

Abode of Trust



 **PRINCIPAL**
ELEVATOR & POWER LTD.

Expert in Elevator &
Escalator Solution

www.principalgroupbd.com

A Commitment to **EXCELLENCE**

- Why Choose us?
- Better Quality Control
- Savings in Cost & Time
- Reduced Administrative Burden
- R & D Center
- Rich Experienced Team
- Long-term Customer Relationships
- Exclusive Industry Knowledge



Principal elevators & power ltd. Founded in 2015 and started our business as manufacturer, suppliers and maintenance of elevators in bangladesh. Within a short span of time Principal elevators & power ltd. became successful in lift servicing ,maintaining, installation and supplied elevators in places Dhaka, Chattogram, Sylhet, Khulna .

We will strive to achieve the quality and reliability in our elevators on a continue basis and design the elevators with advanced technology and of international quality & safety standards to manufacture for highest durability & sustainability.

To reach customer expectations we design the elevators based on customization with utmost care by taking it as a high priority. As a professional our company has research and development ,technical support team ,manufacturing team, designers and engineers to make our lifts unique and easy to install for all types of lifts.

A stylized signature in black ink.

Managing Director & CEO



According to the customer requirements and specification the components used in our lifts are of industry set norms and international standards can be customized

TRUST & INTEGRITY
SERVICES
QUALITY
RELIABILITY
SAFETY



Through providing exceptional value to customers our vision is to achieve

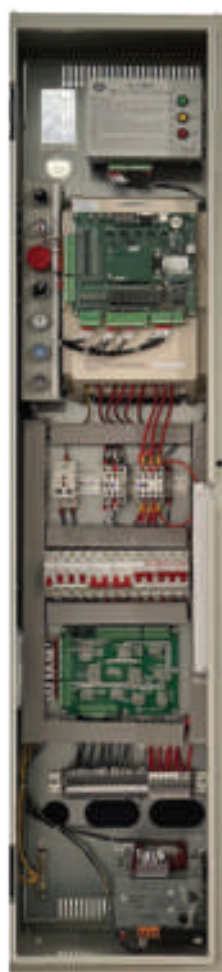
Market leadership .We must deliver industry leading services and superior

Customer care for providing competitive products



We build a strong brand name to retain a respected position among best lift suppliers & manufacturers in bangladesh. We invest in innovation, infrastructure and in our people

To achieve constant growth and success .



Integrated drive controller of elevator

It fully considers the safety, reliability, operating & using features and specific potential energy load of elevator, adopts the advanced variable velocity variable frequency technology and control technology of intelligent elevator, integrates the control with the drive into one organically, all that give a further improvement to the product in the performance index, easy operation, economical efficiency, etc

32 bit dsp processor

The performance-upgraded control system adopts a high-performance 32-bit dsp processor, which has strong anti-interference ability to comprehensively improve the system's response speed and reliability

High performance host

The drag capacity and braking torque of new generation of permanent magnet synchronous gearless mainframe are better than the national standard requirements. Ensuring reliable operation of the elevator



Synchronous vvvf automatic door machine

Toothed belt transmission low noise

Overall upper guide-rail-light and handy structure 3d adjustable installation easy installation

Digitalized variable frequency-low trouble rate





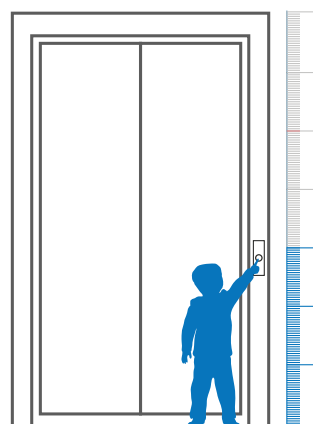
Intelligent elevator dispatching system

To solve the problem of efficient riding in crowded places, the intelligent group control elevator dispatching system is used to optimize the elevator operation mechanism, greatly shortening the waiting time and improving the operating efficiency of the buildings



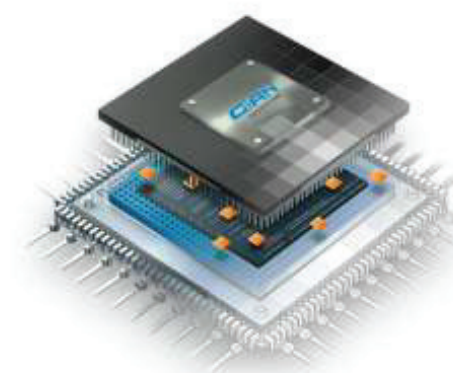
Intelligent light curtain protection

The high-beam light curtain system is sensitive, efficient and accurate it can automatically detect the fault location while ensuring personal safety, providing a basis for quickly solving the light curtain problem.



