

Moving Individuality ...



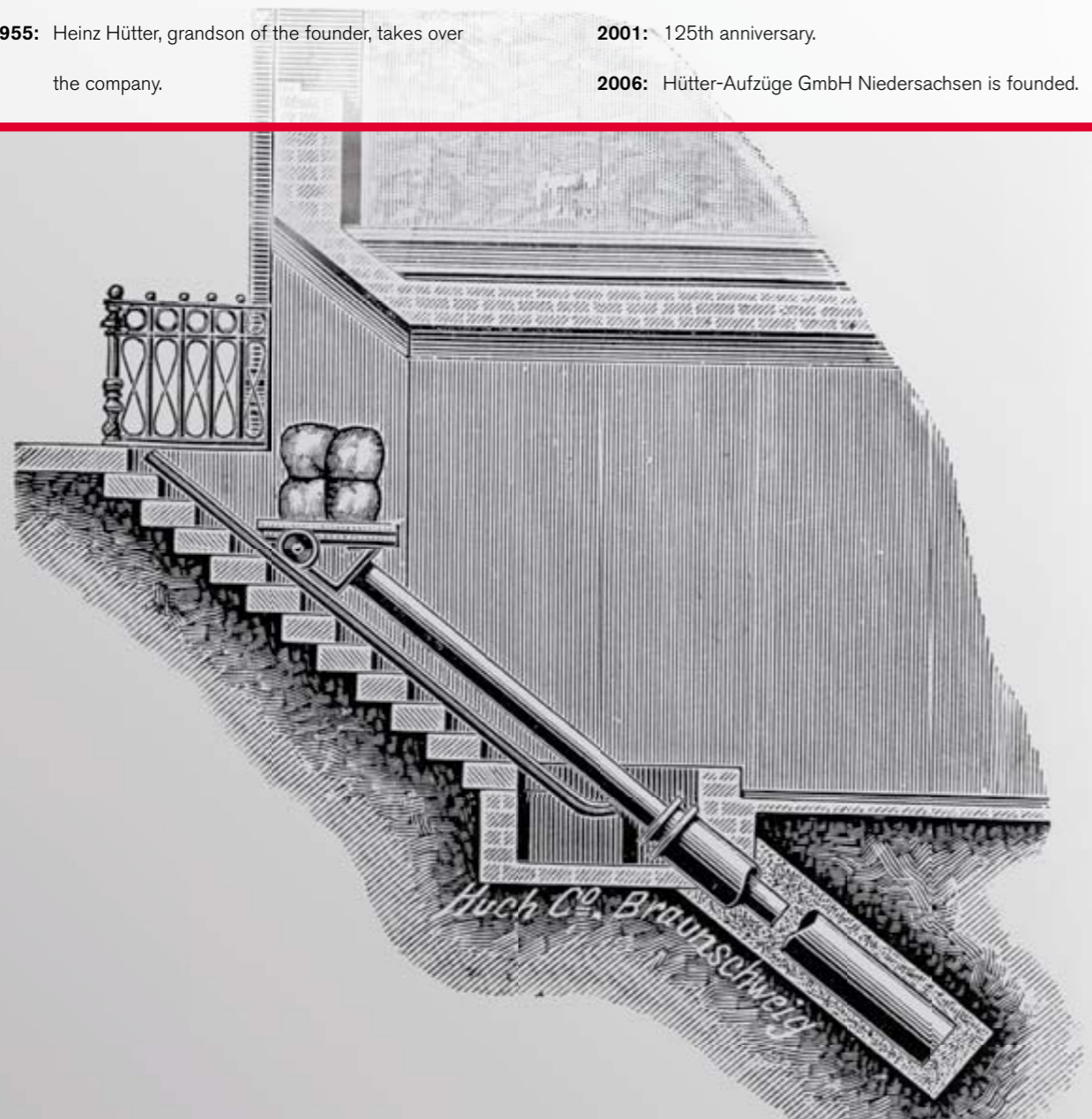
... with inclined elevators



HÜTTER
AUFZÜGE



- 1876:** Heinrich Hütter founds Maschinenfabrik H. Hütter Jr. Just a few years later the first elevators were offered.
- 1916:** The second generation: Heinrich Hütter takes over the company after the death of his father.
- 1943:** The company premises are totally destroyed in the Second World War.
- 1955:** Heinz Hütter, grandson of the founder, takes over the company.
- 1989:** Achim Hütter, the fourth generation, takes over management of the business.
- 1994:** Restruction of the company to H. Hütter Jr. Verwaltungs-KG, Hütter-Aufzüge GmbH and Hütter-Aufzüge Service GmbH.
- 1999:** Bernd Hütter enters the company as Managing Director.
- 2001:** 125th anniversary.
- 2006:** Hütter-Aufzüge GmbH Niedersachsen is founded.



