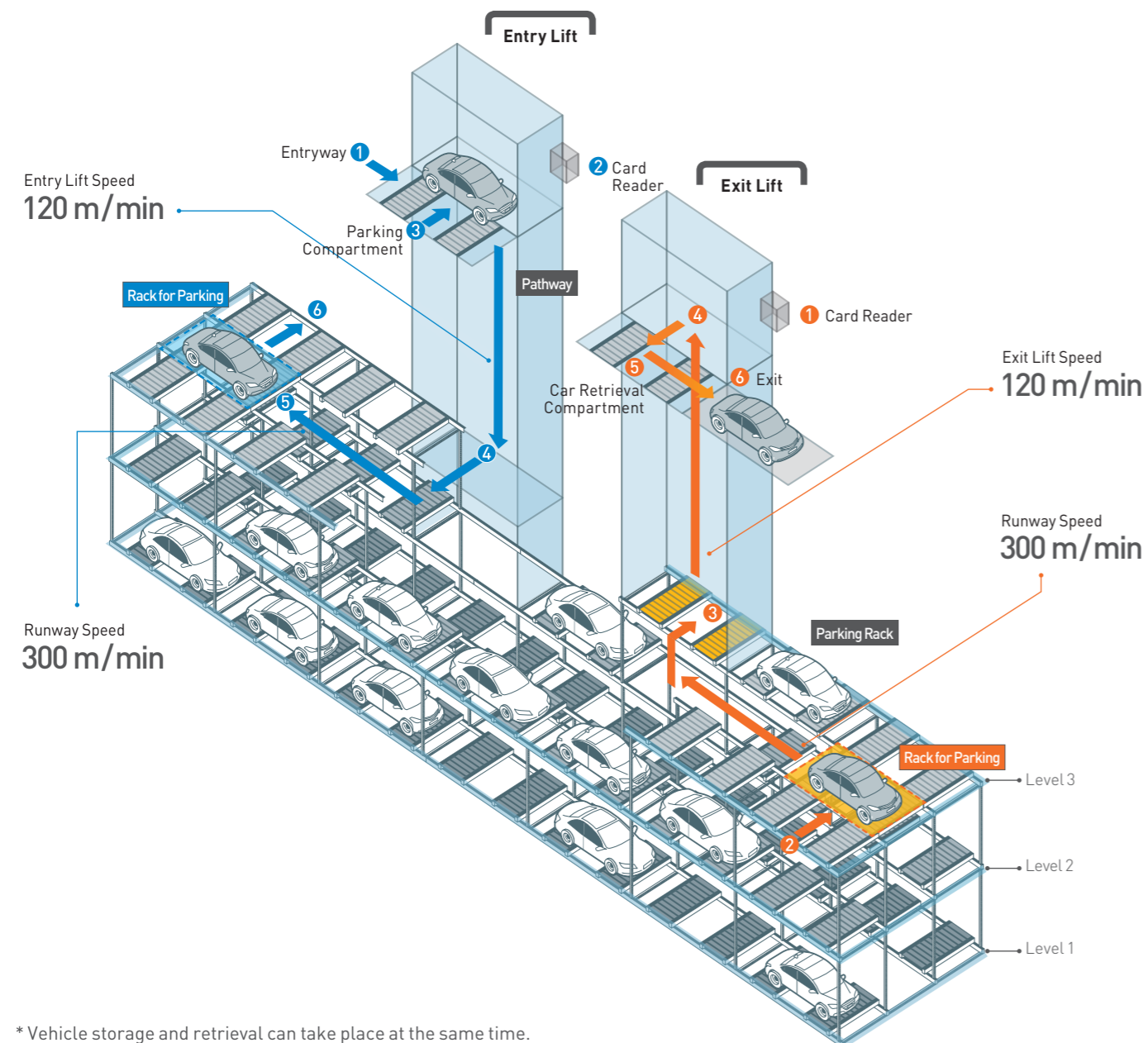
### Input → Parking

- 1 Drive the vehicle into the parking compartment and stop at the designated area in front of the lift.
- 2 Step out of the vehicle and clear the compartment. Tag the parking card on the card reader to open the lift door and activate the lift.
- 3 Conveyors in the parking compartment and the lift move the vehicle onto the lift.
- 4 The vehicle is moved to a floor with an empty parking space.
- 5 The vehicle is transferred onto a cart.
- 6 The cart moves the vehicle to an empty rack and parks it inside.

