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 Service hotline **400-8866-350**

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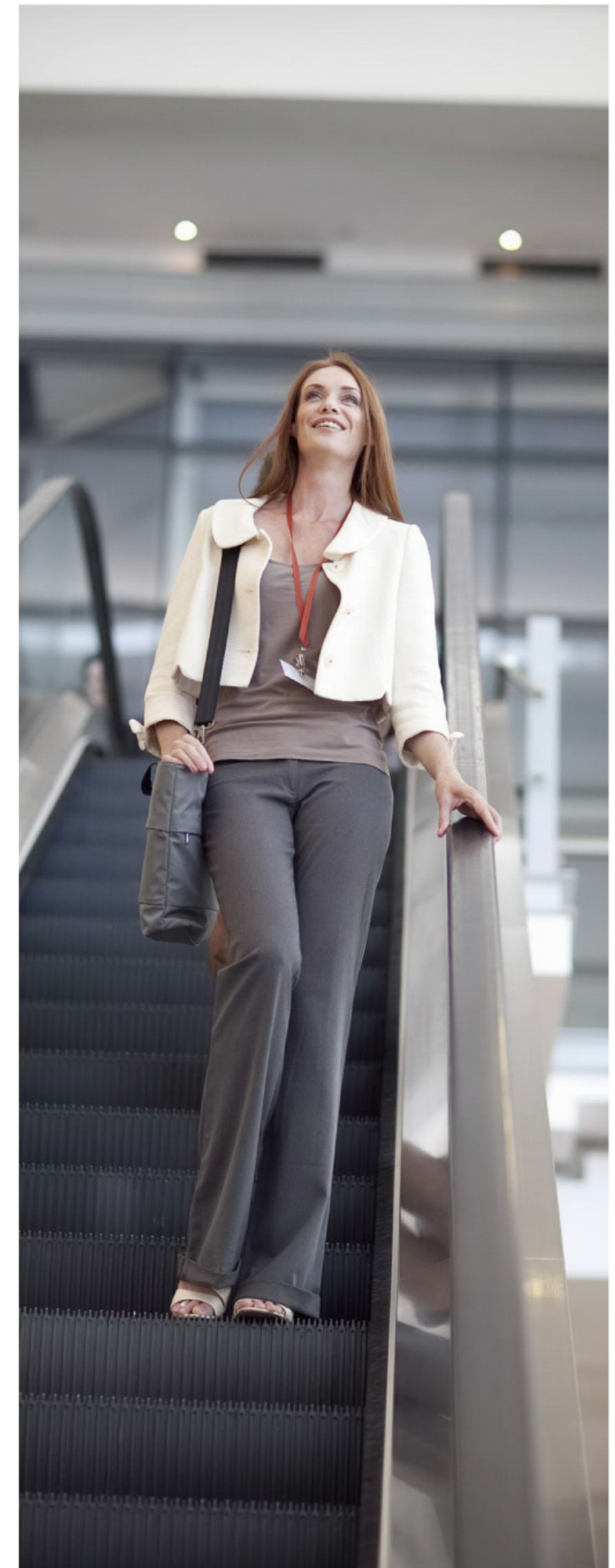
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**SAIL**

HIGH TECHNOLOGY  
FULFILLS A BRIGHT FUTURE

ESCALATOR  
**MOVING** WALK

Sail Intelligent Elevator(Suzhou) Co.,Ltd.





Focus upon **intellectual** elevators  
Lead new concept  
of future elevators

Intellectual times, summit conference.  
Wisdom appears invisible and peaceful.  
Let's hug intellectual manufacture and gather together innovative cohesion.  
The building is endowed with unique charm because of magical & flexible space.  
Let's wisely compose a bright future of intellectual made in China.





# Safety

Sail escalators serve for different occasions with multiple environments, various work conditions all over the country. Its first-class safety functions and stable running system go through the harsh market tests. It is acknowledged by the markets. Furthermore, we actively research into the industrial standards. It pursues new breakthrough and upgrading. It provides the passengers' life safety with the more beneficial warranties.

It stably offers you all-round guarantees



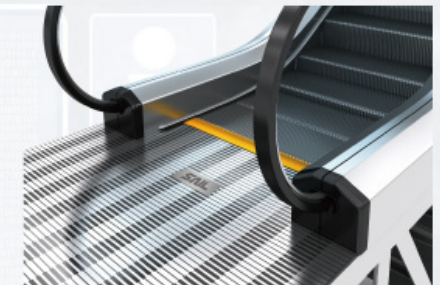
## Safety first-choice control

It applies the leading international control technology with CPU main-board computer control. It can comprehensively monitor the escalator running conditions. It promptly finds and removes any hidden safety danger. It ensures the passengers' travel safety.



## Outstanding performance guarantee

It combines with multiple leading international technology and energy-saving safety devices. It thoroughly removes any regular hidden danger such as loose step chain, friction amid step; skirting and comb-plate with regular repair & maintenance. It guarantees the secure and smooth operation.



## Sleep / wake-up function

Radar scan system in escalator entry / exit composes a complete and auto-start intellectual system through main-control system, ultrasonic wave sensor system, direction system. System fulfills escalator sleep and wake-up functions. It completely gets rid of electricity loss while nobody travels the elevator. It saves electric energy for vast users to maximum extent.





