

## Metropolitan Library Busan, South Korea



Fast and reliable book return, sorting and transport with the integrated solution from Telelift

### The customer, The requirements, The solution



With around 3.5 million inhabitants, Busan is the second largest city in South Korea after Seoul. It is located on the south-eastern coast of the Korean Peninsula. It is considered to be one of the leading industrial cities in the country.

As part of a government program to promote libraries in South Korea, the Busan Metropolitan Library was planned as the new central city library of Busan.

The Busan Metropolitan Library impresses with its impressive architecture. A glass facade takes up the entire front of the four-story building and ensures that the central hall and some other areas of the library are flooded with sunlight. This creates an atmosphere of cosiness in the library that invites visitors to linger.

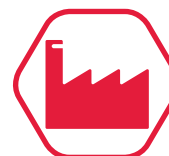
In the new building, an integrated library solution with book return, sorting and transport was implemented. From two 24/7 external book returns, 21 UniSortCars transport the single media to five sorting destinations on four floors. In addition, seven UniSafeCars ensure individual transport between three open-access areas, the archive and the sorting room.

The newly established Telelift Korea Co., Ltd. ensures local service and support for the Busan Metropolitan Library and all other customers in Korea.

The Busan Metropolitan Library is thus ideally equipped for all logistical requirements of a modern library.

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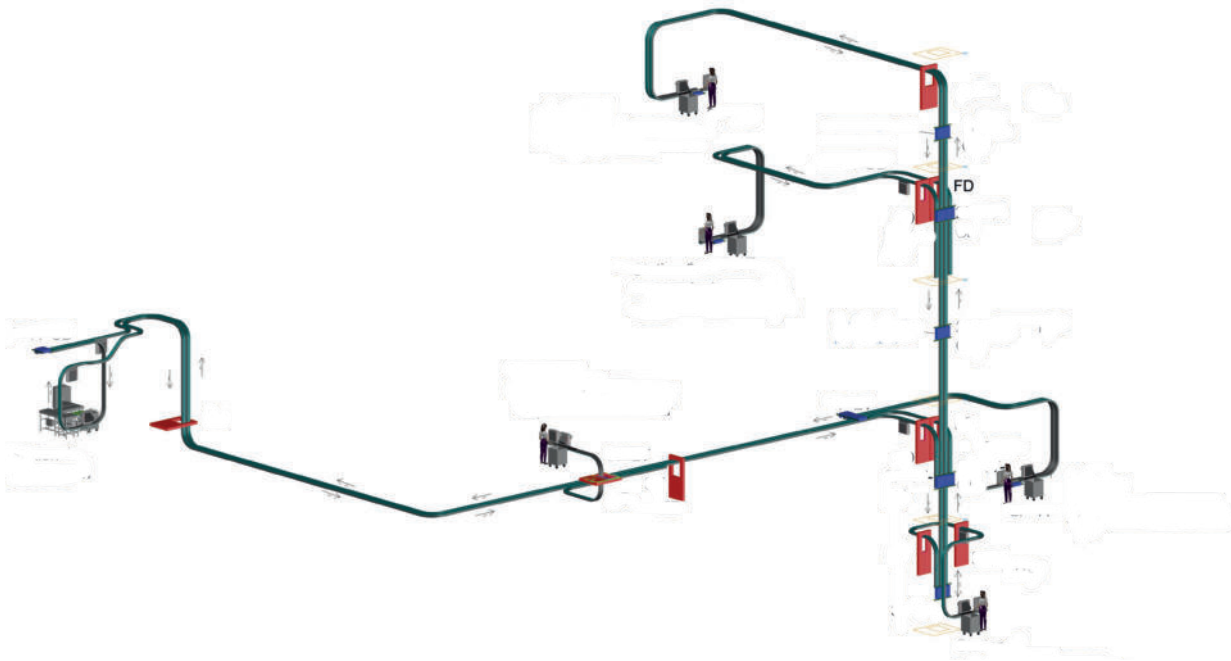
## The solution

The system: UniSortCar, UniSafeCar  
Track length: 250 m  
No. of stations: 6  
No. of cars: 21 UniSortCars  
7 UniSafeCars  
No. of floors: 4

## Benefit

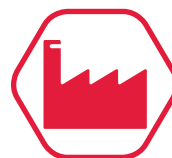


- Opening hours 24/7
- Relief for employees
- Faster media circulation



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# Referenz – University library Leiden Leiden, Netherlands



Improvement of the loan and return concept with a  
Telelift book transport system

## The customer, The requirements, The solution



The Leiden University Library was founded in 1587. It is older than the Royal Library of the Netherlands and, as a source for teaching and research, had a significant influence on science during the Age of Enlightenment. From a scientific point of view, Leiden University Library is the Netherlands's outstanding library. It comprises approximately 5,200,000 books.