Intelligent management system of building

The management system adopte 's intelligent identification system and Establishesboste system to scoursto manage
The travel safety of residents.



5g remote visual rescue

Through the live multi-point real-time video, professionals operate and reecue trapped passengero

Small machine room Passenger elevator

In order to save space and make the building more artistically, fuji elevator choose the disk type traction machine with permanent-magnet motor. As a result the space utilization and storage flexibility will be improved significantly.

High-efficient use with small Space for free travel

Make efficient use of space to improve building quality simplify the installation process and shorten the installation reasonably communicate design to reduce energy consumption

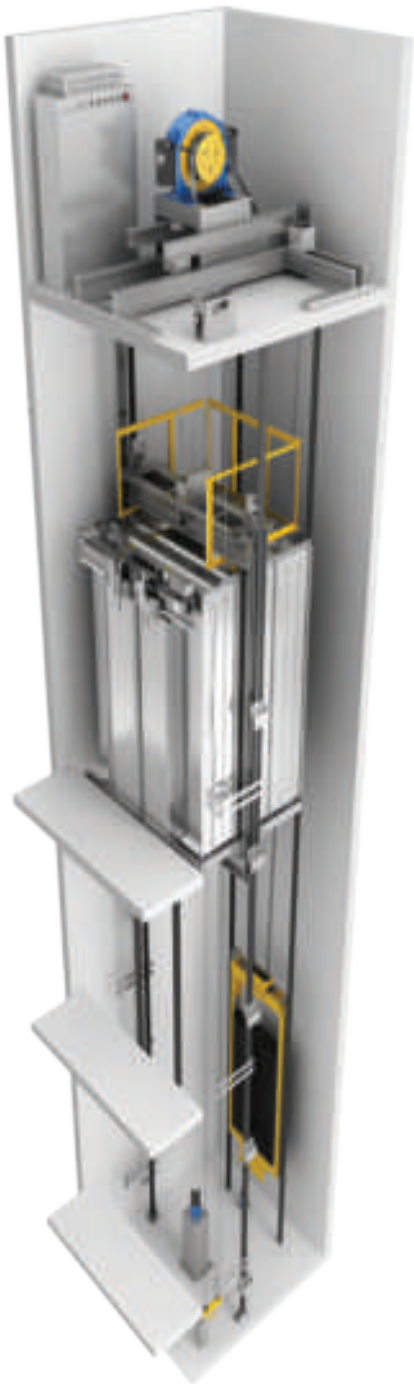


30%

High efficiency and 30%

40+%

Machine room area saved more than 40%



Machine roomless Passenger elevator

With a deep understanding of the concept of environmental protection, energy saving and consumption reduction, saving construction area, and improving the degree of freedom of design, fuji machine room-less elevator fully embodies. The spirit of green humanism. The elevator only needs an independent shaft space and no machine room. Compared with traditional elevators with the same load, it saves 40% of electric energy and 10% of building area

Unlimited possibilities

No need to set up a host machine room, which greatly saves construction costs. Optimize the building space and provide more possibilities for Architectural design no need to reserve complex holes, and the civil construction. Requirements are simpler.

10%

It saves 10% of the building area

25+%

It enhances 25%-30% of the efficiency

40%

It saves 40% of the electric energy





Installation Maintenance

Traction Modernization



Installation

3- Stage audit process

- Engineering support at all stages
- Professional project management
- Timely installation & handover
- Highly trained & experienced manpower

Maintenance

- High serviceable life of equipment (18-20 yrs.)
- Highly skilled technicians & engineers
- Dedicated service teams
- 24x7 toll free maintenance helpline
- Erp driven online activities (paperless)

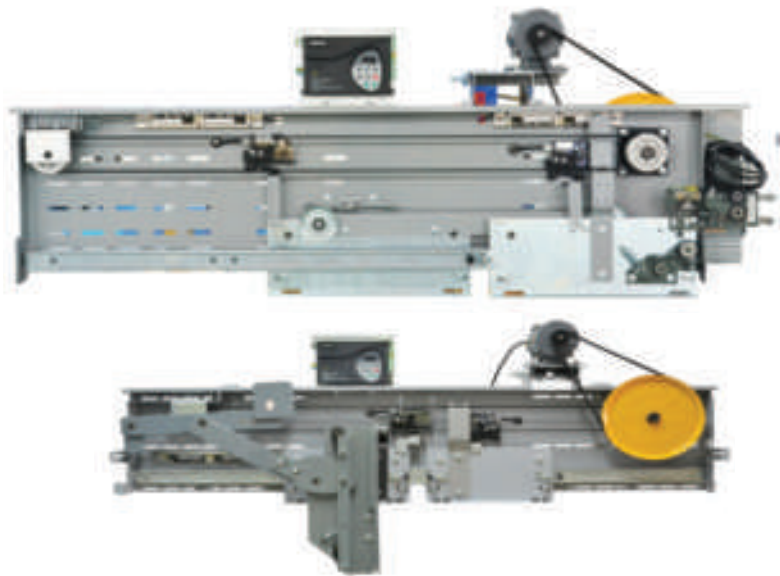
Modernization

Element provides an unparalleled solution to for traction modernization upgrades. Element uses a proven approach.

