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# Fuji Elevator

## FUJI ELEVATOR (ASIA) CO.,LTD.

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FUJI ELEVATOR (ASIA) CO.,LTD.  
富士エレベーター株式会社



Once the summit is surmounted,  
all mountains nearby look lower

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## VISIONS OF FUJI ELEVATOR

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With our enthusiasm, wisdom and diligence, we can constantly influence and improve people's work and life through cooperation, understanding and tolerance, and bring more happiness, wealth and sense of achievement to people and ourselves.



# COMPANY INTRODUCTION

Fuji Elevator was established in 1946 in Japan and is one of the world leading elevator brands. In 1996, Fuji Elevator entered China mainland market. In 1998, Fuji Elevator (Asia) Co.,Ltd. was set up. It's authorized from Japan to manufacture, sell, install and maintain Fuji Elevators to serve global market directly. Fuji Elevator (Asia) Co.,Ltd. has invested and built elevator production bases in Zhejiang, Anhui, Jiangsu, Jiangxi of China. With business coverage in many countries and areas, it has become one of global leading manufacturers of elevators, escalators, moving walks and lifting platforms.

After years of development, Fuji Elevator (Asia) Co.,Ltd. has accumulated rich experience in the areas such as product design, quality processing and production management. In addition, the company is constantly pursuing technological innovation. By upholding the professional attitude of sturdiness and sincerity, Fuji Elevator provides its customers with highly dependable and high standard products that satisfy people's demand for a more convenient and safe environment in which to work or live. Deeply trusted by our customers, Fuji Elevator will make more excellent contributions to the prosperity of the society and happiness of human beings.

## >>>> Basic philosophy of Fuji Elevator

Innovative ideas, create future  
Harmony between mankind and nature

## >>>> Management policy of Fuji Elevator

Unique technology, sincere attitude, trust of customers.  
The development interests of the enterprises can be shared with the company staffs and society.

## >>>> Service promise of Fuji elevator

Fast response, service at first  
Make customers more comfortable and convenient.



# Development History



● **1946. 01** Fuji Elevator (Japan) Corporation was established.

● **1996. 01** Fuji Elevator started to enter China mainland market.

● **1998.05** Fuji Elevator (Asia) Co.,Ltd was set up and authorized from Japan to manufacture, sell, install and maintain Fuji Elevators to serve global market directly.

● **2002. 03** Fuji Elevator (Asia) Co.,Ltd invested to build Jiangxi Fuji Elevator Co., Ltd as first manufacturing base in mainland China with 18 Million RMB Registered Capital, occupying an area of 50 acres (about 33,335 square meters).

● **2004. 08** Fuji Elevator (Asia) Co.,Ltd built an elevator & escalator assembly base in Suzhou, and accessories manufacturing bases in Shanghai and Ningbo through shareholding.

● **2007. 11** Fuji (China) Holdings Co., Ltd (hereinafter referred as “Fuji Holdings” ), formerly known as Fuji (Asia) Industrial Investment Co., Ltd., was jointly founded by Fuji Elevator (Asia) Co., Ltd., Fuji Electric (Asia) System Co., Ltd., Fuji Electric (China) Technology Service Co.,Ltd. and Hong Kong Industrial Investment Funds. Operated by Fuji Holdings, Fuji Elevator (Asia) Co.,Ltd expanded investment in China to serve global market.

● **2008. 02** Fuji Holdings signed an investment agreement with China government, and started construction of building Fuji Industrial Park, occupying an area of 300 acres (= 200,000 square meters) at National Wenzhou Economic & Technological Development Zone in Wenzhou City, Zhejiang province, China. Total investment value is 98 million USD.

● **2010. 04** Zhejiang Fuji Holdings Elevator Co., Ltd was established with 12.5 Million USD Registered Capital at Fuji Industrial Park in Wenzhou as a Fuji Elevator manufacturing base for overseas market, occupying an area of 120 acres ( about 80,000 square meters). Later, the registered capital added to 32 Million USD.

● **2012. 05** Fuji Elevator was ranked in the list of China foreign-aid project supplied products. Main Projects are: Office buildings of the Ministry of Foreign Affairs of Ghana, Office buildings of the Ministry of Foreign Affairs of Sudan etc.

● **2014. 05** Anhui Fuji Holdings Elevator Co., Ltd was established in Bengbu city, Anhui Province as a new manufacturing base, supplying Fuji elevators to north China markets and part of overseas market. It occupies an area of 300 acres (about 200,000 square meters) with total investment value 1 billion RMB (=167 million USD).

● **2014. 11** Guizhou Fuji Holdings Elevator Co., Ltd was prepared to construct in Anshun city, Guizhou Province as a new manufacturing base, supplying Fuji elevators to west China market. It occupies an area of 200 acres ( about 133,333 square meters) with total investment value 400 million RMB (=67 million USD).

● **2016. 05** New Fuji trademark /logo was registered in Japan, the registration number is 5853125.

● **2016. 12** Fuji Holdings Elevator Equipment Co.,Ltd. was established with 45 million USD Registered Capital in Bengbu City, Anhui Province .

● **2018. 06** A 120-meter high test tower was built up in Anhui production base, which is the highest elevator test tower in Anhui province, China.

● **2018. 12** Fuji Holdings Elevator Engineering Wenzhou Co.,Ltd. was established with 1.5 million USD Registered Capital in Wenzhou City, Zhejiang Province, China, in charge of Fuji elevator installation, maintenance and service after sales.

# Qualification Certificates



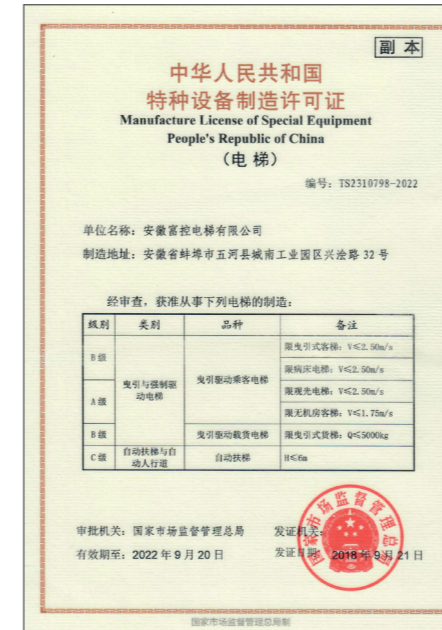
New Fuji trademark registered legally in Japan