# Escalator

## It founds superb quality

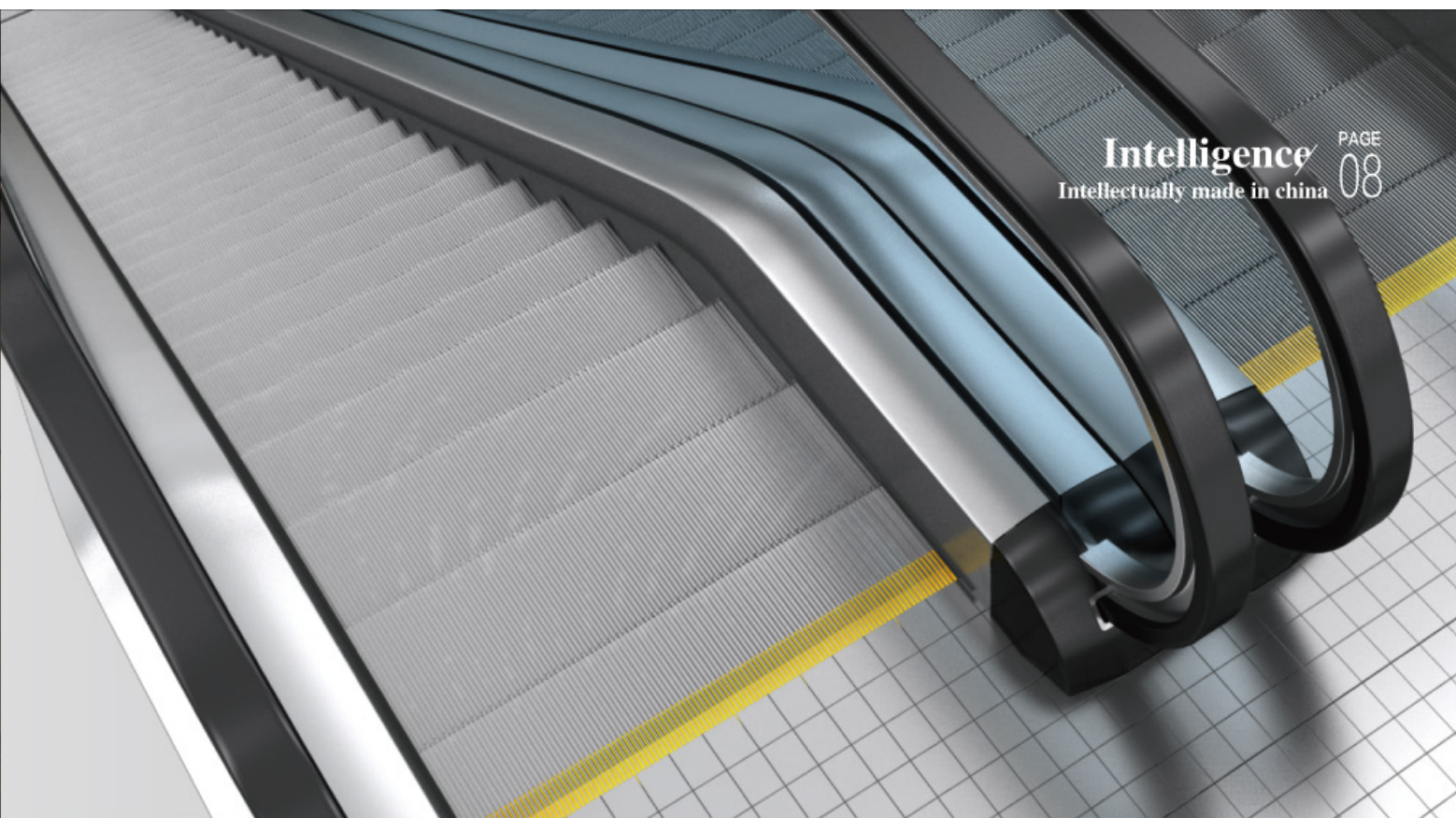
Truss applies the superior section materials with unique structure, high intensity, thorough anti-rust treatment, good effect, long life.

Truss applies the superior section materials with unique structure, high intensity, thorough anti-rust treatment, good effect, long life.

Super-strong CPU main-board computer control executes real-time monitor to running conditions. It promptly stops if any abnormal condition takes place. It makes prompt & automatic record. It displays trouble codes.





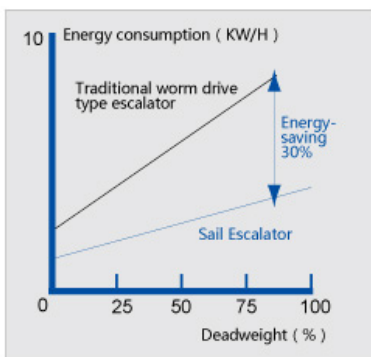


## Efficient transmission, Variable frequency energy saving

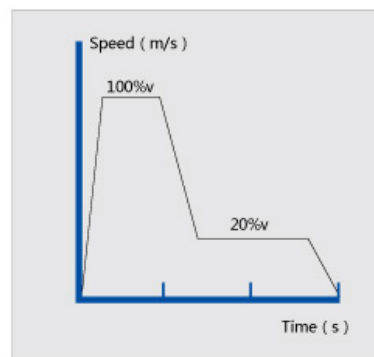
Compared with the traditional worm gear decelerator, the highly accurate and effective helical gear decelerator brings about the higher efficiency. It fully ensures the effective use of energy.

It has variable frequency specifications, multiple modes to test the passenger flow. It automatically stops when nobody is in the elevator. It thus avoids invalid operation and saves the electric power.

Efficiency comparison conceptual diagram of helical gear decelerator and worm-gear sub-decelerator



Conceptual diagram of variable frequency specification operation



## Advantageous properties

- Attraction of precision structure

High strength metal structure constructs the precision sizes. Super-conscious aesthetics design perfectly combines with the building.

- Attraction of deluxe charm

It installs trouble display which accurately analyzes the running condition and display it on the screen. It ensures the prompt and effective repair and maintenance.

- Attraction of effective safety

Toughened glass wainscot and deluxe decoration are better than others.

- Attraction of high-tech induction

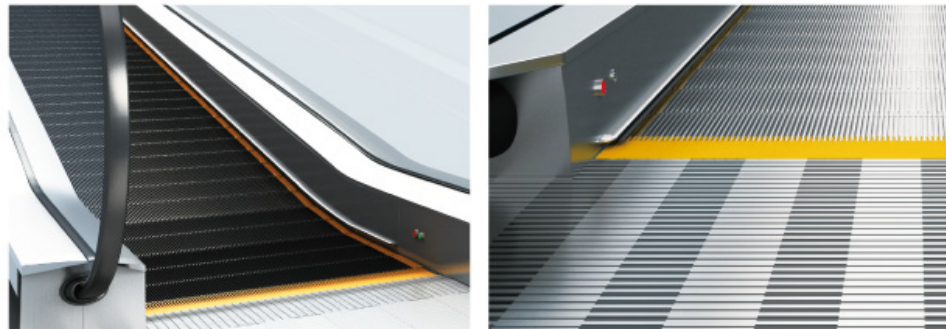
Automatic start/stop running device is near the floor plate. It installs automatic sensor. It automatically detects and operates when the passengers get closer. It automatically stops when the passengers leave.