Elevate your everyday

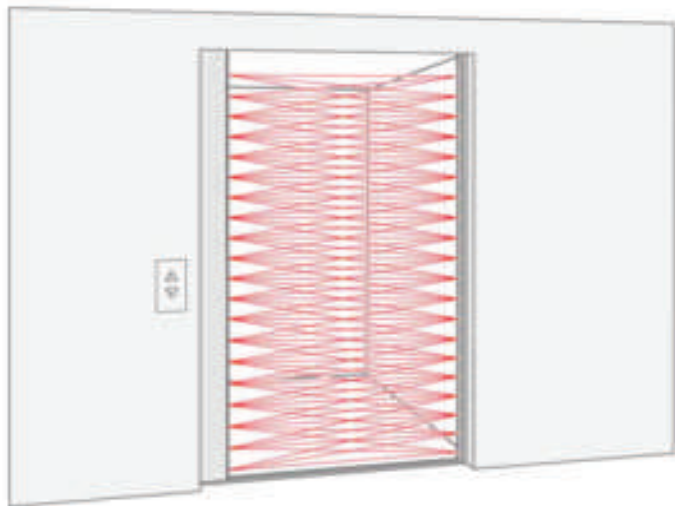
Safe Ride Experience

Unique ACPM door motor with fault detection and record, which provides safe, quiet and high-efficiency. It reduces energy up to 35%. The speed and power can be adjusted. The built-in run curve optimizes the self-learn. The full closed-loop controls the speed and the position software, which provides high accuracy.



Infra-red Light-curtain

When passenger enters the elevator and blocks the infra-red beam, the light curtain detects automatically and output the signal to the door system. The door opens instantly without harming and clamping to the passengers



Safe and Reliable Design



Guide Rail

Anti-vibration
BEE type high precision
machined guide rail
Pre-assembled



Cabin Design

Filled car walls
Centrifugal fan
Semi-cut(oval) top/bottom
shroud shroud
The vibration isolators



Compensation Tension Unit

Boost with the tension sheave, weights and viscous dampers.
The calculation of the ratio of the tension weight to the damping coefficient takes the natural swing of the high building into account.
Ensure minimal swing under high wind



Safety Gear

Carbon fiber clamp or composite ceramic clamp lining
Meet the high-speed elevator wear resistance to high thermal shock requirements



- Standard pre assembled for 5m/s elevator
- Increase guide rail installation accuracy



PEPL-K101 Standard

Ceiling: Hairline stainless steel + acrylic
Rear wall: Hairline stainless steel
Side wall: Hairline stainless steel
Front wall: Hairline stainless steel
Car door: Hairline stainless steel
Handrail: Hairline stainless steel round
Floor: PVC/ Marble (optional)



Car show



Car show

PEPL-K102 Optional

Ceiling: Mirror stainless steel frame, downlight, acrylic light decoration
Rear wall: Hairline stainless steel + mirror stainless steel
Side wall: hairline stainless steel
Handrail: Hairline stainless steel flat handrail
Floor: PVC/ Marble (optional)



Car show

PEPL-K103 Optional

Ceiling: Hairline stainless steel + acrylic
Rear wall: Hairline stainless steel + glass
Side wall: Hairline stainless steel + operation panel for disabled(optional)
Handrail: Hairline stainless steel flat handrail
Floor: PVC/ Marble (optional)



Car show

PEPL-K106 Optional

Ceiling: Hairline stainless steel frame, arched white, transparent panel with soft lighting design
Car wall: Hairline stainless steel + mirror etching stainless steel
Handrail: Stainless steel flat handrail
Floor: PVC/ Marble (optional)



Car show

PEPL-K107 Optional

Ceiling: Mirror stainless steel, acrylic lighting decoration, LED down lights
Car wall: Hairline stainless steel + mirror etching stainless steel
Handrail: Stainless steel flat handrail
Floor: PVC/ Marble (optional)



Car show

PEPL-K104 Optional

Ceiling: Mirror stainless steel frame + Arched white transparent panel with softlighting design
Car wall: Hairline stainless steel + mirror etching stainless steel
Handrail: Hairline stainless steel round
Floor: PVC/ Marble (optional)



Car show

PEPL-K105 Optional

Integrated ceiling: Stainless steel+ acrylic + downlights
Car wall: Middle: mirror etching stainless steel panel, Two side: hairline stainless steel
Front wall: hairline stainless steel
Floor: PVC/ Marble (optional)



