

Specifications

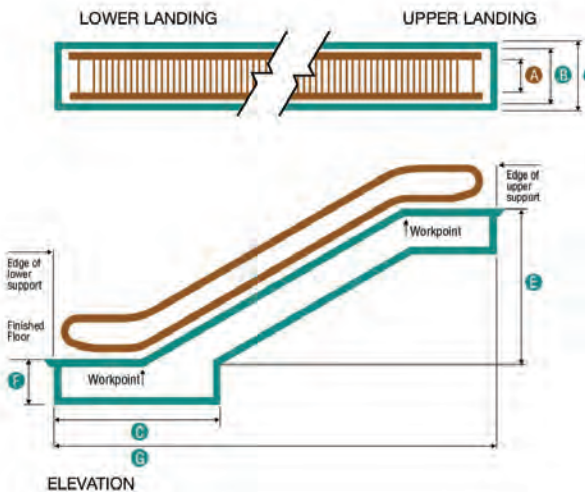
The NCE escalator is a versatile solution for commercial buildings, shopping malls, hotels, casinos, airports and hospitals.



Maximum rise 39ft 4 7/16 in

Speed - 100 feet per minute (0.5 m/second)

Power - 10.1 hp, 12.1 hp, 17.4 hp, 24.9 hp



DIMENSIONS

508 NCE Model	50824	50832	50840
A Step width	24"	32"	40"
B Finish width	3'-9"	4'-5"	5'-1"
C Minimum pit length	14'-6 7/16"	14'-6 7/16"	14'-6 7/16"
D Minimum rough opening	3'-11 3/16"	4'-7 3/16"	5'-3 3/4"
E Maximum rise	26'-2 15/16"	26'-2 15/16"	26'-2 15/16"
Minimum rise	4'-11 1/16"	4'-11 1/16"	4'-11 1/16"
F Minimum pit depth	3'-5 9/16"	3'-5 9/16"	3'-5 9/16"
G Beam-to-beam calculation ²	1.732 x E + 16'-2 11/16"	1.732 x E + 16'-2 11/16"	1.732 x E + 16'-2 11/16"

512 NCE Model	51224	51232	51240
A Step width	24"	32"	40"
B Finish width	3'-9"	4'-5"	5'-1"
C Minimum pit length	14'-7 1/16"	14'-7 1/16"	14'-7 1/16"
D Minimum rough opening	3'-11 3/16"	4'-7 3/16"	5'-3 3/4"
E Maximum rise	39'-4 7/16"	39'-4 7/16"	39'-4 7/16"
Minimum rise	26'-3"	26'-3"	26'-3"
F Minimum pit depth	3'-5 9/16"	3'-5 9/16"	3'-5 9/16"
G Beam-to-beam calculation ³	1.732 x E + 17'-0"	1.732 x E + 17'-0"	1.732 x E + 17'-0"

¹ Dimensions listed assume 2 flat steps, 480V power and installation under non-seismic conditions

² If "G" exceeds 58'-8", an intermediate support is required

³ Intermediate support required

⁴ Escalator replacements: Dimensions can be adapted for the replacement of existing escalators. Please contact your local Otis representative for further details.

NCE ESCALATOR
Green Escalator System

OTIS

Setting the Standard

Over 100 years ago, Otis invented the escalator. Since that time, innovation has been a constant theme in Otis' development as one of the world's leading escalator manufacturers. Otis pioneered initiatives like the glass balustrade and the cleated step riser, which were adopted by the industry as a whole. Now, Otis is again moving escalator technology forward with standard green features that save energy and minimize environmental impact.

Otis NCE Delivers:



