

# OTIS LINK

A modern Otis Link escalator is shown from a low-angle perspective, ascending towards the top right. The handrails are illuminated with a series of small, bright lights, creating a glowing effect. The steps are also illuminated, and the overall scene is set against a solid blue background. The Otis logo is visible in the bottom right corner.

**OTIS**

# Styling

Otis is the world's largest company in the manufacture and service of elevators, escalators, moving walkways and other horizontal transportation systems. Our products are currently used in more than 200 countries and territories across the globe.

The LINK escalator, with its modern design, innovative technology and advanced processes, will further enhance and reinforce Otis' reputation as the premier provider of escalators. To develop superior escalator technology and performance, we combined careful research of our customers' needs with extensive analysis of modern escalator design.

The LINK escalator has been created to meet the demands of the world market and to suit a wide variety of customer segments and applications. This ensures total satisfaction for our customers as we have their needs in mind throughout the design and manufacturing process.



Handrail Entry Box

## Exceptional Styling

With advanced styling designs, the escalator has been developed to blend seamlessly into different building environments.

The truss is designed to incorporate high-quality cladding materials such as glass, sheet metal, mirrors, marble or other decorative panels. These can be mixed and matched as desired.

The stylish balustrade design has clear safety glass as standard, with smoked, bronze or green glass as colour options. The balustrade heights of 930mm or 1000mm at the landings and the elegantly styled newels blend easily with any architectural or interior design.

The joints of the glass balustrade can be arranged to suit individual designs. These can be placed perpendicular to the incline or vertical to the floor level.



Traffic Flow Light

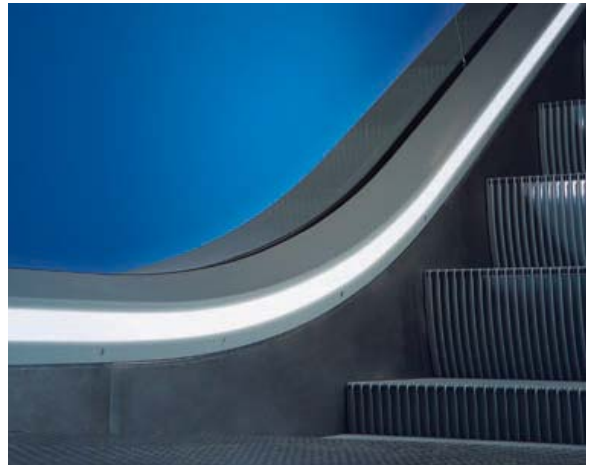
The inner and outer deckings are available in finishes ranging from powder coated silver grey, stainless steel hairline finish and natural anodised aluminium. The handrail entry box can be finished to match the decking, enhancing the stylish appearance.

Non-toxic techniques are used to finish the powder coated bases. The processes are all environmentally friendly and help to extend the escalator's lifespan and provide a high-quality finish.

Placed on the exterior decking, an aesthetically designed traffic flow light with dynamic displays is a useful aid for the riding public, especially the elderly.



Range of Handrails



Skirt Panel Lighting

A range of attractive handrail colours is available to blend with architectural schemes. The traction drive system ensures that the handrail's appearance is maintained.

LED continuous and spot type skirt lighting are available to enhance elegance and safety.

Under-handrail lighting incorporates long life LED technology that provides an original, even futuristic, lighting arrangement.

Under step lighting at embarkation and disembarkation locations enhances decor and illuminates step joints.

Floor plates to match the step and decking finishes are available in stainless steel and in aluminium (black powder coated, surface finished). All the above-mentioned finishes and colours allow you to coordinate and match the various parts of the escalator according to your own specifications.



Under Handrail Lighting



Step Finishes



Floor Plate

# Performance

## Optimum Performance

The LINK escalator has been engineered to meet high performance standards. There is a wide range of escalator performance output levels to match the needs of various customer applications.

As a result of considerable investment, Otis' unique manufacturing process ensures ever-increasing levels of reliability for all our escalators. All components are designed and tested to ensure reliable performance for extended periods of time.

The efficient, quiet gearboxes reduce lubrication needs to an absolute minimum. They are designed to optimise energy consumption.

The location of the escalator machine in the upper landing is easily accessible for maintenance, reducing inspection downtime.

A heavier duty step-chain enables the LINK escalator to meet higher-rise applications.

Unique multi-function operation panels at the upper and lower landings provide key access and visual indication of running status, recent history and, if necessary, fault diagnosis.