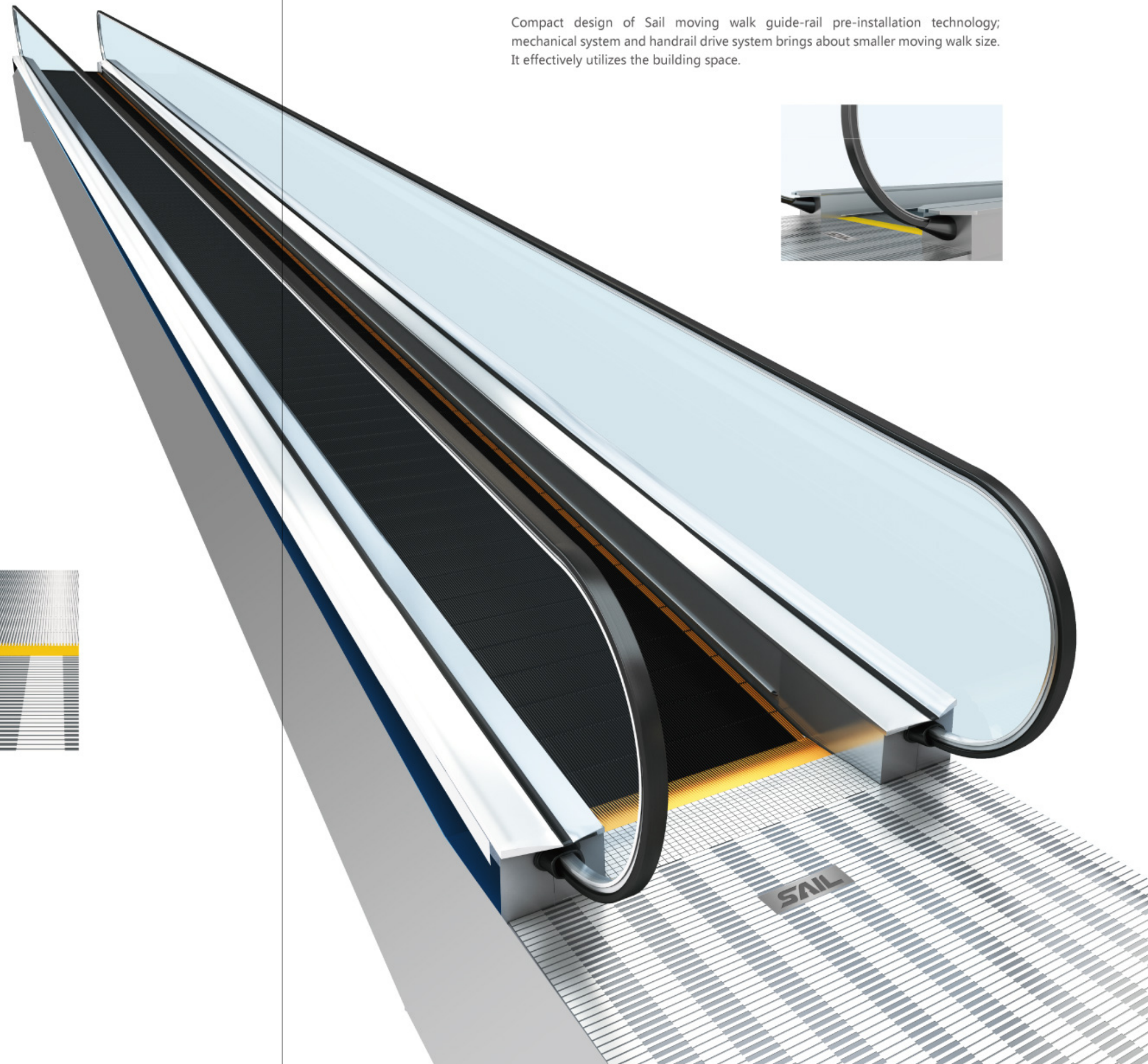
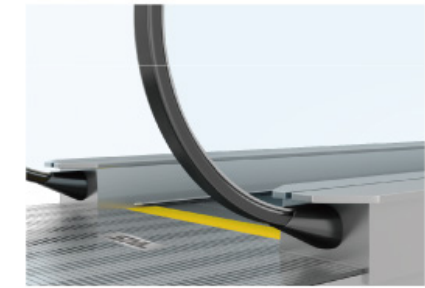
## Moving walk

### Pleasantly enjoy a wonderful life through up / down motion

Sail moving walk satisfies the transport problem of huge passenger flow. It meets the requirements of long-distance walk, delivery of luggage cart; baby's cart; shopping cart; vehicle for disabled etc. People especially feel as easily as walking on firm earth during up / down shopping travel. It is greatly convenient for people's outing and shopping. It becomes the first-choice solution plan in various large-size supermarkets, airport, exhibition center, transport change-over station.



Compact design of Sail moving walk guide-rail pre-installation technology; mechanical system and handrail drive system brings about smaller moving walk size. It effectively utilizes the building space.





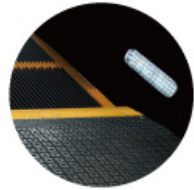
# Safety device

Standard safety device		Standard safety device	
1	Broken step chain protection	8	Lack of phase, error phase protection
2	Over-speed protection	9	Motor over-load protection
3	Direction reversal protection	10	Electrical appliance loop protection
4	Security line	11	Handrail entrance protection
5	Emergency stop button	12	Comb plate safety device
6	Skirt panel protection	13	Step sagging protection device
7	Brake protection	14	Broken drive-chain safety device

Standard safety device		Optional safety device	
15	Safety inspection switch	22	Alarm bell starting device
16	Step illumination	23	Handrail broken protection
17	Landing plate contact	24	Lower machine room water level detection (outdoor escalator)
18	Handrail speed monitor	25	Auxiliary brake(it should be allocated with the emergency brake when $6m < h$ )
19	Skirt panel brush	26	Oil-water separator(outdoor escalator)
20	Braking distance inspection		
21	Step missing detection		

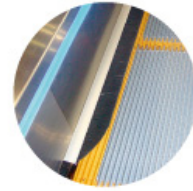
## Comb plate safety device

Front ends of comb teeth plates are installed on springs. If any foreign substance is nipped between moving escalator steps and static comb teeth plates; such plates will move in vertical or backward directions, and trigger the safety switches monitoring at both sides of the plates, and the escalators will be automatically stopped.



