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Project Gallery









Hitachi Yungtay Elevator Co., Ltd. (formerly Yungtay Engineering Co., Ltd.) was founded in July 1966. For more than 50 years, we have always adhered to the spirit of "always think more for you" and provided customers with the best quality service with a careful and professional attitude and The most appropriate consultation and advice. So far, over 250,000 elevators have been operated worldwide, and it has been awarded the top 500 enterprises of the world magazine.

Looking forward to the future, we will continue to fulfill our consistent commitment to customers, provide high-quality and comprehensive products and complete warranty services, and accelerate research and development to create a win-win future for enterprises and customers.









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Energy-saving Technology

Gearless PM Motor Traction Machine

- Traction machine with higher transmission efficiency and lighter weight that can reduce electricity consumption to save energy as well as lower carbon emission.
- Gearless structure eliminates the noise by occlusion of gear wheels. As a result, there is no need to use gear oil for lubrication.
- Winding Self-Interlock Device: Even if the brake fails, the elevator will only slowly slide down until the buffer is compressed, and then the slide halts; no severe damage will incur due to uncontrollable collision.
- Dual brakes.



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PM Direct Drive Synchronous Door System

The smart PM motor is higher efficient and lower noisy, possessing the technologies of motor parameters and magnetic pole self-learning. The end of the car door closing will be smoother, faster, steadier, and quieter.



Energy Feedback Device (OPTION)

When the elevator wit hout equipped wit h an energy feedback device, t he electric energy generated during t he light load travels up or t he heavy load travels down will be dissip ated in the form of heat energy in t he resistance box of the equipment room. This result in the temperature of the machine room rising and reduce the service life of t he products in the machine room.

If the elevator equips with an energy feedback device, the electric energy generated during the elevator operation can be recovered and fed back to the power grid of the building for use by general daily electrical appliances, thereby reducing the overall energy consumption of the building.

The power saving rate varies according to site conditions; on average, it can save about 30% of energy consumption. In addition, the energy feedback device is also used with a permanent magnet motor, saving up to about 50% of the elevator energy consumption.

% The power generation efficiency is the highest when the elevator goes up with no load or down with a full load.

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High-efficiency Energy Feedback Devices Save Up to 50% of Elevator Energy Consumption.

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The "Permanent-Magnet Motor" elevator equips with an energy feedback device, saving up to about 50% of the energy consumption of the elevator. It has also obtained the EU VDI 4707 A-level energy saving certification.





Car, Entrance Design





Ceiling	Steel Plate with Baked Painting
Ventilation	Crossflow Fan
Door	Stainless Steel with Hairline Finished
Panel	Stainless Steel with Hairline Finished
OPB Panel	OPY-HD2F
Floor	Steel Tread plate



4 Panels Central-Opening

Door	Central-Opening				
Jamb	Narrow-Type (Hairline finished SUS)				
Sill	Ironworking				
IND Panel	FOX LED				
* Suitable for loaded 2500kg ~ 3000kg.					

2 Panels Side-Opening

Door	Side-Opening
Jamb	Narrow-Type (Hairline finished SUS)
Sill	Aluminum Alloy
IND Panel	FOX LED

* Suitable for loaded 2000kg or below.



Dimensions of Entrance



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B-B Section



Hoistway Layout and Dimensions

Hoistway Section



Hoistway Floor Plan

Note:

1. The part marked with an asterisk are the excluded project, which is the owner's responsibility.

2. The Overhead Height (OH) and Pit Depth (P) listed in the graph are all 50mm larger than regulations.

3. The minimum height of each floor shall not be less than 3000mm.

4. When the opening and closing direction of the door is changed, the left and right openings of the machine room are reversed.

