YZER I

C-YS1-E0309 / 2017.12 / 3rd Edition







HYUNDAI ELEVATOR YZER I

Hyundai Elevator sets a new benchmark, moving beyond yesterday's concept of value. Yesterday's value which defined an elevator as a machine connecting vertical space, is fading. Hyundai Elevator presents a new standard that makes people feel safe, comfortable, and happy in elevators.

An elevator for the people: The mission of YZER I

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05 Philosophy + New Space

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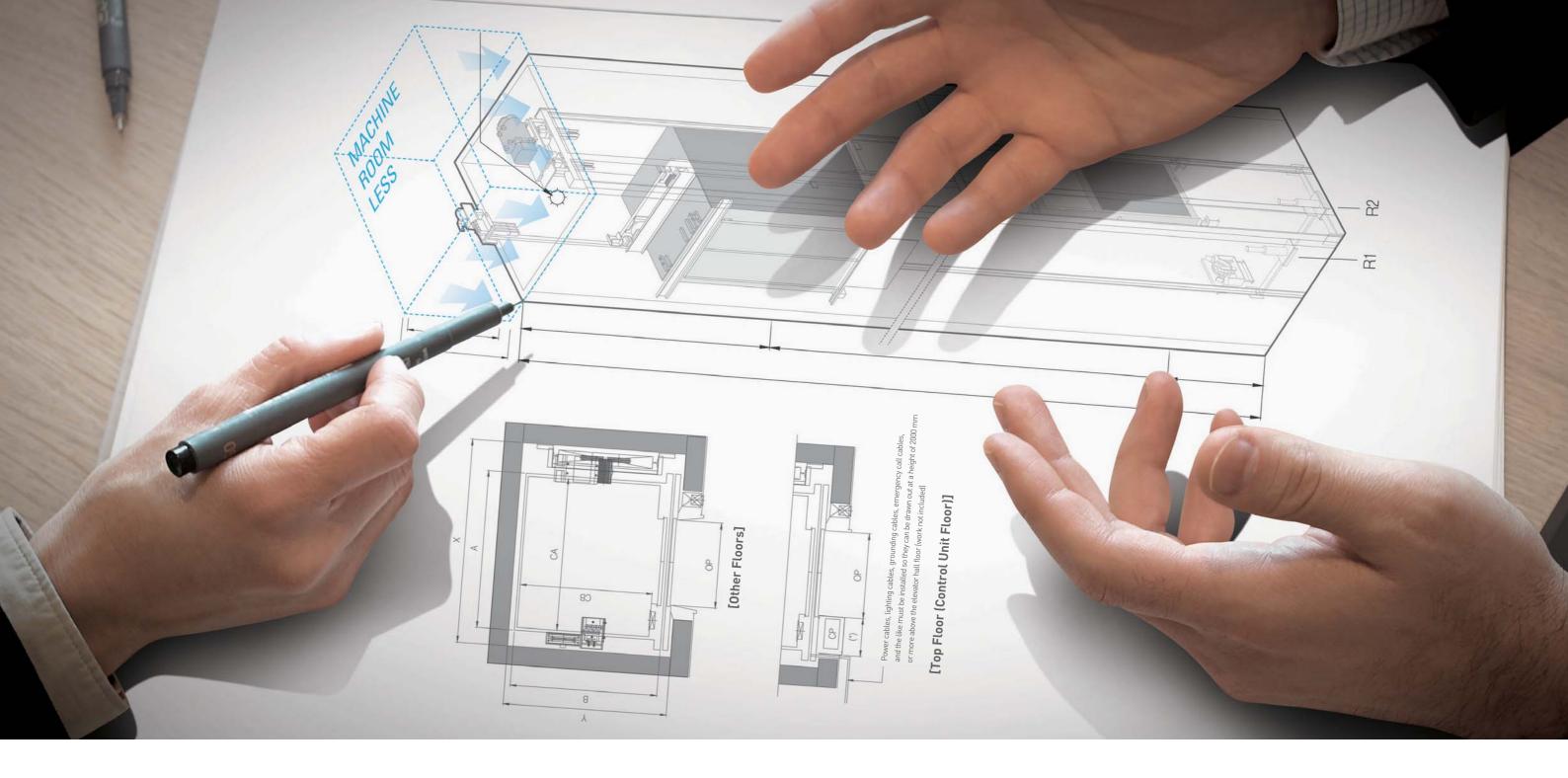