## Skirt panel protection

Brush is installed between step and skirting so that the passengers' shoes do not touch the skirt panel.



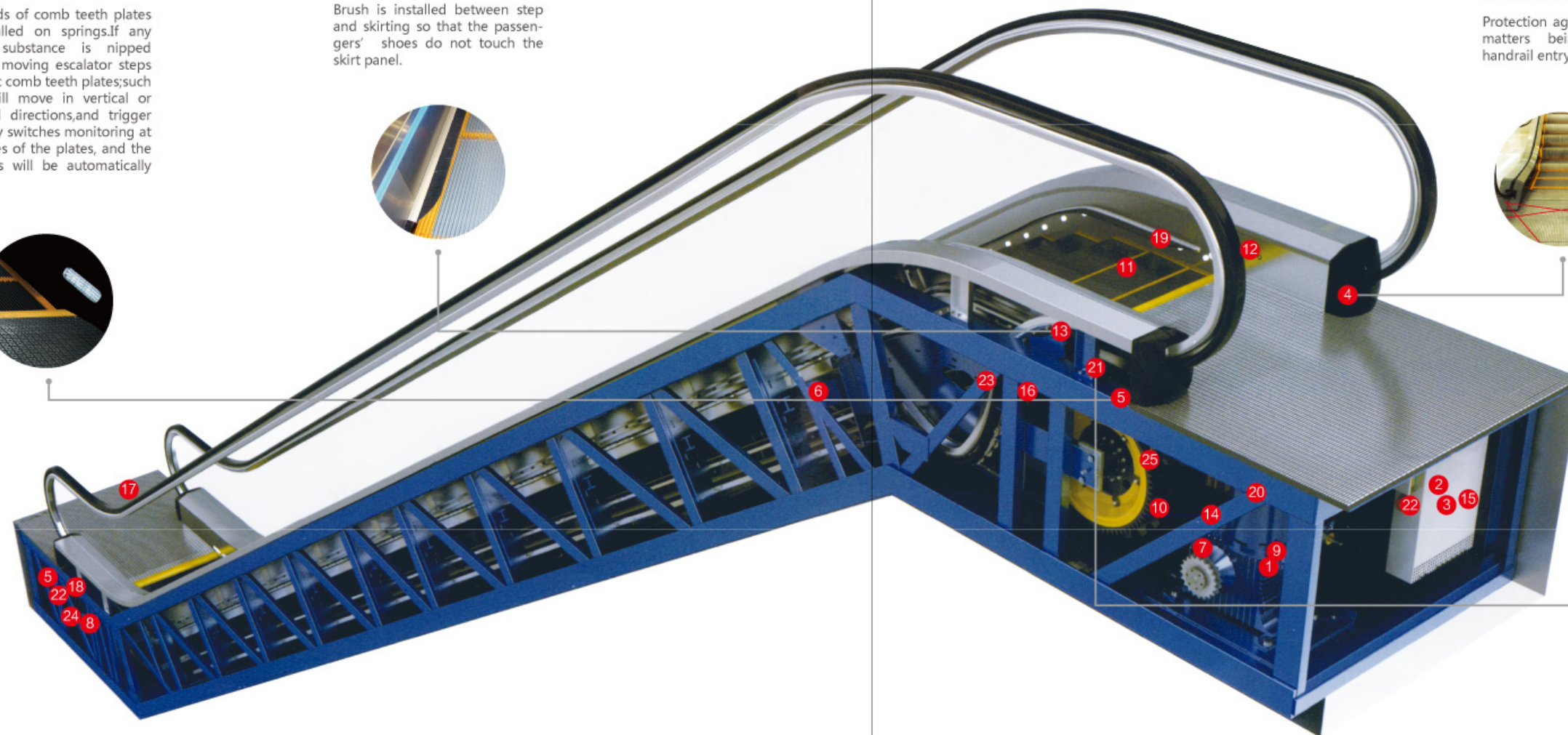
## Handrail entrance protection

Protection against risk of foreign matters being jammed into handrail entry.



## Step missing detection

The detector is in driving station and steering station respectively. It ensures that the gap out of step (tread) loss does not appear in the entry in up / down motion. Driving station and steering station sets protective detection functions. They shall be verified respectively under normal operation conditions. After the device acts, it can only be reset manually.