Authorization Certificate



Manufacture License of Special Equipment (Zhejiang factory)



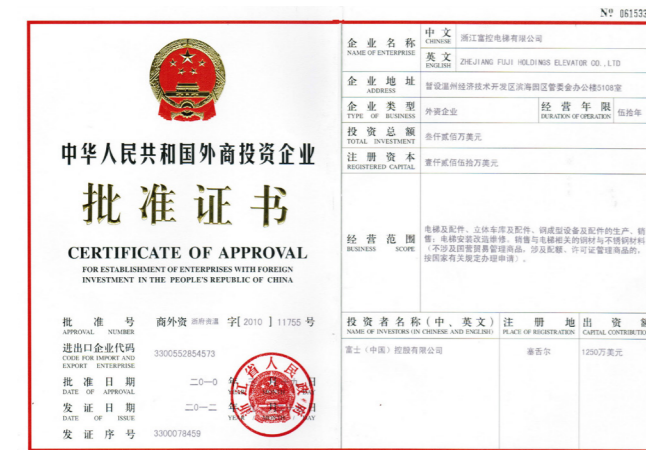
Manufacture License of Special Equipment (Anhui factory)



ISO9001 certificate



CE certificate (elevator)



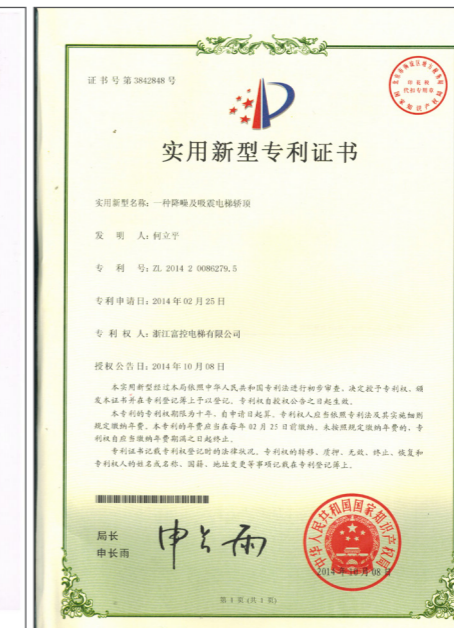
Certificate of Approval for establishment of enterprises with foreign investment by China government (Zhejiang factory)



Business certificate of Anhui factory



CE certificate (Escalator)



Patent certificate



ISO14001 certificate

# Production Equipments



First class products originate from first class equipments and technologies. Fuji Elevator introduces the internationally top grade equipments and allocates skilled professional staffs. Through strict control and management, it provides elevator products featuring diversity, high quality, perfect precision and great comfort. For each order, all members of manufacturing department will work together with one heart, and provide the products to consumers with the greatest speed and the best quality.



