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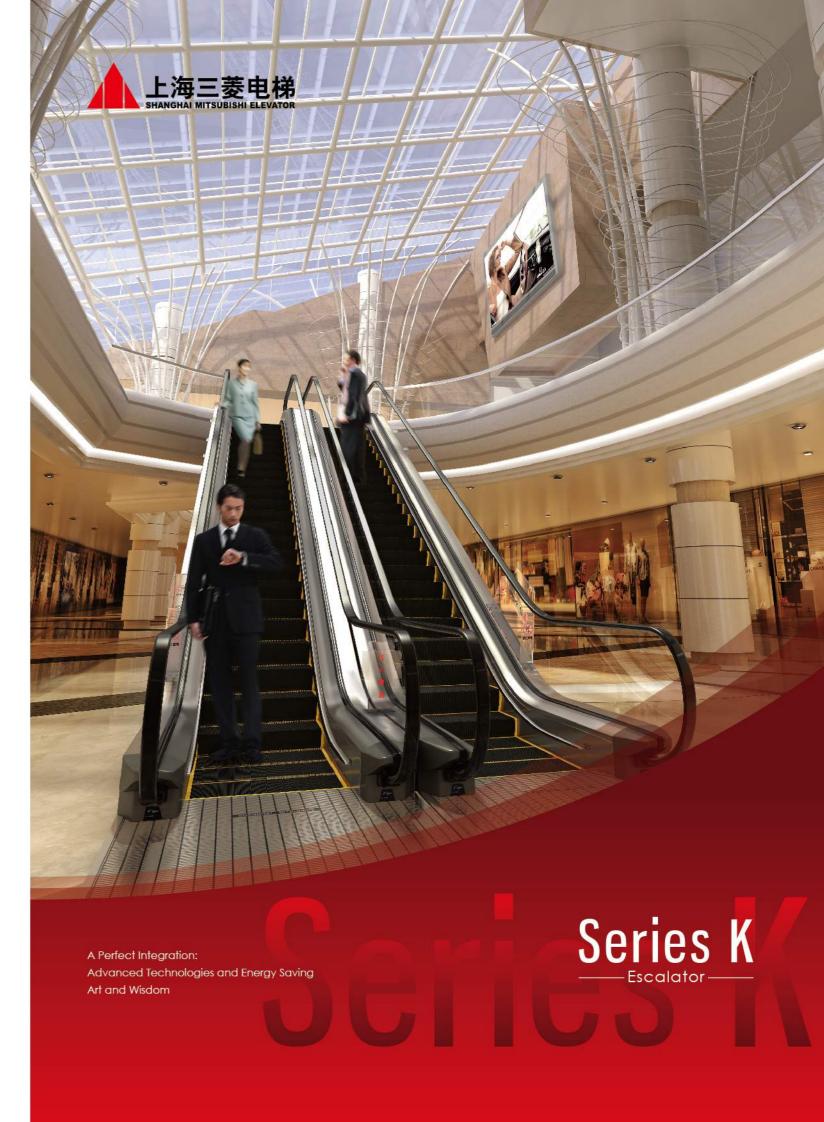
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Specifications subject to change without notice
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# Series K | Escalator

## **Excellent Quality Supported by Technological Advantages**

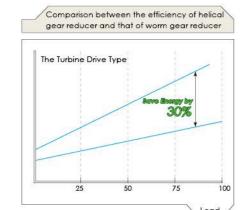
Shanghai Mitsubishi Elevator Co. Ltd. is privileged with world-class manufacturing equipments and highly-competent staff, and we have the world's leading manufacturing system and rich experience of practices. Our humanistic products are based on long-term leading technological strength and the accurate understanding of enjoyment. Shanghai Mitsubishi Elevator Co. Ltd. is glad to present the Series K escalator, which is stable, efficient, and energy saving, and provides users a safer and more comfortable experience. The Series K are applicable to a wide range of conditions, include but not limited to shopping malls, office buildings, hotels, and other business areas.



	Energy Efficient, Space Saving P.3  The Frequency Conversion Technology – a Mitsubishi Heritage P.6
Individ	Security System - Humanistic and Reliable P.8  Exquisite Processing, Excellent Quality P.10  In and Style – Inspiration of Technologies from Life P.11  Insulized Decoration – Your Unique Decoration Solution P.14  Ollumination P.18
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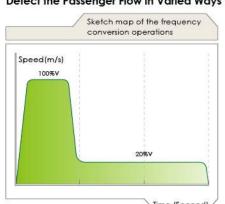


## Helical Gear Reducer



The high-precision helical reducer is more efficient than traditional turbine worm reducer, and ensures outstanding energy efficiency.

## Frequency Conversion -Detect the Passenger Flow in Varied Ways



The integrated frequency conversion approach detects the passenger flow in varied ways and forms a detection area, so as to support the escalator to operate or stand by as necessary, and save energy from avoiding idling.

## High-precision Helical Gear

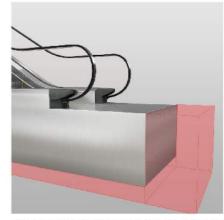


The helical gear is more efficient in transmission while occupies less space and causes no pollution. It has a big transitional torque, and starts smoothly, thus it could be applied to high-speed heavy load when closely attached to the center distance.



The device is installed in the inner side of the stand post in the upper and lower inlets and outlets, and forms a horizontal area of induction detection, which could adjust the speed of the escalator according to the amount of passengers loaded and save energy.