Green Technology
Standard



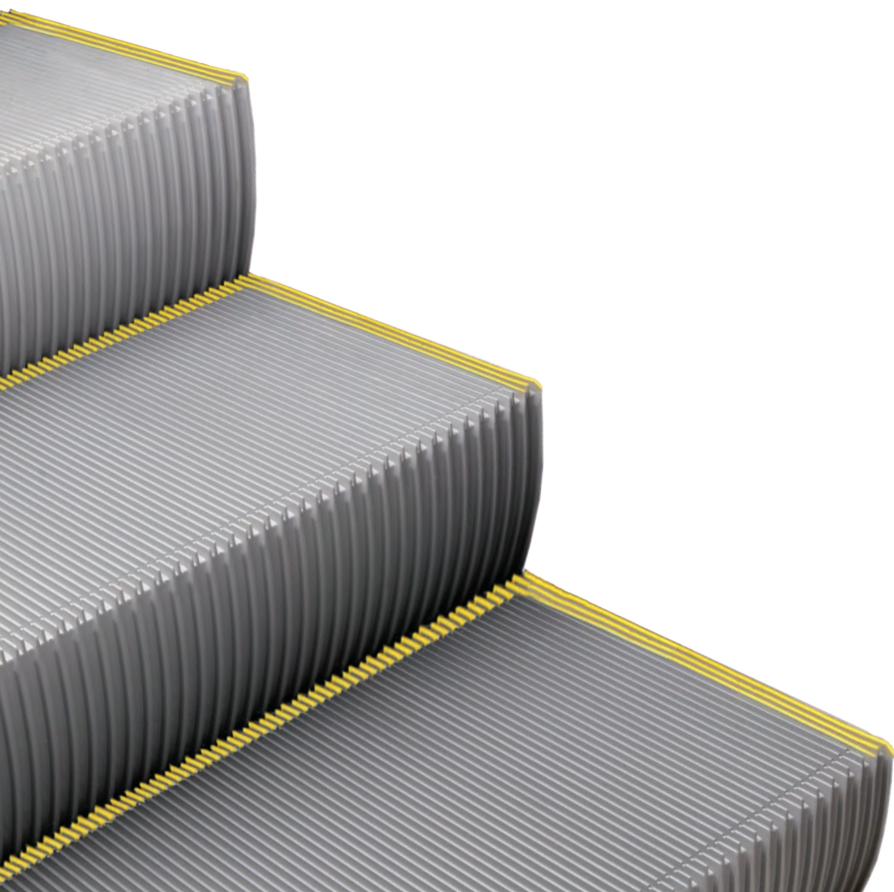
Aesthetic Options



Proven Reliability



Safety



First escalator for public use - Paris Exposition, 1900

Green Technology

With Otis NCE escalator
being green isn't optional.



Otis is leading the industry with The Way to Green. We encourage and enable our more than 60,000 employees worldwide to address the future positively and proactively. It is all a part of our end-to-end commitment to incorporating environmental awareness into everything we do.

SLEEP MODE

When the NCE escalator is not in use, the speed of the escalator is slowed down. A pressure-sensitive piezo contact mat under the escalator floorplate detects approaching passengers and powers the escalator gradually back up to full speed. The result is less energy consumption when the escalator is not in use.

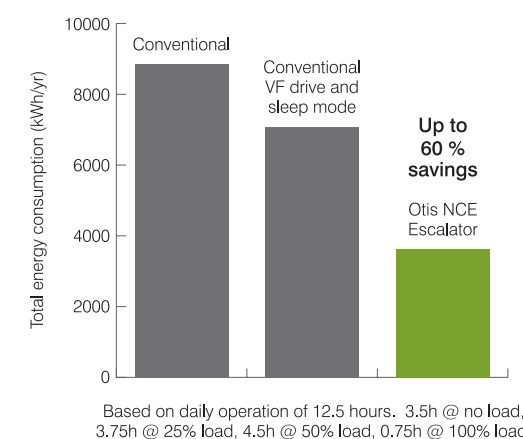
MINIMAL LUBRICATION

A highly efficient automatic lubrication system maintains proper lubrication of all vital components while using up to 98% less oil than conventional systems. This, combined with sealed-for-life bearings, minimizes environmental impact.



VARIABLE FREQUENCY DRIVE

When an escalator travels in the down direction, it generates energy, more so when there are passengers on the escalator. In non-regenerative systems, this energy is sent to resistors and is wasted as heat. With the Otis' ReGen drive, this energy is captured and fed back into the building's power supply to be used by other building systems. All this helps the NCE escalator use up to 60% less energy than conventional systems.

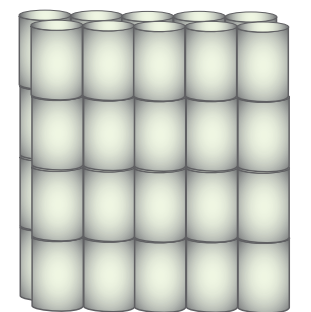


Conventional escalator systems

Otis NCE



1 Quart



40 Quarts

LED LIGHTING

Otis has replaced conventional lighting with long-lasting LED lighting. This allows for a variety of lighting options while considerably reducing the amount of electricity consumed.

Aesthetics

A wide range of design options

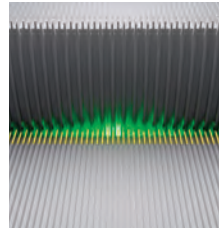


LED lighting under handrail to provide aesthetic effect while minimizing energy usage.