5. The above regulations are for reference only. Please get in touch with our company for detailed specifications.

Table of Regular Dimension - Rated Load 2000KG (and below)

Rated Load	Rated Speed	Car Inside Width AxB	Entrance	Hoistway Width	Lvalue	Machine Room Dimension	Machine Room Reaction Loading (KG)		Pit Reaction Loading (KG)	
(KG)	(m/min)	(Car Outside Width axb)	Width(w)	(X x Y)	5 value	SxT	RW1	RC1	RW2	RC2
1000	45	1700x2300	1400	2650x2900	600	4650x2900	6300	2050	8000	9700
1000	60	(1800x2540)	1400					3030	10600	12800
1500	45	2200x2400	1700	2250v2000	700	5000v2000	8350	4700	11600	14100
1500	60	(2300x2640)	1700	3230x3000	100	5000x5000	8330	4700	15300	18700
2000	45	2200x2800	1700	2050 2400	700	F0002400	11000	6200	13300	16700
60		(2300x3040)	1/00	3250X3400	100	5000x3400	11400	7300	17600	22100

Electrical Data - Rated Load 2000KG (and below)

Rared Load Rated Speed		Motor Capacity	Transformer capacity	Breaker Ampere (A)		Wire Gauge Cross-sectional Area (mm²)		Ground Wire Cross-sectional Area (mm²)		Heat Output
(KG)	(11/1111)	(KW)	(KVA)	220v	380v	220v	380v	220v	380v	(Kcal/hr)
1000	45	4.6	6	40	20	5.5	5.5	3.5	2	1145
1000	60	6.2	6	40	30	14	5.5	5.5	2	1344
1500	45	6.9	6	50	30	14	5.5	3.5	2	1483
1500	60	9.6	13	40*	40	5.5*	5.5	3.5*	3.5	2294
2000	45	9.2	8	50	40	14	5.5	3.5	3.5	1941
2000	60	13.1	16	50*	50	14*	14	5.5*	5.5	2716

* The diameter of the wire is calculated based on the distance between the building's electrical substation and the elevator machine room within 50 meters. * If the on-site power supply is 220V, an additional transformer for the elevator (220V->380V) must be added.

Unit : mm

* Power Supply : AC 3Φ, 220 V/380V, 60Hz

Hoistway Layout and Dimensions



Hoistway Section



Table of Regular Dimension - Rated Load 2500KG (and above)

Rated Load	Rated Speed	Car Inside Width AxB	ide Width AxB Entrance Hoistway Width side Width axb) Width(w) (X x Y)		Lvalue	Machine Room Dimension	Machine Room Reaction Loading (KG)		Pit Reaction Loading (KG)	
(KG)	(m/min)	(Car Outside Width axb)			J value	SxT	RW1	RC1	RW2	RC2
2500	45	2500x3000	2300	4100x3800	850	5750x3900	15000	0000	17200	21300
2500	60	(2600x3240)					12900	8800	22700	28400
2000	45 2500x3400		2200	4100-4000	950	5750×4100	17900	10000	18900	24000
3000	60	(2600x3640)	2300	4100x4000	600	575024100	11000	10000	25000	31700

Electrical Data - Rated Load 2500KG (and above)

Rared Load Rated Speed		Motor Capacity	Transformer capacity	Breaker Ampere (A)		Wire Gauge Cross-sectional Area (mm²)		Ground Wire Cross-sectional Area (mm²)		Heat Output
(10)	(KG) (m/min)		(KVA)	220v	380v	220v	380v	220v	380v	(Kcal/hr)
2500	45	13.2	11	50*	50	14*	14	5.5*	5.5	2835
2500	60	17.7	21	60*	60	14*	14	5.5*	5.5	3730
2000	45	15.3	13	60*	60	14*	14	5.5*	5.5	3352
3000	60	20.4	25	75*	75	22*	22	14*	14	4406

* The diameter of the wire is calculated based on the distance between the building's electrical substation and the elevator machine room within 50 meters. * When elevator rated load is above 2500KG and the on-site power supply is 220V, an additional transformer for the elevator (220V -> 380V) must be added.