## Refined Design, and Space Saving



The staircase system is reasonably designed with a short length of span, which helps to reduce the civil work sizes by large and

## **Built-in Passenger Detection Device**



The device is built into the inner side and the front of the newel at the upper and lower inlets and outlets, and forms a large area of induction detection, which could adjust the speed of the escalator according to the amount of passengers loaded and save energy.





we compare steel angels with rectangular

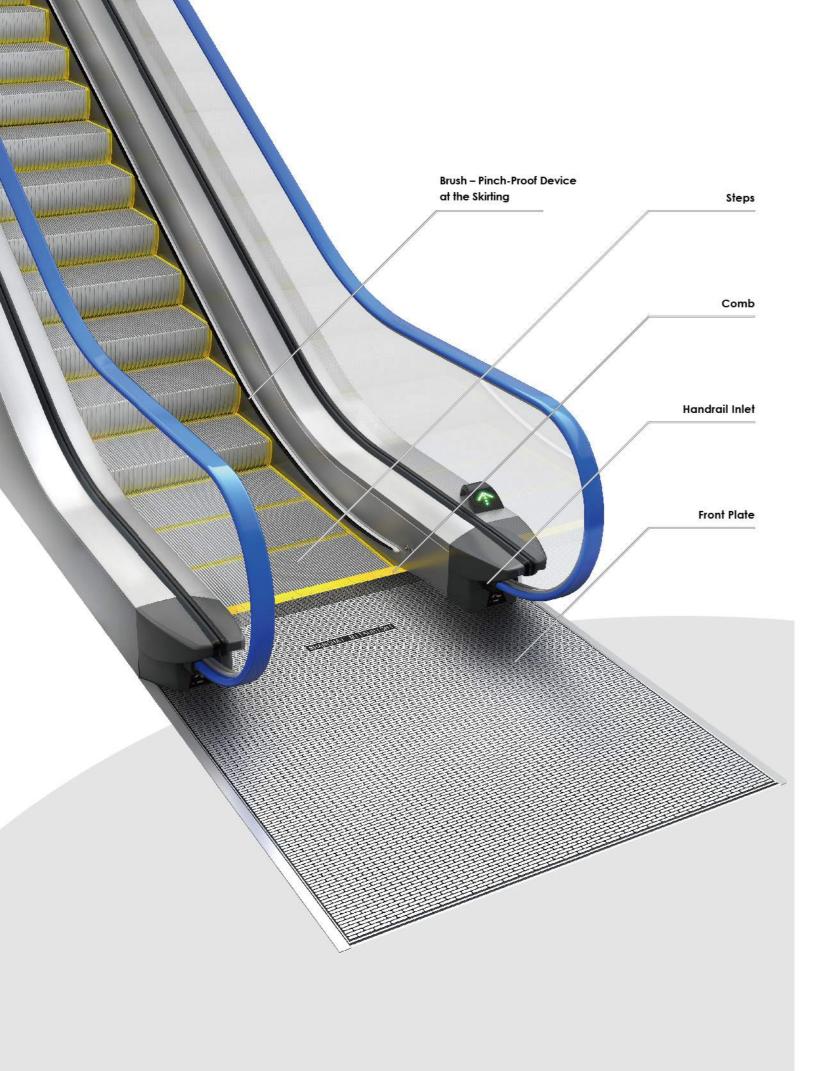
steel pipes in terms of the same section, the deflection of steel angles are smaller than that of rectangular steel pipes, and thus the steel

angles are less likely to deform.

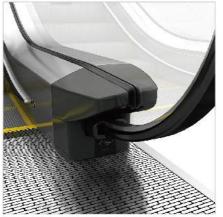
to avoid movement of the staircase, ensure seamless linkage between the guide rail and the reversion at the turning section, and reduce the vibration of steps in operations.

## **Automatic Oiler and Oil Level Warning**

The automatic fuel feeding device is a standard component of the escalator, and it could help to reduce the labor of manual maintenance needed and keep the escalator in good condition. The oil level warning system is also a standard component. It could avoid any operation of the escalator without oil, and protect the life span of the step chain transmission.



## Handrail Inlet



As a Mitsubishi tradition, the handrail inlet is designed to be hidden, which reduces the risk of pinch by margin. Long and soft protection covers are applied to the handrail inlet, which embodies our strategy of multiple layers of protection.

## Brush – Pinch-Proof Device at the Skirting



to the edge of steps or pinch their feet by accidentally placing their feet between the steps and the skirting panels.

The Series K escalator is equipped with several safety devices. Beside all the safety devices required by the GB16899-2011 codes, other safety devices can also be installed as per customer requirements.

# **Security System -**Humanistic and Reliable

## Anti-creeping Device (Optional)



If there is a risk of passengers falling from the escalator, anti-creeping device could be installed onto the external

## **Entry Prevention Device**



the entry prevention device. (To be installed by the customers.)

## Anti-skid Device



If there is the risk of falling of personnel or objects, please use the anti-skid device. (To be installed by the customers.)

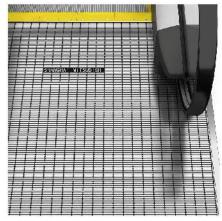


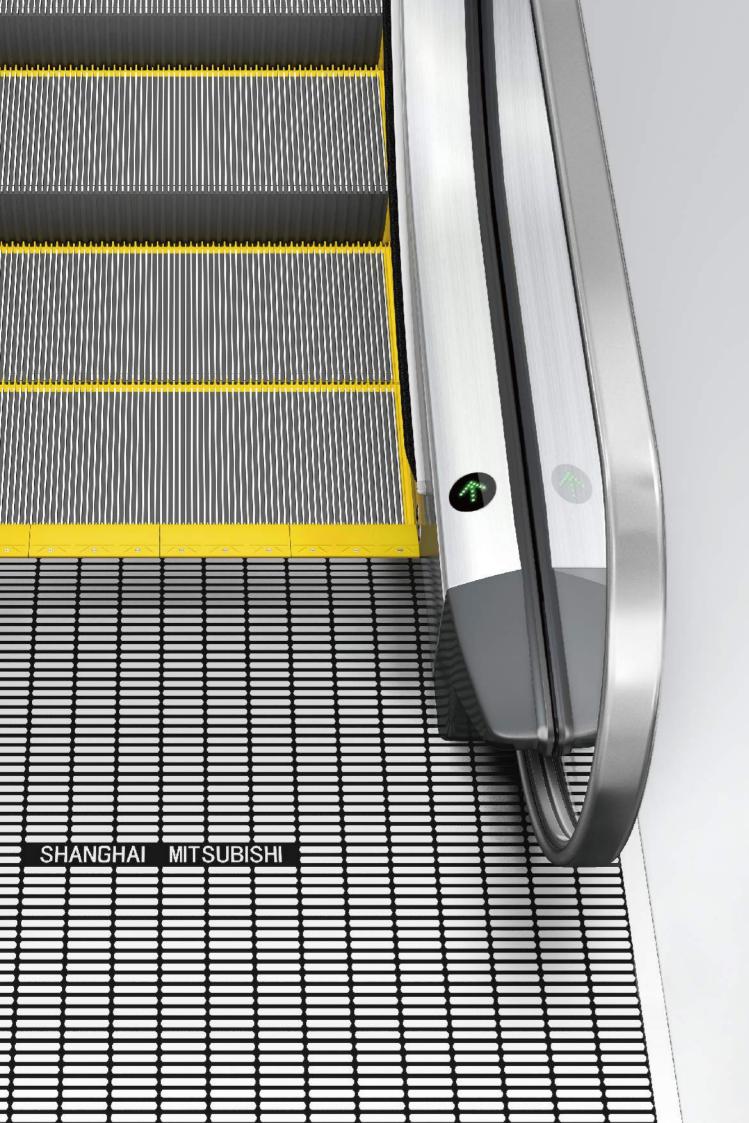
Angled design allows buffer between the decoration panels and the steps, so as to avoid pinching of passengers' fingers, feet, or other foreign objects between moving steps and the floor lab.