Operation Panel



Step Chain

## Energy Saving

The LINK escalator is fitted with highly efficient gear systems and machines that are designed to reduce energy consumption, and operational running costs.

The Variable Frequency Control System adjusts the escalator's speed and output according to detected traffic flows. In stand-by mode, the system will reduce the speed of the escalator not in regular use. With heavier traffic flow, the escalator will gradually increase speed from low to normal. This gradual change in speed ensures passenger safety, conserves energy and significantly reduces running cost.

The Piezo Contact Mat placed at the start of the escalator senses traffic flow changes and makes the required speed adjustments.

## Ride Comfort

The LINK escalator allows passengers to experience high comfort levels and smooth journeys when riding on the escalator. Comfort and reliability are inextricably linked to the quality of components and the expertise of their assembly.

The LINK escalator is available in a range of highly efficient machines to suit a variety of rises and traffic patterns.

Step and handrail movement is smooth and fully synchronised, ensuring passenger comfort and safety. Newel rollers enable the handrail to run smoothly and quietly. Balustrades can be either 930mm or 1000mm high at landings.

Special noise and vibration packages can also be incorporated into the LINK escalator. The Anti-Vibration Pads can be fitted at upper and lower landings to reduce vibration and improve ride quality. Sliding teflon support placed on steel blocks at the lower landings can be inserted to compensate for any building movement.

The LINK escalators are built on assembly-line principles. Extensive tooling and precision jigs ensure accurate alignment and fit, establishing the basis for a smooth and comfortable ride.

Before an escalator is shipped from the factory to a customer location, it undergoes a series of tests unique to Otis. These tests, known as FATS (Final Assembly and Tests), measuring escalator noise and vibration levels, guarantee a high standard of performance.



Final Assembly and Tests being conducted (FATS)

# Applications

Otis has a long history and pedigree in the escalator business and has installed equipment in a variety of locations and places around the world. All this knowledge is brought to bear when dealing with a multiplicity of challenges covering size, style, rise and configuration.



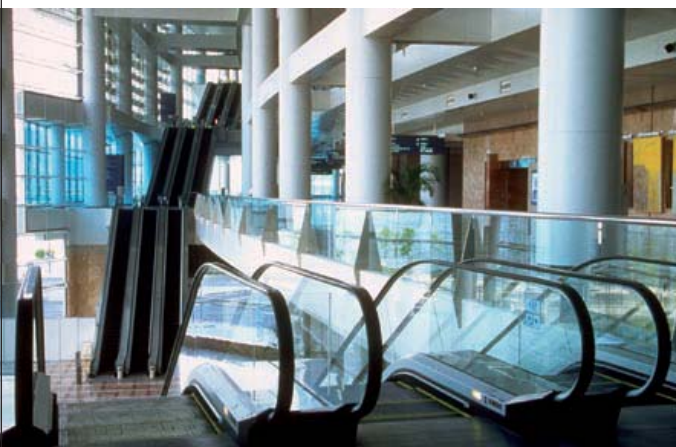
Commercial Buildings



Shopping Malls



Hotels



Exhibition Centres

## Multi-functional

The LINK escalator is a multi-functional escalator designed for various commercial applications. With a standard maximum rise of 8 metres, the escalator is an ideal product for locations such as shopping malls, commercial buildings, exhibition centres, airports and hotels.

## All Weather

The LINK escalator features truss welding with steel tubes to provide the structure with greater rigidity and strength than angled trusses. For use in outdoor conditions, the option of a hot-dipped galvanised truss protects the escalator from corrosion, and can increase the life and durability of the escalator.



Airports

# Safety

Safety is of paramount importance to Otis, a fact reflected in our designs and manufacturing processes.

The unique form of Otis' tapered handrail entry box is designed with safety in mind. Specially developed deflectors ensure that only the handrail enters the critical zone. The location of the safety switch, behind the handrail entry box, also protects against casual interference.

Precise synchronisation between handrail and step speed ensures a safe ride for all passengers.

The unique design of the skirt panel permits inclusion of a skirt lighting system for enhanced safety. A high impact resistant and code compliant diffuser fully protects the lighting.

As standard, the Otis Link escalator steps are made of stainless steel, making them exceptionally rigid and sturdy. Supported on a chain step system with spring-loaded pins and individual full width axles, the steps maintain a positive alignment with the step track system. This allows the steps to be easily removed for maintenance without dismantling skirting or balustrade parts.