Car show

PEPL-K108 Optional

Ceiling: Hairline stainless steel frame, Arched white, transparent panel with soft lighting design
Car wall: Hairline stainless steel+mirror etching stainless steel
Handrail: Stainless steel round handrail
Floor: PVC/ Marble (optional)



Car show

PEPL-K109 Optional

Ceiling: Hairline stainless steel frame, acrylic light decoration
Car wall: Mirror etching stainless steel, hairline stainless steel
Handrail: None
Floor: PVC/ Marble (optional)



Car show

PEPL-K110 Optional

Ceiling: Mirror stainless steel + acrylic light decoration + LED downlights
Rear wall: Mirror etching stainless steel, mirror stainless steel
Side wall: Mirror etching stainless steel
Handrail: None
Floor: PVC/ Marble (optional)



Car show

PEPL-K111 Optional

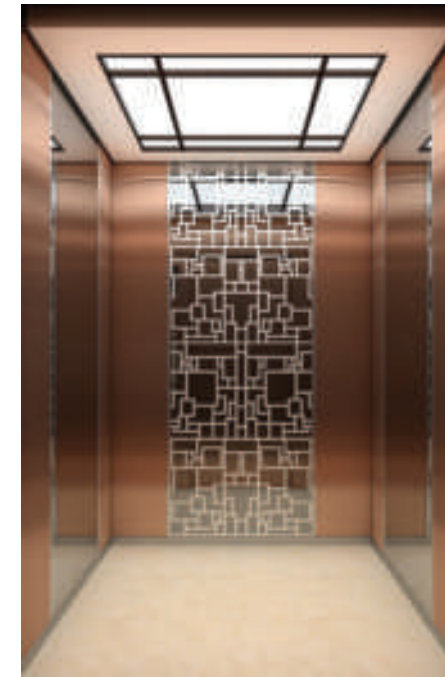
Ceiling: Hairline stainless steel frame, Acrylic plate, the canister reading lamp with late model LED lighting
Car wall: Middle: mirror sand blasting stainless steel, Two side: mirror stainless steel panel Car door: Mirror stainless steel
Floor: PVC/ Marble (optional)



Car show

PEPL-K117 Optional

Ceiling: Mirror stainless steel, crystal post, hidden light band
Rear wall: Hairline stainless steel, mirror stainless steel
Side wall: Hairline stainless steel, rose gold mirror stainless steel
Handrail: None
Floor: PVC/ Marble (optional)



Car show

PEPL-K125 Optional

Ceiling: Mirror stainless steel + acrylic light decoration
Rear wall: Rose gold hairline stainless steel + mirror etching stainless steel + stainless steel strip
Side wall: Rose gold hairline stainless steel + mirror stainless steel + stainless steel strip
Handrail: None
Floor: PVC/ Marble (optional)



Car show

PEPL-K112 Optional

Ceiling: Hairline stainless steel, acrylic transparent plate
Car wall: Hairline stainless steel, mirror etching stainless steel
Handrail: Stainless steel flat handrail
Floor: PVC/ Marble (optional)



Car show

PEPL-K113 Optional

Ceiling: Mirror stainless steel frame, acrylic plate, LED lighting
Car wall: Middle: mirror etching stainless steel panel, Two side: hairline stainless steel
Car door: Hairline stainless steel
Floor: PVC/ Marble (optional)



Car show

PEPL-K129 Optional

Ceiling: Rose gold stainless steel frame, acrylic plate
Rear Wall: Middle: Rose gold mirror etching stainless steel panel, Two side: Rose gold etching stainless steel panel
Side Wall: Middle: Rose gold mirror etching stainless steel panel, Two side: Rose gold etching stainless steel panel
Car door: Rose gold stainless steel
Handrail: Rose gold stainless steel flat handrail
Floor: PVC/ Marble (optional)



Car show

PEPL-K118 Optional

Ceiling: White wood veneer with metal lines, return light band, downlight
Car wall: Titanium gold mirror stainless steel, wood veneer
Handrail: None
Floor: PVC/ Marble (optional)



Car show

PEPL-K134 Optional

Ceiling: Titanium gold mirror stainless steel with LED lighting decoration panel
Car wall: Titanium gold hairless stainless steel + titanium gold mirror etching stainless steel Handrail: Titanium gold stainless steel round handrail
Floor: PVC/Marble (optional)



Car show

PEPL-K137 Optional

Ceiling: Titanium gold hairline stainless steel with tube lamp design
Car wall: Titanium gold mirror etching stainless steel + Titanium gold hairline stainless steel
Handrail: None
Floor: PVC/ Marble (optional)