Stainless steel steps with anti-skid grooves could be marked with bright yellow boundary lines, to remind customers of

## Front Plate







# The Frequency Conversion Technology – a Mitsubishi Heritage

## **Special Frequency Converter**

The Mitsubishi-developed special frequency converter is designed in a modular manner. It is small, and convenient to repair and replace. With the advanced technologies of power phase tracking and "quasi-zero phase difference" switching, the escalator could be switched smoothly from variable frequency to power frequency.

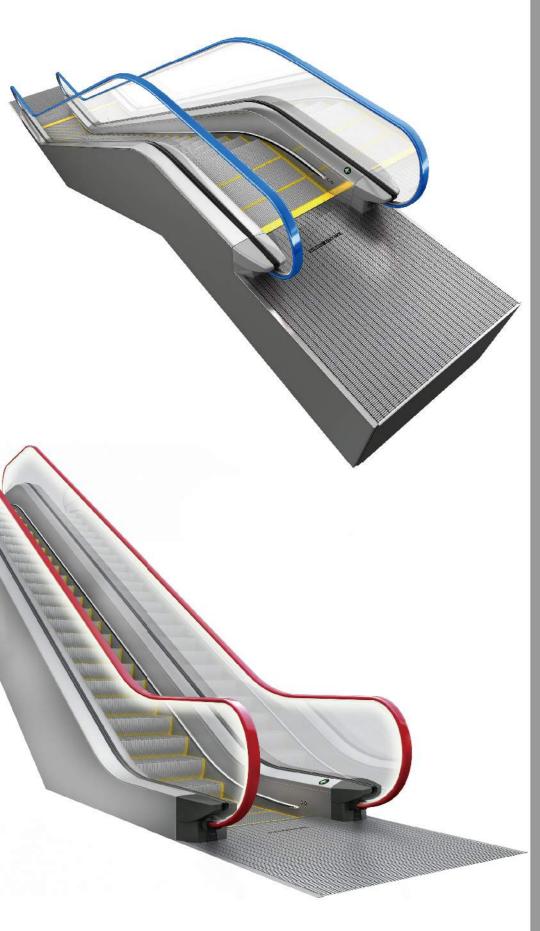
## **Bypass Frequency Conversion**

When the escalator operates with the nominal speed, cut out the frequency converter automatically and shift to the power grid which could increase the lifespan of the converter significantly. In case of any unrecoverable error with the converter, switch to the power frequency grid manually, and the operations of the escalator will not be blocked. In case of no load, the  $escalator\,will\,\,automatically\,\,switch\,\,to\,\,low\,\,velocity\,\,standby\,\,or\,stop\,\,standby.\,\,Regenerative\,\,power\,\,from\,\,$ descending would be fed into the grid, which is energy saving and environment friendly.

## **Functional Safety Device**

Dual-channel redundancy inspection ensures that the safety devices are reliable and effective, with a failure rate lower than one in a million. With all-rounded power monitoring and protection measures, any over-voltage or under-voltage error would lead the system into the safety model.

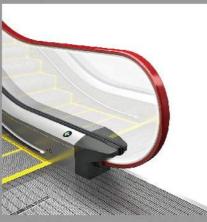




## Type of the Balustrade KS-SB / KS-SBF



## Type of the Balustrade KS-LB / KS-LBF



The Series-K escalators are simple and smooth in appearance, with first class quality. There are multiple styles to suit with different decorations. There are also different designs of the handrail inlet, which are both stylish and safe.

There are options of fashionable colors for EHC PU handrails and glass, textures for skirt panels and internal and external cover plates, and decoration patterns for the front plate, so as to suit with different environments.

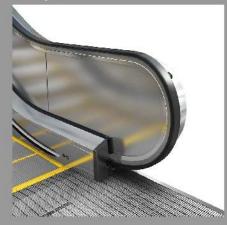
Stainless steel steps and aluminium alloy steps are available, while there are different colors and patterns with or without yellow boundary strips for various situations.

