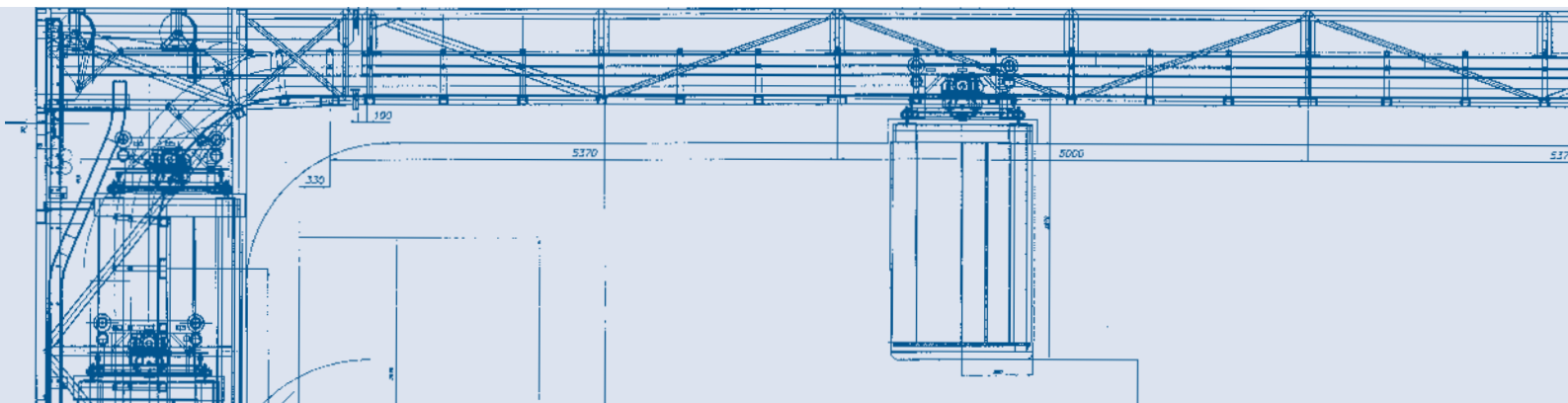


Schmid Peoplemover® – Overpass and Revolution. The Discovery of a New Way.



A Company
of ThyssenKrupp
Elevator

ThyssenKrupp Aufzüge



ThyssenKrupp

Creating New Ways Demands New Ways of Thinking.

The Schmid Peoplemover® Removes the Final Barriers to Modern and Efficient Traffic Planning.



The green light for people and road traffic. The Schmid Peoplemover® opens up the way for pedestrians and vehicles.

Systematic development on a firm foundation, with innovative thinking always to the fore.

How can a busy road be crossed quickly, speedily and safely without disrupting the traffic, even by wheelchair users and people with pushchairs? The answer lies in the Schmid Peoplemover®, a revolutionary technological masterpiece that sets new standards and embraces completely new concepts.

- ▶ **Completely safe crossing** of all kinds of roads. Road and rail traffic continues on its way completely unhindered.
- ▶ **Extremely user-friendly** for wheelchair users and people with pushchairs: a special focus of attention in the design stages.
- ▶ **The extremely small ground** area requirement in comparison to the traditional bridge or underpass offers both space and cost savings.
- ▶ **Many ways to include signage** provide attractive potential for adding value and raising finance, e.g. road signs or advertising space.
- ▶ **Highest levels of safety guaranteed** through the safety standards already in place for elevator construction and people transport.
- ▶ **Optimal reliability and availability** through use of high-quality components and ThyssenKrupp Aufzüge's many years of experience in technology and service.

Crossing major traffic thoroughfares - the conventional way and using advanced technology. A comparison.

