

Escalators

Shaping Urban Mobility





Skirt Panel Brush

Prevent passengers' clothing from being caught by the apron board and the step side gap, in order to protect the safety of passengers.

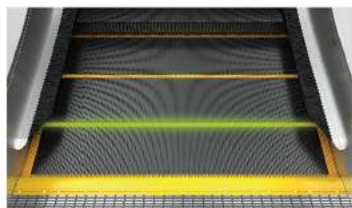
Large Radius Rotary Handrail Guide Rail

Large radius rotary handrail guide rail will work together with the rotary wheel set to reduce friction and prolong the life of the handrail.



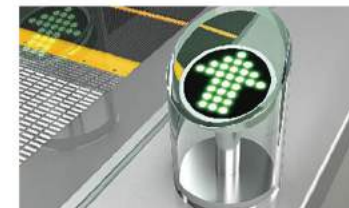
Demarcation Lamp

Green fluorescent light is installed under the upper and lower step pedals. When two adjacent steps do not run at the same time, green fluorescent light will be shed over the tooth mouth of the step, to help passengers identify the horizontal section of step turnover and improve the riding safety.



Running Direction Indicator (Optional)

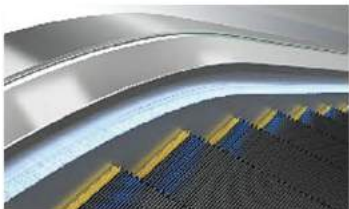
Running direction and running forbidden display identification is installed in the handrail entrance to show the running or running forbidden instruction to ensure the safety of passengers.





Microcomputer Board Technology

Apply microcomputer board technology. The fault detection function is, thus greatly improved the safety performance

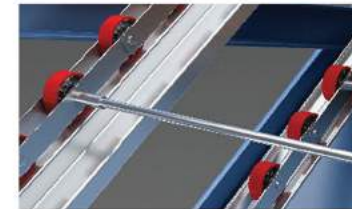


Apron Lighting or Apron Brush Lighting

Prevent passengers' clothing from being caught by the apron board and the step side gap, in order to protect the safety of passengers.

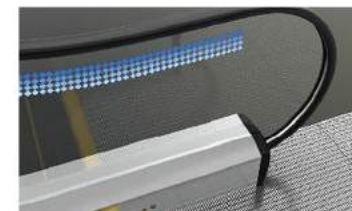
Step Chain

The diameter of the contact roller is $\Phi 75$. This can effectively reduce the wheel pressure, and improve the step chain breaking force dramatically. The safety factor will be higher



Handrail guardrail

Large-height and high-intensity armrest guardrail is adapted. The protection height of the guardrail can amount to 1000 mm, which has improved safety performance. Meanwhile, new reinforced safety glass fixtures enables the fence to have strong stability.



Robotic Welding

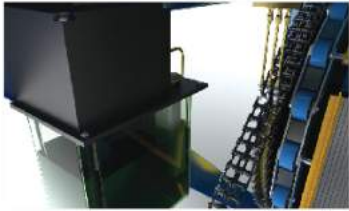
The truss adopts the Robotic Welding technology, which greatly enhance the manufacturing process. It has lean quality and it is sturdy and durable, beautiful and elegant.





Water Level Detection Sensor

Outdoor escalator's lower machine room installs water level detection sensor. It can automatically detect the water level and find out ponding problems



Automatic Oiling & Lubrication System

PLC Controlled Automatic oiling and lubrication system is able to give ideal automatic oiling to the transmission chain, thus extending the life of the transmission mechanism.



Oil-Water Separator

The Oil-Water Separator is specially designed for outdoor escalators. The rainwater is discharged through the separator and the oil is cleaned regularly to reduce oil and protect the environment.