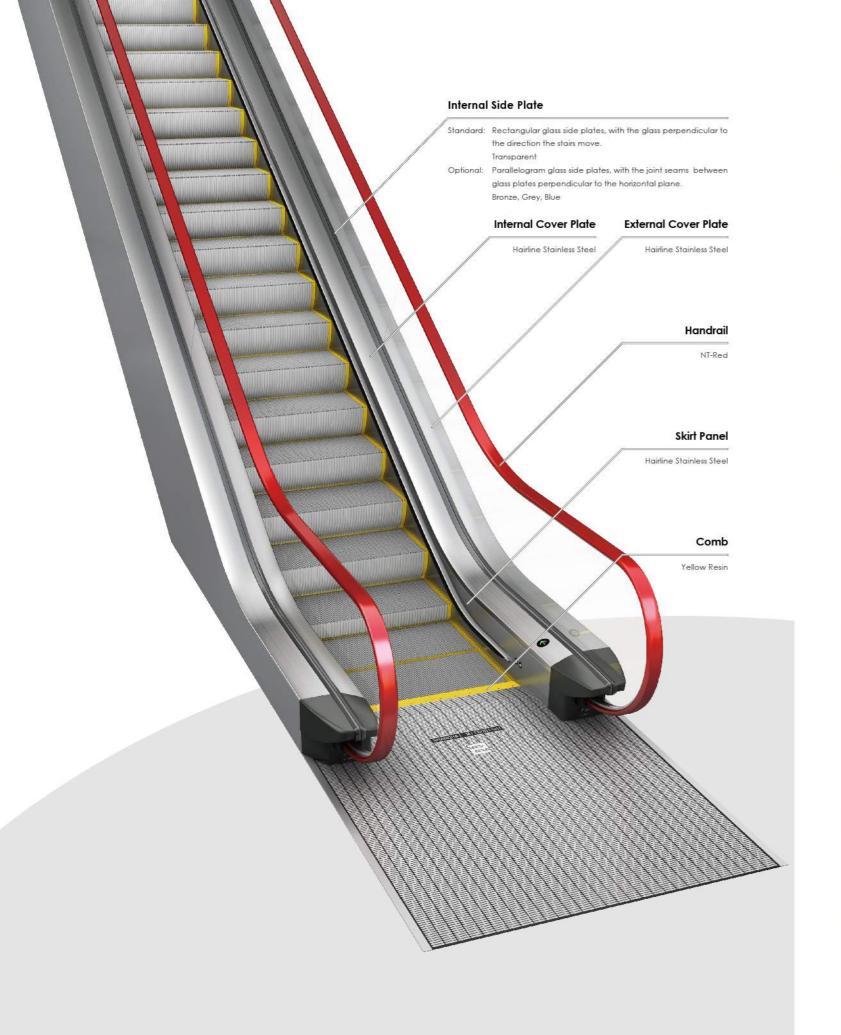
Different LED illumination solutions are also prepared to satisfy customer needs, including illumination below steps, below handrails, and at the skirting.

# Fashion and Style – Inspiration of Technologies from Life

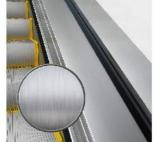


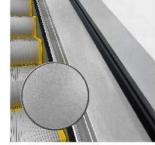
## Form of the Balustrade KP-B / KP-BF





## Internal and External Cover Plates







More options for individualized and even more valuable escalators.

# Individualized Decoration –

Your Unique Decoration Solution

## Handrail













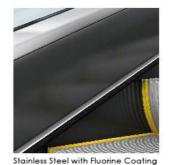






## Skirt Panel

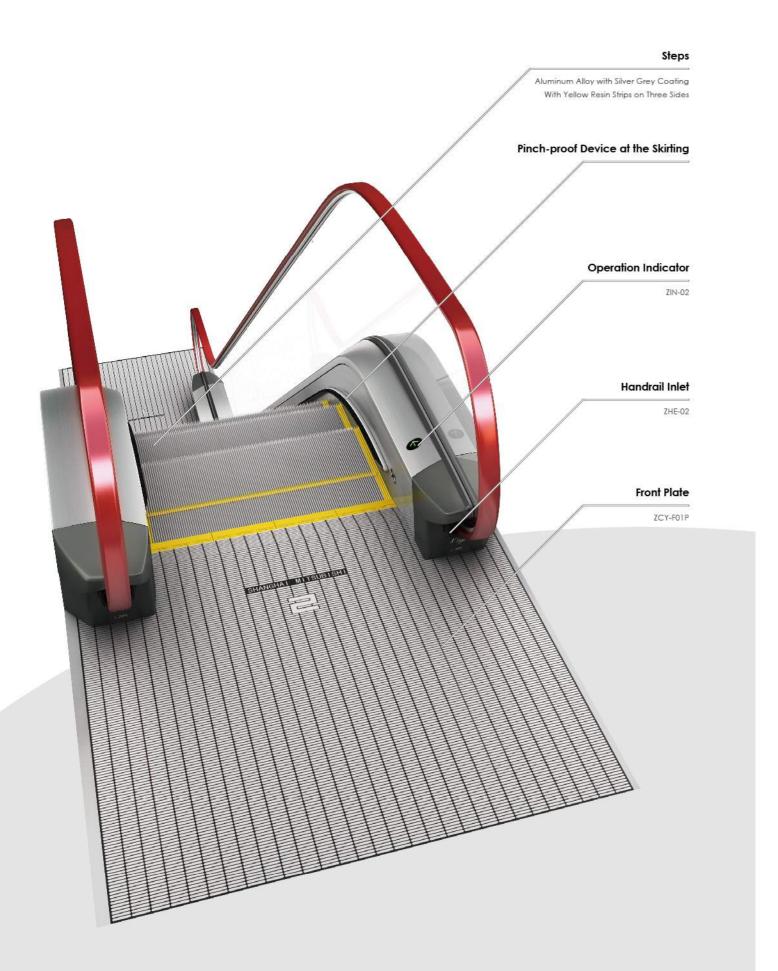






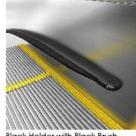


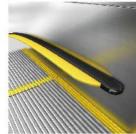
<sup>\*</sup> The specifications selected may cause delay of the lead time. Please contact the Shanghai Mitsubishi Elevator Co. Ltd. to confirm



## Pinch-proof Device at the Skirting



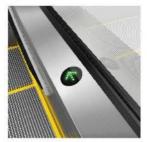




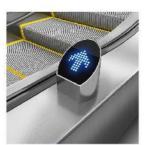
Black Holder with Black Brush

Black Holder with Yellow Cohesive Tape

## Operation Indicator





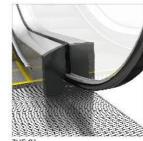




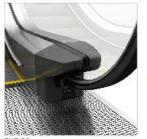
ZIN-03

Operations indicator at the handrail newel balustrade (Only for KP-B/KP-BF)

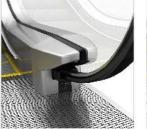
## Handrail Inlet







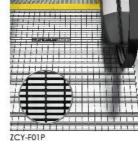
ZHE-02 (Only for KS-SB/KS-SBF and KS-LB/KS-LBF) (Only for indoor)



ZHE-02A Silver Grey Aluminum Alloy (Color No.: ZY-028) (Only for KS-SB/KS-SBF and KS-LB/KS-LBF)