A new standard of living and true concern for people and elevators closer

- Hyundai Elevator has raised these questions continuously should an elevator be perceived only as a means of transport? Are those convenience and attractive design should be
- An elevator that serves as a companion to people and reflects

All products are outfitted with an ultra slim LED ceiling (<50 mm), which provides roominess in both height and width inside the elevator.

An industry first, the Smart Indicator delivers a pleasant environment in any conditions by means of an anion double-clean system and ultrasonic pest-repellant function. Its LCD display with an integrated CCTV assures



More convenient, more comfortable **Elevator that understands people**

An elevator that values people and space

Efficient horizontal space that allows people to get on and off an elevator with ease, as well as a ceiling height that achieves a pleasing, soothing space: this is the philosophy of space embodied by Hyundai Elevator's YZER I.

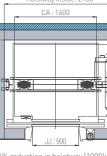
High-performance, eco-friendly traction machine

Built with technology developed at the company's R&D center in the Korean headquarters, the ultra-small YZER I traction machine delivers the world's highest standard of quality. As the essence of modern technology, it promises convenient maintenance by operating on an oil-free traction system that does not need regular oiling of its bearing unit.

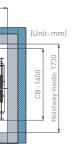


Minimized hoistway size

Minimized hoistway size and elimination of a machine room reduce construction costs and incidental expenses to the greatest extent thanks to a shortened construction schedule.

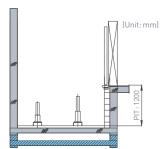


21% reduction in hoistway (1000kg capacity) Compared with the Company's existing products



Minimized pit length (1200 mm)

Efficient pit space with a minimized length of 1200 mm has become possible through topside arrangement of the suspension structure.



300 mm reduction in length

YZER I KEY FEATURES

LED CEILING



HANDRAIL



Ultra Slim LED Ceiling

Eco-friendly LED ceiling provides higher, roomier space and reduces eye fatigue.

Ultra Slim LED Ceiling (<50 mm) Applied to All Products

- Higher ceiling offers a more spacious and pleasant interior space.
- Reduced power consumption lowers maintenance costs and brighter interior space eases eye fatigue.





Anti-Virus Handrail (OPTIONAL)

Handrails are exposed to many germs through constant touching, but the use of antimicrobial materials protects users from harmful viruses.

Virus-Resistant Materials (OPTIONAL)

The safest, most convenient handrails employ the latest ergonomic design and motion analysis as well as antimicrobial materials.



Standard Handrail



CAR OPERATING PANEL / INDICATOR / HALL BUTTON



OPP-N364(Optional)

YZER I Family Look

A two-tone, black and silver color combination completes the Hyundai Elevator family-look. The operating panel, indicator, and hall button all share an open-type design, allowing for easier maintenance.



PI-D800











64Type



Button

0PP-L564

5

0

37 37

00

00

00

00

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SMART INDICATOR (OPTIONAL)



Smart care for health

Double-clean system maintains clean air in the elevator

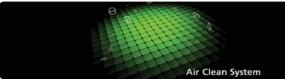
Smart care for safety

Smart Indicator helps passengers to see safety functions with their own eyes.

Double-Clean System Equipped with Air-Cleaning and Antiseptic Functions

An anion-generating Air Cleaner that works year-round and an indicator combines to produce an all-in-one design. Clean interior air quality is maintained through the complete elimination of undesirable active oxygen and germs. Visual recognization of system operation is easy since

Air-Clean, Anion, and Anti-Virus are displayed in sequence.



