

The image shows the interior of the Leeds Station Southern Entrance. In the foreground, two escalators with blue and yellow striped steps lead up to a platform. The ceiling is a complex network of grey metal beams and pipes. In the background, there are ticket machines and a sign that reads "Platforms and Tickets" with the text "Automated ticket centre. Please have your ticket ready." and "Customer information point Tickets". The overall atmosphere is modern and functional.

**Stannah at:
Leeds Station Southern Entrance
Delivering accessibility in a
£20-million Network Rail upgrade**

**Passenger lift and escalator installations
Stannah is the supplier and installer of choice
Achieving Access for All**

Stannah



Once again, Stannah was the chosen supplier and installer of all vertical transport systems in Leeds Station Southern Entrance (LSSE), a £20m project linking the station with new commercial and residential leisure developments to the south of the city.

This choice was based on the strength of Stannah's escalator and lift pedigree with Network Rail's ongoing revamp of the UK's rail network – the most recent being multiple installations in Birmingham New Street Station, with two previous lift installations at Leeds Station itself.

Leeds Station

Opened in 1938 and rebuilt in 1967 and 2002, Leeds Station is the busiest station in the North of England and second busiest station outside London, after Birmingham New Street and Glasgow Central. Owned and managed by Network Rail, it has a footfall close to 29 million.

Over the past ten years the area to the south has undergone significant growth and regeneration. Major new office and residential accommodation has been created such as Bridgewater Place (nicknamed The Dalek), plus new residential leisure facilities including the DoubleTree by Hilton Hotel, just five minutes from the station.

£20m

new southern entrance

12 week

installation timescale

4

Stannah escalators

2

Stannah passenger lifts



Please stand on the right

- Hold the handrail
- Keep clear of the edge
- Don't drink
- Hold pushchairs or bulky luggage
- No smoking

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The Southern Entrance

The new developments to the south of the city created demand for a new pedestrian entrance from the southern aspect of the railway station. Now, up to 20% of the rail passengers benefit from it, all of them relying on stairs and **Stannah's four escalators and two passenger lifts** to bring Access for All (AfA), whatever their level of mobility, including wheelchair users, in accordance with the requirements of the Equality Act 2010.

The iconic new structure straddles the River Aire and includes a new concourse on the extended western footbridge in the station over platform 15, 16 and 17 and provides customer information screens, ticket vending machines and automated ticket barriers.

A new low level concourse at river level provides stepped and step-free access links to the east and west sides of the river, including to Granary Wharf, Little Neville Street and Neville Street.





“This project presented a time challenge, particularly as the twelve weeks on site were in the run up to Christmas with footfall building around the station. Despite an unusual site with restricted space my team pulled together to ensure we delivered our promise of safe, reliable escalators in place and operating efficiently by 4th January 2016. Delivery of the escalator trusses was completed at night to minimise risk and installation went smoothly.”