LED Lighting technology

All lighting equipment uses LED lighting technology. Compared with traditional bulbs, it can save upto 80% energy



Skirting Panel Lighting (Optional)

Handrail Lighting (Optional)

Step Lighting(Optional)

Comb Teeth Lighting (Optional)

**Green Technology
Creates Environmental
Pioneer**

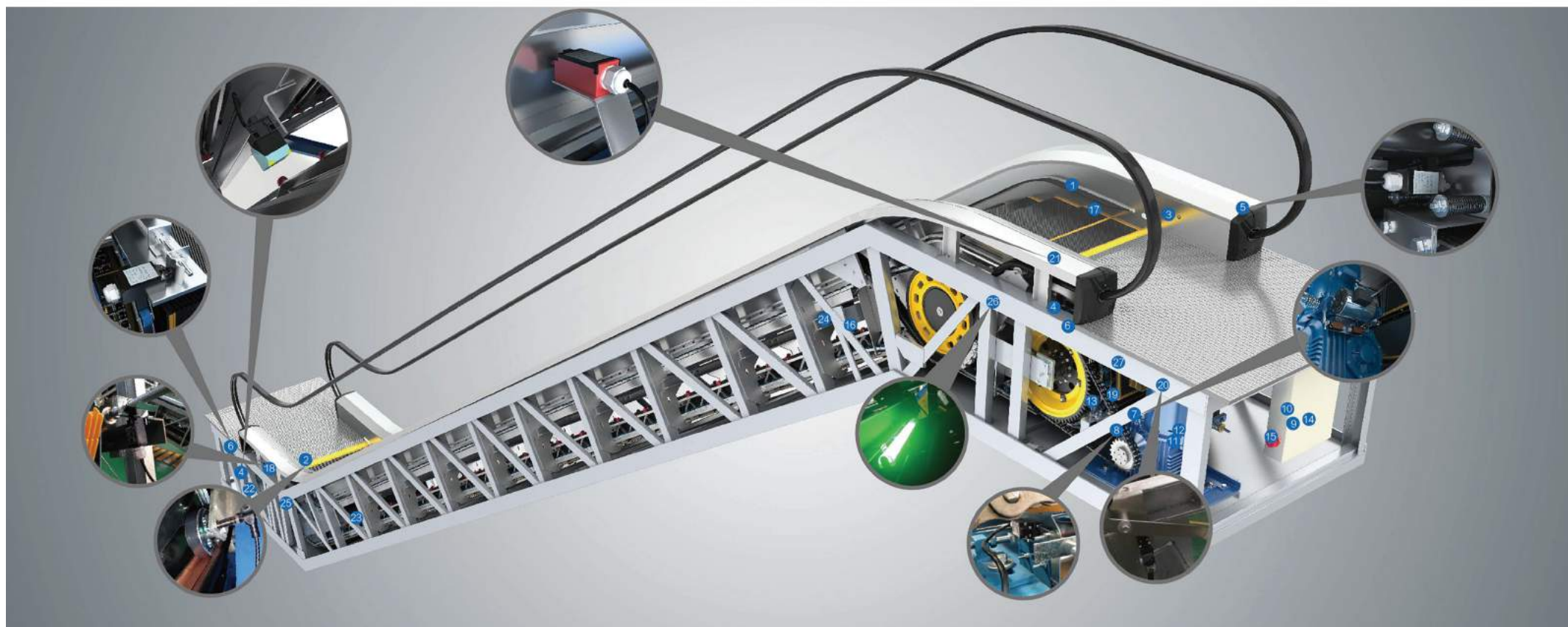


Safety Device

Standard Safety Device	
1	Skirting Brush
2	Handrail Speed Monitor
3	Emergency Stop Button
4	Step missing Detection Device
5	Handrail Inlet
6	Comb Plate Safety Protection Device
7	Safety Brake
8	Broken Drive Chain Protection
9	Electrical circuit Protection
10	Motor Overload Protection
11	Phase Error or Failure Protection
12	Over-Speed Protection
13	Unintentional Reversal of the direction of travel
14	Safety Switch Inspection
15	Alarm Device Start

Standard Safety Device	
16	Step Sagging Protection Device
17	Warning line
18	Broken step chain protection
19	Braking Distance Inspection
20	Landing Plate Contact