*Based on high and new technology,  
control the market trend.*



**NC multi-stage stamping equipment**



**Elevator-escalator teaching test platform**



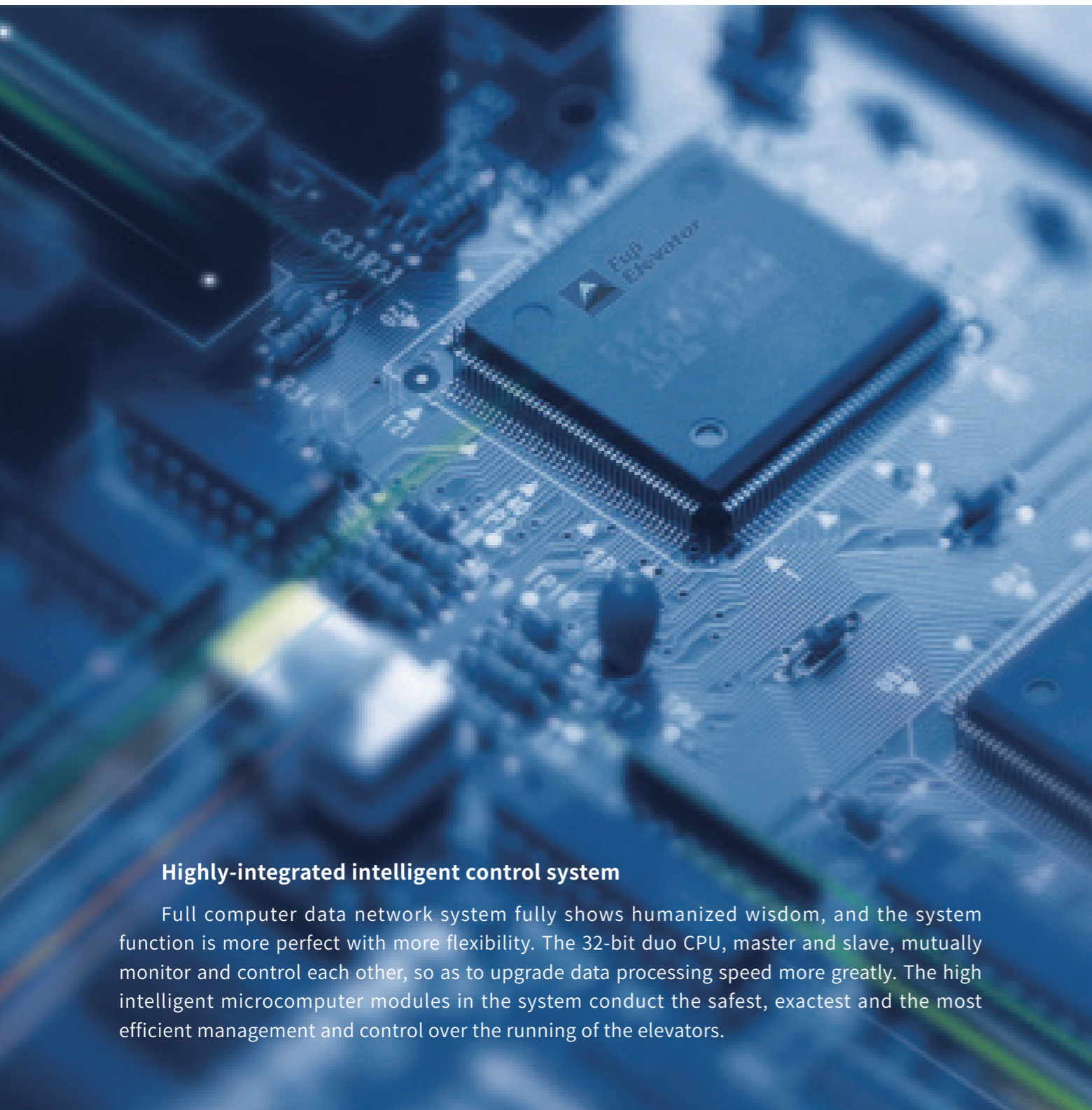
**Automatic spraying production line**



**CNC equipment for host processing**

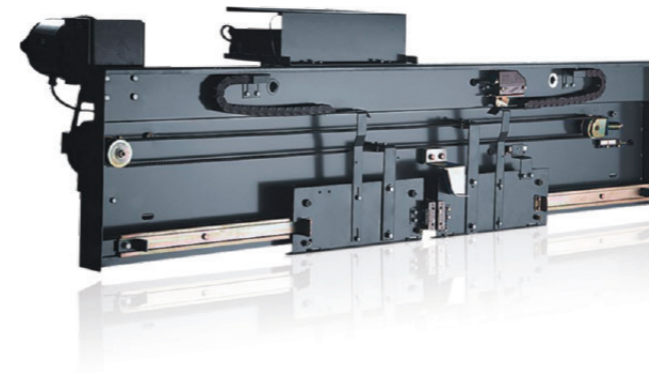


# Control Technologies



## Highly-integrated intelligent control system

Full computer data network system fully shows humanized wisdom, and the system function is more perfect with more flexibility. The 32-bit duo CPU, master and slave, mutually monitor and control each other, so as to upgrade data processing speed more greatly. The high intelligent microcomputer modules in the system conduct the safest, exactest and the most efficient management and control over the running of the elevators.



## Top-rated door operator system >>>>>

Fuji elevator utilizes advanced Variable Voltage and Variable Frequency (VVVF) control techniques on the elevator door operator system, to ensure that doors of the elevators open and close smoothly and quietly. Its self-leaning capable load sensor improves the sensitivity of opening and closing of elevator doors, to monitor load changes of the elevator in each floor, and automatically adjust the optimal opening and closing speeds to ensure the safety and reliability.

## Special high-efficiency vector inverter >>>>>

On the basis of well-grounded development, Fuji Elevator constantly introduces newest technologies and devices into VVVF inverter drive system, to help Fuji Elevator VVVF technology grows rapidly toward high performance, high reliability, digitization and miniaturization.

The built-in programmable functions can meet new high-end application, with optional long-lifetime parts for fitting. The scheme design for convenient operating maintenance satisfies the on-site requirements for engineering and technical workers, leading the trend of healthy and environment friendly products.



## User-friendly functions (optional) >>>>>

According to user requirements, Fuji Elevator can be added with a great variety of operating functions to satisfy different kinds of user-friendly requirements. For instance, elevator can be intelligently allocated; elevators are only accessible to those possessing permits, certain floors are only accessible to those household owners possessing IC intelligent cards; for the needs of old and disabled householders, a special COP(car operating panel) facilitates operating the elevators while sitting in wheelchairs; for security purpose and buildings management, CCTV equipment can be added to help building management system; monitoring information board and software can be introduced to monitor the real-time elevator running state. These functions can effectively protect the interests and safety of the householders, and minimize the ineffective operations, to facilitate the use by special population. At the same time, it can reduce the property management costs. For some countries facing power voltage fluctuation problem, Fuji elevator provide AVR (Automatic voltage regulator) to solve it.





# ESCALATOR

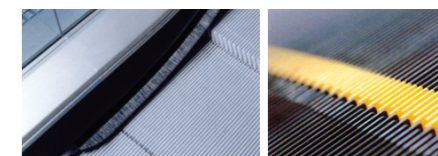


New generation Fuji escalator takes the FUJI' s design style with safety, reliability and high-efficiency, which is developed to meet the market requirements. It is widely used in many places such as supermarket, shopping center, train station, airport, CBD and office building etc.

The perfect combination of high-precision helical gear speed reduction devices and frequency conversion technology endows Fuji escalator with a highly effective, energy saving and quiet heart.

The unique single-side positioning and high-precision U-lead rail machines with absolutely high quality guards, resulting in that the elegance and dignified atmosphere permeate from safety.

The handrail lighting, and step lighting and skirt panel lighting, as multiple choices, are not only the manifestation of unique characteristics, but also to help the escalator lend in the surroundings. The passengers can enjoy both comfort and relaxation while riddling on it and it also can add colors to the splendid business environments.