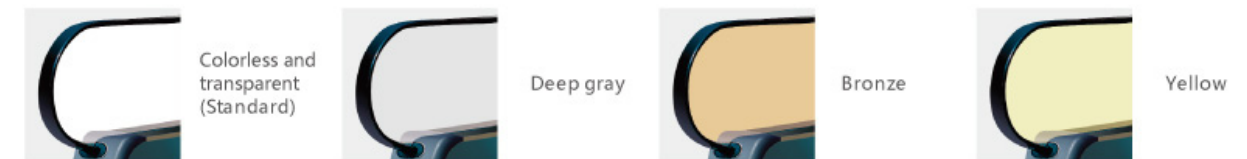


# Standard function

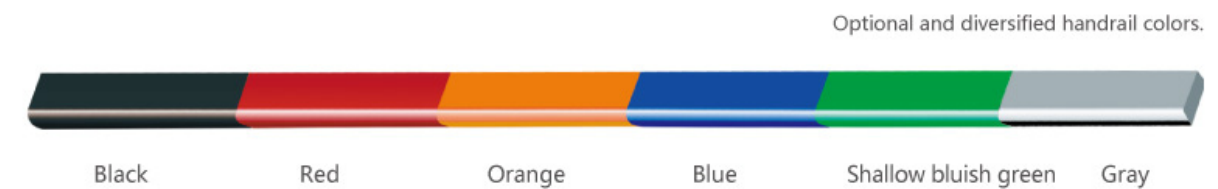
Func.name	Func.description
Static electricity protection	•Eliminate static electricity raised from running of steps.
Emergency stop button	•Push the emergency stop button to stop the escalator/moving walk against emergency raise.
Skirting protection	•Protection against risk of foreign bodies being jammed into clearance between steps and skirting.
Handrail entry safety protection	•Protection against risk of foreign bodies being jammed into handrail entry.
Main drive chains safety protection	•Protection against risk of drive chains being breakage or undue elongation.
Over-speed protection	•Protection against risk of speed being over 20% of rated speed.
Under-speed protection	•Protection against risk of speed less than 80% of rated speed.
Un-intentional reversal protection	•Protection against risk of unintentional reversal protection.
Lack of phase, error phase protection	•Protection against risk of phase failure.
Short circuit protection	•Protection against risk of short circuit.
Over-load protection	•Protection against risk of motor continually over-load.
Step sagging protection	•Protection against risk of steps being breakage and sagging.
Broken step chain protection	•Protection against risk of step chains being breakage or under elongation.
Comb teeth safety protection	•Protection against risk of foreign bodies being trapped at the point where the step enter the comb.
Handrail speed and broken handrail monitor	•It detects the handrail speed and monitors the broken handrail.
Skirting anti-clamp device	•It sets protection brush in the skirting on both sides of the step.
Step missing detection	•It detects the step missing in the stairway.
The brake opens the monitor switch	•It monitors whether the brake opens or not in during the escalator running.
Handwheel and handwheel protection cover open safety	•During the use of handwheel, when open the handwheel and the handwheel protection cover, the safety switch will cut the safety circuit against escalator running.
Floor-plate monitor switch	•When the pit cover plate opens, it cuts off safety circuit and stops the escalator safety switch.
Monitor of brake distance	•It monitors brake distance of the escalator and auto-walk.

# Optional function

## Guardrail glass color



## Handrail color



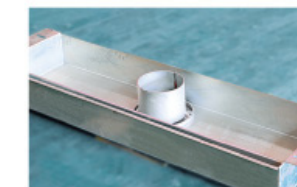
## Frequency converter

When chooses the frequency converter, it can effectively reduce the energy consumption, usually save 60% of the energy in the little passenger flow and efficiently cut down 80% of the peak-value current. The escalator operates at low speed under no-load conditions, while detects the accessing passenger, it will return to normal speed for the operation.



## Oil / water separator (Apply to outdoor type)

It separates the escalator oil and water. Rain exhausts through oil / water separator. We regularly clean oil mainly for the environmental protection purpose.





# Optional function

## Comb illumination

The illumination has been installed in the skirt panel near the comb plate. It offers the lighting for the step and the comb plate. It is more convenient for the passengers to up and down.



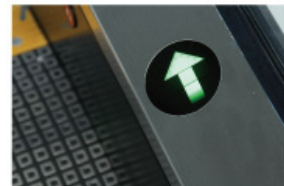
## Intermittent operation (automatic start / stop)

The sensor inside the handrail which is near the floor plate can detect the passenger that enters into the escalator, and then it will automatically start into the operation. After all the passengers leave, it will automatically stop the operation again in order to save the energy.



## Running direction indicator

The running direction and forbiddevn display mark have been placed in the inlet and outlet of the handrail. The obvious running or forbidden instruction ensures the safe riding of the passengers with great ease.

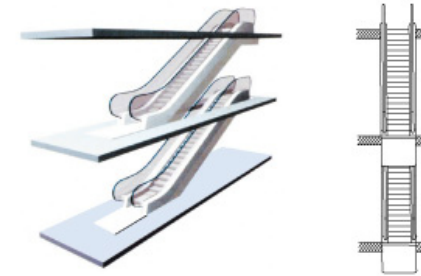


## Heating device

Each escalator usually installs three heating devices. One is beside the host in the upper machine room. It mainly heats the host. The second is installed in the mid escalator. And the third is in the lower part. It mainly heats the whole escalator.

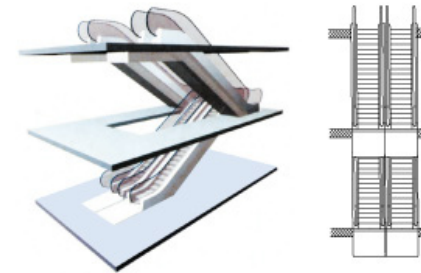


# Perfect layout



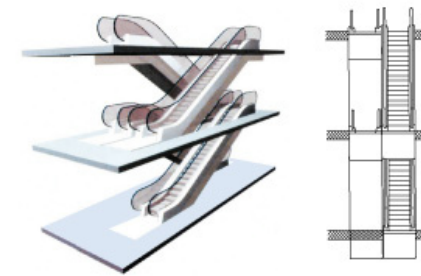
## Interrupted arrangements

Such arrangement covers small space with flexible escalator position. It can only fulfill one-way intermittent passenger flow. It is most applicable for small shopping center and supermarket.



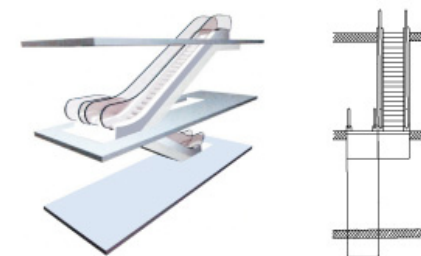
## Paralleled & continuous arrangements

Such arrangement is mainly applicable for large shopping center and public traffic occasions with large passenger flow. It can fulfill two-way continuously large passenger flow. If passenger flow has one-way rush hours, it can adjust the running direction of partial escalator in order to meet passenger flow at rush hours. It needs no inside baffle. It is very economical.



## Cross & continuous arrangements

Installed in buildings with multiple floors, the crisscross layout can travel in two directions to limit the traveling time between floors. This type is widely used in shopping malls and now being used more and more in government institutes and public places.