Car show

PEPL-K121 Optional

Ceiling: Titanium gold mirror stainless steel with tube lamp design + art light
Rear wall: Titanium gold mirror stainless steel + marble slab
Side wall: Titanium gold mirror etching stainless steel + marble slab
Handrail: Wood, titanium gold stainless steel round handrail
Floor: PVC/ Marble (optional)



Car show

PEPL-K120 Optional

Ceiling: Black titanium stainless steel frame + acrylic soft lighting design
Car wall: Black titanium hairline stainless steel + black titanium mirror etching stainless steel
Handrail: None
Floor: PVC/ Marble (optional)



Car show

PEPL-G205

Ceiling: Hairline stainless steel + acrylic
Car rear wall: Safety laminated glass
Car side wall: Hairline stainless steel + safety laminated glass
Car front wall: Hairline stainless steel
Handrail: Mirror stainless steel tube floor handrail
Floor: PVC/ Marble (optional)



Car show

PEPL-G206

Upper and lower covers: Simple upper and lower covers
Ceiling: Powder coated steel + LED downlights
Car rear wall: Hairline stainless steel+ laminated glass
Car side wall: Hairline stainless steel+ laminated glass
Car front wall: Hairline stainless steel+ laminated glass
Handrail: Hairline stainless steel round
Floor: PVC/ Marble (optional)



Car show

PEPL-G208

Car cover: Titanium stainless steel frame
Panorama wall: Glue glass of safety clamp
Ceiling: Acrylic craft board, energy-saving light
Car wall: Titanium finished stainless steel Handrail: Titanium stainless steel round handrail
Floor: PVC/ Marble (optional)



Car show

PEPL-G207

Upper and lower covers: Powder coated steel panel + downlights
Ceiling: Powder coated steel + acrylic
Car rear wall: Titanium gold mirror stainless steel+ laminated glass
Car side wall: Titanium gold mirror etching stainless steel+titanium gold hairline stainless steel
Car front wall: Titanium gold hairline stainless steel
Handrail: Titanium gold hairline stainless steel
Floor: PVC/ Marble (optional)

Landing door



PEPL-JM801
Standard
Hairline stainless steel

PEPL-JM802
Optional
Etching Mirror

PEPL-JM803
Optional
Etching Mirror

PEPL-JM804
Optional
Etching Mirror

PEPL-JM805
Optional
Etching Mirror



PEPL-JM806
Optional
Etching Mirror

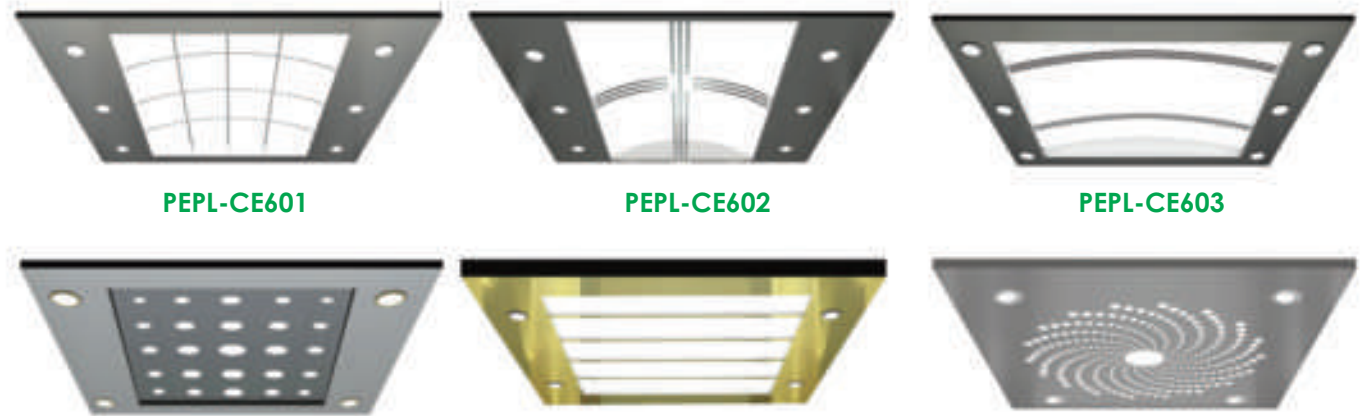
PEPL-JM807
Optional
Etching Mirror

PEPL-JM808
Optional
Glass Door

PEPL-JM809
Optional
Glass Door

PEPL-JM810
Optional
Black Titanium

Car ceiling (Optional)