### Parking → Output

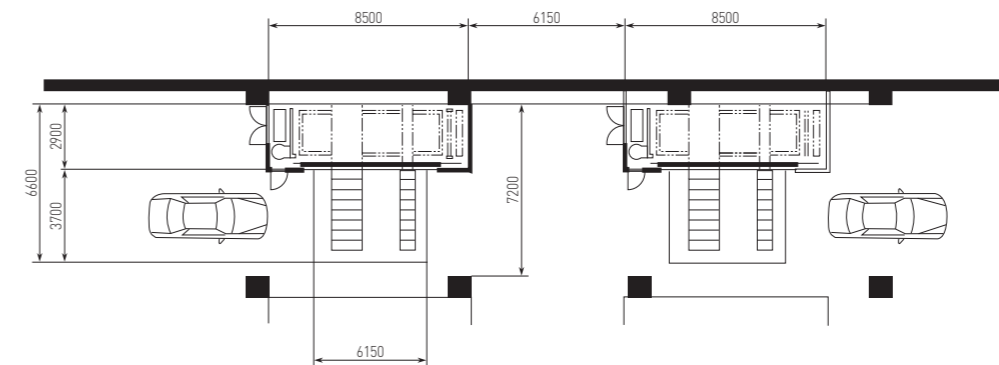
- 1 Tag the parking card on a card reader just outside the car retrieval compartment.
- 2 A cart on the level that the vehicle is parked moves to the front of the rack and retrieves the vehicle.
- 3 The cart with car moves to lift.
- 4 The car is shifted from cart to lift, and the lift moves to waiting room for car-output.
- 5 The door of waiting room is opened, and the car comes out.
- 6 A driver gets in the car and drives out.

(Unit: mm)

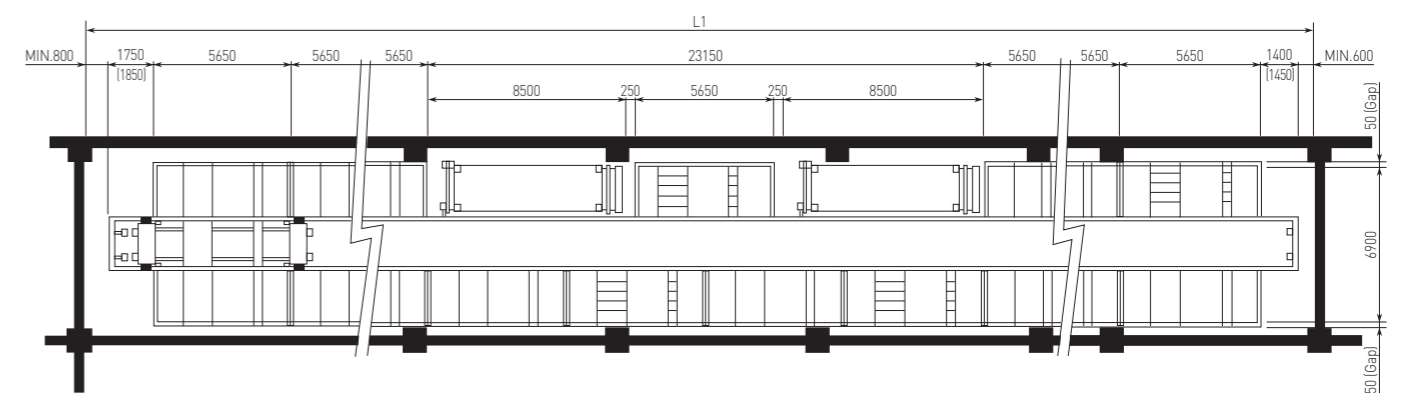


\* Vehicle storage and retrieval can take place at the same time.

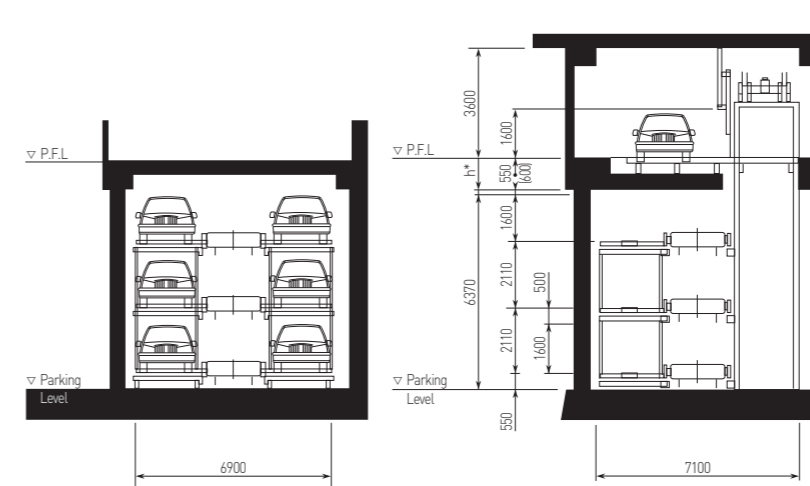
## Standard Drawing of HIP [3-levels]



Plan Drawing for Parking Level



Plan Drawing for Parking Level



Section Drawing

Section Drawing

- \* Note: 1. Dimensions are for SEDAN size vehicle models.  
 2. Dimensions are for machinery installation. Space for utility pipes and concrete structures need to be calculated separately.  
 3. Please inquire for vehicle capacities greater than the illustrations.  
 4. Installations higher than 4 levels are built using a combination of 2-floor and 3-floor modules.  
 5. Racks can be mounted asymmetrically.  
 6. "h\*" is usually 50 mm, but please inquire if there is a gradient or level change on the floor.  
 7. Please inquire for dimensions for RV/SUV models or other size vehicle models.