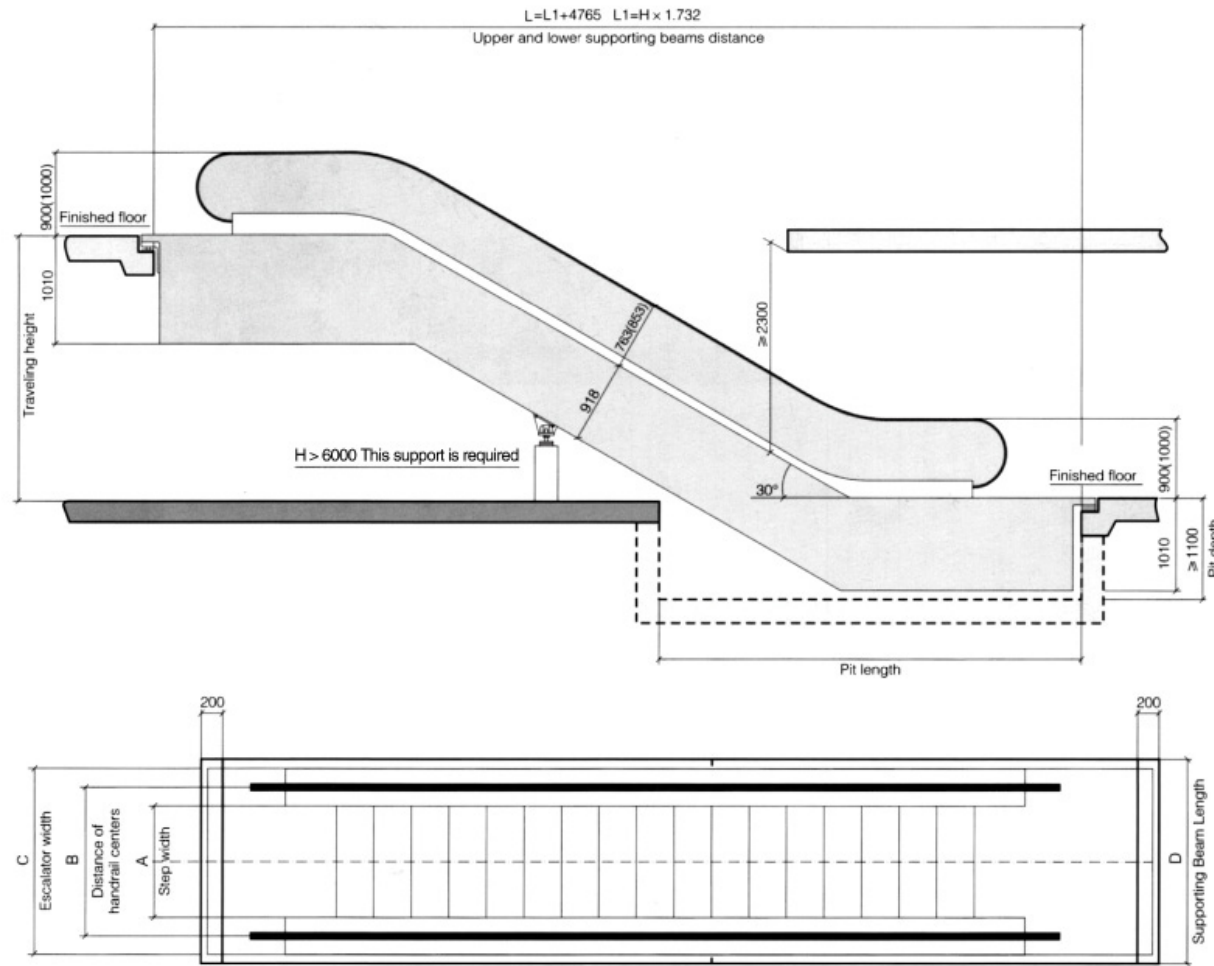


## Continuous arrangement

Such arrangement is bigger than space required by intermittent arrangement. It can fulfill one-way continuous passenger flow. It is most applicable for medium and small department store and shopping center.