In 2020, a container conveyor system with conveyor belt and container lift technology from the 1980s was replaced by a modern Telelift UniCar system.

At the same time, the library management took the opportunity to adapt the logistics to the changed logistical requirements of a modern library.

The loan and return concept is improved with the Telelift book transport system.

With the system, orders are conveyed from the magazines and back and pre-sorted in book trolleys.

By manual loading and unloading, the Telelift system gently transports valuable books from the magazines to the reading room and back again.

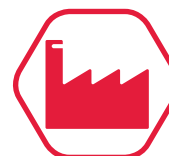
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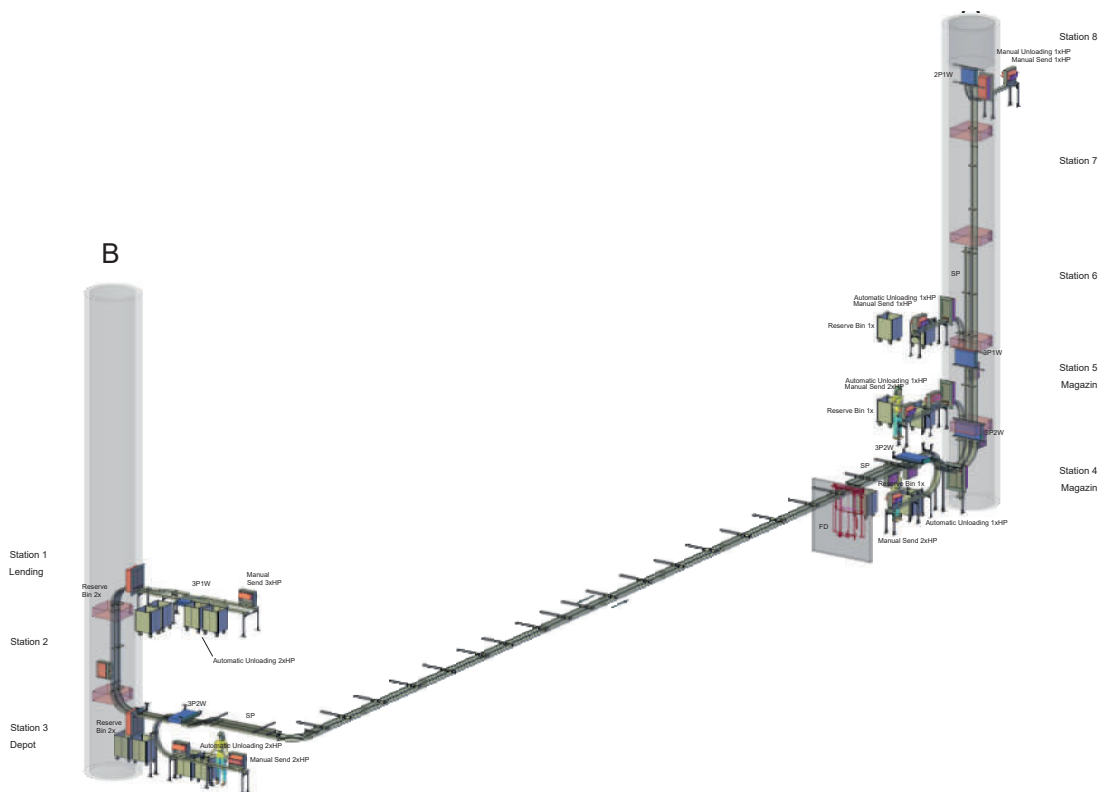
## Benefit

- Adaption to logistical requirements of a modern library
- Gentle transport of valuable books
- Improvement of the loan and return concept



## The solution

The system:	UniCar ADAL
Track length:	223 m
No. of stations:	6
No. of cars:	12
No. of floors:	4



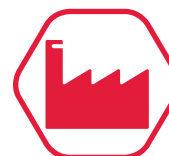
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# Reference – State library "Unter den Linden"

Berlin, Germany



**telelift**  
Innovation for Logistic Solutions



Book sorting and automated transport of media in the State library Berlin with the Telelift MultiLift.