Optional Safety Device	
21	Skirting protection
22	Lower machine room water level detection device (outdoor type standard)
23	Cascade anti-jump safety protection
24	Fire stop ladder linkage interface
25	Handrail with break protection
26	Step Clearance lighting(LED)
27	Auxiliary brake (Standard configuration when H>6m)





Escalator Specification Table (Indoor Type)

● Standard

● Optional

Specifications			KLF
Handrail		Synthetic rubber (black)	●
		Other colors	●
Handrail Frame		Hairline stainless steel	●
		Aluminium alloy	
Balustrade		Colorless transparent tempered glass	●
		Colorless transparent tempered glass	●
		Stainless steel inclined handrail	
Inner & Outer Cover deck		Hairline stainless steel	●
Skirt Guard		Hairline stainless steel	●
Step	Step	Stainless steel (black) with yellow security line	●
		High intensity aluminium alloy integrated die-casting (silver gray or black)	●
		Synthetic resin (yellow)	●
Floor Plate	Comb	Aluminium alloy	●
			●
			●
Landing Plate		Punched Stainless steel	●
		Etched Stainless steel	●
Truss	Truss	Angle steel	●

Escalator Specification Table (Outdoor Type)

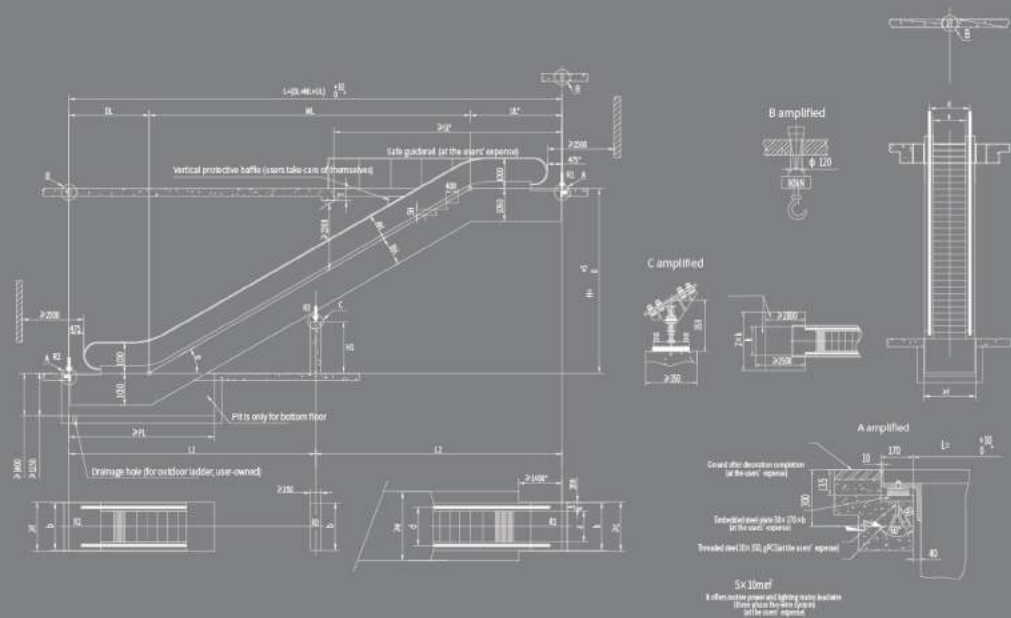
● Standard

● Optional

Specifications			KLF
Handrail		Synthetic rubber (black)	●
		Other colors	●
Handrail Frame		Hairline stainless steel	●
		Aluminium alloy	
Balustrade		Transparent tempered glass	●
		Colorless transparent tempered glass	●
		Stainless steel inclined handrail	
Inner & Outer Cover deck		Hairline stainless steel	●
Skirt Guard		Hairline stainless steel	●
Step	Step	High intensity aluminium alloy integrated die-casting (silver gray or black)	●
Floor Plate	Comb	Aluminium alloy	●
	Landing Plate	Etched Stainless steel	●
Truss	Truss	Angle steel	●