PEPL-CE601

PEPL-CE602

PEPL-CE603

PEPL-CE604

PEPL-CE605

PEPL-CE606

Man-machine interface



PEPL-C01
Optional

PEPL-C02
Optional

PEPL-C03
Optional



PEPL-C04
Optional

Operation panel for disabled



PEPL-C05
Optional

Button



PEPL-A01
Optional

PEPL-A02
Optional

PEPL-A03
Optional

PEPL-A04
Optional

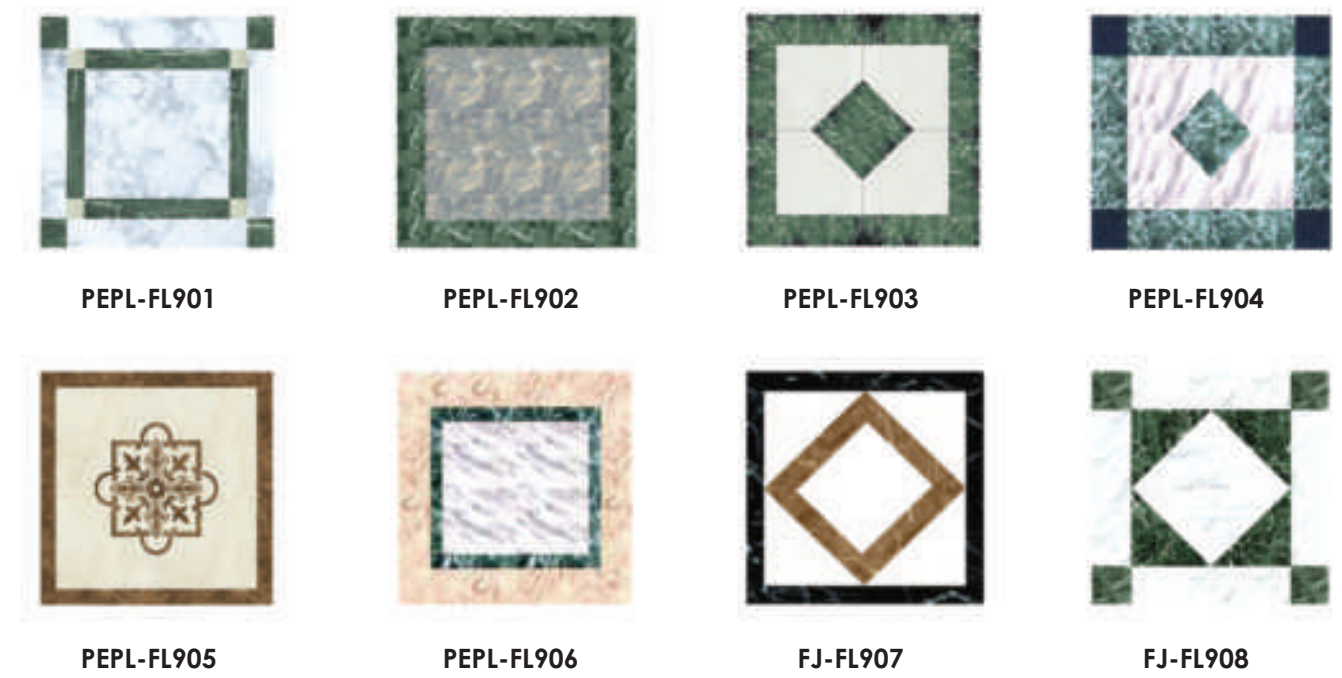
PEPL-A05
Optional

PEPL-A06
Optional

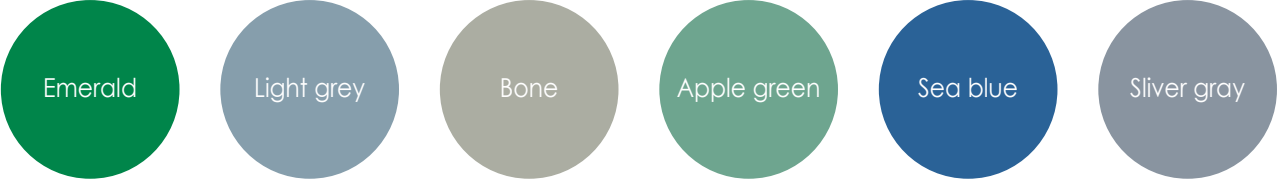
Handrail (Optional)



Floor (Optional)