Going up since 1876.

For special and individual elevator equipment solutions we at Hütter Aufzüge have been the right partner for over 130 years. We are a medium-sized company and managed by what is already the fourth generation of the founding family. We are specialised in the design, production and installation of complete special elevators and elevator components, tailored exactly to the specifications in terms of construction, planning, function and design.

New possibilities with inclined elevators

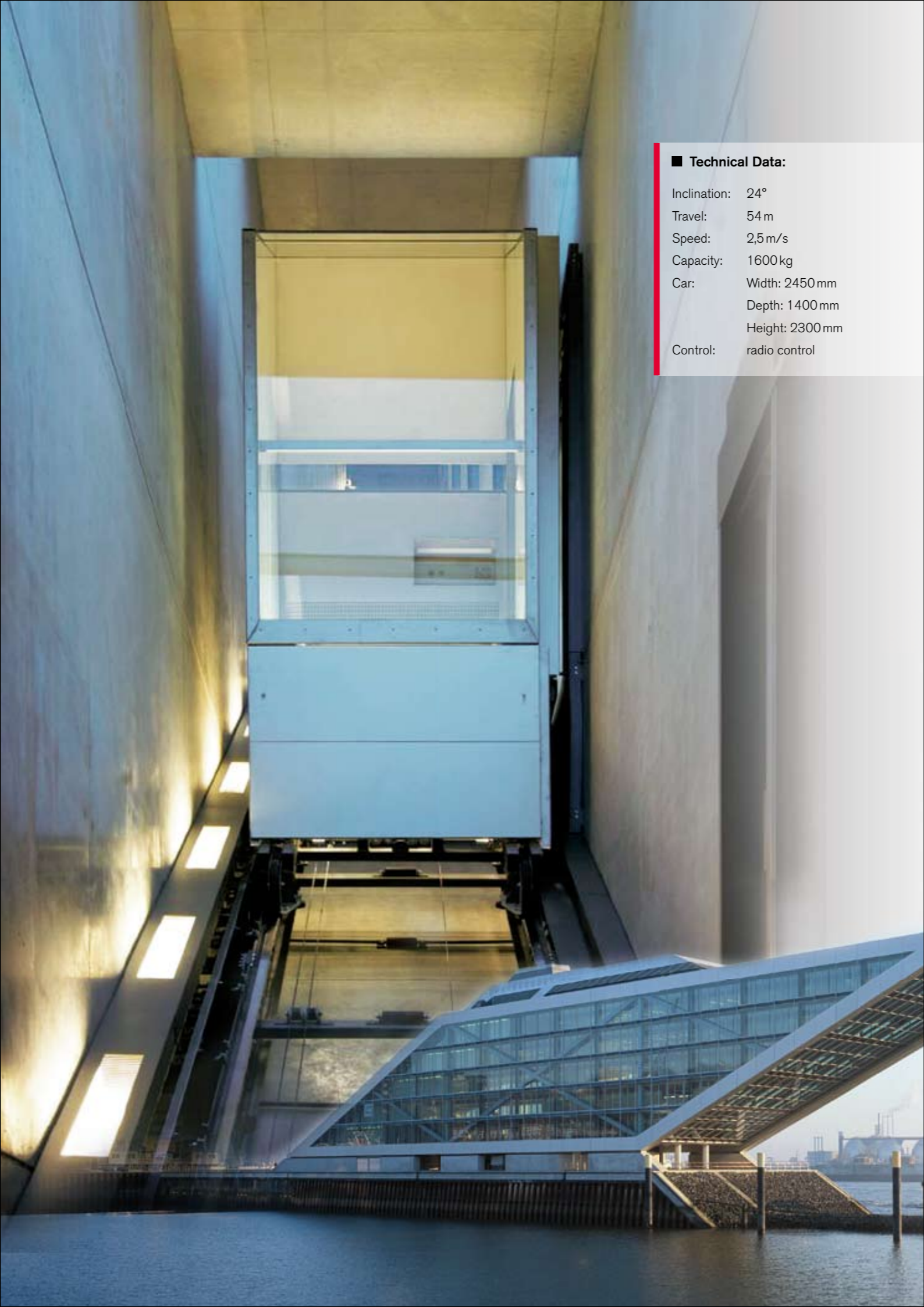
Our expertise is in demand world-wide, in particular with regard to innovative inclined elevators, which often represent a more effective and economical alternative to classical vertical elevators – or even open up completely new possibilities of mobility. In this sector we are regarded as one of the leading international suppliers.

