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Artificial Intelligence Elevators for High Safety During Earthquakes

Mitsubishi Electric carries out globally renowned prestigious projects with its high speed, comfortable and energy saving elevators

Standing out with its worldwide advanced technologies, Mitsubishi Electric develops high speed, comfortable, safe and high energy efficient elevators. Providing added value to major projects around the world, Mitsubishi Electric elevators also draw attention in Turkey with their numerous prestigious projects. Successfully installing elevators that prevent a vertically placed coin from falling down even at highest speeds in a 70 storey skyscraper in Yokohama in 1993, Mitsubishi Electric is now preparing to install the fastest elevators of the country in LCT Landmark Tower location in South Korea in 2019. The brand, increasing operation efficiency and user satisfaction, uses AI Neural Network which is a specially designed artificial intelligence monitoring system in its elevators. Risk of getting stuck between floors is eliminated with Mitsubishi Electric's auxiliary control software. With Back-Up System that is incorporated into all elevators of the brand that kicks in during situations such as earthquake and power outages, elevators are moved to the closest floor in such situations to make sure passengers are safely evacuated. Also standing out for their environment friendly approach alongside safety, Mitsubishi Electric elevators make it possible to convert heat energy back into building's power grid as usable energy. With this system, up to 35 percent energy savings can be achieved, reducing CO₂ emissions by approximately 1.400 kg every year.

Leading the elevator sector in terms of technology and making great contributions, Mitsubishi Electric stands as the first company to successfully develop VVVF inverter control technology in elevators. Successfully installing elevators that prevent a vertically placed coin from falling down even at highest speeds in a 70 storey skyscraper in Yokohama in 1993, the brand now continues to develop high-speed, comfortable, safe and high energy efficient elevators with its even more advanced technology today.



Preferred in numerous prestigious projects in Turkey such as Quasar İstanbul – Fairmont Hotel İstanbul, Rönesans Tower Ataşehir, Tema İstanbul, Bursa Hilton Hotel, Çırağan Palace By Kempinski, Vadistanbul Bulvar and Park Etapları with its elevators, Mitsubishi Electric also breaks grounds in unique projects throughout the world. Preparing to install world's fastest elevators in LCT Landmark Tower in Busan city of South Korea in 2019, Mitsubishi Electric elevators that can move up to 600 meters per minute will carry passengers from ground floor to 100th floor in 52 seconds. 383,5 meters long journey will be the longest distance for an elevator to ever cover in South Korea. Mitsubishi Electric will provide high end drive comfort, silence and safety with innovations advanced drive and control equipment, main aerodynamic cabin doors, active guide rollers and numerous safety devices developed specifically for ultra high-speed elevators in this project.

Artificial intelligence elevators

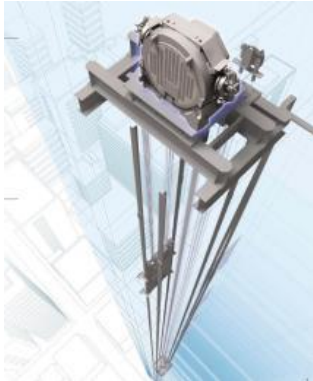
By developing AI Neural Network that increases user satisfaction by increasing operation efficiency, Mitsubishi Electric uses custom designed artificial intelligence monitoring systems in its elevators. In this system, current flow of traffic is moved to system computer memory in order to reduce waiting times to minimum, thus carrying out maintenance services problem-free and with minimum energy waste. Incorporated with Permanent magnet gearless motors, Mitsubishi Electric elevators develop smaller and less energy consuming, high energy efficient gearless driving mechanisms. This energy saving mechanism also eliminates noise and vibration even at ultra speeds, providing safe and stable comfort during travel. Mitsubishi Electric elevators are also environment friendly with its noise levels below 50 decibels and its structure that doesn't require greasing.

High safety during earthquakes and power outages

Apart from the conveniences provided by its elevators, Mitsubishi Electric is also aware that users and employees working in elevator sector should also be more aware in order to

prevent dangers in faulty occurrences. With the auxiliary monitoring software the brand incorporates into its elevators, elevators are prevented from being stock between floor during events like power outages and earthquake, while in case of a failure in control panel a Back-Up system safely evacuates passengers from the elevators. Incorporating Back-Up System as a standard features in its elevators that are highly acclaimed in Turkey as well as the world, the brand's elevators are listed among least problematic elevators with lowest failure rate. Minimizing failure rate in its elevators with advanced technology, quality production stocks, competency during installation and post-sales services, the brand's elevators have major cost advantage due to the fact that they don't require modernization for 20-25 years. Creating a difference in the sector with its auxiliary control software alongside high-level security hardware and software, Mitsubishi Electric also leads elevator sector in terms of "travel comfort, quality, silence."

Heat energy is reverted into building's power grid as usable energy



The technology that decides on the speed of the elevator according to current load, invented by Mitsubishi Electric, which is only available in the elevators of our brand, provides drastic power savings. With the regeneration feature, elevators make it possible to revert heat energy into building's power grid as usable energy. With this system, up to 35 percent energy savings can be achieved, reducing CO₂ emissions by approximately 1.400 kg every year. Mitsubishi Electric elevators,

also provides energy savings by switching to sleep mode when no call is made or traffic density is low.

About Mitsubishi Electric Corporation

With over 95 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation 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 4,444.4 billion yen (in accordance with IFRS; US\$ 41.9 billion) in the fiscal year ended March 31, 2018. For more information visit: www.MitsubishiElectric.com*

**At an exchange rate of 106 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2018.*

About Mitsubishi Electric's Activities in Turkey

Mitsubishi Electric's main fields of activity in Turkey are; air conditioning systems, factory automation systems, advanced robotics, CNC mechatronic systems, elevator and escalator systems and visual data systems.

Mitsubishi Electric, which established a room air conditioner development and manufacturing company in April 2016 in Turkey, began production in Manisa factory in December 2017. Mitsubishi Electric, the producer of Turksat 4A and 4B satellites, which contributes to the communication and publishing infrastructure of Turkey and neighboring countries, is notable for its satellites as well as the automation technology used in the Marmaray project. For more information; tr.mitsubishielectric.com

About Mitsubishi Electric's Elevator and Escalator Business

Mitsubishi Electric develops high speed, comfortable and safe elevators with high energy efficiency thanks to its high technology. The manufacturer of the sole spiral escalator in the world, Mitsubishi Electric is also a recognized world leader in vertical transportation business. The brand manufactures a wide range of products from standard models to spiral escalators. Offering high tech services in various countries globally, Mitsubishi Electric has also developed the world's fastest elevators (20.5 m per second) for 632 m high Shanghai Tower project in China.

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