- Over 100,000 anions are released per 1 cc of air, keeping air clean and fresh at all times.
- More than 99% of harmful substances, including viruses, are removed (after four hours' operation).
- This system achieves eliminating malodorous substances.

CCTV Security Info Display System



When CCTV is operated, the Smart Indicator displays a CCTV graphic. This prevents crime by alerting people for potential crimes in a closed space. * CCTV Security Info Display System requires installation of CCTV (optional).



Ultrasonic Pest-Repellant Function Colorless and odorless ultrasonic waves

eradicates, mosquitoes and other pests, to create a pleasant interior space, which up to now was hard to achieve due to frequent door-opening. IBS SYSTEM (CARD KEY)



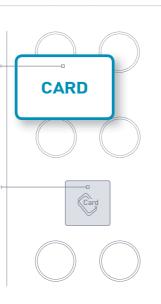
IBS System (Card key)

It enables effective security and crime prevention by limiting entry/exit by outsiders.

Card Key By placing the card key against the operating panel reader, users may select all floors or only one floor.

Operating Panel Card Reader

Exclusive elevator control provides integrated security access control. The card key is readable from 5 to 8 centimeters away.





BLACK BOX-TYPE CCTV/ MULTI-BEAM DOOR SAFETY DEVICE

Black Box-Type CCTV

CCTV camera records all elevator activity including passengers, ensuring security control on a real-time basis.

Multi-Beam Door Safety Device

Multibeam sensor detects passenger movement and automatically opens the door, helping prevent accidents.

Design that blends user preferences with cutting-edge sensitivity An elevator with a sensitive touch

Sensitive elevator that interacts with people

Hyundai Elevator places top priority on users' preferences because it considers an elevator more than a machine for moving people.

Harmonizing technology with artistry to achieve the perfect blend of beauty and comfort: this is the design philosophy behind Hyundai Elevator's YZER I.











Front image



201 Type

50 Туре



CAR DESIGN

Ceiling

Car Wall Handrail

Car Door Flooring

- → CD198A/Aluminum (Silver), LED Lighting, LED Down Light (4EA), Ceiling Plate (Painted Steel / P021)
- \rightarrow Stainless Hairline
- → Stainless 1Pipe (1C) / Polished, Chrome Bracket
- $\rightarrow \ \text{Stainless Hairline}$
- Car Operating Panel → OPP-D564/Stainless Hairline
 - → PVC (FH-13)



201 Туре	Jamb	ightarrow Stainless Hairline / 201Type
	Transom Panel	ightarrow Stainless Hairline
	Door	ightarrow Stainless Hairline
	Hall Button	\rightarrow HPB-621
	Indicator	\rightarrow PI-D700
100 Туре	Jamb	ightarrow Stainless Hairline / 100 Type
	Door	ightarrow Stainless Hairline
	Hall Button	→ HIP-D621
50 Туре	Jamb	ightarrow Stainless Hairline / 50 Type
	Door	→ Stainless Hairline
	Hall Button	\rightarrow HIP-D621







Front image

Rearimage



201 Type

50 Туре



Ceiling	

Car Wall

Flooring

Handrail Car Door

- → CD199B/Stainless Hairline, LED Bar Type Module (P022), Ceiling Plate (Painted Steel / P021) \rightarrow Stainless Hairline, Painted Steel / P017 → Stainless 1Pipe (1C) / Polished, Chrome Bracket
- \rightarrow Painted Steel / P017
- Car Operating Panel → OPP-D564/Stainless Hairline
 - → PVC (FH-08)



201 Type	Jamb	ightarrow Stainless Hairline / 201Type
	Transom Panel	\rightarrow Stainless Hairline
	Door	\rightarrow Painted Steel / P017
	Hall Button	\rightarrow HPB-621
	Indicator	\rightarrow PI-D700
100 Type	Jamb	ightarrow Stainless Hairline / 100 Type
	Door	\rightarrow Painted steel / P017
	Hall Button	→ HIP-D621
50 Type	Jamb	→ Stainless Hairline / 50 Type
	Door	→ Painted steel / P017
	Hall Button	\rightarrow HIP-D621