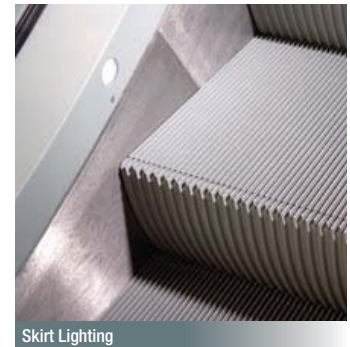
Yellow demarcation lines or yellow step inserts on the sides and rear of the steps are available for added visual safety.

The balustrade is made of 10mm thick safety glass and is held in place by an end-to-end continuous glass holder. This ensures that balustrade rigidity meets code requirements. The handrail entry box design securely clamps the newel glass sections, removing the need for unsightly supporting extrusions.

At landings, the 930/1000mm high balustrade offers an additional sense of security for passengers.



Handrail Entry Box



Skirt Lighting



Steps with Yellow Inserts



Balustrade fitted with 10mm thick safety glass

# Safety Features

Otis prides itself on the comprehensive safety features it builds into its products. The LINK escalator is no exception.

Some of the key safety features incorporated into the LINK escalator are shown here.

## Emergency Stop Button

Located on the upper and lower horizontal sections and close to the skirt panel of the handrail entry point. The safety stop can be manually activated by pressing the red button in case of emergency.



## Motor Thermal Protection

The thermal protection switch is located in the motor coil. If the motor temperature exceeds 155°C, the thermal protection sensor will automatically shut down the escalator.



## Broken Step and Chain Wheel Control Contact

This contact is located at both landings. It will be activated if either a step or chain wheel is broken or a step is lowered due to rupture.



## Comb Plate Safety Device

The comb plate protection switches are located on two sides of each comb plate. If foreign debris is lodged between the comb and steps, the comb plate will automatically lift upwards initiating the safety switch and stopping escalator operation.



## Floorplate Safety Device

A safety switch is installed under the floorplate to ensure proper floorplate positioning. If the floorplate is not properly closed, the safety switch will initiate, stopping escalator operation until the floorplate is properly closed.

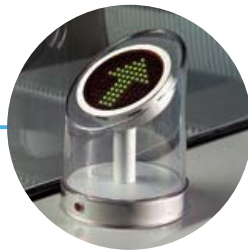






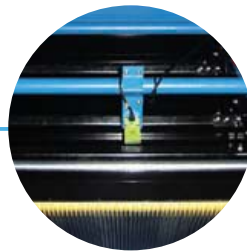
### **Auxiliary Brake For Rise Above 6m**

The auxiliary brake is installed at the main drive shaft in the upper landing. This is a standard for vertical rise over 6m and is an option for rise below 6m.



### **Traffic Flow Light**

This sign is an option fixed on the outer decking. Red and green neon arrows protected with acrylic cases provide striking visual indication of the direction of travel of the escalator.



### **Missing Step Device**

Two metal acquisition sensors are located at the turning position of the upper and lower landings. If the step is missing or installed incorrectly, the sensor will send a signal to the control system to shut down the escalator.



### **Handrail Entry Box Safety Device**

The handrail entry box safety device is in the handrail entry box of the upper and lower landings, and meets the standard requirements. If foreign debris is inserted in the handrail or rubber head, the safety switch installed behind the rubber head will activate, stopping the escalator.



### **Broken Step Chain Device**

The safety switch is located on the tension carriage in the lower landing. If the step chain breaks or stretches abnormally, the safety switch will initiate stopping the escalator.

# Quality & Service



Manufacturing Process



Quality Assurance Testing

## The established world leader

Otis is the world's leading manufacturer of elevators, escalators, and Trav-O-Lators®. Since pioneering the world's first safe elevator more than 150 years ago and the first escalator more than 100 years ago, Otis has established manufacturing, sales and service organisations in more than 200 countries and territories.

## Pioneering safety measures and ecological initiatives

Sustained commitment to research and development has maintained Otis' position as the market leader in innovation and safety. Otis was first to introduce many safety advances that have since become industry standards.

Continuous improvement and commitment to technical excellence have driven our products to become more environmentally friendly. Otis is leading the industry in providing environmentally conscious solutions to eliminate lubrication and lower material and energy consumption.

## Accent on service

With the world's largest network of branch offices, service centres and trained technicians, Otis is able to provide unmatched customer service. An international team of industry professionals, supported by state of the art technology, provides the highest level of service in the fastest possible time.

From order requests to product delivery, installation and final hand-over, Otis' project management ensures that a standardised process is tailored to meet the unique requirements of each individual project.

At Otis, the commitment to excellence has produced the highest quality products and services that deliver unrivalled customer satisfaction.

POCKET





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