David Saunders

Department Manager, Stannah Escalators & Moving Walkways, Stannah Lift Services



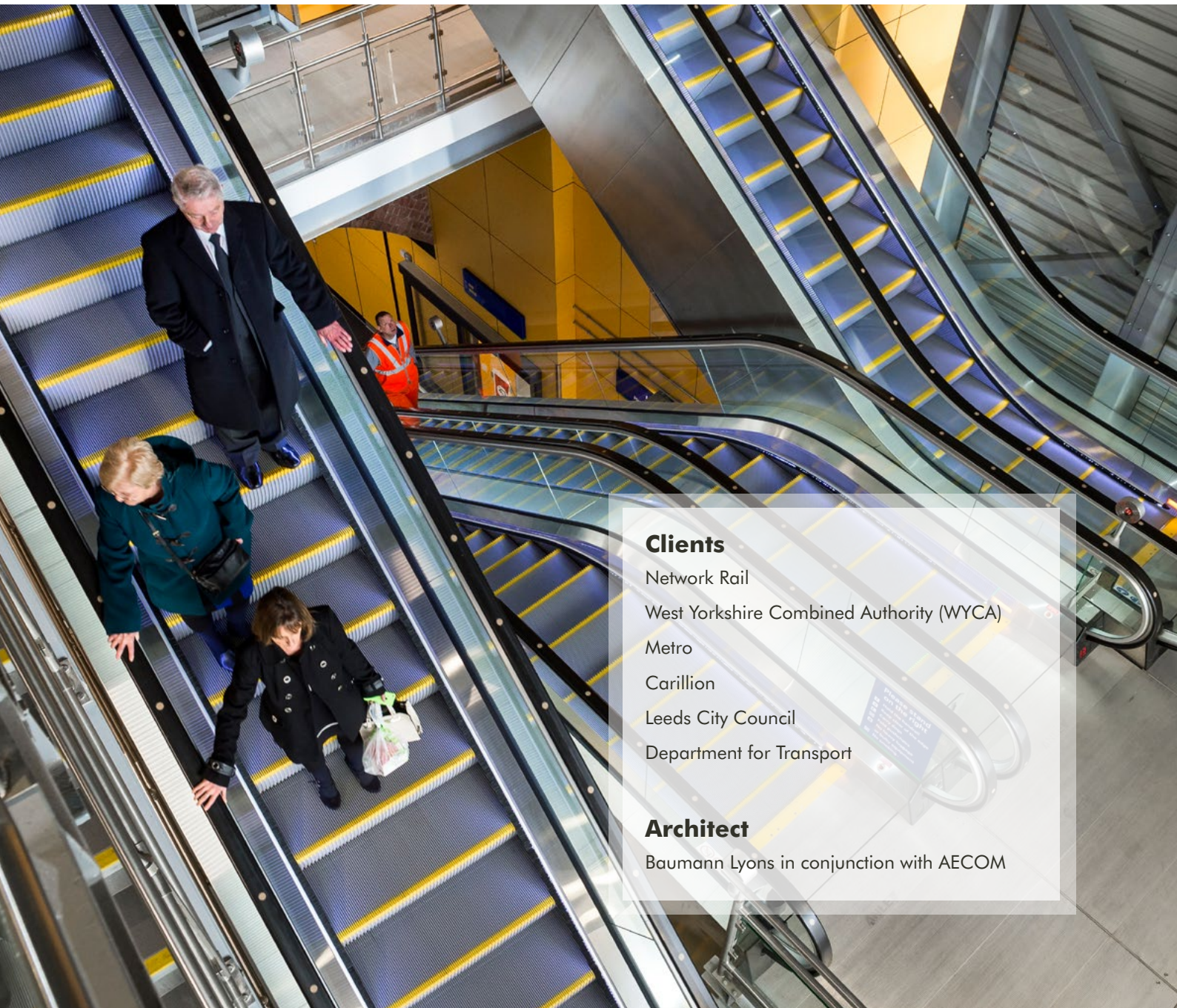
The Stannah lift products

The four escalators:

Provide continuous vertical transportation for ambulant people.

The two passenger lifts:

Travellers with bulky and/or heavy luggage, baby buggies or wheelchair-users are well provided for with two bespoke 13-person traction passenger lifts located inside the entrance.



Clients

Network Rail
West Yorkshire Combined Authority (WYCA)
Metro
Carillion
Leeds City Council
Department for Transport

Architect

Baumann Lyons in conjunction with AECOM

Challenges and solutions

As with any idiosyncratic project, LSSE had its unique constraints – the timescale and a dinky footprint that had to be worked around to ensure a successful outcome:

#1 Performing to a tight timescale

A twelve week start to completion was required for the installation of the four escalators and two passenger lifts to meet the deadline of a 3rd January 2016 opening. The work was completed by the Stannah Escalators & Moving Walkways Department and Stannah Major Projects team, with activity on-site 24/7 to ensure the deadline was met.

#2 Tailoring to a tight footprint

The new entrance was essentially an infill between two buildings – the width of the River Aire. To accommodate these space constraints, some of the lift and escalator features had to be modified to achieve the design and vision without compromising safety.

The lifts had restricted space so machine room-less traction equipment was installed to enable the largest capacity possible within the tight footprint of the new building.

The escalators are to NR specification with some additional bespoke features based on the tight constraints installed to ensure safety was at the forefront. These comprised special software so that all the machines operate to a special design philosophy when stopped in an emergency situation, including installing an additional stop button on each machine during mid-travel. Bespoke manufacture of the machines at 35° instead of the standard NR specification of 30°, and the reduction of the speed of the machines from the standard NR .65m/s to .05m/s all result in safe, efficient travel within the constraints of an unusual and stunning building design. With no room for housing external controllers, these became an integral part of the escalators.



Summary

As a key player in a dynamic, demanding working relationship, Stannah delivered in products and performance. Their total project management capability helped to optimise the flow and transport of people throughout an increasingly hectic transport environment. The new pedestrian entrance will be a great benefit to people living and working south of the river, and will open up new travel opportunities providing a further stimulus to redevelopment and expansion of the city centre, and will support the continued regeneration of the southern quarter of the city.

Stannah Escalators & Moving Walkways and Major Projects

These dedicated teams exist to provide all aspects of a project at one single point of contact. Individuals within the team are skilled in project planning and management, estimating, technical operations, logistics, product design and engineering, field managers, installation engineers, health and safety and quality control that together drive the project

The full service

All the Stannah lift products at Leeds Station Southern Entrance are supplied with guarantees and will be maintained by the North West England & North Wales branch of Stannah Lift Services as part of a nationwide service and maintenance contract with Network Rail.

The Stannah promise

Stannah is committed to delivering:
The best quality products
Superior service
Good value for money
And, last but not least, complete reliability

All backed by a 150-year lift manufacturing pedigree



All Stannah lift products meet required standards, including: The Equality Act 2010, EN81-70, EN81-3, BSEN115, Health & Safety at Work Act, CE Mark and Certificate of Conformity.

To find out more about Stannah's comprehensive ranges of Passenger Lifts, Platform Lifts, Escalators & Moving Walkways and Goods & Service Lifts, go to www.stannahlifts.co.uk



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