## Parking Assistance Lighting Systems

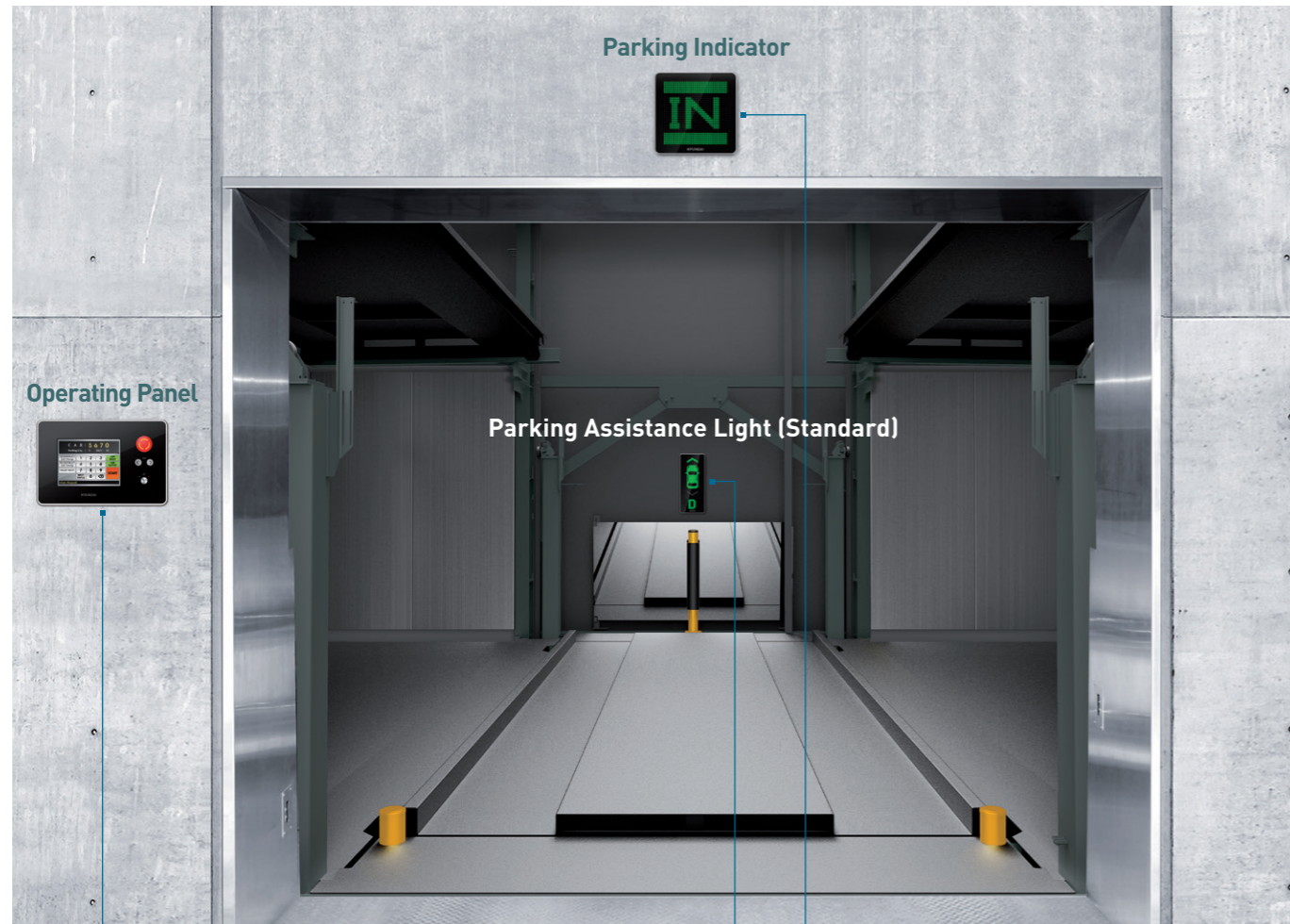
**Efficient information delivery and design generates exceptional user satisfaction.**

Premium LED parking assistance lights use intuitive color and graphics to easily convey operational information, such as vehicle parking, retrieval and waiting times. First in the industry to receive an iF Design Award in Germany in 2017, Hyundai Elevator is proving its excellence in product design.



**Recipient of an iF Design Award**

Hyundai Elevator has demonstrated its global design competitiveness by earning iF Design Awards in the elevators category (destination selecting system in 2012 and ANYVATOR concept elevator in 2017) as well as for its parking system indicator lights in 2017.



The touch-screen control box maximizes ease of use with a simple display that allows users to identify and enter information easily.

※ The control panel depicted above is an optional model.

Easily recognizable LED sign with intuitively designed graphics or numbers instruct drivers to wait or enter the parking lift.

Highly communicative signal help drivers park and retrieve their cars safely from the parking lift.

**Operating Panel**



Standard (7 inch)

7 inch premium (indoor)

7.5 inch premium (indoor)

**Parking Indicator**



Digital type (standard)

Analog type



Premium type

※ LED text signage can be modified according to customers' needs.

**Parking Assistance Light (standard)**