Machine Room Floor Plan



Note:

1. The part marked with an asterisk are the excluded project, which is the owner's responsibility.

2. The Overhead Height (OH) and Pit Depth (P) listed in the graph are all 50mm larger than regulations.

3. The minimum height of each floor shall not be less than 3000mm.

4. The above regulations are for reference only. Please get in touch with our company for detailed specifications.

Unit : mm

* Power Supply : AC 3Φ, 220 V/380V, 60Hz

Functions and Equipment

Energy Efficiency		○ Standard △ Option		Overload Return Safety Device (ORS)	\bigcirc	If an external force interferes du hold, the elev ator door will mo
Cancellation	\bigcirc	Deregister a mistaken floor by pressing the same floor button twice within 3 seconds.		Next Floor Landing	\bigcirc	When the car arrives on the floo the car will travel to the next floo
Nuisance Call Cancellation	\bigcirc	When the car is vacant, but multiple floor buttons on the operation panel are still registered with signals, the microcomputer system will automatically detect this abnormal state and cancel the registered to save energy		Function	U	close the door due to the object object is removed.
Energy Saving for Floor Indicator	\bigcirc	The floor displayer's brightness will decrease to one-third of the regular level to reduce energy con- sumption when the elevator has been idle for a while.		Low-Speed Safe Landing while Malfunction	\bigcirc	If the car has stopped between f the nearest floor at low speed ar is vacant.
LED Lighting	\bigcirc	Greenlight sources with high efficiency, energy saving, environmental protection, low carbon emission,		Emergency Lighting	\bigcirc	In the event of power failure, the
		salety, and durability are applied to replace traditional lighting to save energy consumption.		Automatic Return to the Lowest Floor when Abnormal Position	\bigcirc	For a running elevator, if the floo considered abnormal. At this tim floor) at a slow speed and stop. A operation to ensure safety.
Internet of Things (IoT)	\triangle	IoT collects, analyzes, and utilizes elevator data through the network to optimize the intelligent elevator system and achieve the elevator functions of intelligent monitoring, preventive maintenance, and instant		Automatic Landing Device for Power Failure (ALP)	\triangle	In the event of a power failure, th matically move to the nearest flo where passengers are locked in
_				Mechanical Safety Shoe	\triangle	During the door-closing process the elevator will stop closing an
Artificial Intelligence				Earthquake Emergency Operation	\triangle	When the earthquake sensor is a and stop service. Simultaneousl
Voice Car-Calling	\bigtriangleup	Passengers can register the destination floor in the car by voice, replacing the traditional touch button, reducing the risk of germ transmission.		Fire Emergency Operation	\triangle	When a fire occurs, the elevator v and then stop.
Safety						
Durling Forms		Safety technology invention patent. The braking force detection of the elevator motor is automatically performed daily on a preset schedule. When the braking force becomes weakened, a warning code will		Security		
Detection System	\bigcirc	be issued to notify the maintenance personnel to take preventive measures. Furthermore, suppose the braking force is insufficient, the elev ator will stop service and generate a fault code for the maintenance personnel to troubleshoot to ensure the brakes' reliability and effectiveness.		Non-Contact Button	\bigtriangleup	a car by induction. As a result, painfection.
Unintended Car Movement Protection (UCMP)	\bigcirc	When the elevator door is opened for passengers to enter and exit, the brakes are immediately activated to stop the elevator service once the elevator moves unexpectedly. The elevator will resume regular operation only after maintenance and inspection by professionals.		Card Reader Interface	\bigtriangleup	Provide contact points for card panels of the car, and assist in th
Ascending Car Overspeed Protection (ACOP)	\bigcirc	When the elevator goes up, suppose the speed limiter detects that the up speed exceeds the limit value, it will start the brake to stop the elevator to ensure that it runs safely at the rated speed.		Monitoring and Control System (CCTV)	\triangle	Through this device, the superin prevent the occurrence of crime
		Safety technology invention patent. The system monitors the car's status when the elevator is in the door-opening zone. If the car is slipping, the computer host automatically outputs the holding torque	- 1	Operating Functions		
while Car Slipping	\bigcirc	to keep the car in the door-opening zone, immediately opening the door and reminding passengers to leave the elevator. When the car is vacant, the elevator closes the door and runs to the top floor (the safest position), generating a fault code and stopping service.		Sonic Car Button	\bigcirc	When the passenger presses the "beep." The door will reopen if t
Infrared Light Curtain	\bigcirc	The elevator will promptly detect any people or objects blocking the infrared light curtain and reopen the door during the closing process, improving passengers' safety.		Extended Door Opening Time Button	\bigcirc	Pressing the door opening butto
Intercom	\bigcirc	In the event of an emergency, press the emergency button to communicate with the administrator.		VIP Operation	\bigcirc	This operation provides a way to car calls but ignore hall calls.