Front image



201 Type



CAR DESIGN

Ceiling

Ceiling	\rightarrow	CD191A / Stainless Hairline,
		LED Bar Type Lighting,
		Ceiling Plate (Painted Steel / P024)
Car Wall	\rightarrow	Stainless Hairline,
		Stainless Hairline Etching (SE2310)
Handrail	\rightarrow	Stainless 1Pipe (1C) / Polished,
		Chrome Bracket
Car Door	\rightarrow	STS Hairline Etching (SE2310)
Car Operating Panel	\rightarrow	OPP-D564/STS Hairline
Flooring	\rightarrow	PVC (FH-14)



201 Type	Jamb	ightarrow Stainless Hairline / 201Type
	Transom Panel	ightarrow Stainless Hairline
	Door	→ Stainless Hairline Etching
		(SE2310)
	Hall Button	→ HPB-621
	Indicator	\rightarrow PI-D700
100 Type	Jamb	ightarrow Stainless Hairline / 100 Type
	Door	ightarrowStainless Hairline Etching
		(SE2310)
	Hall Button	→ HIP-D621
50 Type	Jamb	→ Stainless Hairline / 50 Type
	Door	→ Stainless Hairline Etching
		(SE2310)
	Hall Button	\rightarrow HIP-D621







Front image

Rearimage



201 Type



CAR DESIGN

Ceiling	\rightarrow	CD199B/Stainless Hairline,
		LED Bar Type Module (P022),
		Ceiling Plate (Painted Steel / P025)
Car Wall	\rightarrow	Stainless Hairline,
		Stainless Hairline Etching (SE2312)
Handrail	\rightarrow	1FW (Optional) / Virus-Resistant Single
		Bar (Wood Pattern), Aluminum Braket
Car Door	\rightarrow	Stainless Hairline Etching (SE2312)
Car Operating Panel	\rightarrow	OPP-N364 (Optional)
Flooring	\rightarrow	PVC (FH-15)
Indicator	\rightarrow	PI-L210 (Optional) / Smart Indicator,
		Anion Air Cleaner,
		Ultrasonic Pest Repellant

* Optional items are sourced by S.KOREA.



201 Туре	Jamb	ightarrow Stainless Hairline / 201Type
	Transom Panel	\rightarrow Stainless Hairline
	Door	\rightarrow Stainless Hairline
		Etching (SE2312)
	Hall Button	\rightarrow HPB-A64
	Indicator	→ PI-D700
100 Туре	Jamb	ightarrow Stainless Hairline / 100 Type
	Door	→ Stainless Hairline Etching
		(SE2312)
	Hall Button	→ HIP-DA64
50 Type	Jamb	→ Stainless Hairline / 50 Type
	Door	→ Stainless Hairline Etching
		(SE2312)
	Hall Button	\rightarrow HIP-DA64

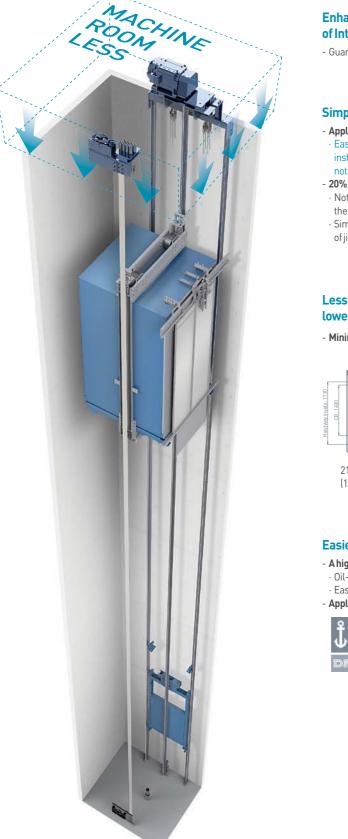
Minimal Space, Maximum Value!