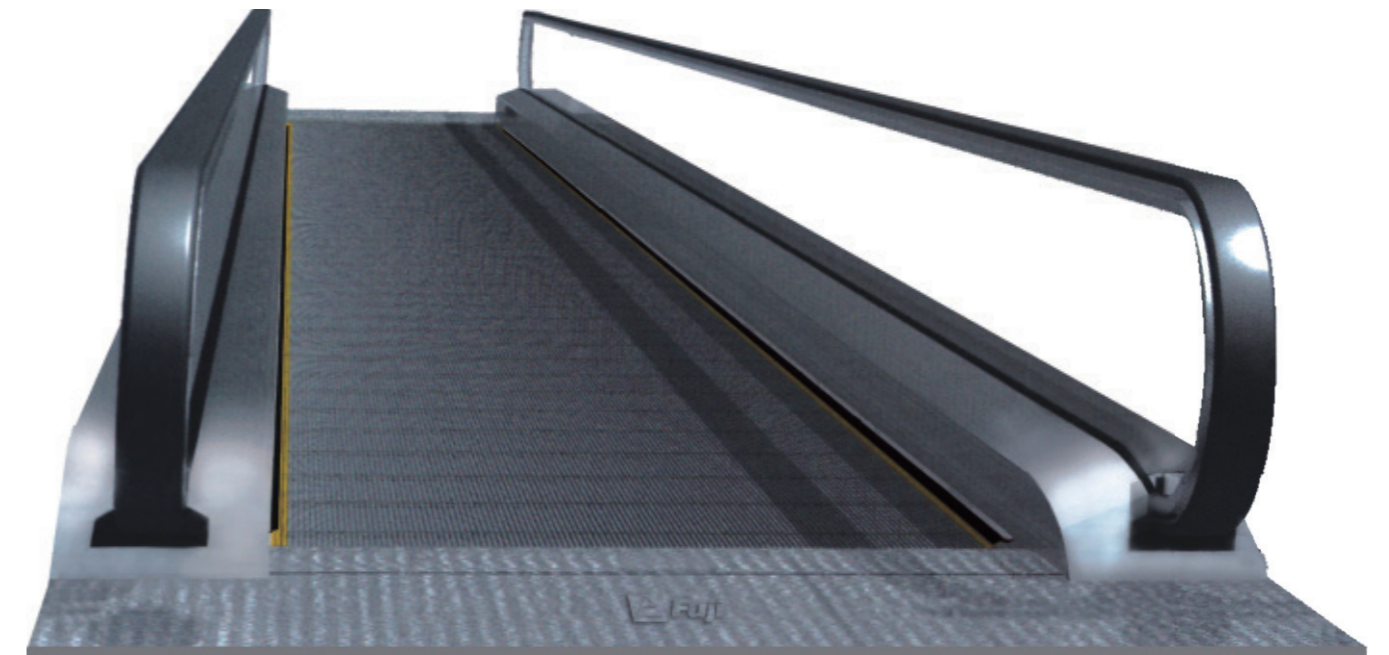


## MOVING WALK

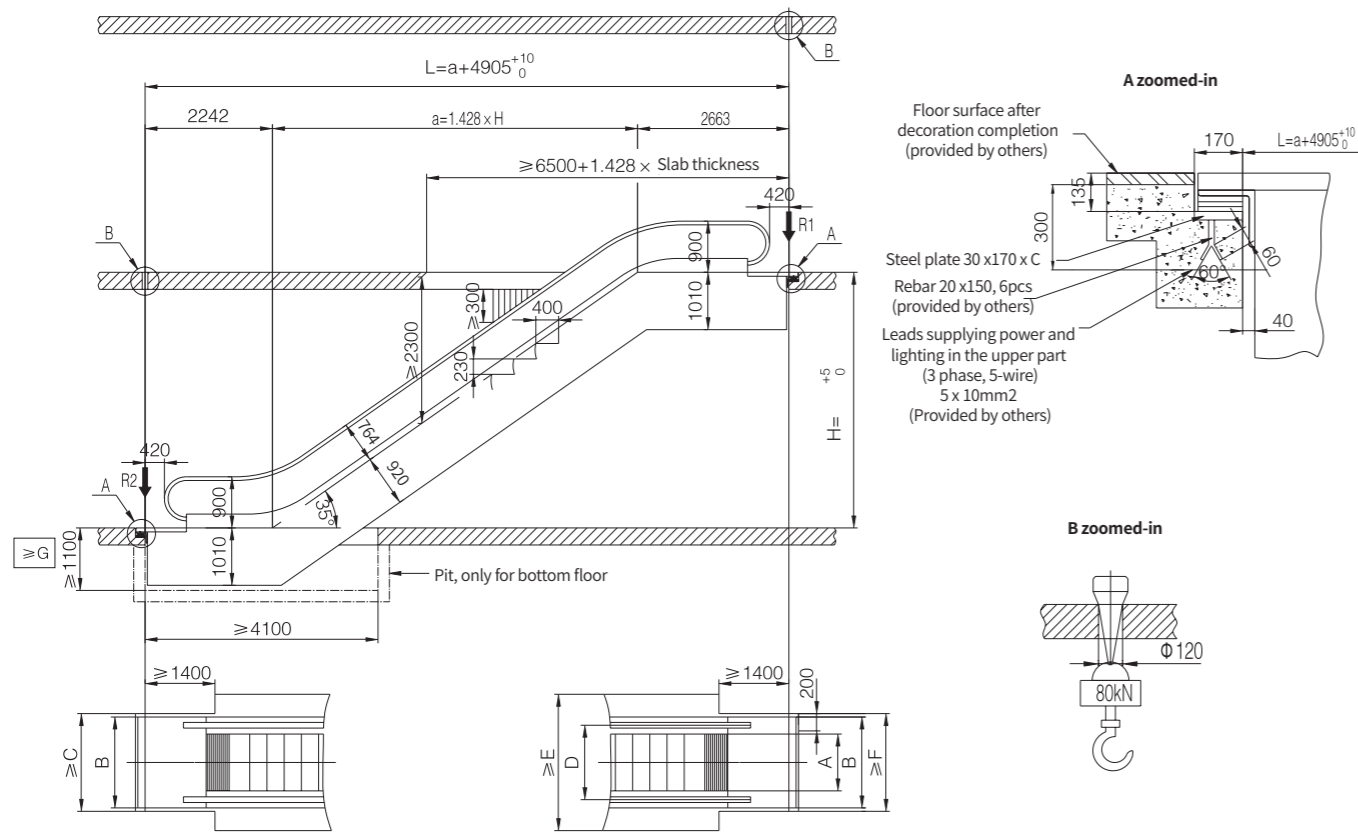


Adopting a series of safety production devices, the electrical control systems of Fuji moving walk are under full computerized control, so that the power can be disconnected at once if any accident happens. The cost can be always reduced with the application of a number of power-saving technologies. Due to the unique shock absorption and noise reducing structure, passengers will feel comfortable, smooth and quiet. Not only having advanced technology, Fuji also focus on decorating the external appearance of the moving walks. Handrail straps with the latest fashioned colors, chromatic glass sheets, leading boards made by SLD and the soft light shed through the railings, all of these make you enjoy the “wonderful journey” on our moving walks.

When you are on Fuji moving walks, you will be relaxed while moving forward, as if you were in the time tunnel full of peace.



# LAYOUT DRAWING OF 35° ESCALATOR (INDOOR)



- Note:
1. This drawing is suitable for construction of single arrangement escalator (Length ≤ 6M) installation.
  2. When step width chosen is 600mm, the truss upper must extend 417mm.