uring the door closing/opening, and this force exceeds the specified thresove in the reverse direction to ensure safety.

or but cannot fully open the door for any reason, such as object blocking, oor and automatically open the door. Also, when the car cannot successfully ect stuck in the sill, the door will automatically open repeatedly until the

floors due to equipment malfunction, the car will automatically move to and open the door. Meanwhile, the elevator will stop service when the car

ne emergency lighting installed on the car ceiling will automatically ignite.

or position judged by the system does not match the correct floor, it will be me, the elevator will automatically move to the lowest floor (or the highest . After the system resets to the correct floor number, it can resume normal

the device will replace the regular power supply, and the elevator will autooor to allow passengers to exit the car safely, thereby avoiding the situation n the elevator during a power failure.

s of the elevator, when the door safety shoe collides with a person or item, nd reopen the door immediately.

activated, the running elevator will automatically run to the nearest step sly, "Earthquake Control" will be displayed in the operation panel.

will automatically run to the preset fire escape floor through the fire switch

d the button within 1 cm, passeng ers can trigger the button signal to call passengers do not need to press buttons directly, reducing the risk of germ

d reader machines in elevator halls or cars, reserve holes in the inner wall the installation of card reader machines so cardholders can use the elevator.

rintendent of the building can observe the situation in the elevator car to nes.

e hall control panel button, the button lights up with a response sound of the button is pressed again during the door-closing process.

ton can extend the elevator door opening hold time.

to service the VIPs. Under this operation, the elevator will only respond to

Purchase Information and Excluded constructions

Our company is responsible for the elevator's design, manufacture, and installation. However, the items mentioned below are not included in the elevator estimate. Therefore, the client should be responsible for entrusting the construction or electrical engineering contractor to carry out the project.

Purchase Information >

Please provide the following information when purchasing the elev ator or inquiring about the related specifications

- 01. Construction Name
- 02. Construction Site, Location, or Address
- 03. Elevator Dimensions (passenger or weight load, speed, door opening measure, and control measure)
- 04. Number of Elevator Installations
- 05. Number of Landing Floors and Height of Each Floor
- 06. Power Supply Voltage and Frequency
- 07. Car Design, Hall Fixtures, and Jamb Type
- 08. Architectural Drawing for Elevator Installation Desired (steel structure of the whole building is necessary)
- 09. Due Date in Expectation (should there be any other questions, please contact us, we will answer and explain to you as soon as possible.)

Excluded Constructions

I. Machine Room:

- 01. (1) The construction of the machine room shall be based on the drawings provided by Party B, the hooks for installation and maintenance shall be embedded in the ceiling, and the holes shall be reserved for excavation on the ground; (2) The paint on the ceiling, the wall, and the dust-proof paint after the elevator is installed; (3) The lightweight concrete and powder on the floor and recommended additional EPOXY (epoxy resin) engineering.
- 02. The machine room's primary side power supply equipment (including power supply, vehicle lighting power supply, independent grounding system, switch, and the power receiving panel) and piping and wiring works.
- 03. The machine room shall provide the ventilation grille and ventilation fan.
- 04. The machine room's entrance and exit size is 100cm × height 200cm or more to facilitate the transportation of the elevator host motor.

II. Hoistway:

- 01. The construction of the hoistway is based on the drawings provided by Party B. It includes the entrances and exits of each floor, the preserve holes for buttons and indicators, and the caulking of the door frame after installation.
- 02. If the hoistway is of steel structure or light partition wall, support beams and columns for fixing guide rails, door frames, buttons, indicators, and other equipment; and primary iron parts for intermediate beams and reinforcing beams.
- 03. Piping and wiring work for emergency telephones or other equipment (such as monitors, remote monitoring systems, monitoring panels, multimedia, card reader machines and fire alarm switchboards) fr om the hoistway to the guard room (or administrator room, monitoring room).
- 04. Suppose the elevator entrance and exit doors have fire prevention functions. In that case, the piping and wiring work from the fire alarm reception switchboard to the elevator recall button to the evacuation level, and reserve a no-voltage A contact on the fire alarm reception switchboard.
- 05. Waterproof and drainage work for pits and concrete foundation works for buff ers.