In 1999, Hyundai Elevator introduced the YZER, Korea's first MRL (Machine Room Less) elevator. In 2015, the company rewrote MRL history with the introduction of the YZER I. By minimizing hoistway size, the YZER I reduces spatial needs while increasing customer value.

Hoistway Plan and Section

YZER I's hoistway, which exploits minimal space, is the product of extensive R&D by Hyundai Elevator's leading technical experts. Besides contributing to superior performance and riding comfort, it achieves a refined architectural design. The end result is the most efficient use of building space, lower construction costs, and easier maintenance.

Layout of Hoistway



Enhanced Safety through the Application of International Standards

- Guaranteed safe operation by using ropes that meet international standards

Simple Installation, Fast Delivery

- Application of rail mounting-type traction system
- \cdot Easy to set up because beam sleeve installation at top of the hoistway is

not necessary 20% shorter installation period · Not necessary to build footholds at the top and bottom of the hoistway · Simplified process through the use of jigs for exclusive use

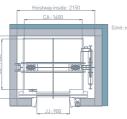


Less burden on construction design and lower construction costs

- Minimum hoistway size



300 mm reduction in depth



21% reduction in hoistway (1000kg capacity elevator)



- A high-performance, eco-friendly traction machine with a proven track record

· Oil-free traction system not requiring regular oiling of the bearing unit · Easier to maintain because on-site brake adjustment is not necessary

- Application of DNV, CE, TÜV and CSA-certified for system

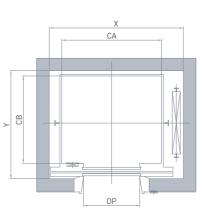




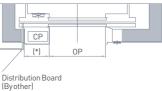




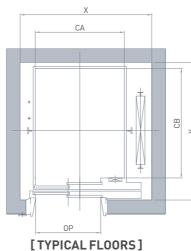




[TYPICAL FLOORS]



[TOP FLOOR]



(*)

[TOP FLOOR]

Distribution Board (By other)

Receptable (By other)

Ladder (By other)

Lighting (By other)

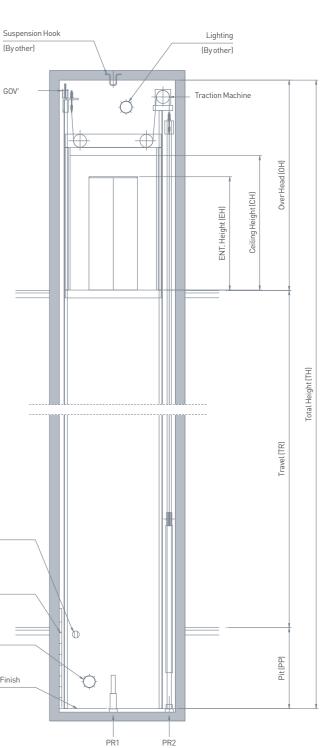
Waterproof Finish (By other)

Notes

hoistway and within 500mm above the bottom of the pit. (By others) conditioner(if necessary) and humidity below 90%

1. The lighting of hoistway should be installed less than 500mm from above the ceiling of 2. Machine room temperature should be maintained below 40°C with ventilating fan and/or air