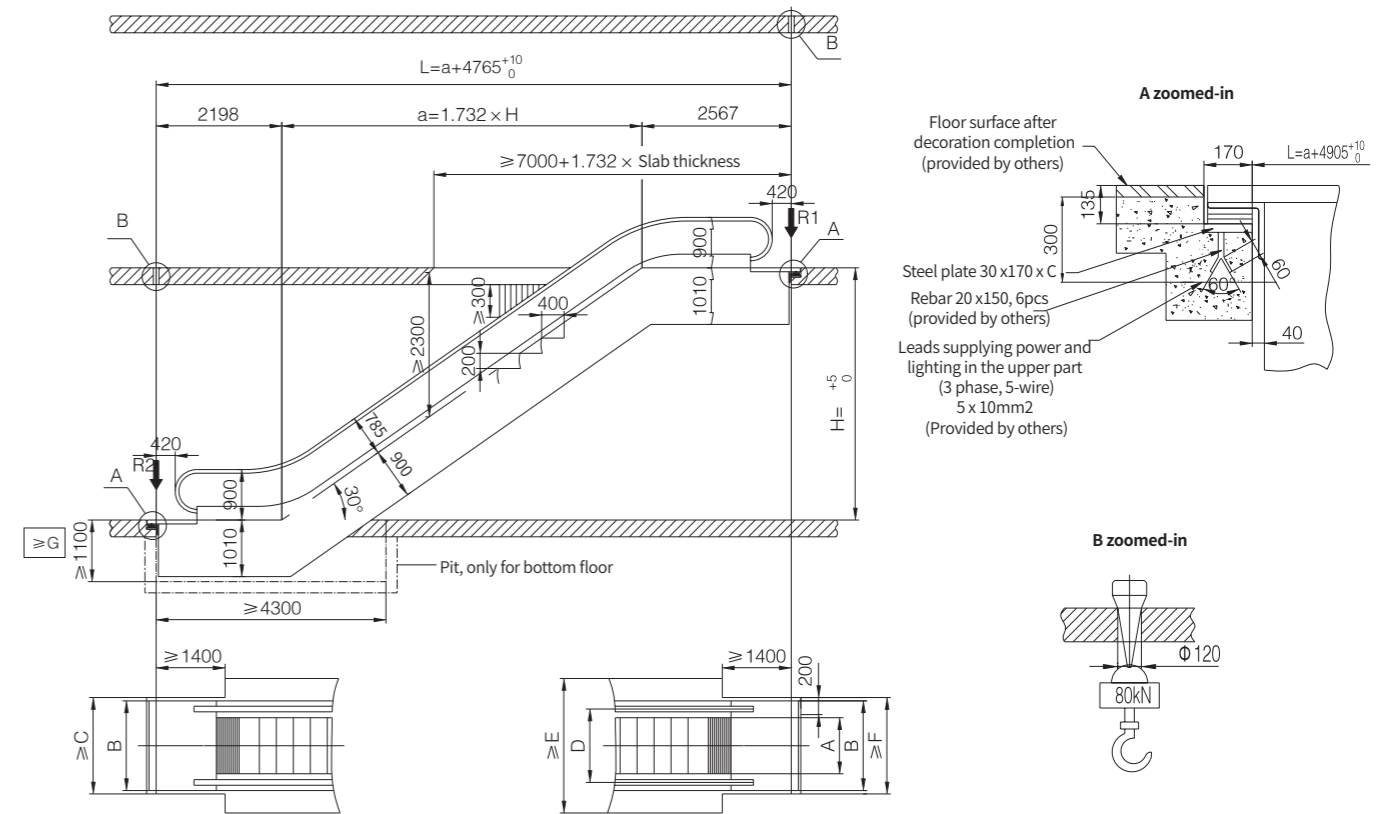
## Standard Specifications and Dimensions

Model		FJF35-600	FJF35-800	FJF35-1000
Step width	A	600	800	1000
Decoration width	B	1140	1340	1540
Construction opening width	C	1200	1400	1600
Handrail interval	D	838	1038	1238
Construction opening width	E	1838	2038	2238
Construction opening width	F	1200	1400	1600
Pit depth	G	1100	1100	1100

## Reaction Force

Step width	600	800	1000	Remarks
R1 (KN)	$3.4 \times L + 15.5$	$3.75 \times L + 17$	$4.2 \times L + 22.5$	Unit of L is m
R2 (KN)	$3.4 \times L + 10$	$3.75 \times L + 11$	$4.2 \times L + 15.5$	

# LAYOUT DRAWING OF 30° ESCALATOR (INDOOR)



- Note:
1. This drawing is suitable for construction of single arrangement escalator (Length ≤ 6M) installation.
  2. When step width chosen is 600mm, the truss upper must extend 417mm.

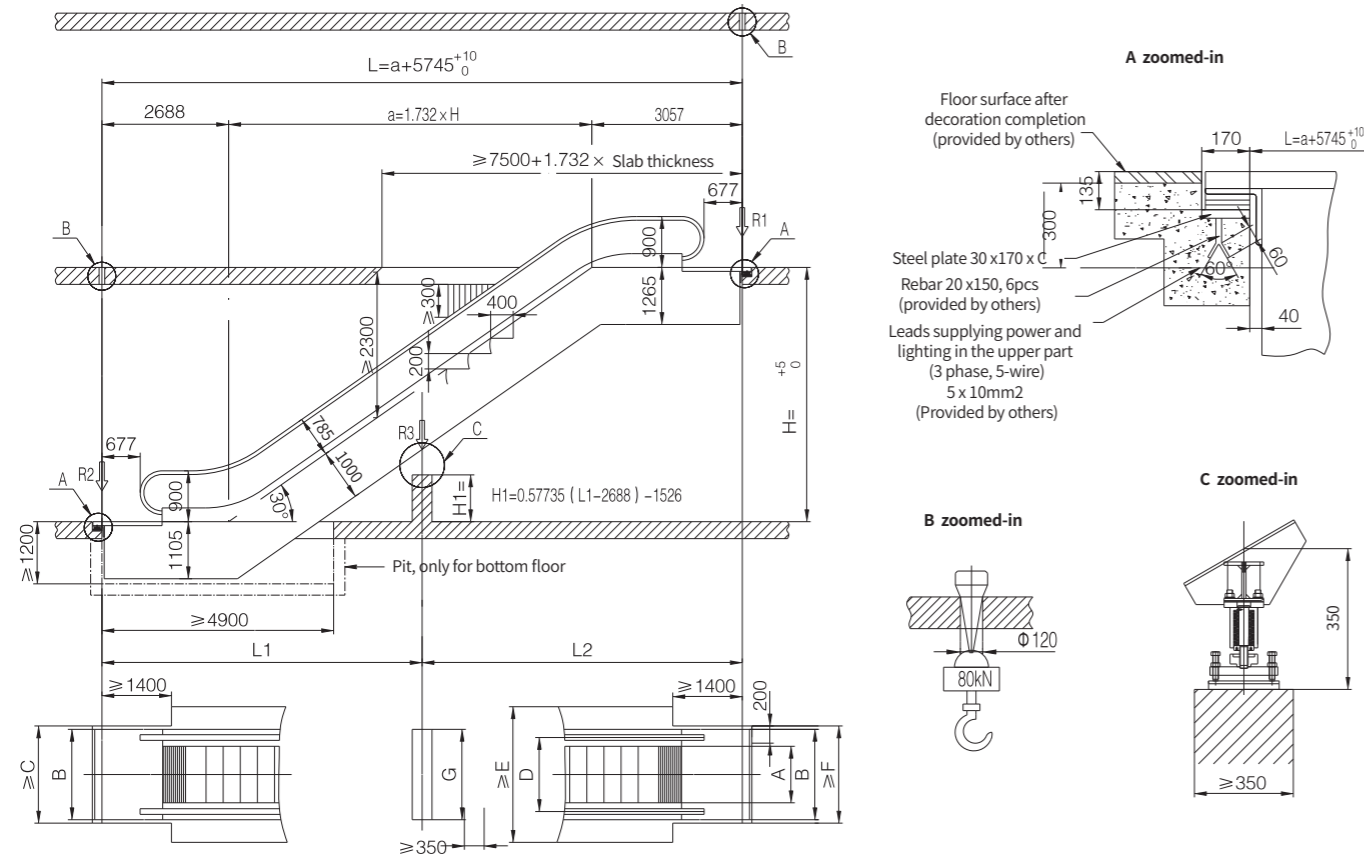
## Standard Specifications and Dimensions

