



TOSHIBA

TOSHIBA ESCALATOR
<TE Series Escalator>

Kindmover

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.

TOSHIBA

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Universal Design

Variation

“THE SOLUTIONS”

TOSHIBA ELEVATOR AND BUILDING SYSTEMS CORPORATION

Safety

Environment

Energy Saving

SOLUTIONS
FROM
TOSHIBA
ELEVATORS



COMPANY SOLUTIONS

Toshiba Elevator and Building Systems Corporation is a subsidiary of Japanese conglomerate Toshiba Corporation – a global company with history of 140 years. Utilizing the comprehensive technological infrastructure developed by Toshiba Group, we aim to further enhance the leading edge technologies and quality to respond to markets expectations and requirements for safe and comfortable escalators.

▶ TOSHIBA ESCALATOR CONCEPT of Kindmover

Kindly designed for everyone

The “Kindmover” escalator incorporates numerous universal design features based on the concepts of “Kind to passengers and Kind to maintenance-persons” for the materialization of a new escalator that is both easy to use and easy to maintain.

SOLUTIONS for Energy Saving

Energy Saving, Longer Life Span, Mercury-free

Contribute to energy and CO₂ reduction

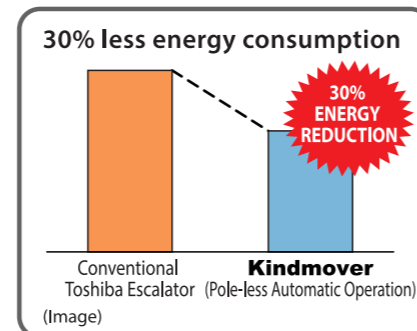
▶ Pole-less Automatic Operation OPTIONAL

When passengers are not using the escalator, it automatically changes to low speed standby mode. If sensor detects a passenger, escalator will gradually accelerate to its rated speed. *This optional operation can be installed without any truss extension.

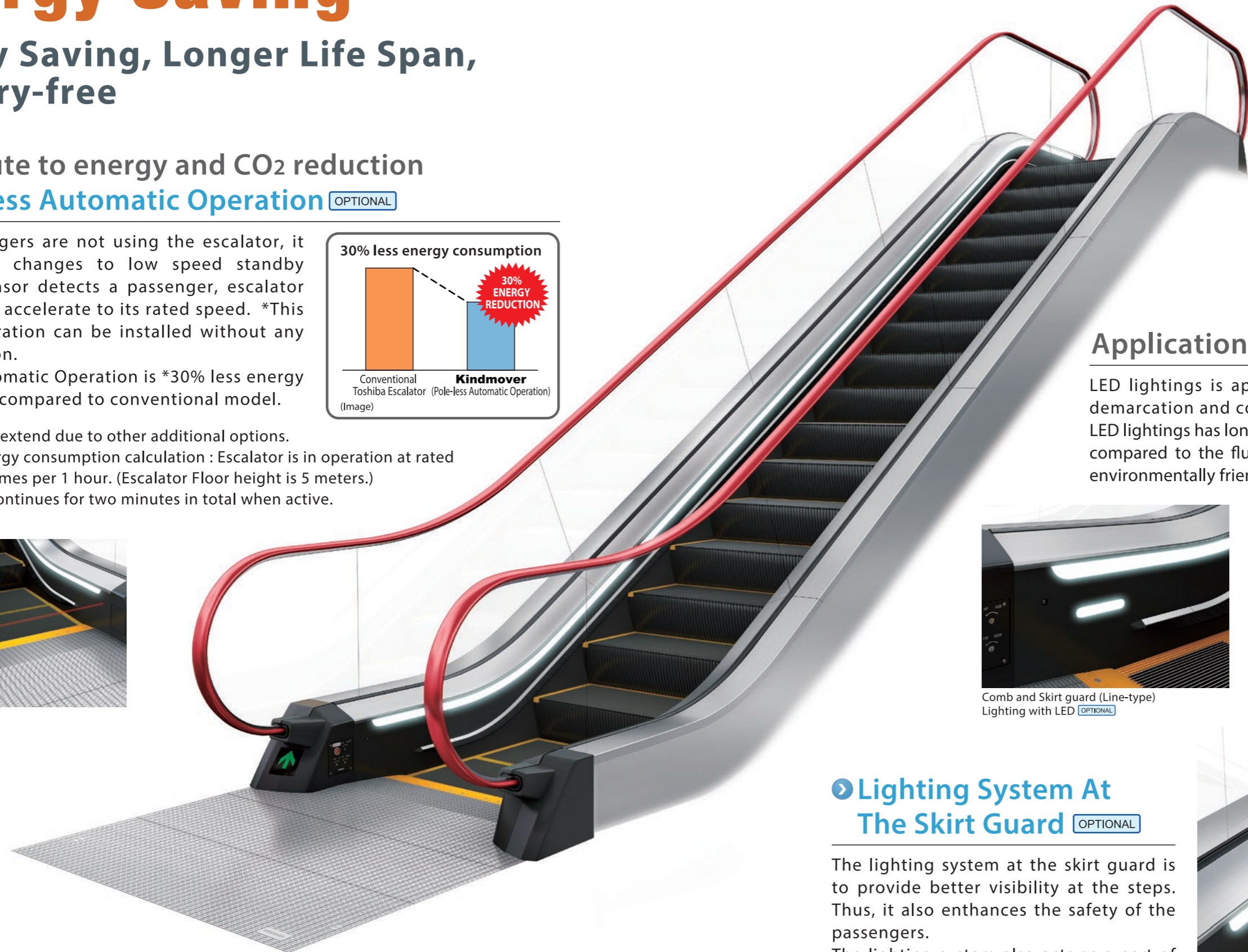
Pole-less Automatic Operation is *30% less energy consumption compared to conventional model.