KLF-K/KLF-M
F-Type Escalator



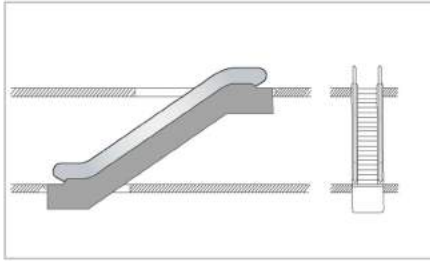
Specification Table

Model	KLF-K	KLF-M
Angle of Inclination	30°, 35°	30°
Step Width (mm)	1000, 800, 600	1000, 800, 600
Running Speed (m/s)	0.5	0.5
Horizontal Step Number	2	3
Rise H(m)	<6	<10
Intermediate Support	No	<=5.7 No
	No	5.7 < H <= 10 Yes

Standard Specification and Dimensions

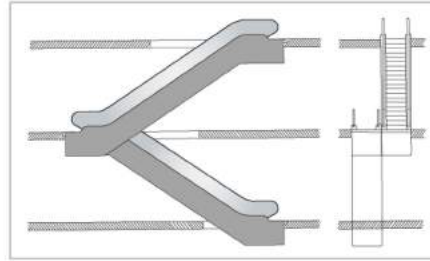
Model	α	DL	ML	UL	PL	AH	BH	SH	SL
KLF-K	35°	2240	1H	2525	4100	816	958	230	5900+1.4282 X T
KLF-M	35°	2640	1.4282 X H	3065	4500	816	958	230	6400+1.4282 X T
KLF-K	30°	2195	1.7321 X H	2465	4300	863	938	200	6500+1.7321 X T
KLF-M	30°	2595	1.7321 X H	2970	4700	863	938	200	7000+1.7321 X T

The following arrangements are possible



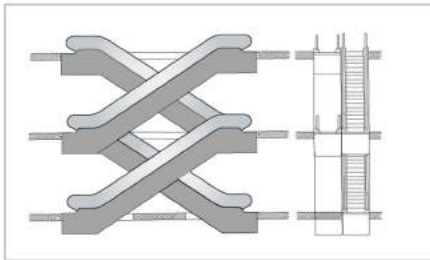
Single unit arrangement

Particularly suitable for transporting passengers between two floor levels, where passenger flow is in one direction, although on-demand starting can be utilized to allow travel in both two directions.



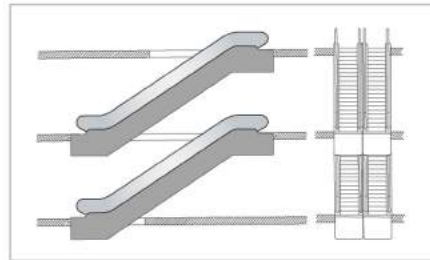
Continuous arrangement (one travel direction)

Mainly suitable for small department stores, between three sales floor levels. More space required than the interrupted arrangement.



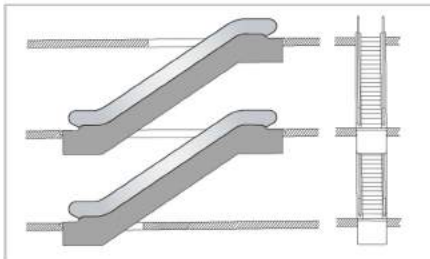
Multi-level criss-cross arrangement
(continuous traffic flow, two travel directions)

Mainly used in major department stores, public buildings and public transport buildings, reduce congestion at the landing area by separating upwards and downwards travelling passengers.