Traffic routes	Conventional solutions	Schmid Peoplemover® – The advanced solution
Road traffic: Pedestrian lights and zebra crossings	▶ A relatively high safety risk due to inattentive drivers and pedestrians. ▶ Traffic often comes to a standstill. ▶ High levels of stress for road users, the environment and residents due to noise and exhaust fumes, e.g. traffic movements. ▶ The step at the pavement edge presents problems for the disabled.	▶ No safety risk whatsoever. The two types of road users no longer come face to face. ▶ No interruption of the traffic flow. ▶ Positive and immediate reduction in levels of stress for road users, the environment and residents. ▶ The disabled no longer encounter obstacles such as the step at the pavement edge.
Road traffic, railway lines, waterways: Overpasses, bridges with ramps and underpasses	▶ Overpasses and bridges with ramps are extremely fatiguing or even completely inaccessible for disabled people and people with pushchairs. ▶ Large ground area requirement, especially in the case of bridges and underpasses with gently sloping inclines designed for the disabled. ▶ High planning and implementation costs. ▶ Rarely do underpasses give any feeling of security; they are generally off-putting. ▶ Specifically planned construction methods are required for individual solutions, such as special access facilities for buildings.	▶ Whether multiple-lane roads, waterways or railways: a comfortable and leisurely crossing is possible for everyone. ▶ Minimum requirement for ground area and not dependent on the type of traffic route to be crossed. On entering or exiting the cabin, the wide automatic doors open at the same level as, for example, the pavement. ▶ Cost-effective – transparent planning and implementation from day one. Less foundation work required. ▶ High feeling of security for users due to good visibility at the illuminated approaches and in the car. ▶ Flexibility means that all types of building access can be designed to perfection: for example access to car parks, service stations, supermarkets, etc.

Leading Edge Service.

Revolutionary System that Requires No More Than 3 Days to Erect.



① Original situation

Vertical, horizontal, ingenious.

The innovative concept used in the Schmid Peoplemover® is based on the horizontal and vertical movement of the car, which moves up and down the two towers and across the bridge spanning them. When travelling vertically, the lift carriage and car are held in the lifting gear guides before gliding smoothly over into the horizontal travel position with the aid of a special guide rail and a sophisticated mechanical system. In particular, it is this smooth transition from the upwards vertical movement to the sideways horizontal movement that is nothing more than a stroke of genius.

The passengers reach the other side of a four-lane highway safely and comfortably in about 30 seconds, while the travelling time will definitely seem much shorter than, for example, waiting at a set of traffic lights.



② Erection of the towers

A quicker crossing has further benefits.

Amongst the numerous benefits of this new kind of pedestrian conveyor system is the time-saving installation. The superb overall concept and the well thought-out design mean that installation of the towers and the bridge can be completed and be ready for operation in 2, or at most, 3 days. In addition, construction work and interruptions to the traffic are reduced to a minimum.



③ Construction of the foundation



④ Attaching the bridge



⑤ Installing the lift car



⑥ Schmid Peoplemover® on completion. Reference installation at Pfullingen (B 312, Marktstraße) near Stuttgart, Germany.

An Overview of Perfection.

Figures, Data, Facts.

Engineering and performance. Technological progress with safety.

- ▶ The **application areas** for the Schmid Peoplemover® are almost unlimited. They range from the crossing of streets, railways, and waterways etc., the linking of motorway service stations to car parks with no service facilities on the other side of the motorway, and to providing facilities at shopping centres, exhibition centres, leisure parks, hotel complexes, hospitals, and many more.
- ▶ The Schmid Peoplemover® fulfils all the prescribed **safety standards** and guarantees highest levels of reliability. In the case of a power cut, battery operation switches in automatically and an emergency release procedure is initiated. Car equipment and fittings are **protected against vandalism** to ensure your installation retains its value.
- ▶ When it comes to **costs**, the Schmid Peoplemover® sells itself as an extremely economic and competitive solution. This is particularly evident when compared to the traditional processes involved in bridges and underpasses, since expensive deep workings and foundations are eliminated.
- ▶ This **type of design** with its **overpass concept has been subjected to TÜV inspection** and offers problem-free entry and exit. With no changes in floor level, it is therefore also suitable for accompanied wheelchair users and those wheeling pushchairs or cycles. Where there is heavy pedestrian usage, a parallel walkway can be added to the steel structure of the Schmid Peoplemover®.
- ▶ Flexibility of design, height and span makes it possible to integrate the Schmid Peoplemover® into the **existing road features and architectural structures**: the high quality basis for a correspondingly modern and efficient town planning project.

