Safety Cautions

- Observance of relevant laws / regulations are required.
- Read the entire "Instruction Manual" carefully before use, for important information about safety, handling and operation.

GK-F197(1)-19.09-4000-19.09(NS)

TOSHIBA

Toshiba Elevator and Building Systems Corporation

72-34, Horikawa-cho, Saiwai-ku, Kawasaki 212-8585, Japan PHONE: +81-44-331-7057 FAX: +81-44-548-9597

• The data given in this catalog are subject to change without notice.

* Revised publication effective Sept. 2019

TOSHIBA

TOSHIBA ESCALATOR

<TE-S1 Series Escalator>

Kindmover-II

The concept of **Kindmover-II**

Kindly designed for everyone

The escalator "Kindmover-II" incorporates numerous universal design features. Based on the concepts of "Kind to passengers and Kind to maintenance", the newly designed escalator enables to be used and maintained easily for everyone.

SOLUTIONS from TOSHIBA ESCALATORS

COMPANY SOLUTIONS

Toshiba Elevator and Building Systems Corporation has built a framework which encompasses all aspects from system development to production, sales to marketing, installation, adjustment and maintenance services in order to provide clients with the highest quality products and services.

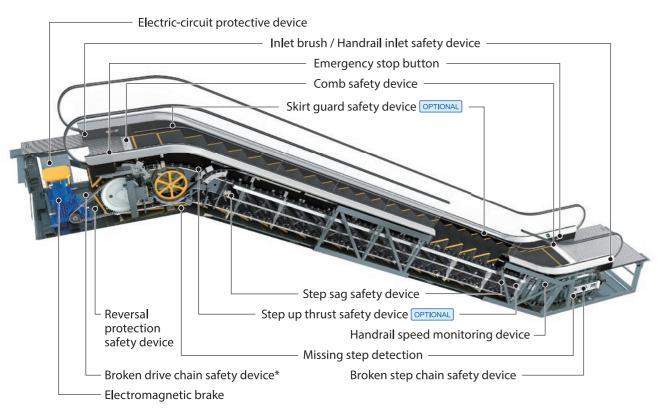
Utilizing the comprehensive technological infrastructure developed by Toshiba Group in more than 140 years since its foundation, we aim to enhance the leading edge technology and quality that we used to develop the ultra high speed elevator, harnessing Toshiba's technological innovations to their fullest extent. To meet clients' expectations and requirements for safe and pleasant elevators as well as constantly pursuing further innovation and improvement. Furthermore, we are aiming to strengthen system development, production, enhancing sales channel and sales partnership to expand in the global market.

TOSHIBA ESCALATOR nc mover-III

<TE-S1 Series Escalator>



TOSHIBA ESCALATOR safety devices



Note: Above safety devices comply with GB16899-2011 standards

TOSHIBA ORIGINAL SAFETY DEVICES



Inlet brush

By installing a brush type guard at the entrance of the handrail belt, it prevents children's hands getting trapped into.



Step up thrust safety device

At the entrance and exit area of escalator, it detects that foot is caught in the gap between steps and stops escalator.

Skirt guard safety device OPTIONAL

At the entrance and exit area of escalator, this safety device stops escalator by detecting passenger's feet getting caught in the gap between step and skirt guard.

Broken drive chain safety device*

In the unlikely event which the drive chain is disconnected, since the escalator can not be stopped with a normal electromagnetic brake, this safety device will mechanically lock the moving mechanism of the step to stop the escalator.



Information about the activation of safety device

This device will indicate which safety device has activated and stopped the operation.

SOFT FRONT EDGE STEP for all users



< Glass dropped from 0.5m height > Shock-absorbing material

We chose the optimum material considering the balance between "softness" to obtain cushioning effect and "hardness" to prevent getting caught due

to deformation.

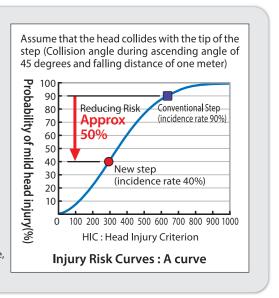
By adopting shock absorbing material at the tip of the step, the probability of mild head injury occurring compared with conventional steps is reduced by approximately 50%

Assuming the case where the head of the user collided with the tip of the step, actually measure the standard value HIC of head injury by our proprietary method. Results using injury risk curve

HIC: Head Injury Criterion is calculated from crash acceleration, it is a standard value showing the extent of head injury. It is possible to calculate by drop test of the test subject simulating the head. It is mainly used in the automobile industry

Injury Risk Curve : A curve relating HIC to the probability of injury $\,$

Note: There may be differences in collision effect due to temperature, collision angle, falling distance and aging etc.