ZHE-02A (Only for KS-SB/KS-SBF and KS-LB/KS-LBF)

## Front Plate



Stainless steel with anti-skid grooves and black coating inside. (color No. ZDY-027)



Stainless steel with anti-skid grooves and black coating inside. (color No. ZDY-027)



Stainless steel with anti-skid grooves and black coating inside. (color No. ZDY-027)



Stainless steel with anti-skid grooves and black coating inside (color No. ZDY-027)

## Steps



Stainless Steel Steps black coating (Color No. ZDFY-027)



All-rounded Aluminum Alloy Steps No yellow resin strip, black grey coating (Color No. ZDFY-029)



All-rounded Aluminum Alloy Steps No yellow resin strip, silver grey coating (Color No. ZDFY-028)



Aluminum Alloy Steps With yellow resin strips on three sides, black grey coating (Color No. ZDFY-029)



With yellow resin strips on three sides, silver grey coating (Color No. ZDFY-028)

<sup>\*</sup> The specifications selected may cause delay of the lead time. Please contact the Shanghai Mitsubishi Elevator Co. Ltd. to confirm.



The Series K escalator uses LED illumination to all systems, including handrail, skirting, comb, and below steps. The all-LED solution improves the environmental conditions, saves energy, and is safe and reliable. The light below stairs is green, and colors can be selected for all other illumination systems.

## **All-LED Illumination**

## **Handrail Illumination**



Only for KS-LB/KS-LBF, and colors can be selected

## **Skirting Illumination**



Successive type, and colors can be selected

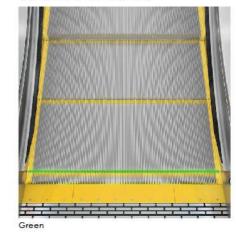


Dot type, white

## Comb Illumination



## **Below Steps Illumination**



## Illumination Colors



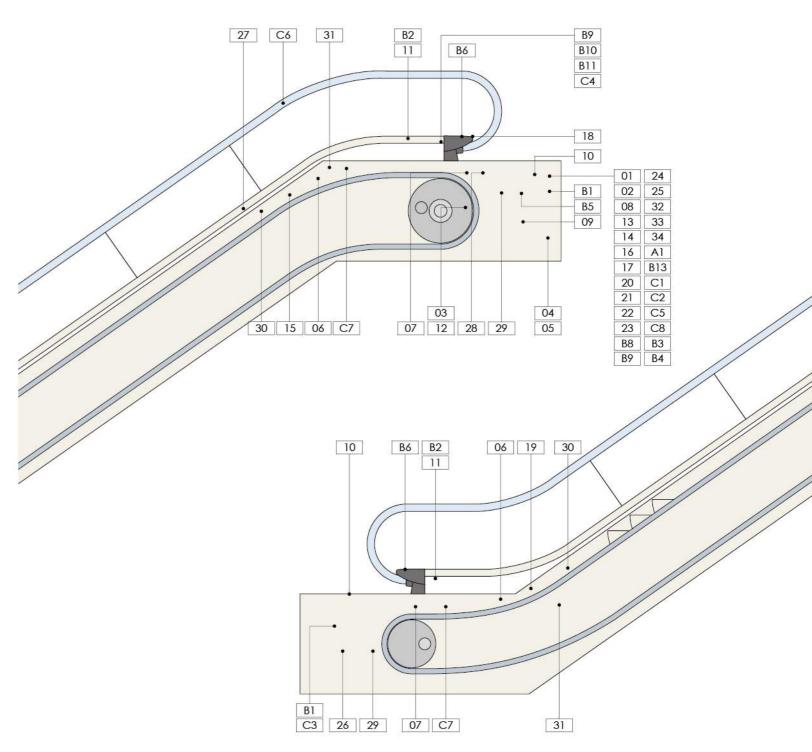
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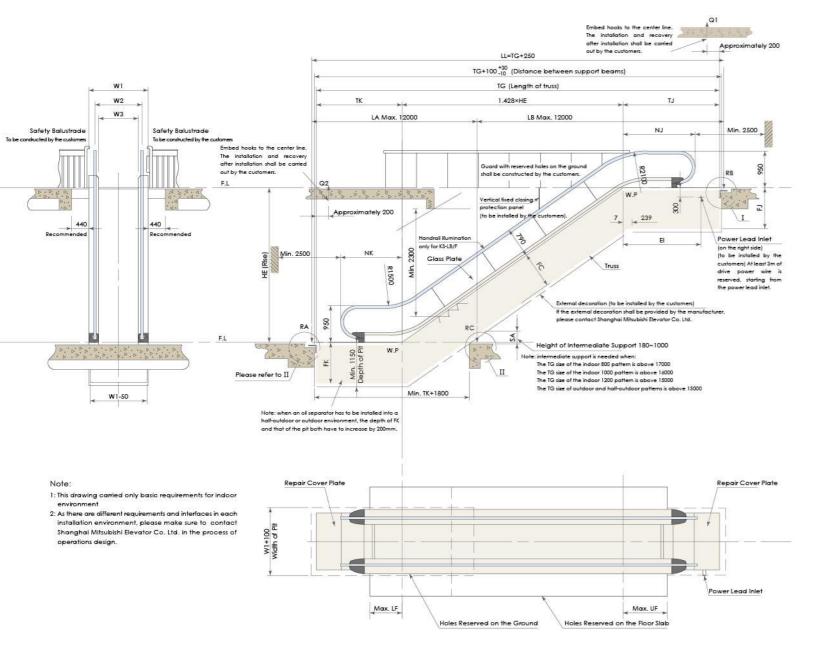
**Features** 