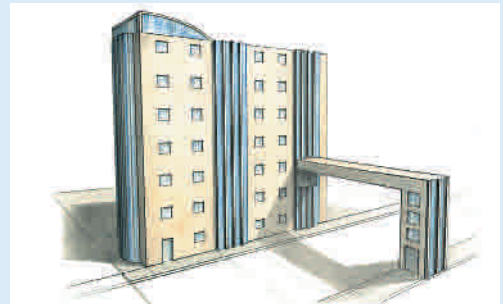
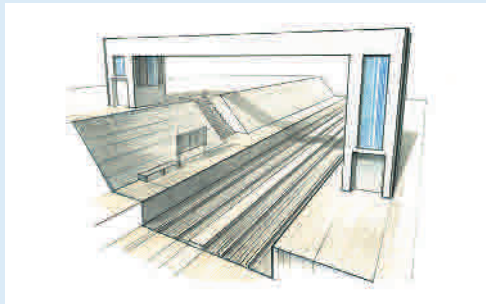
Figures, data, facts.

- ▶ **Towers:** Steel lattice construction clad with profiled, coated sheet metal.
Width approx. 2.5 m. Depth approx. 3 m.
Height depending on requirements.
- ▶ **Bridge:** Steel lattice construction clad with profiled, coated sheet metal. Alternatively with see-through catwalk plates. Depth approx. 3 m.
Height approx. 1.2 m. Span according to requirements up to approx. 30 m, with uprights of more than 30 m.
- ▶ **Drive:** Frequency-controlled drive on the lift car roof.
- ▶ **Control:** Thysocontrol Multican® with customized hardware and software configuration and latest microprocessor technology.
- ▶ **Car:** Aluminium with window. Width approx. 1.4 m. Depth approx. 1.8 m. Height approx. 2.2 m.
Car ventilation conforms to European elevator standards.
- ▶ **Speed:** up to 1 m/s vertical, up to 2 m/s horizontal.
- ▶ **Rated load:** 600 kg or 8 persons.
- ▶ **Capacity:** With 5 m travel height and 20 m span approx. 720 persons per hour in both directions.
- ▶ **Doors:** Centrally-closing sliding doors made of V2A stainless steel. Width 1 m. Height 2.1 m.
- ▶ **Specifications:** EU lift directive 95/16/EU, EN 12015 and EN 12016 (EN 81-1:1998 with exceptions).

The Schmid Peoplemover® Offers Complete Flexibility. Further Applications.

The requirements: many and varied. The solution: unique.

Due to dramatically increasing traffic volumes, the Schmid Peoplemover® is assuming a trail-blazing role in shaping modern traffic planning. This remarkable innovation is becoming the most suitable and comparatively cost-effective solution for the many and varied requirements in this area. As a variety of tower heights are available, the flexibility of the Schmid Peoplemover® means that it is highly likely to bring about dramatic improvements in the way many types of buildings are accessed, in addition to its main application area for road and rail traffic.



It is also ideal for the lucrative business of conveying information.

The bridge design of the Schmid Peoplemover® allows various facades and signage to be fitted and arranged to create the desired visual effect. Examples are the display of traffic or advertising information that can generate an additional and profitable self-financing income.

Flexibility in design and dimensions.

Whether in the historic city centre or the modern surrounding area: The Schmid Peoplemover® can be harmoniously and unobtrusively integrated or positioned to create an attractive architectural highlight. The installation is flexible and adaptable to the local site conditions both in height and span and can also be customised as required, e.g. for canopies over access doors.

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