However unusual or demanding the project might be: we have the experience and the know-how, to achieve impressive, superior quality, turnkey implementation. This also includes placing the strongest emphasis on the most cost-effective operation and secure availability even when subject to the most intensive use. Accordingly, in addition to state of the art technology, we use parts and components that are freely available on the market, for example, making it uncomplicated and cost-effective to maintain the equipment and procure spare parts.

For example, inclined elevators enable train stations to be retrofitted at comparatively little effort with access for disabled persons. Other application areas include amongst others improving access to properties located on a slope or to special architectural constructions such as atriums or bridges. The principle of individuality and maximum flexibility also applies in this product area with tailored drive types, a free choice of cabin dimensions, door configurations and furnishings as well as optimised speed, load capacity and lifting ratings.

On the following pages we present interesting examples of different inclined elevators to give a small impression of our possibilities. When it comes down to it, we always find a way to get you moving. Put us to the test!





■ **Technical Data:**

- Inclination: 24°
- Travel: 54 m
- Speed: 2,5 m/s
- Capacity: 1600 kg
- Car: Width: 2450 mm
Depth: 1400 mm
Height: 2300 mm
- Control: radio control



Hamburg, Germany

■ PROJECT: „DOCKLAND“ OFFICE BUILDING

The Dockland is part of the Pearl Chain – a concept for the redevelopment of the riverbank in the center of the city. For container ships and passenger liners, this position marks the entrance to the Hamburg Harbor. Dockland's dynamic form is created by a rhomboid constructed from steel and glass cantilevers with a fully glazed front façade 47 meters over the river, using an inclination of 66° and evoking strong association with a ship's form.

Due to the demands of the customer, the elevators incorporate a series of special equipment and finishes:

- Total isolation of the complete inclined elevator to the building.
- Omission of the traveling cable.
- Installing a contactless power-transmission system.
- Use radio control for transferring controller information.
- Use two-wire bus technology.



■ **Technical Data:**

Inclination: 83° inclining to 90°
Travel: 65 m
Speed: 1,0 m/s
Capacity: 1250 kg/16 persons
Car: Width: 1050 mm
Depth: 2500 mm
Height: 2300 mm
Control: radio control

Siak, Indonesia

■ PROJECT: SIAK BRIDGE

Special: Outdoor lift with angeled guiding at the pillar of the bridge

The Siak Bridge was designed in 2001 to improve the connection between the provinces and was build from 2002 – 2007. The Bridge consists of two pylons. During the building it was decided to use the elevated tops of the pylons to serve as a Restaurant and a karaoke bar. The general contractors contacted the Indonesian elevator

company Marico Gria in Jakarta which has a long history in special elevator projects. For this one they reached out to their long-term partner Hütter-Aufzüge GmbH in Hamburg, Germany. Several projects were realized by this team in Indonesia, among them the well known Bali Cliff Inclined Elevator.





■ Technical Data:

Inclination:	25°
Travel:	70,5 m
Speed:	1,0 m/s
Capacity:	1350 kg
Car:	Width: 2000 mm
	Depth: 1500 mm
	Height: 2300 mm
Drive:	Gearless