	Feature	Description	Code	Non-frequency Conversion	Frequ
					- Automobile
Contract of the Contract of th	Control and Security Features		20000		
1 P	hase Dislocation/ Phase Loss Protection	In case of phase dislocation or phase loss of the input power supply, cut the main circuit and control the circuit to stop the escalator.	3E	(3)	(3
<u> </u>		In case of accidental reversion of the escalator, the device will cut down the power supply to the main drive motor and the brake.	ARP	(3)	(3
3		When the escalator reaches 1.4 times of the rated speed or is not operating in the required direction, the auxiliary brake stops the escalator.	AUX-BK *1	(3)	(3
3	Auxiliary Brake	When the escalator reaches 1.4 times of the rated speed or is not operating in the required director, the auxiliary brake stops the escalator.	AUX-BK *2	0	(
4	Detection of Service Brake Actions	Stop the escalator when the service brake cannot release or brake normally.	BLR	(3)	(3
5	Service Brake	The service brake takes action to stop the escalator, and keep it stopped.	BRK	(3)	(3
6	Bended Guide rail Safety Device	When any object gets pinched between the pallets of two steps and causes abnormality of the operation, stop the escalator.	CRS	(3)	G
7	Comb Plate Safety Device	When any foreign object falls between the pallets and the comb plate, stop the escalator.	CSS	(3)	Q
8	Detection of Contactor Action	In case of any abnormality with the contactor, stop the escalator.	CTD	(3)	(3
9	Drive Chain Safety Device	When the drive chain breaks or extends abnormally, stop the escalator.	DCS	(3)	0
0	Cover Plate Safety Device	When the maintenance cover plate is taken out, stop the escalator or prevent it from starting.	DOS	(3)	0
1.1:	Emergency Stop Button	In emergency, use this device to stop the escalator.	E-STOP	(3)	(
12	Detection of Auxiliary Brake Actions	When the auxiliary brake is not in place, prevent the escalator from starting. (When the rise is above 6m)	EBR *3	(3)	0
13	Electric Safety Circuit Protection	When there is any action in the electric safety devices connected in serial, stop the escalator.	ESC	(\$)	0
14	Detection of Braking Distance	When the brake distance gets longer than 1.2 times the defined maximum, prevent the escalator from starting.	ESD	(\$)	0
5	Handrail Anti-static Device	The device prevents static from occurring on the handrail.	HER	(3)	(
6	Over-speed	Stop the escalator before the operational velocity grows above 1.2 times the nominal velocity.	HGD1	(\$)	0
7	Over-speed Limitation Device	Stop the escalator before the operational velocity grows above 1.4 times the nominal velocity. (when the rise is above 6m)	HGD2 *3	(3)	0
8		When any foreign object gets pinched into the handrail inlet, stop the escalator.	HGS	(S)	(
9		When the velocity of the handrail is below the rated value, and the condition lasts for a period of time, stop the escalator.	HSS	(3)	(
20		When the voltage of the frequency converter is too low, stop the escalator.	LVP		(
21		When the electric current of the frequency converter is too strong, stop the escalator.	OCP		(
21		WAS COMES TO A VICTOR OF THE CONTROL	OCP	(\$)	
800		When the motor is overloaded, stop the escalator.	(2,190.00)	(3)	0
23	Over-voltage Protection	When the voltage of the frequency converter is too high, stop the escalator.	OVP	-	(
24	Detection of Power Phase	Automatically inspect the power phase and frequency, and switch to bypass frequency converter in a shock-free manner. Realize self-adaptation control of power factors with the full frequency converter.	PLL	-	(
25 En	ror of the Passenger Detection Device	Self-diagnosis of error with the passenger detection device. In case of any error, cancel the standby model.	PSD		(
26		When the step chains break or extend abnormally, stop the escalator.	scs	(\$)	(
27		Device with a rigid base installed on the skirting panels, to prevent foreign objects or feet from falling between the skirting panels and the steps.	SDS	(3)	(
28		The device prevents static from occurring on the steps.	SER	(3)	(
29		When there is any step missing, the device takes action to stop the escalator.	SMS	(3)	(
30		Solved approximate provided and solved approximate app	SRS	(S)	
200		If any part of a step sinks and the step cannot mesh with the comb plate, stop the escalator.	100000	7757	(
31		When any foreign object falls between steps and skirting panels, stop the escalator.	222	0	(
		In case of cohesion of the starting switch, prevent the escalator from starting.	SWD	(\$)	(
5000		When the frequency converter is overheated, stop the escalator.	THMF	_	(
34		When the velocity of the escalator is below the rated velocity, stop the escalator.	USP	(3)	(
35		When too much water is accumulated in the lower truss, stop the escalator.	FLS *4	(3)	(
36	Oil Level Warning	When the oil level in the oil feeding device is too low, prevent the escalator from starting.	OILF	(3)	(
	■ Emergency Operations				
41	Fire Stop	When a signal of fire-fighting action is received, stop the escalator.	FSS	0	(
	Operations and Service Functions				
В1	Repair	The escalator can be set to the operation under repair model, to make the installation and commissioning convenient.	HAND	(3)	(
82	Manually Shut Down Illumination	Open or shut down illumination manually with the switch. (When auxiliary illumination below steps and/or at the handrails is equipped)	LO-M *5	(3)	(
ВЗ.	Automatic Operation	Through the usage of possenger detection devices, the escalator could operate with the nominal speed when there is any passenger, and shift to	MDA		0
		standby in case of no load.	1/20		- 2
B4		The escalator keeps at the nominal velocity.	MDC	(3)	
B5		Add lubricating oil to the chains of the escalator at predetermined time automatically.	OIL	(3)	(
86 M	Passenger Detection Device: licrowave but not the Column Pattern	Adopt microwave sensors for the passenger detection device.	PSM *6	-	(
	Passenger Detection Device:	Adopt the photoelectric column for the passenger detection device.	PSP *6	-	-
87	Column Pattern				(
B8		The escalator operates below the nominal velocity in the condition of no load.	SBLS *7	-	(
В9	Stop Standby	The escalator stops in the condition of no load.	SBSP *7	_	(
10	Direct Start-up	Supply power with direct drive with mains at both starting and operation of the escalator, and the frequency converter serves merely as a backup.	SDT *8	(3)	(
11:	Optional Directions of Operation	The direction of escalator operation could be reversed.	UDA	(3)	(
12	Bypass Frequency Converter	Supply power with frequency converter at starting, stop, and low velocity standby, and shift to direct drive with mains during operations with rated velocity.	VFBF	=	0
13	Heating Device	Monitor the escalator with temperature sensors in a real-time manner. When the temperature in the escalator is lower than the rated value,	HEAT	0	(
		prevent the escalator from starting. The device can automatically start or stop heating as per the actual temperature.	1000.00	•	
	■ Information and Display				
	Displaying Safety Device Codes	Carry out one-on-one inspection on safety devices, and display response error codes if there is any error.	ASD *9	0	(
C1	BA Interface	Use passive dry contact to output signals indicating basic status of the escalator.	BA	0	(
C1		Remind the passengers of escalator starting, error, reversion, and etc.	BUZ	(3)	(
C1 C2	Buzzer		DI *10	0	(
C1 C2 C3		Indicate the passengers the operational direction, stop, no entry, or other conditions of the escalator.		0	(
C1 C2 C3	Operational Direction Indication	Indicate the passengers the operational direction, stop, no entry, or other conditions of the escalator.  When the escalator stops for fire-protection reasons, release the signal of fire-protection stop.	FE-CP	0	
C1 C2 C3	Operational Direction Indication Reminder of Fire-protection Stop		FE-CP L-BAL *11	(3)	0
01 02 03 04 05	Operational Direction Indication Reminder of Fire-protection Stop Handrail Illumination	When the escalator stops for fire-protection reasons, release the signal of fire-protection stop.		(\$)	(
01 02 03 04	Operational Direction Indication Reminder of Fire-protection Stop Handrail Illumination Illumination Below Steps	When the escalator stops for fire-protection reasons, release the signal of fire-protection stop.  Illumination at the lower edge of the handrail.  Illumination at the inlet and outlet of the staircase, highlighting the edge of the staircase.	L-BAL *11 L-STP *12	(S) (S)	-
21 22 23 24 25 26 27	Operational Direction Indication Reminder of Fire-protection Stop Handrail Illumination Illumination Below Steps The Monitoring System	When the escalator stops for fire-protection reasons, release the signal of fire-protection stop.  Illumination at the lower edge of the handrail.	L-BAL -11	(\$)	(