3

^{*}If the floor height exceeds 6000mm, "Auxiliary brake" will be employed instead of "Broken drive chain safety device".

ENERGY SAVING

TOSHIBA ESCALATOR Kindmover-II <TE-\$1 Series Escalator>

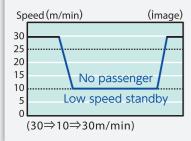
Contribute to energy and CO₂ reduction



20% Energy reduction

Low-speed standby operation OPTIONAL

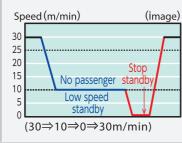
If the passenger is not using the escalator, it slows down at the speed of 10m/min, and when the sensor detects the passenger, it accelerates to the normal operating speed of 30m/min.



25% Energy reduction

Low-speed / stop standby operation OPTIONAL

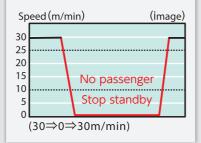
If there is no passenger, low-speed standby operation is activated and after a certain time of period, the escalator stops completely. When the sensor senses the passenger, it accelerates to normal operation speed again at the speed of 30m/min.



30% Energy reduction

Stop standby operation OPTIONAL

If the passenger is not using the escalator, it stops completely. When the sensor senses the passenger, it accelerates to the normal operating speed again at the speed of 30m/min.



Method of comparing power consumption

Comparison between escalator without inverter drive control and the escalator with the following function (standard escalator \$1000 type, 30deg, floor height of 4.5m (no lightings), driving time of 12hours per one day.)

- Low-speed standby operation
- Low-speed / stop standby operation
- Stop standby operation

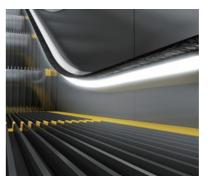
Low-speed standby: six hours

Low-speed standby: three hours Stop standby: three hours Stop standby: six hours

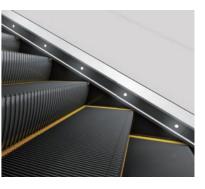
Application of LED lightings

LED lightings enables longer life span and more energy saving compared to the fluorescent lightings. Futurermore, it is environmentally friendly because there is no use of mercury.

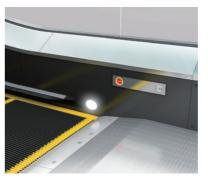
Skirt guard (line-type) lighting with LED



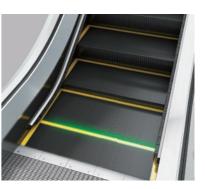
Skirt guard (circle-type) lightings with LED