# 30° Escalator construction sketch

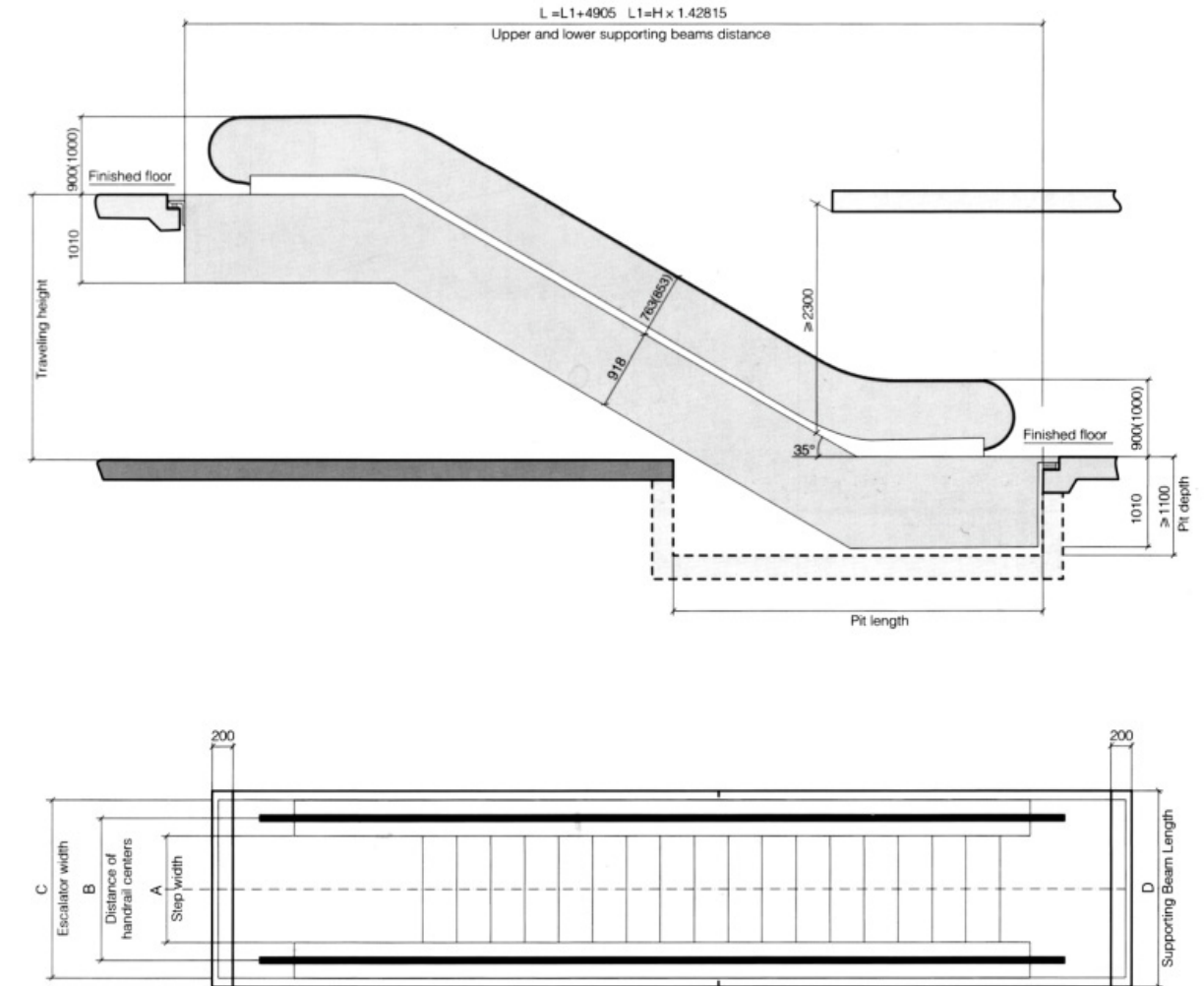


## 30° Escalator specifications

Model	Rise (mm)	Rated speed (m/s)	Capacity (per./h)	Inclination (°)	No. of horizontal steps	Motor power (Kw)	A (mm)	B (mm)	C (mm)	D (mm)
(600/30°)	$3000 \leq H \leq 6000$	0.5	4500	30	2(3)	8	600	838	1200	$\geq 1260$
	$6000 < H \leq 7200$				3	11				
(800/30°)	$3000 \leq H \leq 4800$	0.5	6750	30	2(3)	8	800	1038	1400	$\geq 1460$
	$4800 < H \leq 6000$				2(3)	11				
	$6000 < H \leq 6400$				3	11				
	$6400 < H \leq 7200$				3	15				
(1000/30°)	$3000 \leq H \leq 4800$	0.5	9000	30	2(3)	8	1000	1238	1600	$\geq 1660$
	$4800 < H \leq 6000$				2(3)	11				
	$6000 < H \leq 6400$				3	11				
	$6400 < H \leq 7200$				3	15				

The schematic Drawing of Aekson Sanyo work is for reference only

# 35° Escalator construction sketch



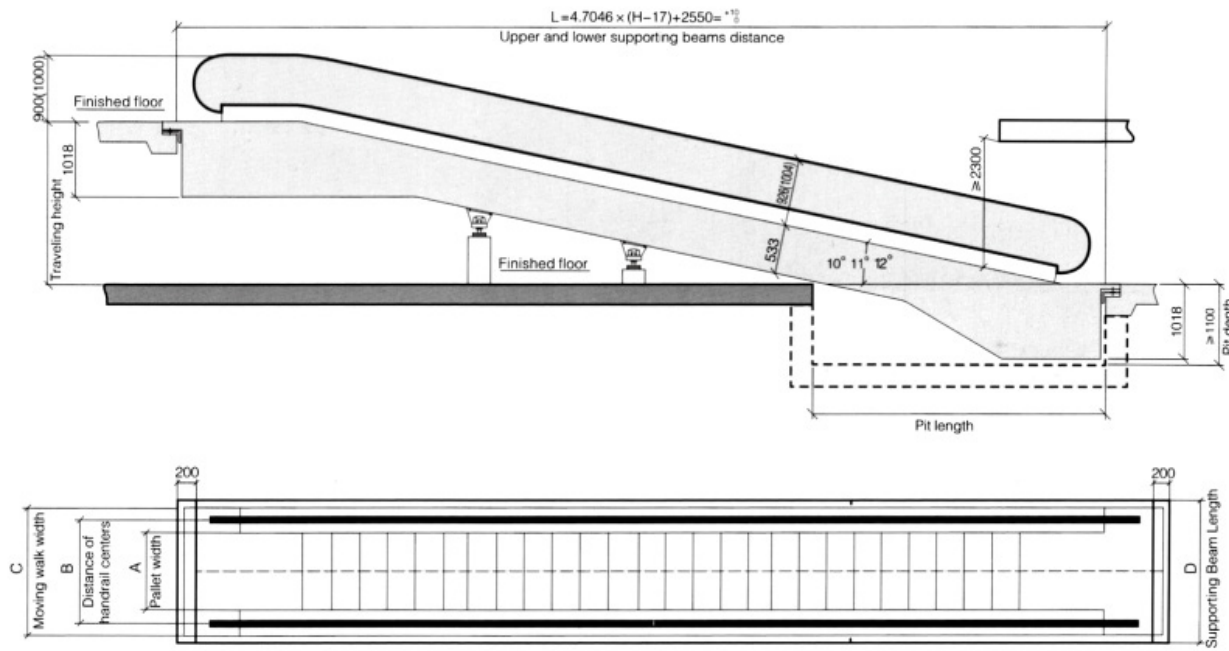
## 35° Escalator specifications

Model	Rise (mm)	Rated speed (m/s)	Capacity (per./h)	Inclination (°)	No. of horizontal steps	Motor power (Kw)	A (mm)	B (mm)	C (mm)	D (mm)
(600/35°)	$3000 \leq H \leq 6000$	0.5	4500	35	2	8	600	838	1200	$\geq 1260$
(800/35°)	$3000 \leq H \leq 5200$	0.5	6750	35	2	8	800	1038	1400	$\geq 1460$
	$5200 < H \leq 6000$					11				
(1000/35°)	$3000 \leq H \leq 5200$	0.5	9000	35	2	8	1000	1238	1600	$\geq 1660$
	$5200 < H \leq 6000$					11				