Optioal colors



PARAMETER *Table*

Load kg	Speed m/s	Car Size			Door Opening Size		Hoistway Size				Maximum Landing	Maximum lifting height	Net height of machine room
		CW	CD	CH	OP	OPH	HW	HD	K	s			
450	1	1100x1100x2350			700x2100		1800x1750		4500	1500	20	60	2500
	1.5								4600	1500	24	72	
	1.75								4700	1600	30	90	
	2								4800	1800	40	120	
	2.5								5100	2300	40	130	
630	1	1400x1100x2350			800x2100		2000x1750		4500	1500	20	60	2500
	1.5								4600	1500	24	72	
	1.75								4700	1600	30	90	
	2								4800	1800	40	120	
	2.5								5100	2300	40	130	
800	1	1400x1350x2350			800x2100		2000x2000		4500	1500	20	60	2500
	1.5								4600	1500	24	72	
	1.75								4700	1600	30	90	
	2								4800	1800	40	120	
	2.5								5100	2300	40	130	
1000	1	1600x1500x2350			900x2100		2000x2000		4500	1500	20	60	2500
	1.5								4600	1500	24	72	
	1.75								4700	1600	30	90	
	2								4800	1800	40	120	
	2.5								5100	2300	40	130	
1150	1	1700x1500x2350			1000x2100		2300x2200		4500	1500	20	60	2500
	1.5								4600	1500	24	72	
	1.75								4700	1600	30	90	
	2								4800	1800	40	120	
	2.5								5100	2300	40	130	
1250	1	1800x1550x2350			1000x2100		2400x2250		4500	1500	20	60	2500
	1.5								4600	1500	24	72	
	1.75								4700	1600	30	90	
	2								4800	1800	40	120	
	2.5								5100	2300	40	130	
1600	1	2050x1700x2350			1100x2100		2600x2400		4500	1500	20	60	2500
	1.5								4600	1500	24	72	
	1.75								4700	1600	30	90	
	2								4800	1800	40	120	
	2.5								5100	2300	40	130	

Bed Elevator

Kinetek stretcher elevator is specially designed for high-rise residential buildings with 12 floors and above, designed to accommodate stretcher products. According to the special features of the product. It has the advantages of large space, simplified equipment and simple operation, which will play an important role in high-rise residence.



Technical Specification

Load (kg)	Speed (m/s)	Max. Travel (m)	Max. Floors	Cabin Size (mm)			Door Opening Size		Shaft Size (mm)		Pit	Overhead	Moto Power
				CW	CD	CH	OP	OPH	HW	HD			
1000	1	60	20	1100x2100x2500			900x2100		2000x2500		1400	4200	6.7
	1.5/1.75	72	24								1500	4400	11.7
	2.0	120	40								1750	4750	14.1
	2.5	130	45								1900	4950	13.4
1600	1	60	20	1400x2400x2500			1100x2100		2400x2750		1550	4450	10.4
	1.5	72	24								1650	4600	18.2
	1.75	90	30								1650	4650	18.2
	2	120	40								1750	4750	20.8
1600	2.5	130	45	1550x2600x2500			1200x2100		2550x3000		1900	4950	26
	1	60	20								1550	4450	18.2
	1.5	72	24								1650	4600	20.8
	1.75	90	30								1650	4650	26
	2	120	40								1750	4750	30
	2.5	130	45								1900	4950	33

Freight Elevator

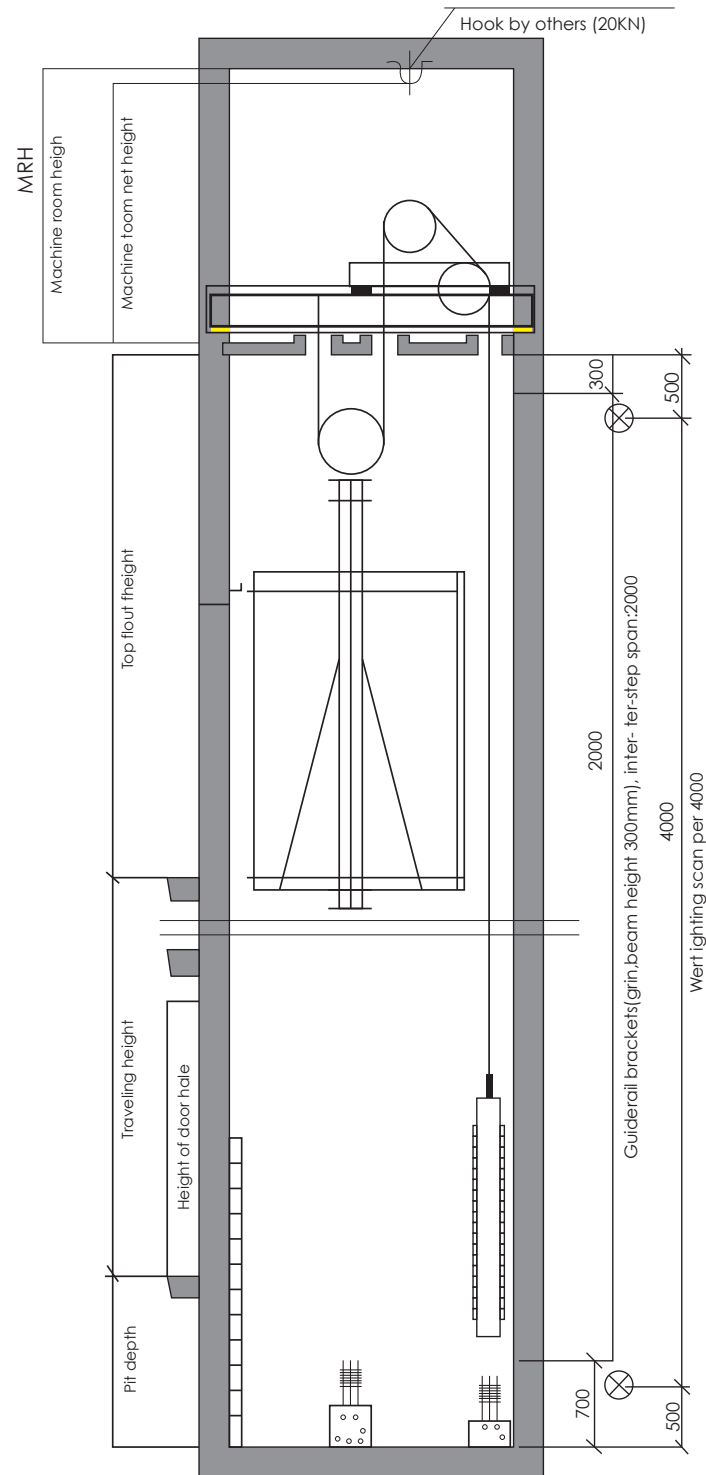
In the field of logistics, in the needs of factories, warehouse shopping centers, supermarkets, stations, airports and other places, combined with the years of elevator production experience of elevator the production and manufacture of reliable cargo staircase products can be carried out in all kinds of bad environment elevator uses 6 sets of guide-ways for heavy goods lift to ensure safe and reliable elevators, high strength, durability and smooth operation.