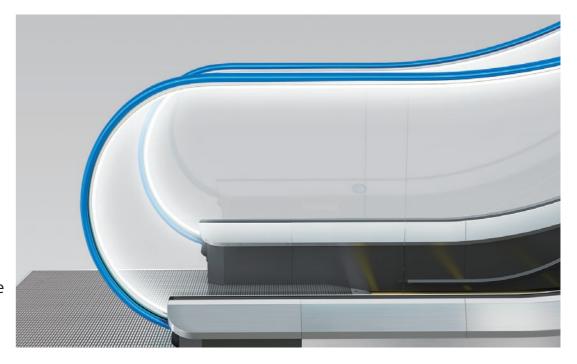


Comb lightings with LED



Step demarcation lightings with LED





Balustrade lightings with LED

5

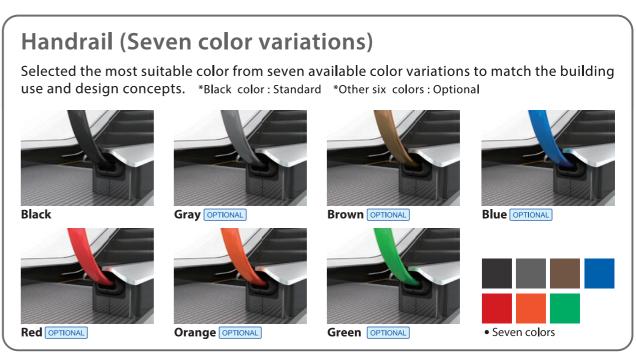
VARIATIONS



Please select your best choice







SPECIFICATIONS



Specifications

Basic Specifications

Туре		S600 / S800 / S1000
Speed		0.5m / s
Inclination		30°/ 35° *
Power supply	For Main	AC 3-phase 380V-50/60Hz, 400/415V-50Hz
	For Lighting	AC single-phase 110/220V-60Hz, 220/230/240V-50Hz

^{*}The maximum floor height for 35 deg. escalator is 6000mm

Exterior Specifications

Balustrade	Interior panel	Vertical flat tempered glass
	Deck board	Stainless steel plate with hairline finish
	Skirt guard panel	Sheet steel with fluororesin coating (black)
		Skirt deflector
	Handrail	Synthetic rubber (black)
	Front skirting	Sheet steel with fluororesin coating (black)
Step	Number of horizontal steps	2 steps*2
	Tread	Stainless steel (black)
	Riser	Stainless steel (black)
	Demarcation line	Synthetic resin molding (yellow)
Landing	Comb	Aluminum
	Landing plate	Stainless steel
62 Kale - Klassic Latin Latin Latin Latin Cooperation of Latin Latin Latin Latin Latin Latin Latin Latin Latin		

^{*2} If the floor height exceeds 6000mm, number of horizontal steps will be 3 steps.

Optional Specifications

Skirt guard panel	Stainless steel plate with hairline finish	
Comb	Synthetic resin molding (yellow)	
Interior panel	Vertical stainless steel plate with hairline finish	
	Balustrade lightings with LED	
Lighting	Skirt guard lightings with LED (line / circle)	
Lighting	Step demarcation lightings with LED	
	Comb lightings with LED	
Safety device	Skirt guard safety device	
	Step up thrust safety device	
Function	Low-speed standby operation, Low-speed / stop standby operation, Stop standby operation	

Note: Above specification charts comply with GB16899-2011 standards

Environmental issues



Energy Saving

Stop standby operation

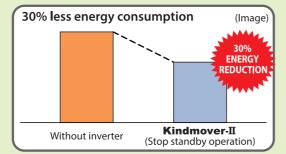
Stop standby operation is *30% less energy consumption compared to conventional model.

*Comparison between escalator without inverter drive control and the escalator with the following function (standard escalator S1000 type, 30deg, floor height of 4.5m (no lightings), driving time of 12hours per one day.) stop standby operation stop standby: six hours.

Reducing hazardous materials

Lead-free design

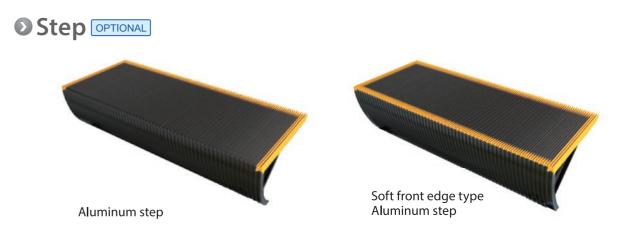
Reduction of lead use by employing lead free control board.



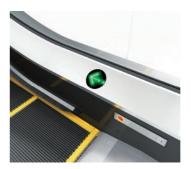
Employing LED lightings

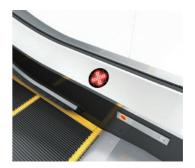
By employing LED light, various materials used for light become mercury free.

Other options



○ Escalator Operation Monitor for Passenger-Friendly Guidance ○PTIONAL





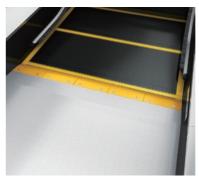




"Arrow signs" and "No entry symbols" displayed on the operation monitor indicate the escalator's operating direction to the passengers and provide passenger-friendly guidance.

Furthermore, when the safety device activates to stop escalators operation, the location of the activated safety device is shown on the operation monitor so that the maintenance staff can find the problem as quickly as possible.

Comb OPTIONAL



Synthetic resin molding (yellow)

● Landing plate **●** PTIONAL



Black painted

10