Technical Data

Standard Dimensions and Reactions

		Speed (m/sec)	Capacity		Opening Type	Clear Opening	Car Size (mm)	Hoistway Size (mm)	Control Panel Box or Inspection Box (mm)	PIT Read	tion (KN)								
		(m/sec)	Persons	Kg	туре	OP	CA × CB	X × Y	СР	PR1	PR2								
			6	450		700	1100 × 1100	1700 x 1500		55	47								
			7	550		800	1100 × 1300	1800 x 1650		60	49								
			0	(20		000	1100 × 1400	1800 x 1750		69	F.(
			8	630		800	1400 × 1100	2000 x 1500		07	56								
	ard		9	700		800	1200 × 1400	1850 x 1750	505 ^(No.7)	73	59								
	Manufacturer Standard		10	800		900	1350 × 1400	2050 x 1750		77	61								
Center	er St	1.0	12	900	00.00	900	1500 × 1400	2100 x 1750		84	68								
Cel	ture	1.5 1.75	13	1000	2P-C0	900	1600 × 1400	2200 x 1750		95	75								
	ufac	1.70	15	1150		1000	1800 × 1400	2400 x 1750		108	86								
	Man							2550 x 2000	505 ^(No.7) (1.0~1.5m/sec)										
			18	1350										1000	1800 × 1600	2550 x 2300	Inspection box: 500W x 330H CP: In Hoistway(1.75m/sec)	147	118
								2750 x 2100	505 ^(No.7) (1.0m/sec)										
			21	1600		1100	2000 × 1700	2750 x 2400	Inspection box: 500W x 330H CP: In Hoistway(1.5~1.75m/sec)	157	128								
			5	400	2P-50	800	1000 x 1100	1550 x 1500	505 ^(No.7)	52	45								
			6	450		800	1100 x 1100	1700 x 1550		55	47								
			7	550		800	1100 x 1250	1700 x 1650		60	49								
			8	630		900	1100 x 1400	1700 x 1800		69	56								
	_		9	700		900	1200 x 1400	1800 x 1800		73	59								
	darc		10	800		900	1350 x 1400	1950 x 1800		77	61								
	Stan	1.0	12	900		900	1300 x 1600	1900 x 2000		84	68								
Side	rer	1.5	13	1000		900	1100 x 2100	1700 x 2500		95	75								
,,	actu	1.75	13	1000		1200	2100 x 1100	2700 x 1600		70	/5								
	Manufacturer Standard		15	1150		1000	1200 x 2100	1800 x 2550		108	86								
	ž						2050 x 2750	505 ^(No.7) (1.0~1.5m/sec)											
			18	1350		1100	1300 x 2300	2050 x 2860	Inspection box: 500W x 330H CP: In Hoistway(1.75m/sec)	147	118								
								2150 x 2850	505 ^(No.7) (1.0m/sec)										
			21	1600		1200	1400 x 2400	2150 x 2910	Inspection box: 500W x 330H CP: In Hoistway(1.5~1.75m/sec)	157	128								

Notes:

1. The above table of dimensions as per EN81-20, Please contact us for other country codes and specific requirements.

2. The persons is calculated at 75kg per person, as required by EN81-20.

3. If need with two entrances at 180° on one shaft, please contact us.

4. In case to requested a safety gear on couterweight side, please contact us.

5. Min. Dimension of Wall Thickness+Finished at Top floor is 250mm.

6. The Hoistway dimensions width & depth are based on clear dimension 0~20mm horizontal tolerances over the total hoistway height.

7. CP dimensions may be smaller than 505. For more details, please contact us.

erhead & Pit Dep	oth			[unit: mm]	
Duty Load (kg)	Speed (m/s)	Max. Travel (TR(m))	Overhead (OH)	Pit Depth (PP)	Notes:
	1.0	50	CH+1500	1200	 CH means the Ceiling Height which was included car internal ceiling. The table dimensions are complied EN81-20.
400 ~ 1150	1.5	70	CH+1600	1300	 To apply with the safety gear on counterweight side, OH, PIT should be increased.
	1.75	80	CH+1700	1400	Please contact us.
	1.0	50	CH+1500	1300	
1350 ~ 1600	1.5	70	CH+1600	1400	
	1.75	80	CH+1700	1500	

Works to Be Done by Others

The following construction and electrical works are not included in the elevator contract and shall be performed by others.