Nam San, South Korea

■ PROJECT: NAMSAN'S OUTDOOR INCLINED ELEVATOR

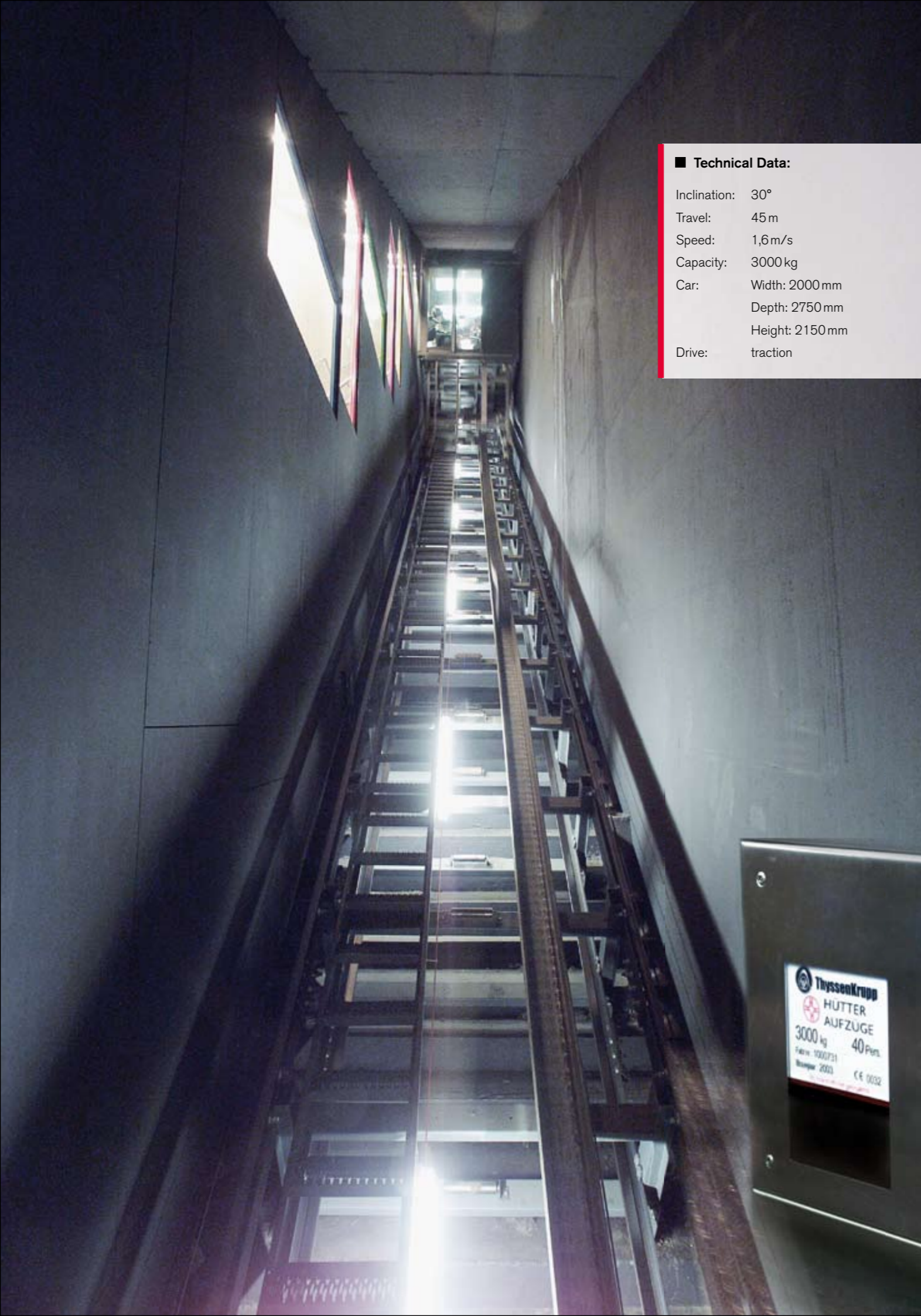
Seoul City decided to further exploit the tourism resources in order to produce a famous tourist spot of international worth, and so decided to adopt an outdoor Inclined elevator to enable tourists to take in the view and make Namsan more accessible. Here the partner of Hütter Aufzüge Kumho Elevators brought its technical skills into play.

The Namsan Inclined elevator was installed and became Korea's first outdoor elevator. The elevator runs on electricity as its power source so water-proof components had to be used for all parts, from shoes to switches. This is because it must

continue to operate safely and without problems even when it rains or snows. Moreover, temperature changes have also had to be taken into account, and heating and ice-breaking devices were attached to rails as a matter of course.