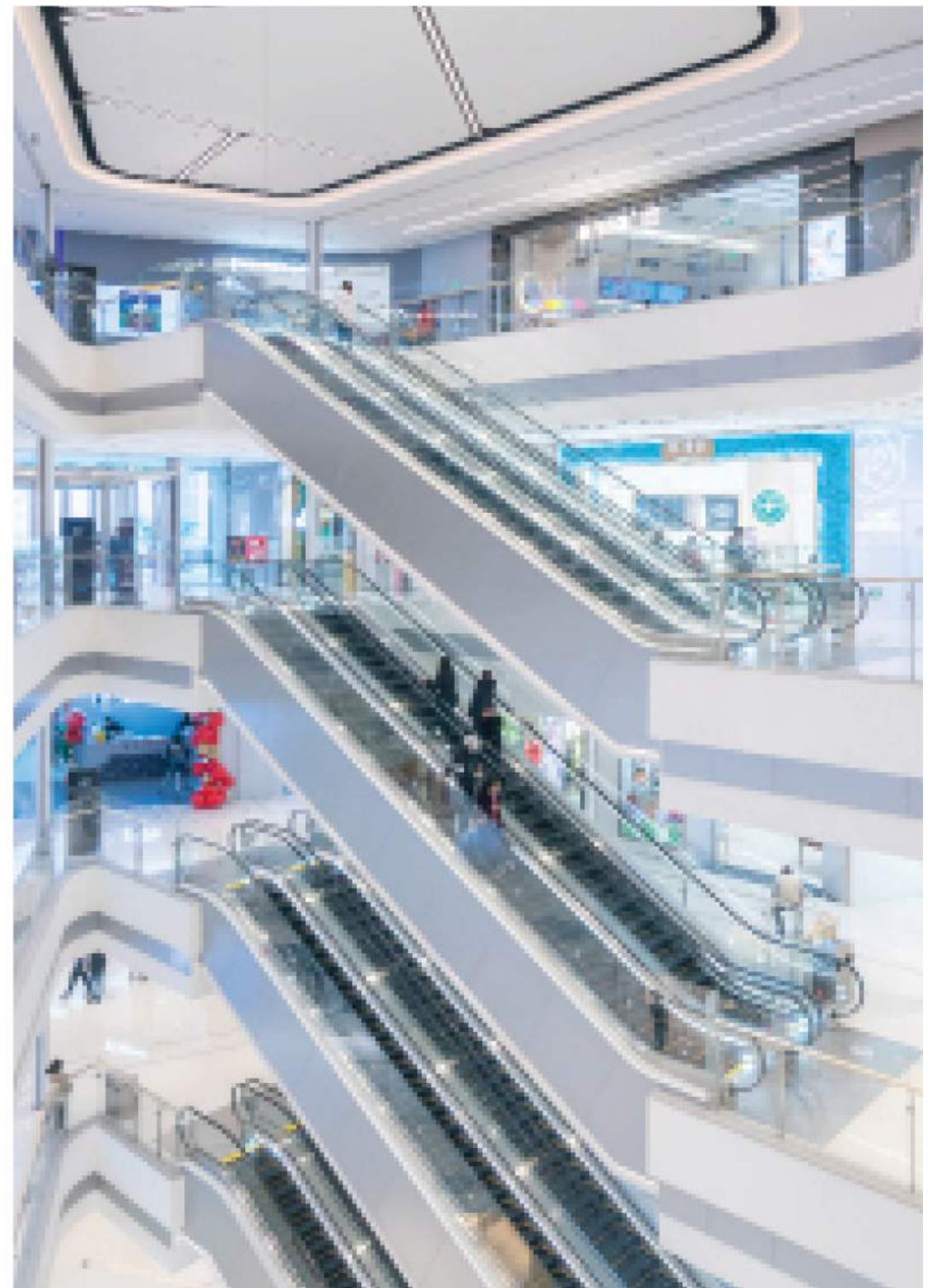
Multi-level parallel arrangement
(interrupted traffic, two travel directions)

Mainly used in department stores and public buildings with a heavy traffic flow. When there are three or more escalators, the possibility to reverse the direction of travel of both escalators depending on the usage or traffic flow. This arrangement is economical, since no decorative truss cladding required.



Interrupted arrangement (one travel direction)

Passengers have to make a short detour to the next escalator, strategically placed displays alongside the route of this detour can help to increase sales by encouraging impulse buying.



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