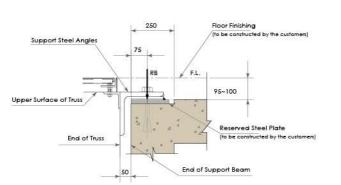
## Note:

- \*1 Standard component when the rise is above 6 meters.
- \*2 Non-standard component when the rise is 6 meters or below.
- \*3 Standard component when auxiliary brakes are equipped.
- \*4 Standard component only when the escalator is installed outdoor or half-outdoor.
- \*5 When there is illumination system on the escalator.
- \*6 PSM or PSP (PSM is the recommended option)
- \*7 SBLS or SBSP (SBSP is recommended indoor option)
- \*8 The normal start-up model for non-frequency conversion escalators, and backup for frequency conversion escalators.
- \*9 Non-standard
- \*10 Non-standard for non-frequency conversion escalators
- \*11 Only for indoor KS-LB/KS-L BF
- \*12 Indoor
- \*13 Non-frequency conversion versions: KS-SB, KS-LB, KP-B; frequency conversion versions: KS-SBF, KS-LBF, KP-BF
- \*14 ③ Standard functions, ② optional functions

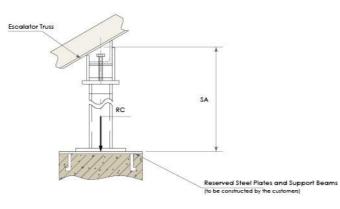




## End Support Drawing



## Intermediate Support Drawing



ltem	Standard	Optional	Note		
Length of the Upper Truss TJ (mm)	2437	2438~5137	Rise ≤ 7000mm / Angle of inclination 30° / Level 2 steps / Handrail nominal width 1000 or 1200		
	2937	2938~5137	Rise ≤ 7000mm / Angle of inclination 30° / Level 2 steps / Handrail nominal width 800		
	2842	2843~5542	Rise ≤ 7000mm / Angle of inclination 30° / Level 3 steps / Handrail nominal width 1000 or 1200		
	3342	3343~5542	Rise ≤ 7000mm / Angle of inclination 30° / Level 3 steps / Handrail nominal width 800		
	2497	2498~5197	Angle of inclination 35° / Level 2 steps / Handrail nominal width 1000 or 1200		
	2997	2998~5197	Angle of inclination 35° / Level 2 steps / Handrail nominal width 800		
	2902	2903~5602	Angle of inclination 35° / Level 3 steps / Handrail nominal width 1000 or 1200		
	3402	3403~5602	Angle of inclination 35° / Level 3 steps / Handrail nominal width 800		
	3142	3143~5542	7000mm < Rise ≤ 10000mm / angle of inclination 30° / Handrail nominal width 1200		
	2842	2843~5542	7000mm < Rise ≤ 8500mm / Angle of inclination 30° / Handrail nominal width 1000		
	3142	3143~5542	8500mm < Rise ≤ 10000mm / Angle of inclination 30° / Handrail nominal width 1000		
	3642	3643~5542	7000mm < Rise ≤ 10000mm / Angle of inclination 30° / Handrail nominal width 800		
Length of the Lower Truss TK (mm)	2180	2181~4880	Angle of inclination 30° / Level 2 steps		
	2585	2586~5285	Angle of inclination 30° / Level 3 steps		
	2215	2216~4915	Angle of inclination 35° / Level 2 steps		
	2620	2621~5320	Angle of inclination 35° / Level 3 steps		
Depth of the Upper Truss FJ (mm)	1060				
Depth of the Lower Truss FK (mm)	1060				
Depth of the Middle Truss FC (mm)	918		Angle of inclination 30°		
	938		Angle of inclination 35°		
Width of the Escalator <b>W1</b> (mm)	1550		Handrail nominal width 1200		
	1350		Handrail nominal width 1000		
	1150		Handrail nominal width 800		
Distance Between Intermediate Supports LA	(TK+250) ~12000		1 or 2 intermediate supports, angle of inclination 30°, (LA) between (TK+250) and 12000		
	(TK+370) ~12000		1 or 2 intermediate supports, angle of inclination 35°, (LA) between (TK+370) and 12000		
Distance Between Intermediate Supports LB	(TJ+240) ~12000 (TJ+110) ~12000		1 or 2 intermediate supports, angle of inclination 30°, (LB) between (TJ+240) and 12000		
			1 or 2 intermediate supports, angle of inclination 35°, (LB) between (TJ+110) and 12000		
Distance Between Intermediate Supports LC	500~	12000	2 or more intermediate supports		