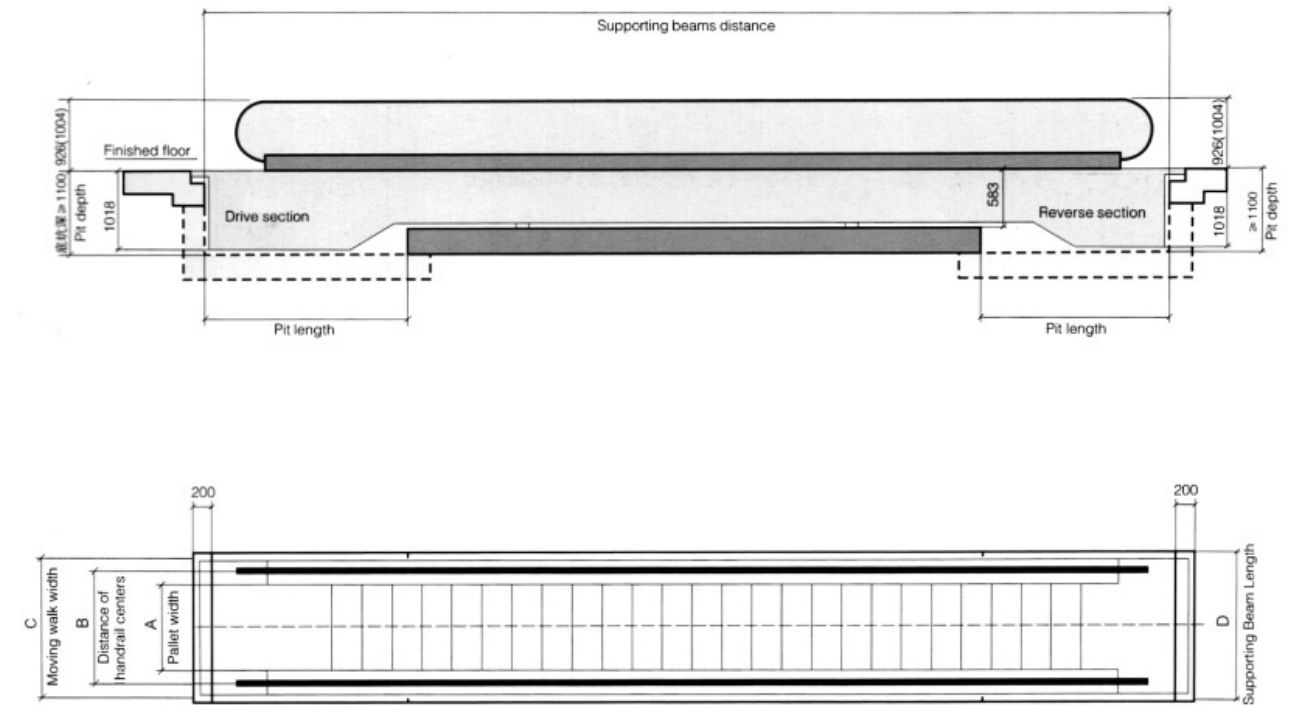
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# 10° -12° Moving walk construction sketch



# 0° -6° Moving walk construction sketch



## 10°-12° Moving walk specifications

Model	Rise (mm)	Rated speed (m/s)	Capacity (per./h)	Inclination (°)	Motor power (Kw)	A (mm)	B (mm)	C (mm)	D (mm)
(800/10°)	2000 ≤ H ≤ 4200	0.5	6750	10	8	800	1038	1400	≥1460
	4200 < H ≤ 5900				11				
	5900 < H ≤ 6500				15				
(1000/10°)	2000 ≤ H ≤ 3300	0.5	9000	10	8	1000	1238	1600	≥1660
	3300 < H ≤ 4600				11				
	4600 < H ≤ 6200				15				
	6200 < H ≤ 6500				2X11				
(800/11°)	2000 ≤ H ≤ 4300	0.5	6750	11	8	800	1038	1400	≥1460
	4300 < H ≤ 6000				11				
	6000 < H ≤ 6500				15				
(1000/11°)	2000 ≤ H ≤ 3400	0.5	9000	11	8	1000	1238	1600	≥1660
	3400 < H ≤ 4700				11				
	4700 < H ≤ 6400				15				
	6400 < H ≤ 6500				2X11				
(800/12°)	2000 ≤ H ≤ 4500	0.5	6750	12	8	800	1038	1400	≥1460
	4500 < H ≤ 6200				11				
	6200 < H ≤ 6500				15				
(1000/12°)	2000 ≤ H ≤ 3500	0.5	9000	12	8	1000	1238	1600	≥1660
	3500 < H ≤ 4900				11				
	4900 < H ≤ 6500				15				

The schematic Drawing of Aekson Sanyo work is for reference only

## 0°-6° Moving walk specifications

Model	Length (mm)	Rated speed (m/s)	Capacity (per./h)	Inclination (°)	Motor power (Kw)	A (mm)	B (mm)	C (mm)	D (mm)
(800/0°-6°)	10000 ≤ H ≤ 80000	0.5	6750	0-6	8	800	1038	1400	≥1460
	80000 < H ≤ 150000				11				
(1000/0°-6°)	10000 ≤ H ≤ 70000	0.5	9000	0-6	8	1000	1238	1600	≥1660
	70000 < H ≤ 150000				11				

The schematic Drawing of Aekson Sanyo work is for reference only



## 24-hour customer service hotline

Sail Intelligent elevator owns the powerful service team. They offers 24-hour all-weather safeguard for your passenger flow. Our repair & maintenance staff stress upon safe and practical properties with rapid response. They rush to the site as soon as possible. They go all out to provide you with effective long-term solution plans.

## Long-distance monitor

Various repair & maintenance networks execute real-time monitor to running elevators through preset intellectual building system interface (i.e. long-distance monitor interface). If there is something wrong with elevator, it notifies after-sale staff to promptly solve the problem as soon as possible. It guarantees 365-day 24-hour safe & reliable elevator operation.

## Specialized installation system

It persists in human-centered principle. It applies effective and precise customer management system and technical training system. It is equipped with professional installation team with rich experience. It regularly provides installation team with skill and safety training. It enhances their professional capabilities. It constructs an excellent installation team in elevator industry. It supplies all-round considerate service from ordering, booking to delivery and installation flows etc.

## Perfect supply system

The enterprise pursues the objective of "being centered by clients". It establishes the perfect supply system. It can choose material nearby. It answers the clients as soon as possible. It offers prompt and convenient parts supply. It becomes the most powerful basic material guarantee in the service system. With coordination of the strong storage & delivery center, the customers can enjoy the more prompt and convenient service within the shortest time possible.

# Considerate service

## Professional repair & maintenance system

It regularly assigns repair and maintenance staff to test and maintain the elevators. It promptly finds the problems and remove any hidden danger in advance. It gives a full use of Web of Things technology. It fulfills organic linkage to elevator running condition test & alarm, emergency repair. It promises to arrive at site within 30 minutes. It provides vast clients with prompt and accurate repair & maintenance service.