*Truss size may extend due to other additional options.

*Estimated energy consumption calculation : Escalator is in operation at rated speed for 15 times per 1 hour. (Escalator Floor height is 5 meters.)
Rated speed continues for two minutes in total when active.



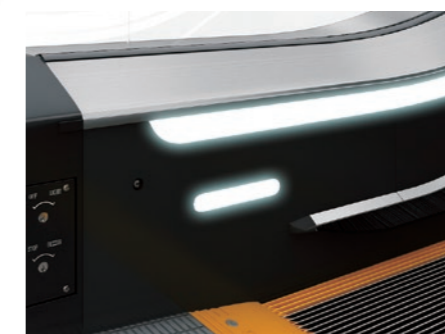
Sensor beam (image)



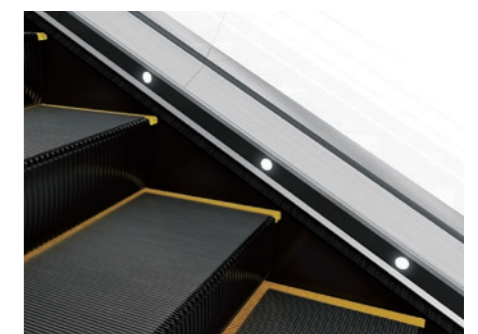
Application of LED Lightings

LED lightings is applied at the skirt guard, step demarcation and comb.

LED lightings has longer life span, more energy saving compared to the fluorescent lightings. Besides, it is environmentally friendly because it is mercury-free.



Comb and Skirt guard (Line-type) Lighting with LED OPTIONAL

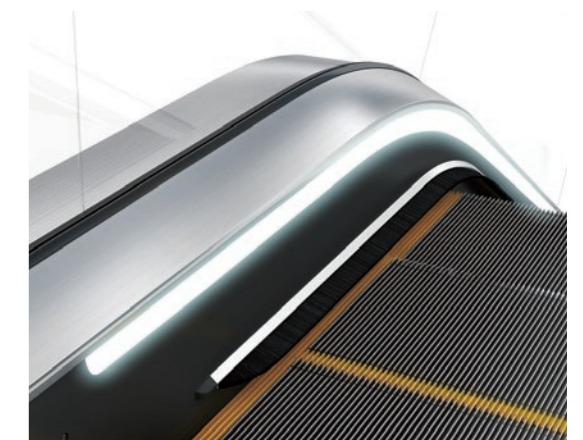


Skirt guard (Circle-type) Lightings with LED OPTIONAL

▶ Lighting System At The Skirt Guard OPTIONAL

The lighting system at the skirt guard is to provide better visibility at the steps. Thus, it also enhances the safety of the passengers.

The lighting system also acts as a part of aesthetic of the escalator.



Skirt guard (Line-type) Lighting with LED OPTIONAL

SOLUTIONS for Safety and Universal Design

The “Kindmover” Escalator Creates a New Standard for Buildings.