Building Work

Hoistway

- ${\rm 1.} \ {\rm Drilling \ holes \ in \ the \ walls \ near \ the \ elevator \ entrance \ on \ each \ floor}$ (for the entrance, hall button, hall lantern, etc.) and wall & floor-finish work after elevator installation (including mortar grouting)
- 2. Installation of steel reinforcement to fix jambs on the left and right sides of the
- entrance
- **3**. Installation of ladder for pit inspection
- 4. Finish work after waterproofing of the inside of pit and mounting of the buffer 5. Supply and installation of hoistway enclosure or separating beam materials
- (when necessary) 6. Construction of concrete or beam-structured hoistway walls (at least 150 mm
- thick) where rail brackets can be fixed

Electrical Work

Hoistway

- 1. Electrical outlet wiring
- 2. Piping and wiring for electric wires from the monitoring system to the hoistway if such a system is set up
- 3. Piping and wiring for electric wires if a CCTV is installed
- 4. Miscellaneous (as indicated in drawings)
- 5. Power and lighting wiring for the power supply in the hoistway (For installed power capacity, please see drawings for power system construction to be done by other contractors.)
- 6. Installation of a power distribution box including N.F.B. in the electrical room for elevator use (It shall be installed near the hoistway. For installed power capacity, please see drawings for power system construction to be done by other contractors.)