Model		FJF30-600	FJF30-800	FJF30-1000
Step width	A	600	800	1000
Decoration width	B	1140	1340	1540
Construction opening width	C	1200	1400	1600
Handrail interval	D	838	1038	1238
Construction opening width	E	1838	2038	2238
Construction opening width	F	1200	1400	1600
Pit depth	G	1100	1100	1100

## Reaction Force

Step width	600	800	1000	Remarks
R1 (KN)	$3.4 \times L + 15.5$	$3.75 \times L + 17$	$4.2 \times L + 22.5$	Unit of L is m
R2 (KN)	$3.4 \times L + 10$	$3.75 \times L + 11$	$4.2 \times L + 15.5$	

# LAYOUT DRAWING OF 30° ESCALATOR (INDOOR)



Note:  
 1. This drawing is suitable for construction of single arrangement escalator (6M < Length ≤ 12M) installation.  
 2. When step width chosen is 600mm, the truss upper must extend 417mm. If choose double drive, the truss upper also must extend 417mm.

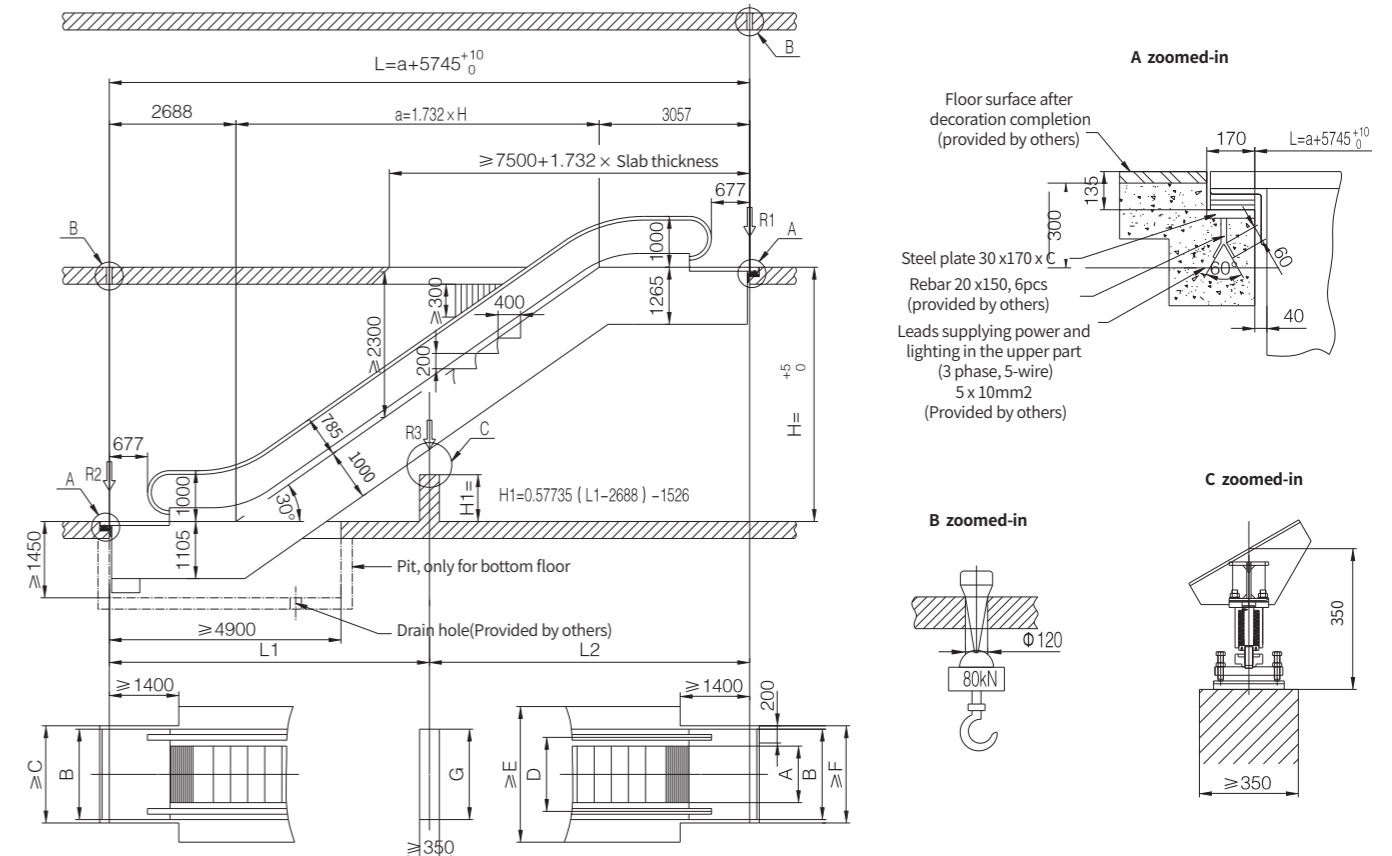
## Standard Specifications and Dimensions