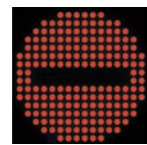
ESNAVI

Escalator Operation Monitor for Passenger-Friendly Guidance OPTIONAL

“Arrow signs” and “No entry symbols” displayed on the operation monitor indicate the escalator’s operation direction to the passengers and provide passenger-friendly guidance. Furthermore, when the activation of a safety device stops escalator 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.



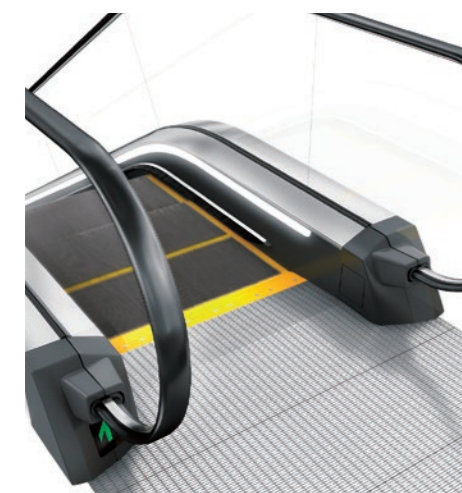
Operation direction



No entry



Information about the activation of the safety device



High Contrast Design provides High-Visibility and Safety

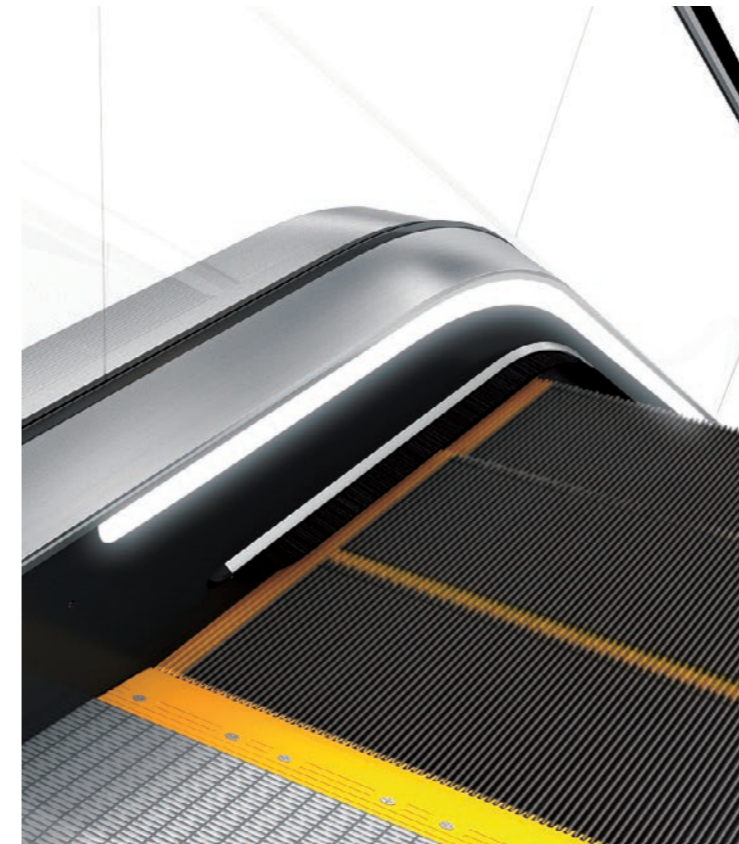
The yellow color of the combs enhances the contrast against the black color of the steps and the landing plate, making it easy for the passengers to distinguish the moving steps from the stationary landing plate.

Safety Cleat System at the Landing

At the horizontal section of the landing, two steps engage and the gap between the steps is reduced so as to prevent objects from getting caught.

Skirt Deflector

Skirt deflector can be installed to prevent passenger from being caught between the steps and skirt guard.



Smart Deck Design using no outwardly protruding screws

The advanced design uses no exposed screws for securing the section between the deck board and the skirt guard as a measure for preventing clothing from getting caught and other similar problems.

Higher Inlet Position for Greater Clearance

Designed with the inlet in a higher position than conventional escalators in order to prevent objects from getting caught in the inlet.

Easier Access to Operation Panel

The operation panel, including the emergency stop button and key switch, is located nearer to the landing plate for easy and safe operation.



