



Schindler Deutschland AG & Co. KG, Berlin: Installing an escalator

Overcoming extreme structural conditions

Lifting without suspension points: Some projects require our fitters to make the impossible possible – a major feat. Schindler Deutschland AG & Co. KG commissioned the SCHOLPP Berlin team to replace six cascading escalators in the terminal building at Frankfurt Airport. But there were no load-bearing suspension points for attaching lifting equipment. How on earth was it to be achieved?



Schindler has relied on SCHOLPP for escalator installations for over 20 years. "This was one of the most difficult escalator projects in my 45-year career," says the project manager who oversaw the installation, looking back. "The team was constantly challenged to think proactively and remain highly focussed."

are usually used for such tasks. This installation was going to require precise engineering.

Technical solution with special structural constructions

"Special lifting equipment had to be built to lift the escalator parts over several floors," says the project manager. This equipment consisted of 16.5-metre-long beams weighing over 3 tonnes, which could be dismantled into individual sections and were capable of supporting the weight of the escalator parts

The problem: There were no load-bearing suspension points in the airport terminal for attaching lifting equipment. Electric chain hoists anchored to the load points in the escalator shaft





(10 tonnes). The beams had to be in sections so that they could be brought into the narrow escalator shaft.

The beams were pulled up to the roof structure and installed there. Steel and aluminium supports were used to secure the structure. Crabs for the chain hoists were installed on the beams to enable manoeuvring. Heavy parts, confined space, complicated structural conditions, custom-built beams – SCHOLPP demonstrated the full extent of its technical capabilities and really pulled out all the stops on this project.

Next escalator replacement planned at the airport

The project took six months to plan and coordinate, two months to implement and was completed in several stages during night shifts by six to eight fitters. Due to the high volume of passengers, it was not possible to work during the day for space and safety reasons. Nevertheless, the installation work was completed a week earlier than planned.

Our customer Schindler and the operator of Frankfurt Airport were highly satisfied with the team's work. Plans are already under way for the team's next assignment at the airport: replacing three giant escalators.

Customer:

Schindler Deutschland AG & Co. KG,
Berlin

Task:

Replacing 6 escalators (10 tonnes each)

Location:

Frankfurt Airport

Special equipment:

Heavy-duty "Moppel" dollies with
360° rotation for flexibly moving
loads of up to 14 tonnes

Your contact for further information:

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