Model		FJF30-600	FJF30-800	FJF30-1000
Step width	A	600	800	1000
Decoration width	B	1200	1400	1600
Construction opening width	C	1260	1460	1660
Handrail interval	D	838	1038	1238
Construction opening width	E	1910	2110	2310
Construction opening width	F	1260	1460	1660
Pit depth	G	1200	1400	1600

## Reaction Force

Step width	600	800	1000	Remarks
R1 (KN)	4.1 x L2 + 15.5	4.5 x L2 + 16.1	5 x L2 + 17.5	Unit of L, L2, L3 are m. L1, L2 ≤ 15m
R2 (KN)	4.1 x L1 + 7.8	4.5 x L1 + 7.8	5 x L1 + 8.5	
R3 (KN)	4.25 x L1 + 9.5	4.5 x L1 + 10.5	5.2 x L + 11.5	

# LAYOUT DRAWING OF 30° ESCALATOR (outdoor)



Note:  
 1. This drawing is suitable for construction of single arrangement escalator (6M < Length ≤ 12M) installation.  
 2. When step width chosen is 600mm, the truss upper must extend 417mm. If choose double drive, the truss upper also must extend 417mm.

## Standard Specifications and Dimensions

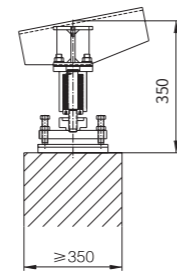
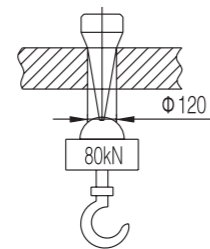
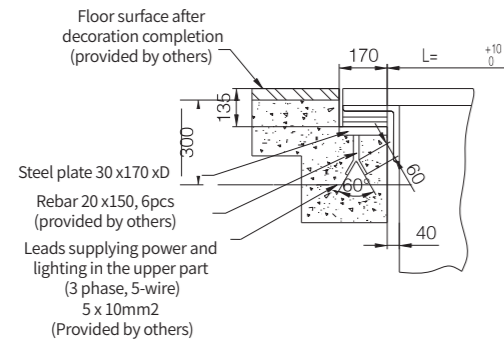
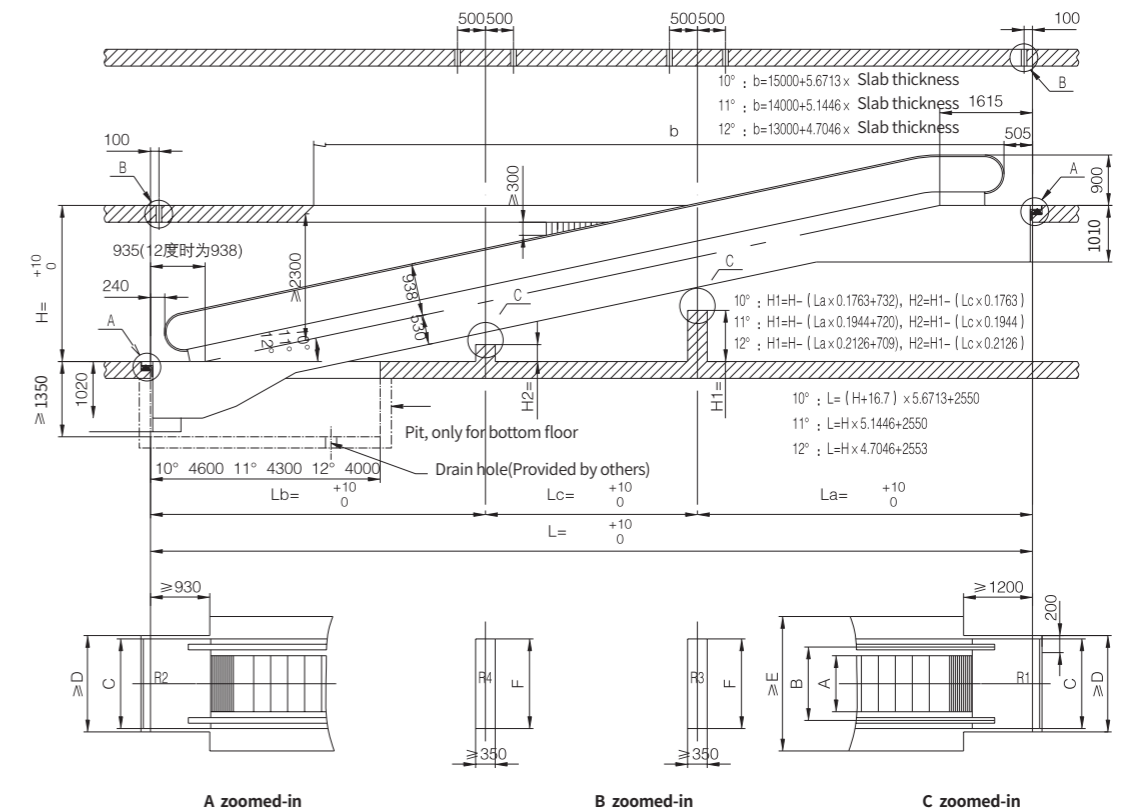
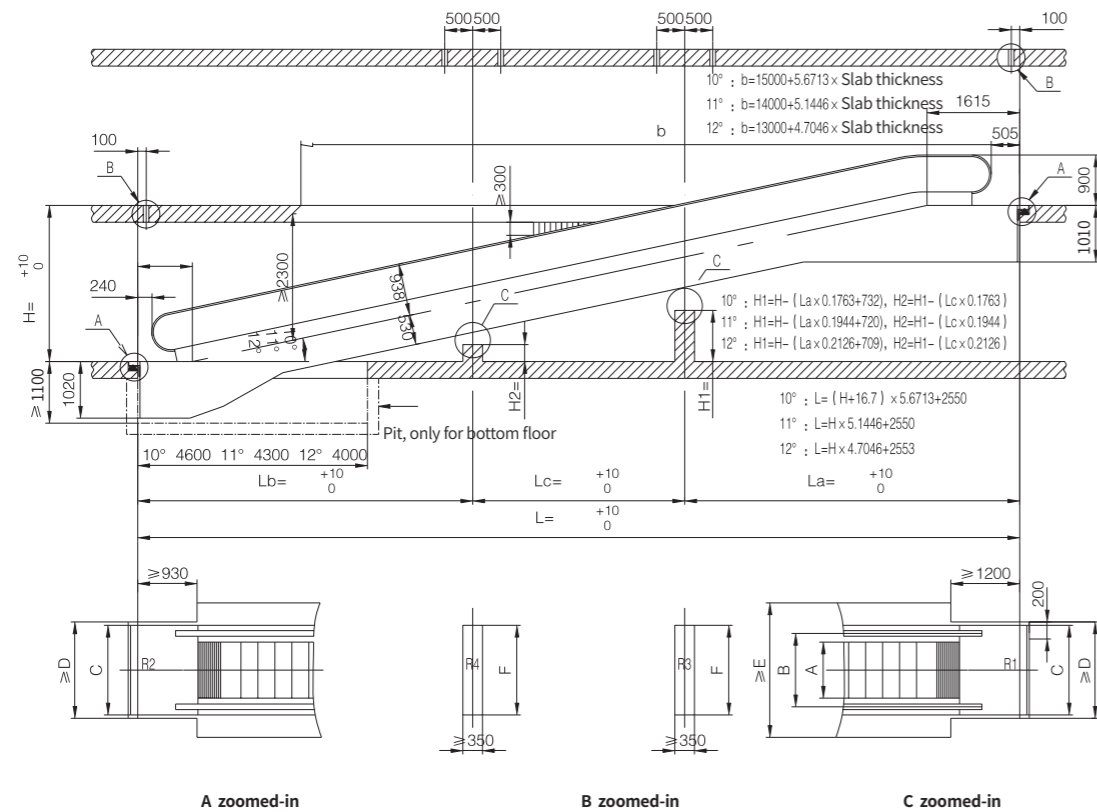
Model		FJF30-600	FJF30-800	FJF30-1000
Step width	A	600	800	1000
Decoration width	B	1200	1400	1600
Construction opening width	C	1260	1460	1660
Handrail interval	D	838	1038	1238
Construction opening width	E	1910	2110	2310
Construction opening width	F	1260	1460	1660
Pit depth	G	1200	1400	1600