III. Others:

- 01. Before the elevator enters the site for construction, the surrounding of the hoistway should be truly closed, and party B should install related guardrail protection equipment at the entrances and exits of each floor. If the hoistway is a glass curtain or cannot be reliably closed due to other factors, party B should provide other anti-fall measures (such as guardrails, safety nets, and other anti-fall measures). Party B must clear sundries such as formwork, wooden strips, safety nets, and steel bars in the machine room and the hoistway (if this item is not completed, due to the safety of the operation, personnel will not be dispatched to the site for construction).
- 02. After the machine parts are delivered to the construction site, party B should provide a storage place for the goods and tools. However, if the installation cannot be performed due to the reasons of Party A, the responsibility for keeping the machine parts shall be responsible to Party A
- 03. After unpacking and installing the goods, Party B shall dispose of them at the designated place. Party A shall be responsible for clearing and transporting them to the construction site.
- 04. Party B shall provide the cement, sand and gravel, water, and electricity required in the construction and the power supply for installation and operation consistent with the official electricity consumption.
- 05. Party B shall provide the height reference line of the elevator entrance and exit and the complete reference line of the elevator wall as the basis for the elevator installation.

National Standards of the Republic of China (CNS) and related regulation

- 01. Except for the necessary equipment, it shall not install or support oth
- 02. The machine room should have lighting and ventilation equipment inspection. The illumination should be above 100 lx (meter candleli ment should be able to keep the temperature below 40° C.
- 03. The entrance and exit of the machine room should be locked, and condition.
- 04. From the machine room to the corridor, the staircase should be easy with handrails, and its inclination angle with the horizontal should
- 05. The height of the machine room should be at least two meters.
- 06. The area of the machine room should be at least twice the project However, it applies to those that do not hinder maintenance, inspe
- 07. The bottom plate of each machine room must be fire-proof (not less the roof must be sturdy and fire-resistant (not less than a two-hou
- 08. The structure of the entrance and exit of the machine room shall h a. Those who can automatically shut down. b. There is a spring lock or similar device so that the door can oper c. Except for the roof opening, the walls of the machine room should
- 09. If the height of the bottom plate differs by more than 60 cm in an guardrails and ladders must install in the place where has a height
- 10. The power receiving panel's main switch should be located near the exit, which must be easy to operate and safe.
- 11. When using emergency elevators, backup power should provide. Furt of the lift for emergency use shall comply with the provisions of the and relevant regulations. Besides, it should respect the indicatio National Fire Agency, Ministry of the Interior. It stipulates that "en equip with car readers machine for riding.'
- 12. Piping and wiring unrelated to the elevator shall not install in the h
- 13. There should be no water leakage in the elevator pit, and it needs
- 14. The bottom plate of the elevator pit should be able to withstand the fu
- 15. The hoistway and the inner wall of the elevator pit should be flat and s
- 16. Each hoistway must be completely closed except for the opening ventilation equipment.
- 17. When any part of the lower part of any hoistway is used for human safety devices must also be installed on the counterweight side con
- 18. Dry-type transformers should be installed in the substation, or the v the transformer should be enclosed in a closed metal enclosure wi
- 19. Equipment grounding: The non-live metal parts of electrical equipr grounded.
- 20. Except for the car and its attached equipment, no objects shall ins Also, appropriate space shall be set aside to keep the car safe.
- 21. Except for the entrance door and ventilation holes, the hoistway sl fire-proof structure and have sufficient strength to support the guide ra
- 22. The pit below the ground should be of waterproof structure, and reserved to maintain safe operation. Since there may be other user the pit, the bottom of the pit should have sufficient safety strength to
- 23. The beam or floor supporting the elevator should be able to bear t
- 24. The elevator shall be equipped with a device to land on the nearest fl

Excluded Constructions

According to the following laws and regulations, elevator equipment must obtain a use permit before it can use. Furthermore, in line with the rules of the competent authority, Party A needs to submit a copy of the construction license and other relevant documents, while Party B can submit an application for completion inspection to the professional inspection unit on behalf of Party A :

- 1. After the installation of the elevator equipment is completed, it is not allowed to use it unless it has passed the completion inspection and obtained the use license.
- 2. The administrator shall entrust a professional manufacturer to be responsible for the maintenance of the elevator equipment. Technicians shall implement it monthly according to the general maintenance procedures.
- 3. Unless the owners have obtained a use permit after completing the inspection, the building elevator and mechanical parking equipment shall not be used.

