

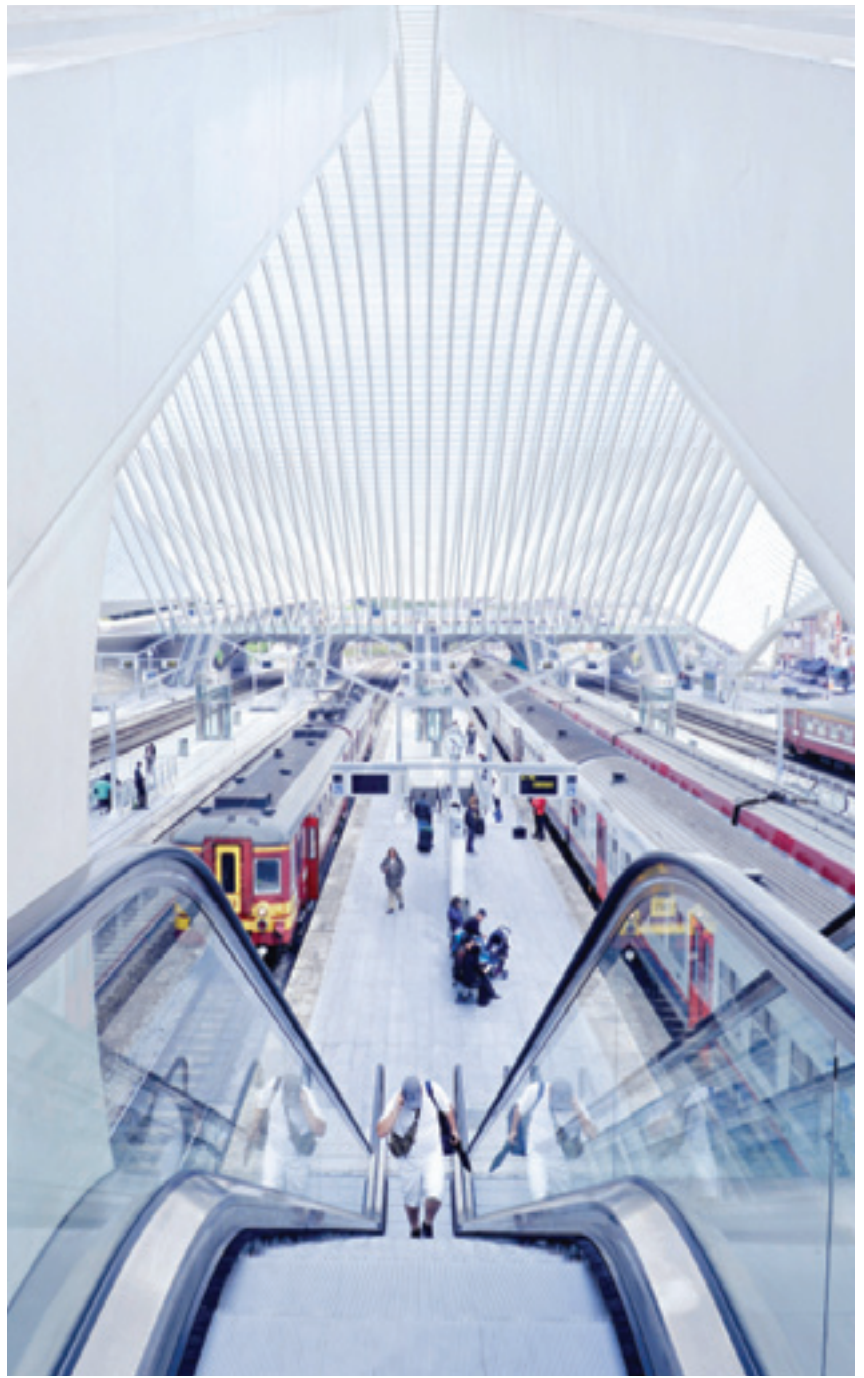
Technology That Moves



Products and equipment that must work in the great outdoors, where they may face extreme heat and cold, moisture, vibration and rough treatment, need to be built to more rigorous specifications. When it comes to mobility, public transportation applications place significant burdens on all manner of equipment. First, there are heavy passenger loads combined with exposure to the elements that include blazing heat, wind-blown dirt, snow, rain and subzero temperatures. Not only are airplanes, trains and buses subjected to these conditions, but so are transport terminals like the majestic Liège-Guillemins TGV Railway Station in Belgium.



Photo above, left: The sweeping design of the Liège-Guillemins station presents an elegant complement to the surrounding countryside. Photo above, right: A Schindler escalator connects passengers to the rail departure and arrival level.



As a centerpiece in the region's transportation network, the station must meet the constant requirements of getting people to their connections smoothly, reliably and efficiently. Because the elevators and escalators moving passengers in, out and through this terminal would have to withstand punishing conditions, choosing the right supplier is crucial.

Schindler is up to the challenge

Schindler has been moving passengers safely and efficiently for more than 135 years. Our products incorporate the latest technological advances and endure exhaustive testing to meet the demanding requirements of transportation facilities around the world. Attractive on the outside but tough on the inside, Schindler elevators and escalators are built with drives and components manufactured to the highest engineering and quality standards, and they stand up to the most challenging workloads. ►



Exposed to the elements, rugged yet graceful Schindler escalators bring visitors and passengers in and out of the Liège-Guillemins station.

Fast Facts on the Liège-Guillemins TGV Railway Station

Architect: Santiago Calatrava
Structure: Steel, glass and concrete cast on-site
Size (including tracks): 527,000 square feet
Span: 590 feet
Height (above tracks): 115 feet
HVAC: None, naturally ventilated
Cost: \$410 million
Rail: Nine tracks, five platforms, 21,000 passengers
Bus: 1,620 buses daily, 15,000 passengers
Schindler elevators: 12
Schindler escalators: 40
Schindler moving walks: 10

► A mobility masterpiece

As robust as Schindler products are on the inside, they are stylish and sophisticated on the outside. The twenty pairs of Schindler escalators and twelve Schindler elevators in the striking Liège-Guillemins TGV Railway Station are an excellent example. Completed in September 2009 and designed by architect Santiago Calatrava, the Liège-Guillemins TGV Railway Station is the main rail and bus terminal serving the city of Liège and a vital hub in Belgium's transportation network enhancing urban mobility. In addition to the national traffic, the Liège-Guillemins station connects Liège to Paris, Aachen, Cologne and Frankfurt.

The Schindler escalators, some of which are exposed to the rain and snow of Belgian winters, have been visually integrated into the station's design. Glazed balustrades and stainless steel finishes work in concert with the station's structural elements to create an appearance that has been described as revolutionary, futuristic, daring and even dreamlike. The escalators are symmetrically placed at the foot of the main roof of the station and lead passengers to large overpasses, where the Schindler moving walks connect them to interior sections.

In the transition from the passenger terminal to a mall across the station ground floor, the elevator system is an important element of visual continuity. Here, the curved lines of the terminal's interior are complemented by six circular, panoramic Schindler elevators. Unseen beneath the graceful lines and shimmering materials in these Schindler elevators, escalators and moving walks is the advanced technology and durability demanded for reliably moving 36,000 passengers each day through the station and up into the fascinating landscape of Liège. ■



Photo right, above: Dramatic lighting accents these Schindler escalators that carry passengers to and from the track level of the station.
Photo right, bottom: A Schindler elevator opens to the station's upper level.



A uniquely designed, glass-encased Schindler elevator highlights the futuristic interior of the Liège-Guillemins station.