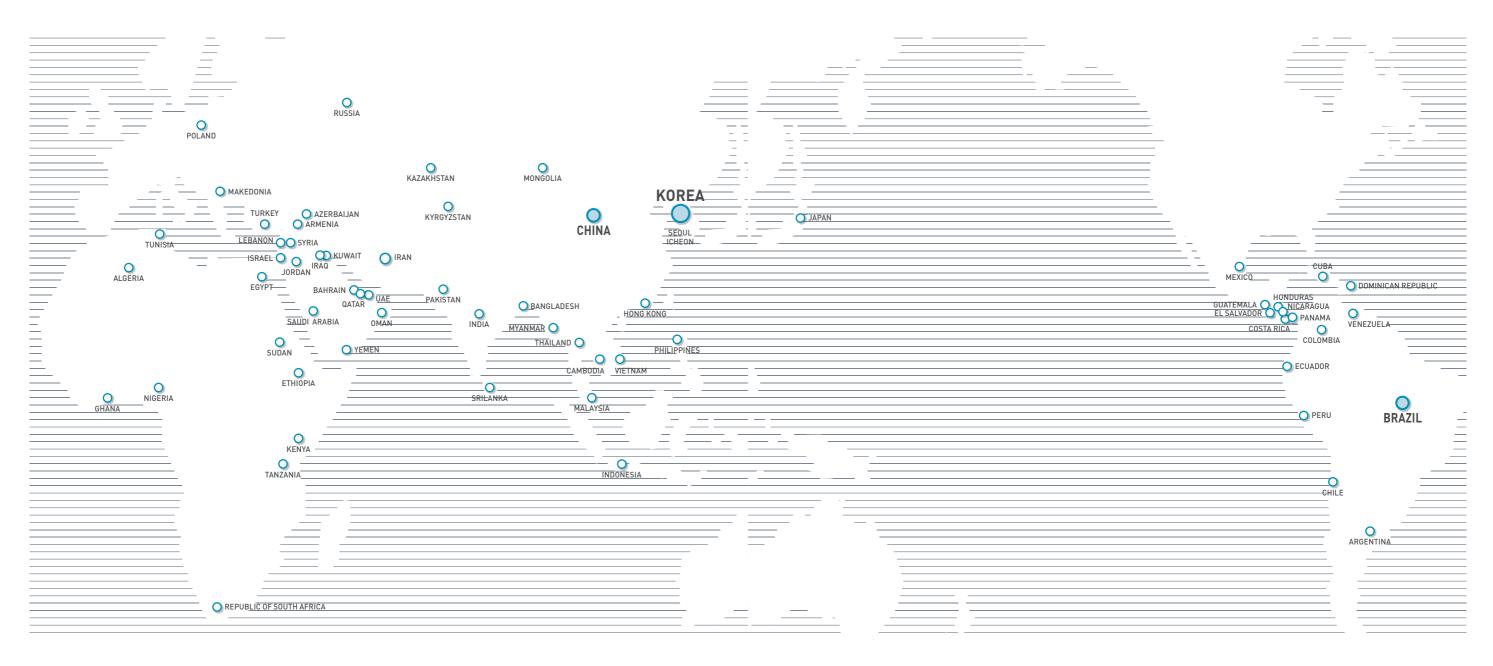
Power Supply Plan

Load	Speed (m/s)	Motor Capacity (kW)	MCCB Capacity of Building (A)		Power Supply Capacity (kVA)		Power Cable Size (mm²)		Earth Wire Size (mm²)		Starting Power
(kg)			1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars	(kVA/car)
400	1.0	2.7	20	40	7.2	15	4	10	6	10	12
450	1.0	3.0	20	40	7.5	15	4	10	6	10	12
550	1.0	3.7	32	75	8.2	17	4	10	6	10	14
	1.0	4.2	32	75	8.7	17	4	10	6	10	18
630	1.5	6.3	40	75	10.8	22	6	16	6	10	30
	1.75	7.4	40	75	13.0	26	6	16	6	10	30
	1.0	4.7	32	75	9.2	19	4	10	6	10	18
700	1.5	7.0	40	75	11.5	22	6	16	6	10	30
	1.75	8.3	40	75	13.9	28	6	16	6	10	30
	1.0	5.3	32	75	9.8	20	4	10	6	10	18
800	1.5	8.0	40	75	12.5	25	6	16	6	10	30
	1.75	9.4	40	75	14.9	30	6	16	6	10	30
	1.0	6.1	32	75	10.6	23	4	10	6	10	24
900	1.5	9.0	40	75	14.0	28	10	25	6	10	42
	1.75	10.6	50	100	16.1	35	10	25	6	10	42
	1.0	6.7	32	75	11.2	23	4	10	6	10	24
1000	1.5	10.0	50	100	15.0	30	10	25	6	10	42
	1.75	11.7	50	100	17.2	36	10	25	6	10	42
1150	1.0	7.7	40	75	12.2	25	4	10	6	10	28
	1.5	11.5	50	100	20.0	40	10	25	6	16	48
	1.75	12.3	50	100	20.0	40	10	25	6	16	48
1350	1.0	9.2	50	100	13.7	30	4	10	6	10	28
	1.5	13.8	50	100	22.3	45	10	25	6	16	48
	1.75	16.1	70	150	23.8	50	10	25	6	16	48
1600	1.0	10.8	50	100	15.3	34	4	10	6	10	28
	1.5	16.3	75	150	24.8	50	10	25	6	16	48
	1.75	19.0	75	150	26.7	55	10	25	6	16	48

* If requested 1.5 or 1.75m/s for 400~550kg, Please applied the data of 630kg to below above table

- 7. Removal of wedge pins and molds from, and cleaning of, hoistway walls
- 8. Provision of space (at no cost) where construction equipment and materials can be stored
- 9. Destruction of concrete structures which are inconsistent with design plans and necessary finish work
- 10. Installation of lighting fixtures in the hoistway (minimum 100 lux lights to be installed at top and bottom of the hoistway)
- 11. Hoisting beam or hook installation to lift machines to the top of hoistway ceiling **12**. Miscellaneous (as indicated in drawings)
- 7. Power system construction that maintains the line voltage fluctuation of a power-distribution source and a light within the range of +5% to -10% and with in ±2% respectively
- 8. Piping and wiring for outlets used for pit inspection lighting
- 9. Power supply for construction and test operation during installation (at no cost) 10. Piping and wiring for an emergency call apparatus between the elevator control unit and the central control room/security office (electric wire
- specifications: per elevator unit; UTP 0.5 mm x 2P)

*	If a steel frame-structured hoistway is set up, please contact us for hoistway
	planning and other details.



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