Related Regulations

er objects in the machine room.	【CNS2866 4.1.1.(2)】
to facilitate management and	[CNS2866 4.1.1.(3)]
ght), and the ventilation equip-	
the device should be in good	[CNS2866 4.1.1.(4)]
to pass the stair should equip	[CNS2866.4.1.1.(5)]
not exceed 60 degrees.	[CN32000 4.1.1.(3)]
0	[CNS2866 4.1.1.(6)]
ted area of the elevator path.	[CNS2866 4.1.1.(7)]
ection, and management.	
than a two-hour fire rate), and	【CNS2866 4.1.1.(9)】
r fire rate).	
ave the following devices:	【CNS2866 4.1.1.(10)】
n without a key.	
be fire-resistant (two-hour rate).	
y machine room, appropriate	【CNS2866 4.1.1.(11)】
difference.	
e machine room's entrance and	【CNS2866 4.1.2.(1)】
hermore, the building structure	[CNS2866 4.1.2.(4)]
n of letter No. 8904590 of the	
nergency elevators should not	
noistway.	【CNS2866 4.1.9.(11)】
to clean.	【CNS2866 4.1.10.(1)】
ully-loaded car or counterweight.	【CNS2866 4.1.10.(11)】
smooth without any protrusions.	【CNS2866 4.1.10.(12)】
gs of entrances and exits and	【CNS2866 4.1.10.(14)】
	· · · · · · · · · · · · · · · · · · ·
use or similar use, emergency	[CNS2866 4.1.10.(21)]
windings and terminal joints of	Article 214 of licer electrical
thout ventilation or openings.	equipment installation rules
nent and appliances should be	[Article 24-2 of User electrical
	equipment installation rules]
stall or set up in the hoistway.	[Article 110-1 of the Architectural Equipment
	of Building Technical Regulations】
nould be enclosed walls with a	[Article 110-3 of the Architectural Equipment
alls of the car and counterweight.	of Building Technical Regulations
appropriate space should be	[Article 112-1 of the Architectural Equipment of Building Technical Regulations]
p resist any impact from the car.	of building reclinical Regulations
he total weight of the elevator.	[Article 118 of the Architectural Equipment of
	Building Technical Regulations]
oor when a power failure occurs.	[Article 110-6 of the Architectural Equipment of
	Building Technical Regulations

- [Article 3 of the Certificate of Administrative **Regulations on Installment and Inspection** of Elevator in Building
- [Article 4 of the Certificate of Administrative Regulations on Installment and Inspection of Elevator in Building]
- [Article 77-4 of Building Act]

Service Station

Over 1,200



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- Hualien Service Station +886 3 823-6397 No.71-30, Jhongmei Rd., Hualien City, Hualien County 970064, Taiwan (R.O.C.)
- Taitung Service Station +886 970-036-709
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Business Philosophy: Technology, Quality and Service above All

Incorporated in July 1966, Yungtay Engineering Co., Ltd. has been expanding its business scale and innovating technologies over the past 5 decades, realizing products and services that meet customers' needs and ensure their safety. In April 2022, Yungtay Engineering joined the construction business department of the Hitachi Group, and was renamed Hitachi Yungtay Elevator Co., Ltd. (hereinafter referred to as "The Company") in May, a milestone in the Company's history. In addition to collaborating with Hitachi to realize Group visions and improve brand value, the Company also engages itself in social innovation, aiming to achieve sustainable development and a better society. In terms of actions taken, the Company regards safety as its primary commitment, followed by the commitment to bringing customers quality products and services and improving the environmental and social value, striving for becoming an enterprise that customers trust.