Variations

<Lighting>
➤ **Balustrade with LED lightings**

OPTIONAL



<Interior Panel>
➤ **Stainless steel plate with hairline finish**

OPTIONAL



Functions

Functions

Basic Specifications

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

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	Synthetic resin molding (Black)	
Step	Number of horizontal step	2 steps
	Tread	Stainless steel (Black)
	Riser	Stainless steel (Black)
	Demarcation line	Synthetic resin molding (Yellow)
Landing	Comb	Synthetic resin molding (Yellow)
	Landing plate	Stainless steel

Optional Specifications

Skirt guard panel	Stainless steel plate with hairline finished
Comb	Aluminium
Interior panel	Vertical stainless steel plate with hairline finish
Lighting	Balustrade lightings with LED
	Skirt guard lightings with LED (Line / Circle)
	Step demarcation lightings with LED
	Comb lightings with LED
Safety device	Skirt guard safety device (Middle position)
Function	ESNAVI (Escalator operation monitor)
	Poleless automatic operation

Handrail (7 Color variations)

Select the most suitable color from among seven available color variations to match the building use and design concepts. *Black color : Standard *Other six colors : Optional



Black



Gray



Brown



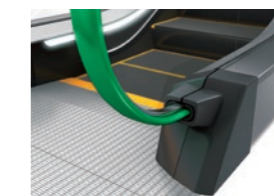
Blue



Red



Orange



Green



• 7 Colors

Global Projects

● The Ritz-Carlton Jakarta, Mega Kuningan

(Jakarta, Indonesia)



● L'Avenue

(Shanghai, China)



● Taipei 101 MALL

(Taipei, Taiwan)



● Marina Square, Reem Island

(Abu Dhabi, UAE)



