

KONE Transit Escalator

Superior technology with matching durability



PROJECT

Escalator Replacement
for the Subway System
Roosevelt Island
New York, New York

OWNER

City of New York
Transit Authority

MARKET SEGMENT

Public Transit

TIMELINE

September 2006 –
October 2008

GENERAL CONTRACTOR

Skanska USA

PRODUCT SOLUTION

Eight heavy-duty
transit escalators



“KONE is an excellent partner for Skanska USA because our two companies share the same core values when it comes to safety, quality and customer service.”

Michael Viggiano, Vice President of Operations, Skanska USA

Why Skanska USA works with KONE...

- The KONE transit management team understands the stringent requirements of the transit authority.
- KONE's transit escalators have a proven track record and they have stood up to the harsh conditions of the NYCT subway system.
- KONE's field installation crews have always been prepared and well trained to deal with the tough installation requirements of the subway stations.

the challenge

- Remove and replace eight existing escalators located underground
- Provide a product that meets the demands of a 24-7 transit system
- Conduct work with minimal interference to passenger traffic
- Deliver a solution that is cost effective in a municipal RFP purchasing process

the KONE solution

- Install KONE's heavy-duty transit escalators that meet the requirements of the transit authority
- Coordinate the installation within the strict guidelines of transit security and safety
- Completely remove the old escalators and install the new escalators 170 feet below grade
- Perform phased replacements and work third-shift and weekends as needed to minimize interference with passenger traffic

“Through the years the Skanska USA/KONE team has established an excellent working relationship with the NYCT. We pride ourselves on being the NYCT’s escalator replacement team of choice.”

Michael Viggiano, Vice President of Operations, Skanska USA



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For the latest product information and interactive design tools, visit www.kone.com

the client’s situation

Known as the city that never sleeps because of its extensive subway system that never closes, the City of New York’s transit authority is and needs to be a very demanding customer.

When Skanska USA bid on a project to replace escalators in the Roosevelt Island subway station, one of the deepest stations in the system, it called on KONE. KONE needed to deliver an escalator that could withstand continuous operation, as well as provide a well-experienced installation crew to take on a difficult project. The project required the replacement of eight escalators within a station that would remain open to riders. Four of the escalators were comprised of an 85-foot rise each alongside an active public stairway. They started at street level and extended down to a mezzanine level 170 feet below grade. To complicate matters, the surrounding wall tile and ceiling work could not be disturbed, resulting in the need for an elaborate self-stabilizing rigging system. The remaining four escalators would be installed at platform level almost 200 feet below street level.

the KONE achievement

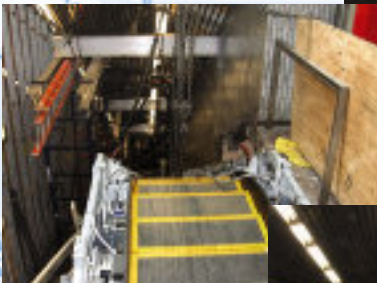
Since the New York City subway system averages more than six million riders on an average day, companies that provide product and services to the transit system must be able to deliver quality product and well-trained work crews at a competitive price. KONE was able to deliver all three in its partnership with Skanska USA to replace the escalators in New York City’s subway system.

According to KONE Project Manager Godfrey Allen, the transit escalators installed at Roosevelt Island offer heavy-duty components, including the chain, brakes, steps, controller and computer. “These components stand up to constant loading, heavy traffic flow and continuous operation,” he said. Since ridership is slower during the evening and night hours, KONE’s sleep-mode feature was installed. “It activates when needed, although the escalator never stops moving. When a passenger crosses a beam prior to reaching the escalator, the system returns to normal speeds.” This feature saves energy and needless wear on parts.

Skanska USA and KONE installation crews worked together closely to create as little disruption as possible to subway riders. This required phased escalator replacements so that the public had access to the platforms at all times. According to Michael Viggiano, Vice President of Operations of Skanska USA, “The Skanska USA/KONE team did an excellent job in minimizing the disruption by working from 9 p.m. to 5 a.m. when removing and replacing the escalator truss sections.” The team also worked weekends when the transit system shut down for other construction projects. “The Skanska USA/KONE team optimized the use of work trains through continued planning and use of best practices resulting in tremendous operations support savings for the transit authority,” he added.

the bottom line

Establishing a good relationship with the general contractor for a major municipal project is as crucial as providing quality product and well-trained work crews at a competitive price. KONE has developed a successful relationship with Skanska USA, a global leader in construction projects, by not only meeting Skanska USA’s expectations but, ultimately, those of the customer.



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