## Reaction Force

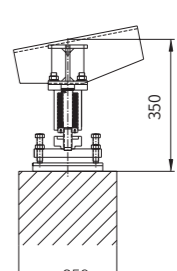
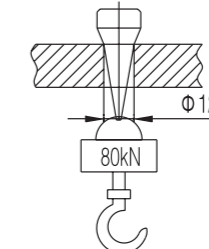
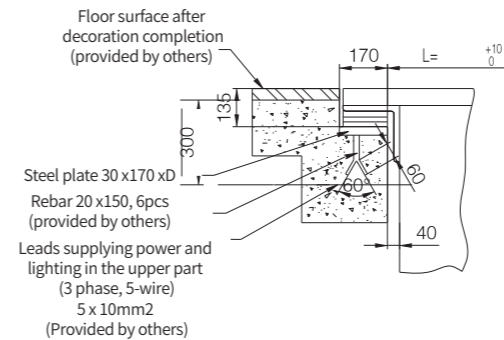
Step width	600	800	1000	Remarks
R1 (KN)	4.1 x L2 + 15.5	4.5 x L2 + 16.1	5 x L2 + 17.5	Unit of L, L2, L3 are m. L1, L2 ≤ 15m
R2 (KN)	4.1 x L1 + 7.8	4.5 x L1 + 7.8	5 x L1 + 8.5	
R3 (KN)	4.25 x L1 + 9.5	4.5 x L1 + 10.5	5.2 x L + 11.5	

# LAYOUT DRAWING OF MOVING WALK (INDOOR)

# LAYOUT DRAWING OF MOVING WALK (OUTDOOR)



- Note:
- 1.This drawing is suitable for construction of single arrangement moving walk (Length  $\leq 7M$ ) installation.
  - 2.If choose double drive, the truss upper must extend 417mm.



- Note:
- 1.This drawing is suitable for construction of single arrangement moving walk (Length  $\leq 7M$ ) installation.
  - 2.If choose double drive, the truss upper must extend 417mm.

No intermediate support (KN)		Single intermediate support (KN)				Dual intermediate support (KN)	
R1=L X q + M		R1=La x q + M				R1=La x q + M	
R2=L X q + N		R2=Lb x q + N				R2=Lb x q + N	
		R3=(La+Lb) x 1.3 x q				R3=(La+Lc) x 1.3 x q	
						R4=(La+Lc) x 1.3 x q	
Model	Step width	A	B	C	D	E	F
FJW/10(11,12)-800	800	800	1038	1400	1460	2038	1400
FJW/10(11,12)-1000	1000	1000	1238	1600	1660	2238	1600
Support force parameter		q		M		N	
800		0.0039		9.5		4.5	
1000		0.0045		11		5	

Inclined angle	Lifting height		Middle bracket		La	Lb	Lc
	from	to	R3	R4			
10°	1297	2178					
	2179	4823	1	-	L/2	L/2	-
	4824	6000	1	1	L/3	L/3	L/3
11°	1449	2420	-	-	-	-	-
	2421	5335	1	-	L/2	L/2	-
	5336	6000	1	1	L/3	L/3	L/3
12°	1601	2663	-	-	-	-	-
	2664	5851	1	-	L/2	L/2	-
	5852	6000	1	1	L/3	L/3	L/3

No intermediate support (KN)		Single intermediate support (KN)				Dual intermediate support (KN)	
R1=L X q + M		R1=La x q + M				R1=La x q + M	
R2=L X q + N		R2=Lb x q + N				R2=Lb x q + N	
		R3=(La+Lb) x 1.3 x q				R3=(La+Lc) x 1.3 x q	
						R4=(La+Lc) x 1.3 x q	
Model	Step width	A	B	C	D	E	F
FJW/10(11,12)-800	800	800	1038	1400	1460	2038	1400
FJW/10(11,12)-1000	1000	1000	1238	1600	1660	2238	1600
Support force parameter		q		M		N	
800		0.0039		9.5		4.5	
1000		0.0045		11		5	

Inclined angle	Lifting height		Middle bracket		La	Lb	Lc
	from	to	R3	R4			
10°	1297	2178					
	2179	4823	1	-	L/2	L/2	-
	4824	6000	1	1	L/3	L/3	L/3
11°	1449	2420	-	-	-	-	-
	2421	5335	1	-	L/2	L/2	-
	5336	6000	1	1	L/3	L/3	L/3
12°	1601	2663	-	-	-	-	-
	2664	5851	1	-	L/2	L/2	-
	5852	6000	1	1	L/3	L/3	L/3