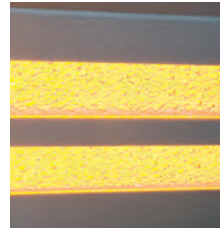
LED LIGHTING OPTIONS



Traffic flow light



Understep lighting



Comb lighting ¹



Continuous skirt panel lighting ¹



Balustrade lighting ¹

DECKING



Silver-grey, powder-coated aluminum (standard)



Gold finish anodized aluminum



Silver finish anodized aluminum



Gold satin finish



Satin finish stainless steel

¹ LED lighting available in different colors. Contact your Otis representative for details.

BALUSTRADE



Clear glass (standard)



Green glass



Bronze glass

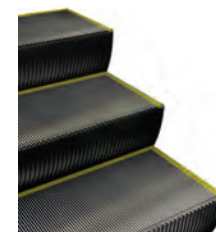


Satin finish stainless steel

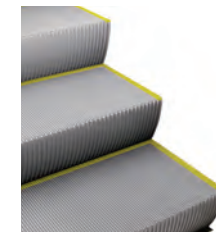


Grey glass

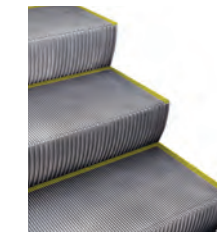
STEPS



Jet black powder-coated aluminum (standard)

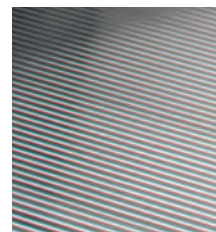


Silver-grey, powder-coated aluminum (standard)

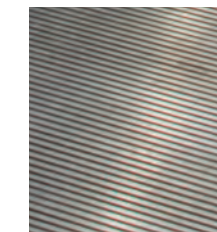


Natural aluminum

FLOOR PLATE



Natural aluminum with grooves (standard)

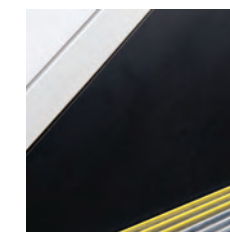


Aluminum with grooves, black powder coat



Stainless steel pattern with black grooves

SKIRT PANEL



Black with Guardian® low-friction powder coating (standard)



Satin stainless steel with transparent Guardian® low-friction powder coating

Reliability

A key design focus for all Otis products

Otis' goal is to ensure that a typical NCE installation with average passenger traffic load achieves a lifetime of at least 20 years without major overhaul.



Before each NCE system is shipped, it undergoes a series of final quality tests unique to Otis.

AS AN OPTION

You may add Otis' EMS Panorama™ system – an interactive system that allows you to monitor, control and gather information from your escalators and elevators.



Safety

Innovative technology puts safety first.

Otis prides itself on the comprehensive safety features built into its products



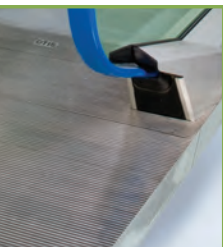
GUARDIAN® SKIRT PANELS WITH BRUSH GUARDS

Safety brushes promote passenger safety by gently guiding passengers away from skirt panels. Guardian skirt panels reduce side friction, minimizing risk of objects being caught.



COMB PLATE SAFETY DEVICE

The comb plate protection switches are located on two sides of each comb plate. If debris is lodged between the comb and steps, the comb plate will automatically lift upwards and stop the escalator.



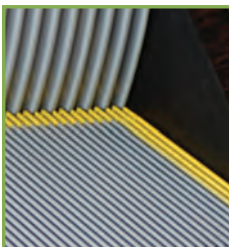
HANDRAIL ENTRY BOX SAFETY DEVICE

The tapered handrail entry box safety device is in the handrail entry box of the upper and lower landings. If debris is inserted in the handrail entry point, the safety switch will activate, stopping the escalator.



FLOORPLATE SAFETY DEVICE

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



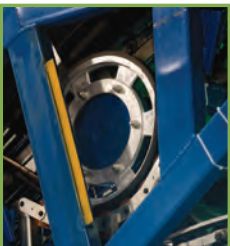
YELLOW DEMARCATION LINES

Located on each step, these lines provide additional visual safety by guiding passengers away from step edges. Yellow plastic inserts are also available as an option.



EMERGENCY STOP BUTTON

Located on both the upper and lower landings and mounted on posts. Pressing the red button will safely stop the escalator.



TRACTION WHEEL HANDRAIL DRIVE

This device synchronizes step and handrail speeds for greater passenger safety.



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.



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.



MISSING STEP DEVICE

Two sensors are located at the turning positions 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.



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 stop the escalator.