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Basic Specifications Series K



## Basic Specifications

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Nominal Width Between Handrails (mm)	1200	1000	800			
Distance Between Center Lines of Handrails (mm)	1228	1028	828			
Nominal Width of Steps (mm)	1004	804	604			
Maximum Load (Person/Hour)	6000	4800	3600			
Serial No.	KS-SB/KS-SBF, KS	-LB/KS-LBF, KP-B/K	P-BF	KS-LB/KS-LBF cannot be applied to outdoor or half-outdoor environmen		
Drive System	Direct Drive			KS-SB, KS-LB, KP-B		
	VVVF Drive			KS-SBF, KS-LBF, KP-BF		
Drive Power Supply	220V50Hz single phase 30, 35					
Illumination Power Supply						
Angle of Inclination (Degree)						
Velocity (m/s)						
Escalator Rise (mm)	1400~10000			When the angle of inclination is 30°		
	1606~6000			When the angle of inclination is 35°		
Horizontal Movement Distance of Steps (mm)	800			Level 2 steps, Rise ≤ 6000mm.		
	1200			Level3 steps, Rise ≤ 6000mm.		
	1200			Level3 steps, Rise > 6000mm.		
Applicable Environment	Indoor			Please contact the Shanghai Mitsubishi Elevator Co. Ltd. to confirm the escalator could be used indoor.		
	Outdoor, half-outdoor			Please contact the Shanghai Mitsubishi Elevator Co. Ltd. to confirm the escalator could be used outdoor and/or half-outdoor.		

## Power Supply Data

## Driving Power (three phase AC 380V, 50Hz)

Driving Power Capacity (kVA)	8.0	The motor power capacity is 5.5kW, without heater.
	10.4	The motor power capacity is 7.5kW, without heater.
	13.2	The motor power capacity is 9kW, without heater.
	15.4	The motor power capacity is 11kW, without heater.
	18.0	The motor power capacity is 13kW, without heater.
	10	Heater at 30 degrees, Rise ≤ 3500mm.
	13	Heater at 30 degrees, 3500mm < Rise ≤ 5300mm.
	16	Heater at 30 degrees, 5300mm < Rise ≤ 8300mm.
	19	Heater at 30 degrees, 8300mm < Rise ≤ 1000mm.
	10	Heater at 35 degrees, Rise ≤ 4000mm.
	13	Heater at 35 degrees, 4000mm < Rise ≤ 6000mm.

## Illumination Power (single phase AC 220V, 50Hz)

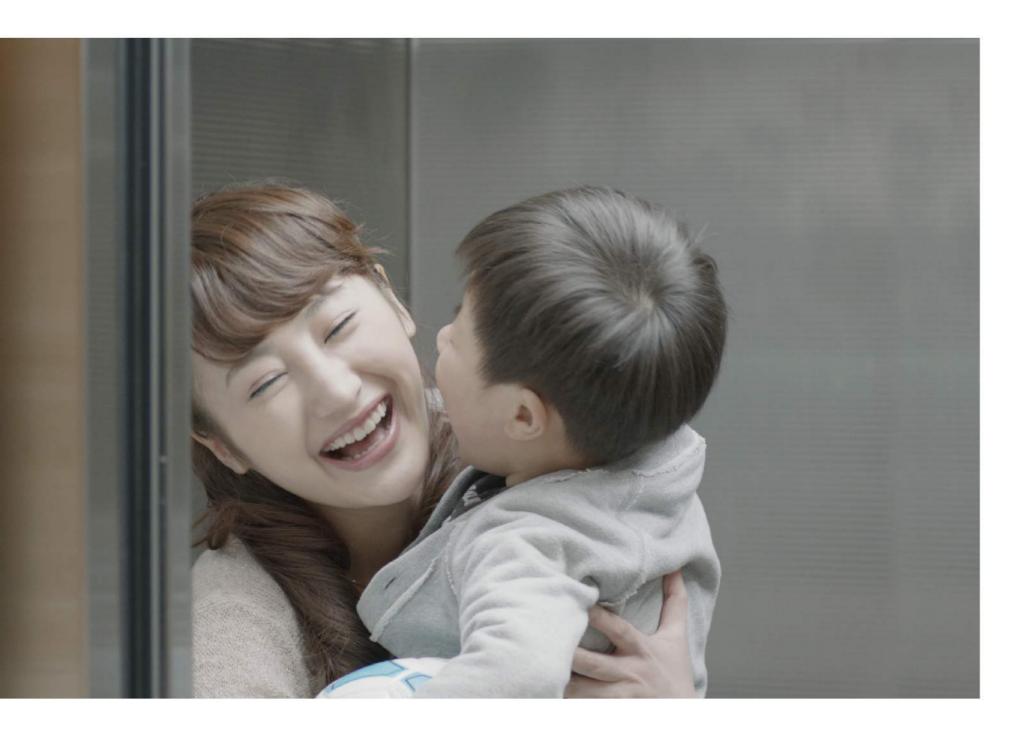
Illumination Power Capacity (kVA)	2.2	2.2	2.2	Rise ≤ 6000mm, with handrail or skirting illumination.
	2.6	2.6	2.6	6000mm < Rise ≤ 10000mm, with handrail or skirting illumination
	1973	1.3	1.3	No handrail or skirting illumination
Motor Capacity			10	
Handrail Nominal Width (mm)	1200	1000	800	
Motor Capacity (kW)	5.5	5.5	5.5	Rise ≤ 4000mm
	7.5	5.5	5.5	4000mm < Rise ≤ 5000mm
	7.5	7.5	5.5	5000mm < Rise ≤ 6000mm
	9	7.5	5.5	6000mm < Rise ≤ 7000mm

KS-SB/KS-SBF

Note: if the items do not match with the standards provided here, please contact the Shanghai Mitsubishi Elevator Co. Ltd.

Serial No. KS-LB/KS-LBF KP-B/KP-BF

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## Sense of Secure and Peace to Create Harmonious Space of Life

Technology Improves Life Science Guides the Smart Future Shanghai Mitsubishi Elevator stays beside you