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## The Customer, The Requirements, The solution



The state library "Unter den Linden" in Berlin is one of the most famous library buildings of the world. The library was built in the years 1903–1914. Until 1945 it was home to the Prussian State Library and the University Library as well as the Prussian Academy of Sciences.

From 2005 to 2020 the state library "Unter den Linden" was extensively renovated and supplemented with new buildings and a new general reading room. The building was equipped with new IT systems, a book transport system and air conditioning for magazines. This makes the library a place for information and communication.

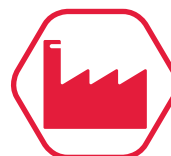
The book transport system was implemented as part of a consortium under the direction of Telelift. The system transports the books from a total of 80 sending and receiving stations, mainly located in the magazine areas, to four reading rooms. 540 transport containers are in use here. With a web-based visualization, the employees can always monitor the transports. By using the transport solution, the staff is relieved of strenuous and time-consuming transport tasks and can concentrate better on library tasks.

The library was reopened in a digital ceremony on January 25, 2021.

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# Reference – German national library

Frankfurt / Main, Germany



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Book sorting and automated transport of media in the German National Library with the Telelift MultiLift / MultiCar.



## The Customer, The Requirements, The Solution

The German National Library with its locations in Leipzig (formerly "Deutsche Bücherei") and Frankfurt a.M. (formerly "German Library") is the central archive library and the national bibliographic center of the Federal Republic of Germany. The function of the National Library, in Leipzig since 1913 and since 1946 in Frankfurt a.M., is a full collection, development and bibliographical record of the German-language literature and music.

With German unity in 1990, the two libraries in Leipzig and Frankfurt were merged.

On 47,000 square meters of main floor space and 30,000 square meters of storage space for a storage capacity of approx. 45 million books, magazines, CD, sheet music and records, the significance of the German National Library in Frankfurt a. M. is recognizable.

1997 Telelift installed a book transport system for book sorting and automated transport of media in Frankfurt. The system is a combination of a modern rail system and a classic belt conveyor system.

After 22 years of operation, the library decided to modernize the control components of the system. Thus, a control of the latest design was integrated into the system.

With the modernization work, the plant can run again successfully for many years.

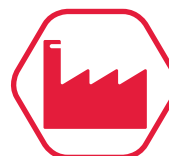
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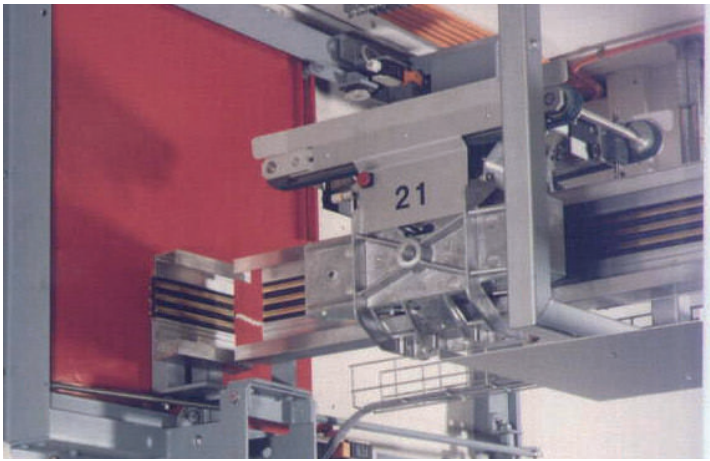
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## The solution

The system:	MultiLift / MultiCar
Track length:	200 m
No. of stations:	8
No. of cars:	30
Paternoster lift:	3
Linear lift:	1
Commissioning:	1997
Retrofit:	2020

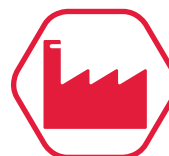
## Benefit

- Quicker and more gentle transport of all media (books, newspapers)
- Efficiency due to automated transports
- Relief of staff from manual transports and long distances to be covered
- Improved service for users and time saving processes
- Vertical and horizontal routing for optimal space utilization



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# Reference – German national library

Leipzig, Germany



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Automated book transport in the German National Library



## The Customer, The Requirements, The Solution

The German National Library with its locations in Leipzig and Frankfurt am Main is the central archival library and the national bibliographic center of the Federal Republic of Germany. For more than 100 years, the German National Library has been collecting, documenting and archiving all media works in text, image and sound format published in Germany since 1913 along with foreign publications about Germany or in the German language; these are then made available to the public. Our holdings encompass more than 41 million media.