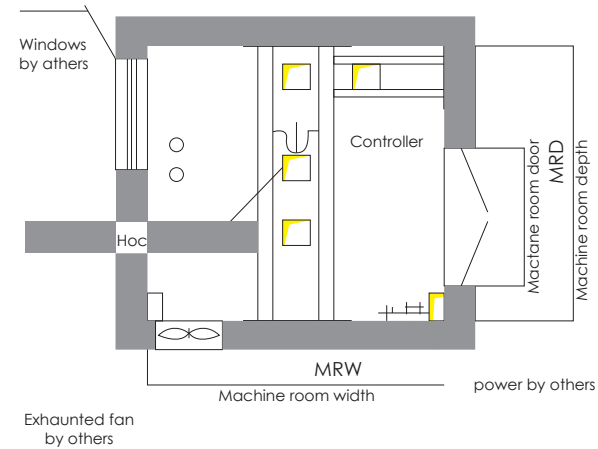
Technical Specification

Load (kg)	Speed (m/s)	Max. Travel (m)	Max. Floors	Cabin Size (mm)			Door Opening Size		Shaft Size (mm)		Pit	Overhead
				CW	CD	CH	OP	OPH	HW	HD		
1000	0.5	24	9	1400x1600x2200			1100x2100		2450x2000		1500	4200
	1.0	60	20								1500	4300
	1.75	72	24								1750	4500
2000	0.5	24	9	1700x2300x2200			1500x2100		2850x2800		1500	4200
	1.0	60	20								1500	4300
	1.75	72	24								1650	4500
3000	0.5	24	9	2000x2800x2200			1800x2100		3300x3300		1500	4500
	1.0	60	20								1500	4800
	0.25	12	5								1500	4800
5000	0.5	24	9	2400x3600x2500			2400x2400		4000x4000		1500	4800
	1.0	60	20								1500	5100

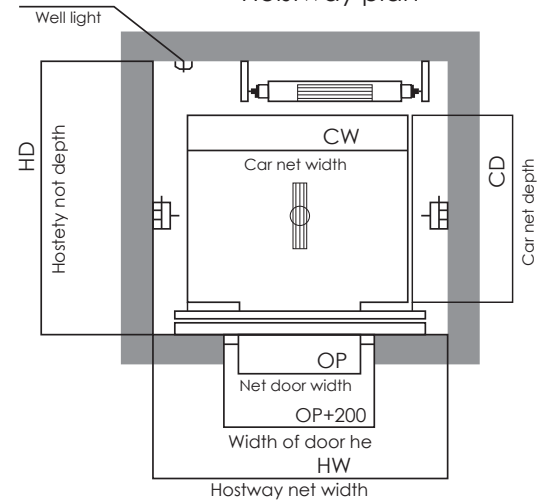
Hoistway Section



Machine room plan



Hoistway plan



sister
Concern

PRINCIPAL DEVELOPMENT LIMITED

PRINCIPAL ENGINEERING FIRM

PRINCIPAL ISLAND city & Park

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ZIEHL-ABEGG



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ELEVATOR & POWER LTD.
INSTALLATION | SERVICE | MAINTENANCE | MODERNIZATION

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