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FOR IMMEDIATE RELEASE **No. 3067**

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Mitsubishi Electric's S-series Escalators Offer Extra Safety & Conservation

TOKYO, November 10, 2016 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today that its new S-series of escalators, which offer enhanced passenger safety and high-level energy conservation, will launch on November 14. Annual sales of 1,000 units are targeted outside of Japan.

SAS model with glass panels

SAL model with glass panels and under-handrail lightning

SAP model with stainless-steel panels

Mitsubishi S-series Escalators

Main Advantages

1) Enhanced passenger safety

- Automatically stops when an object is caught between the comb and step
- Optional skirt brush helps prevent clothing, sandals, etc. from getting caught between step and skirt guard
- Optional step demarcation lighting under each step eases stepping on/off

2) Energy Savings

- Variable-voltage Variable-frequency (VVVF) Inverter Control (optional) optimizes motor efficiency
- When no passenger is riding, optional functions can slow or halt the escalator
- Regenerative Converter (standard with optional VVVF) enables electric power generated as escalator runs downward with a certain passenger load or more to be converted for other uses in the building
- Optional LEDs used in various lights to reduce power consumption and achieve long life

Sales Schedule

Product name	Type*	Rated speed	Price	Launch	Targeted sales
S-series Escalator	Type S1000 Type S800 Type S600	30 meters per minute	By quote	November 14	1,000 units per annum

*Passengers per step – S1000 (step width: 1,000 mm): 2 passengers; Type S800 (800 mm) and Type S600 (600 mm): 1 passenger

Background

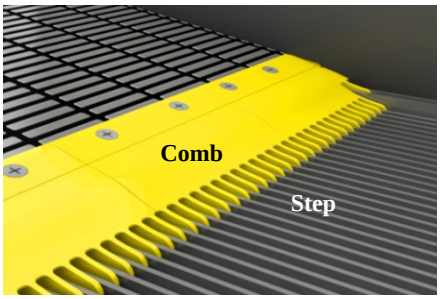
Escalators are used by passengers of all ages, from small children to the elderly, so there are always needs to enhance safety, and improved energy savings are always needed due to environmental concerns. To meet such needs, Mitsubishi Electric's new S-series escalators offer enhanced safety and energy conservation, thanks in part of a variety of useful optional functions.

Features

1. Enhanced safety functions ensure high-level safety

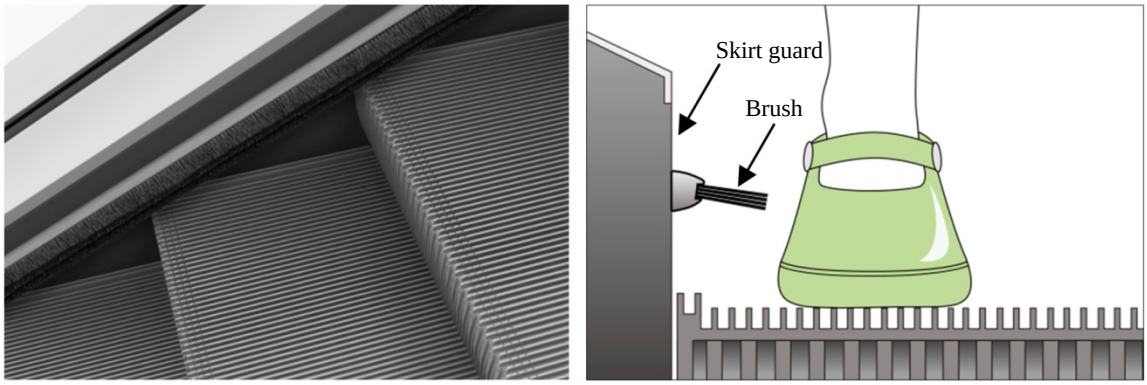
(1) Comb-step safety switch (standard)

In the event that an object is caught between the comb (boarding and landing areas) and a step, the comb is pushed up, which automatically stops the escalator.



(2) Skirt brush (optional)

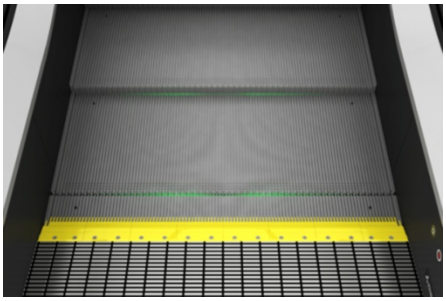
Brushes on the side skirt guards prevent passengers from standing too closely, helping to prevent clothing, sandals, etc. from being caught between the step and skirt guard.



Skirt Brush

(3) Step demarcation lightning (optional)

Lights underneath the steps clearly demarcate each step for safer footing, especially when stepping on/off.



Step demarcation lightning

2. VVVF and LED lights for energy savings

(1) VVVF (optional)

- Optimized motor efficiency

  Electric current and voltage are optimized according to motor load for improved motor efficiency, particularly for light loads.

- Automatic operation (optional)

  When sensors detect no passengers, the escalator will shift into either low-speed operation or stationary status, thereby reducing energy consumption.

  Slow operation in stand-by : Escalator runs at 12 meters per minute and power consumption is reduced by about 25%**

  Stationary stand-by : Escalator remains stationary and power consumption is reduced by about 35%**

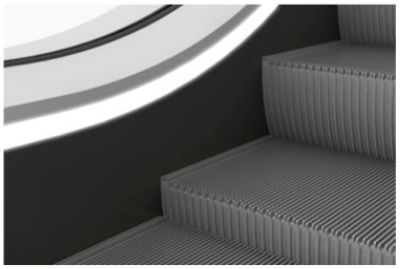
**Step width: 1,000 mm; rise: 5,000 mm; passengers: 100 per hour; stand-by duration: 20 to 30 minutes

- Regenerative Converter

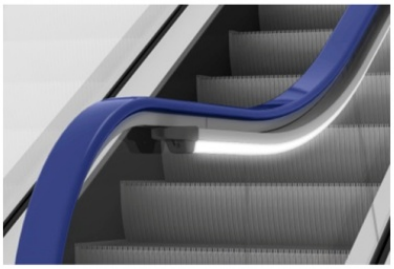
  Power generated while the escalator runs downward with a certain passenger load or more can be used for other purposes in the building.

(2) LEDs for energy savings and long service life

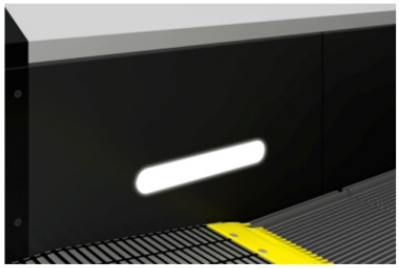
LED lights are used for the skirt guard lightning, under-handrail lightning, comb light and step demarcation lightning (all optional, except under-handrail lights provided as an SAL-model standard). Compared to fluorescent lighting, the LEDs reduce energy consumption by about 60% and last longer.



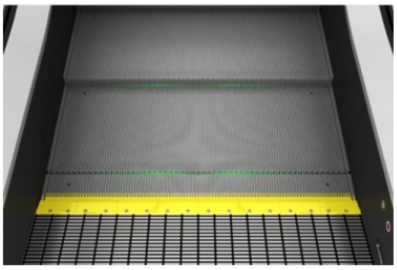
Skirt guard lighting



Under-handrail lighting



Comb light



Step demarcation lighting

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About Mitsubishi Electric Corporation

With over 90 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,394.3 billion yen (US$ 38.8 billion*) in the fiscal year ended March 31, 2016. For more information visit:
www.MitsubishiElectric.com

*At an exchange rate of 113 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2016