The German National Library in Leipzig is an archive library. All media are made available for use in the reading rooms. A reading room landscape with optimal working and study conditions is available to users for this purpose.

In the year 2010, an automated book transport system was assembled in the German National Library in Leipzig in order to optimize the delivery processes. In 2019 the system was expanded. Since then it has been running continuously, is in very good condition and should continue to be used in the long term.

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## The solution

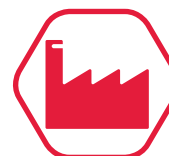
The system:	MultiLift
No. of stations:	44
Linear lift:	10
Stroke converter:	6
Fire protection closure	12
Single conveyors:	174
Commissioning:	2010
Retrofit:	2019

## Benefit

- Quicker and more gentle transport of all media
- Efficiency due to automated transports
- Relief of staff from manual transports
- Improved service for users and time saving processes
- Vertical and horizontal routing for optimal space utilization

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# Reference – Vilnius



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## University library

Vilnius, Lithuania



Fast and reliable transportation of media with Telelift UniCar improves transport flexibility and optimizes library processes.



### The Customer, The Requirements, The solution

Vilnius University Library, founded in 1570, has remained in its authentic place up to now.

Together with all the buildings and courtyards of the old University, it composes a uniform, spectacular and unique architectural ensemble of Vilnius Old Town, representing the history of Lithuanian science and culture progress.

Telelift implemented a book transportation system integrated with RFID solution in the library.

During the project, there was installed custom-made equipment like self-service kiosks, book returns and sorting system.

The book transportation system consists of two main parts:

- the equipment operating on RFID technology and
- the book transportation system.