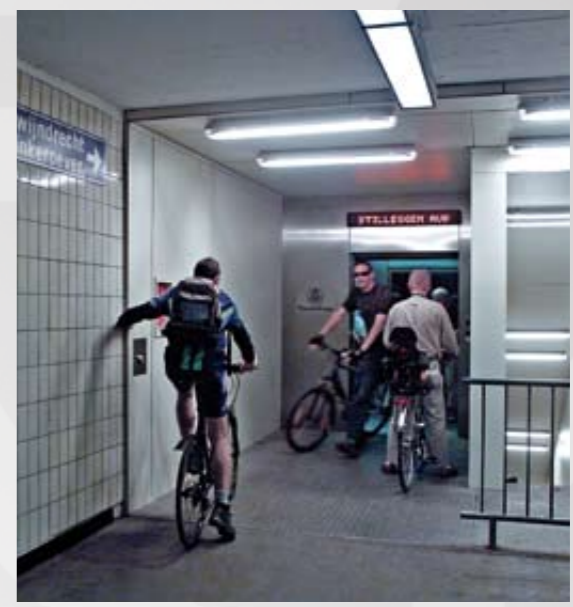
Carrying on from the Namsan Inclined elevator, Kumho Elevators have more recently been installing another innovative Inclined elevator. The company is at work on a variable Inclined elevator, whose angle changes, for the North Seoul Dream Forest in which Seoul City has invested 320 billion won.





■ **Technical Data:**

Inclination: 30°
 Travel: 45 m
 Speed: 1,6 m/s
 Capacity: 3000 kg
 Car: Width: 2000 mm
 Depth: 2750 mm
 Height: 2150 mm
 Drive: traction