Global Projects

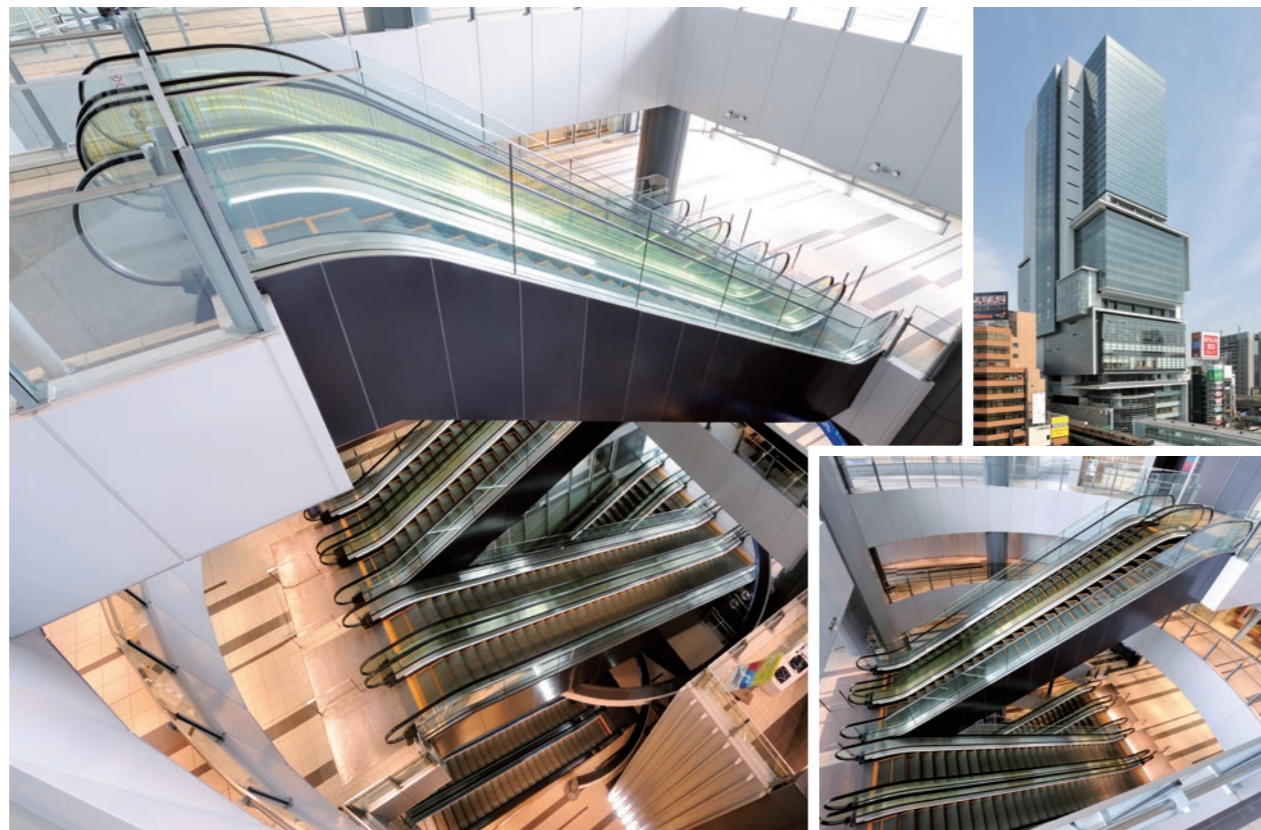
● Grand Front Osaka North Building

(Osaka, Japan)



● Shibuya Hikarie

(Tokyo, Japan)



Environmental issue

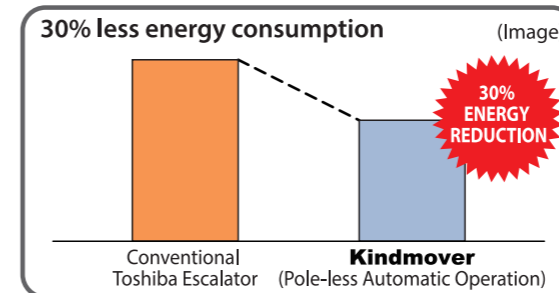
In order to propose safe and secure escalator, Kindmover focuses on environmental issue. The advance technologies for energy consumption and resource saving concept offers high concerns for environmental consciousness.

Energy Saving

Pole-less Automatic Operation

Pole-less Automatic Operation is *30% less energy consumption compared to conventional model.

*Truss size may extend due to other additional options.
*Estimated energy consumption calculation :
Escalator is in operation at rated speed for 15 times per 1 hour. (Escalator floor height is 5 meters.)
Rated speed continues for two minutes total when active.



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.

Lead-free Design of Base Plate, RoHS Compliance and Elimination of Specific Chemical Substances (15 Classifications)

Continuous concern on the RoHS compliance, eliminating 15 classifications of specific chemical substances, and using the lead-free technique for main circuit boards.

Related Works for Escalator Construction

Works not included in the Installation Contract (costs for the following work shall be burden by the customer)

1. Any structural works, such as opening floors to accommodate the escalators or the installation of necessary support beams.
2. Finishes to peripheral architecture after installation.
3. Pit waterproofing work.
4. Installation of handrails, fences or other safety features around the escalator.
5. Escalator truss exterior cladding work (Maximum load 123 N/m²); bottom illumination work. (Although not included within the scope of the standard installation contract, such customizations are possible upon request, at an additional cost.)
6. Installation of fire protection shutters, sprinklers and other building-safety features.
7. Building electrical work, such as the installation of main power cables, lighting cables, inspection power cables and grounding wires leading up to the escalator machine room.
8. Other peripheral wiring work, such as wiring to interlock escalator circuit with the fire shutter system (or other building safety systems), or wiring connections between escalator and various peripheral systems.
9. Worker locker room, materials stock yard, and other facilities necessary for the duration of the installation work.
10. Power supply, scaffolding, and other basic facilities necessary during installation and adjustment work.
11. Installation of wedge guard plates that are necessary where the escalators intersect with the ceiling, or wherever escalators intersect.
12. Any other architectural works, such as the installation of partitions or fences around landings.

Please provide us with the following information when ordering or making inquiries.

1. Name and address of your building.
2. Type of escalator to be installed.
3. The total number of floors and height of each floor where the escalators are to be installed.
4. The voltage and frequency of main power supply, along with the voltage and frequency of power supplies to be used for lighting inspection.
5. Desired color of the handrails.
6. Whether the truss requires exterior cladding work.
7. Whether bottom illumination work is necessary.
8. Whether the escalator circuit is to be interlocked with the fire protection system or other peripheral circuitry.

Global Network

- Head office / Manufacturing base
- Head office

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D TOSHIBA ELEVATOR (CHINA) CO., LTD.

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Together with our global partners, we connect with Asia and then the world, through our technology and our spirit.

This planet is our shared heritage. We must live together, grow together and delight in one another.

[For more information]

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