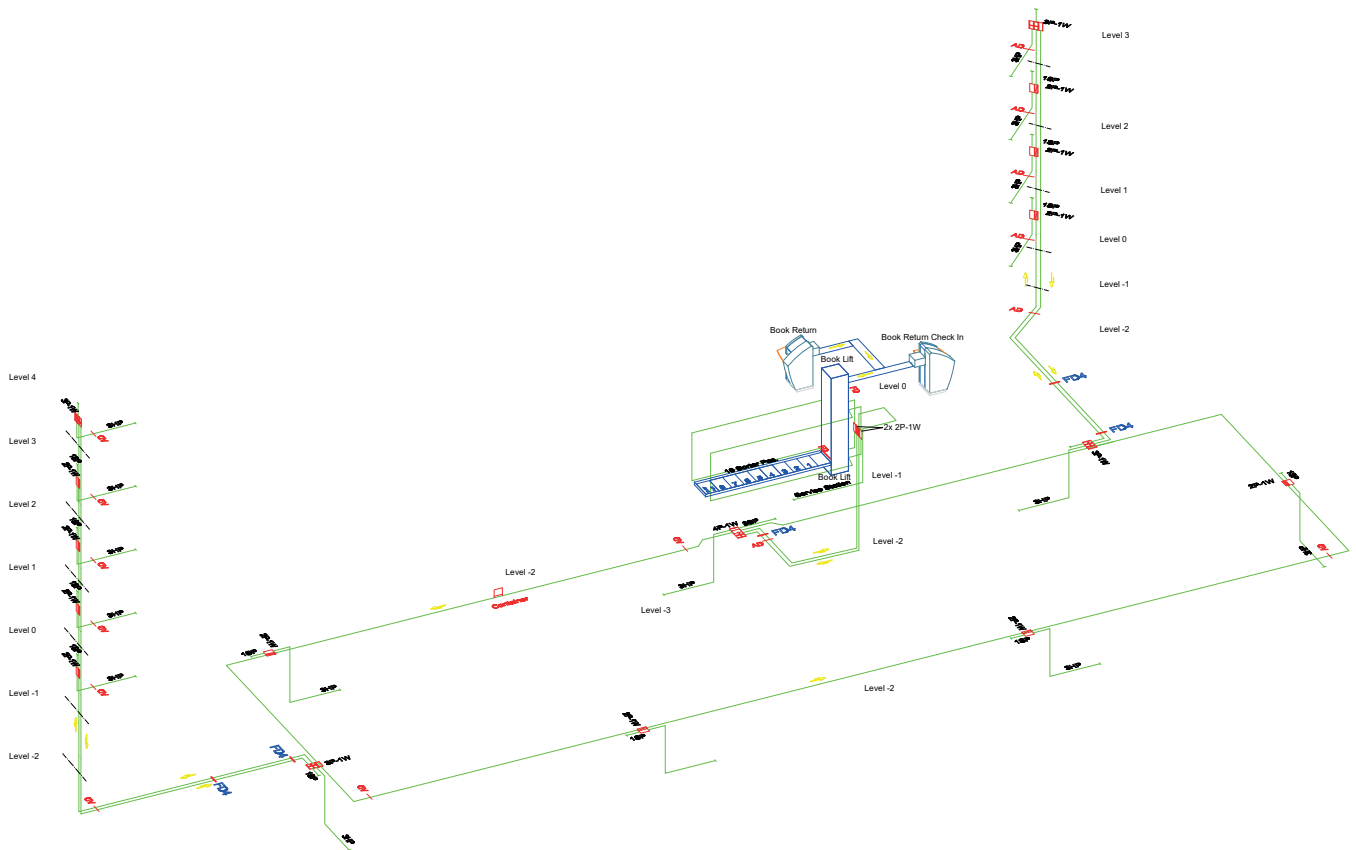
## The solution

The system: UniCar  
 Track length: 450 m  
 No. of stations: 17  
 No. of cars: 45



## The success

Book sorting and transport across all floors as well as pre-sorting of media for multiple locations.  
 The library now offers reliable 24/7 operation without additional human resources.



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**Reference** – TU Chemnitz



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University library

Chemnitz, Germany



Fast and reliable transportation of media with Telelift UniSortCar in different floors.



## The Customer, The Requirements, The solution

The university library of the TU Chemnitz moves into the listed building of the old stock spinning mill. In the university library a total of about 1.45 million books are to be accommodated. Of this, approximately 785,000 books will be accommodated in the freely accessible area for the user (free hand area) and around 595,000 books in the magazine area. The total usable area amounts to 12,354 m<sup>2</sup>.

In order to connect all areas in the best way, the integrated library solution from Telelift and bibliotheca will be installed in the new library of the TU Chemnitz.

Two book return machines and four staff returns will be linked to 25 Telelift cars, which transport media to six different floors. The installation takes place without damaging the historical building structure and at the same time in compliance with all legal fire protection regulations.

The library staff no longer have to deal with time-consuming sorting tasks, but have more time to advise customers in detail. It can also better focus on event offerings or other on-demand services. Extensive physical work, such as the transport of heavy bookcases, is completely eliminated as the Telelift transport system automatically transports the media to the destination.

The media are returning to their original location more quickly, making them faster available to users for the next loan. The Telelift system also enables buffering in the magazine areas and thus supports concentrated sorting of the delivered media.

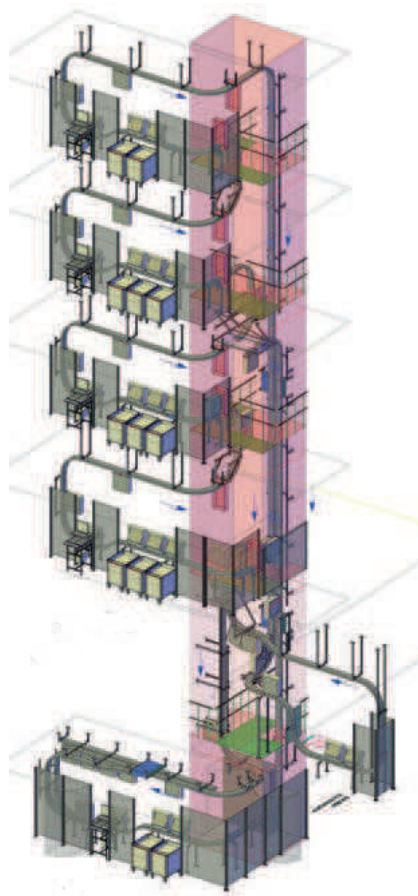


## The solution

The system: UniSortCar  
Track length: 100 m  
No. of stations: 16  
No. of cars: 25

## The success

- Opening hours 24/7
- Relief of the employees
- Faster media circulation

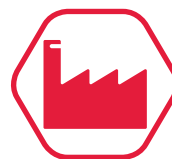


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