Antwerp, Belgium

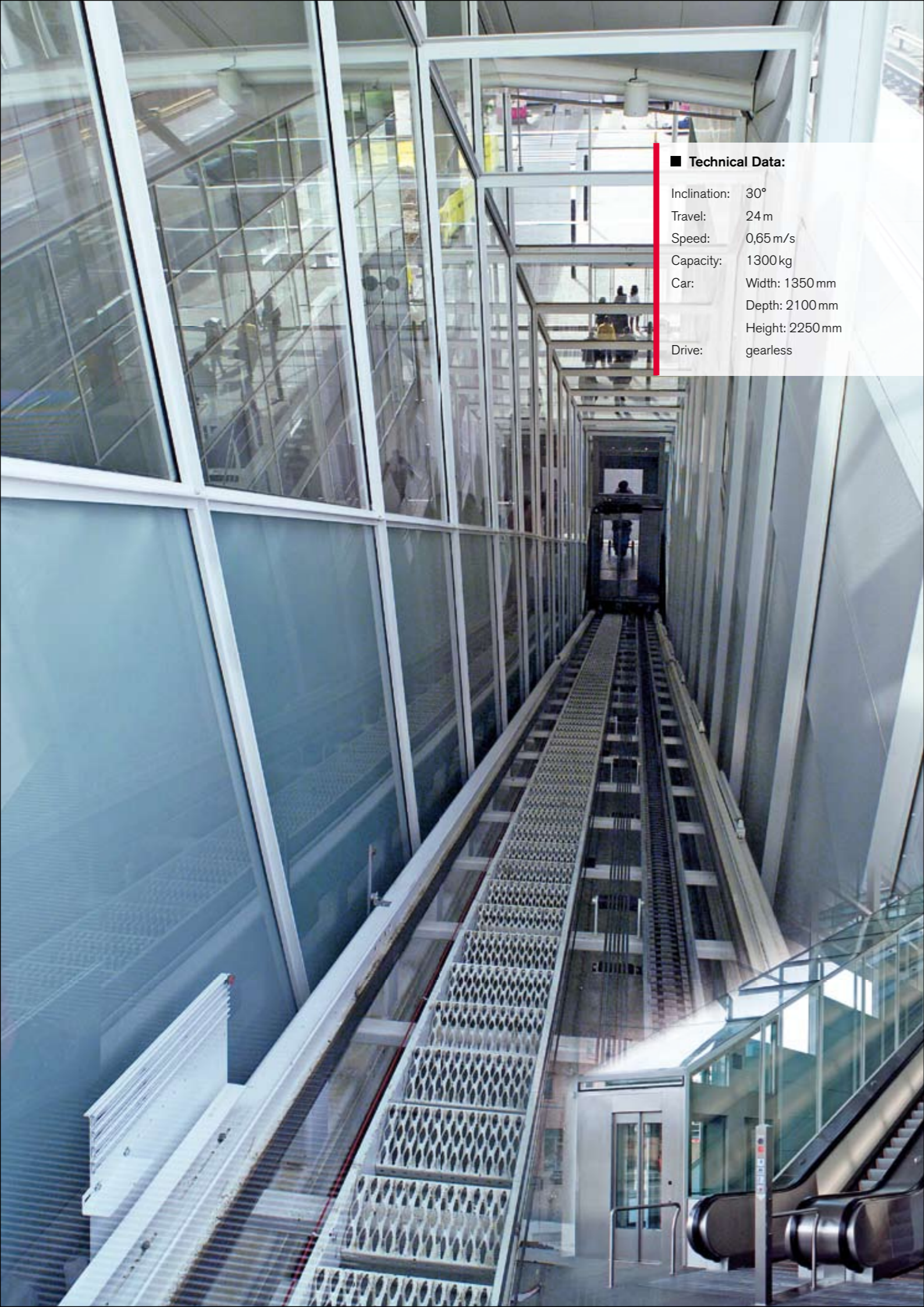
■ PROJECT: KENNEDYTUNNEL

The Kennedytunnel under the river of Schelde is the access for people entering the city of Antwerp from the north. In former times two sets of escalators provided the 55 m incline.

Due to the fact of serious accidents with scooters and motorcycles using the escalators, the Belgium government searched for a more safe means of transportation.

Together with Thyssen Elevators Belgium Hütter Aufzüge developed a system of two inclined elevators each with 3000 kg capacity and a speed of 1,6 m/s. Herein all kind of vehicles can be transported from one side to the other safely.





■ Technical Data:

- Inclination: 30°
- Travel: 24 m
- Speed: 0,65 m/s
- Capacity: 1300 kg
- Car: Width: 1350 mm
Depth: 2100 mm
Height: 2250 mm
- Drive: gearless



Amsterdam, Netherlands

■ PROJECT: TRAINSTATION GANZENHOEF

Inclined elevator for the Amsterdam Metro at the subway station Ganzenhoef. The station was completely new designed. The inclined elevator is a cooperation of Hütter-Aufzüge GmbH and Schindler Liften in the Netherlands.

With the team of the famous architect Zwaarts and Jansma Hütter – Aufzüge designed a special car ceiling which formed a triangle with the same incline as the elevator. The machine room is located under the upper landing, entered by a hatch provides minimum space requirements.





■ **Technical Data:**

Inclination: 22°
 Travel: 55 m
 Speed: 1,2 m/s
 Capacity: 630 kg
 Car: Width: 1100 mm
 Depth: 1400 mm
 Height: 2200 mm

Stuttgart, Germany

■ PROJECT: RETIREMENT HOME KULLENBERG

It is a long walk up and a long walk down. The solvent citizens of an home for the elderly decided to stop enduring the hardship of the steep hill to their home. They had everything – a beautiful view over the valley, fresh air on top of the hill – but they needed a transport system to and from their gorgeous place. The architect designed an inclined lift and a stair next to it. As

a matter of course Hütter-Aufzüge was selected to build this extraordinary transport vehicle. The elevator receives a glass wall so that the passenger enjoy the spectacular view. The acceleration and deceleration were minimized to comfort the users. After a few years in service the users still feel the relief of the burden of the steep hill.



Xian, China

■ PROJECT: FAMEN TEMPLE

Famen Temple, is located at Famen Town near Xian in Shaanxi Province, China. Star-Architect Li Zuyuan designed and planned the temple. He directed the design of Taipei 101, the world's tallest skyscraper until the opening of Burj Dubai.

will move them back to the floor. This will keep the performance high. To minimize the noise level and maximize the reliability the newest developments in cable chains were used to hold the trailing cable.

The principal part of the building is shaped like a Buddhist greeting. The four elevators generate an excellent flow of visitors through the temple. At days with a high number of visitors the elevators on one side will take the visitors up while the other side

Hütter-Aufzüge GmbH partnered with Rhine-LMG Elevators which is a corporation which comprises several successful elevator companies including agencies in big and medium-sized cities around China to form a complete and efficient customer service network.



■ **Technical Data:**

Inclination: 54°
 Travel: 55 m
 Speed: 2,5 m/s
 Capacity: 1650 kg
 Car: Width: 2000 mm
 Depth: 1750 mm
 Height: 3000 mm

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