

SMART LOGISTICS FOR LIBRARIES



THINK GLOBAL + ACT LOCAL

TELELIFT has over 50 years of experience in building machines and equipment for internal conveyor systems. Solutions developed by this technology expert have been put to cost-efficient use in libraries since 1972. The company has a policy of working in collaboration with professional partners from the library sector and experienced architectural and planning practices. Thanks to customized logistics solutions and proactive project management with all stakeholders – from consultancy to design and implementation – Telelift ranks as a leading global supplier of intelligent transport systems in the library sector, including public, scientific and specialist libraries and archives.



TAILORED logistics solutions

PARTNER NETWORK in the library sector

DEVELOPMENT + PRODUCTION in Germany

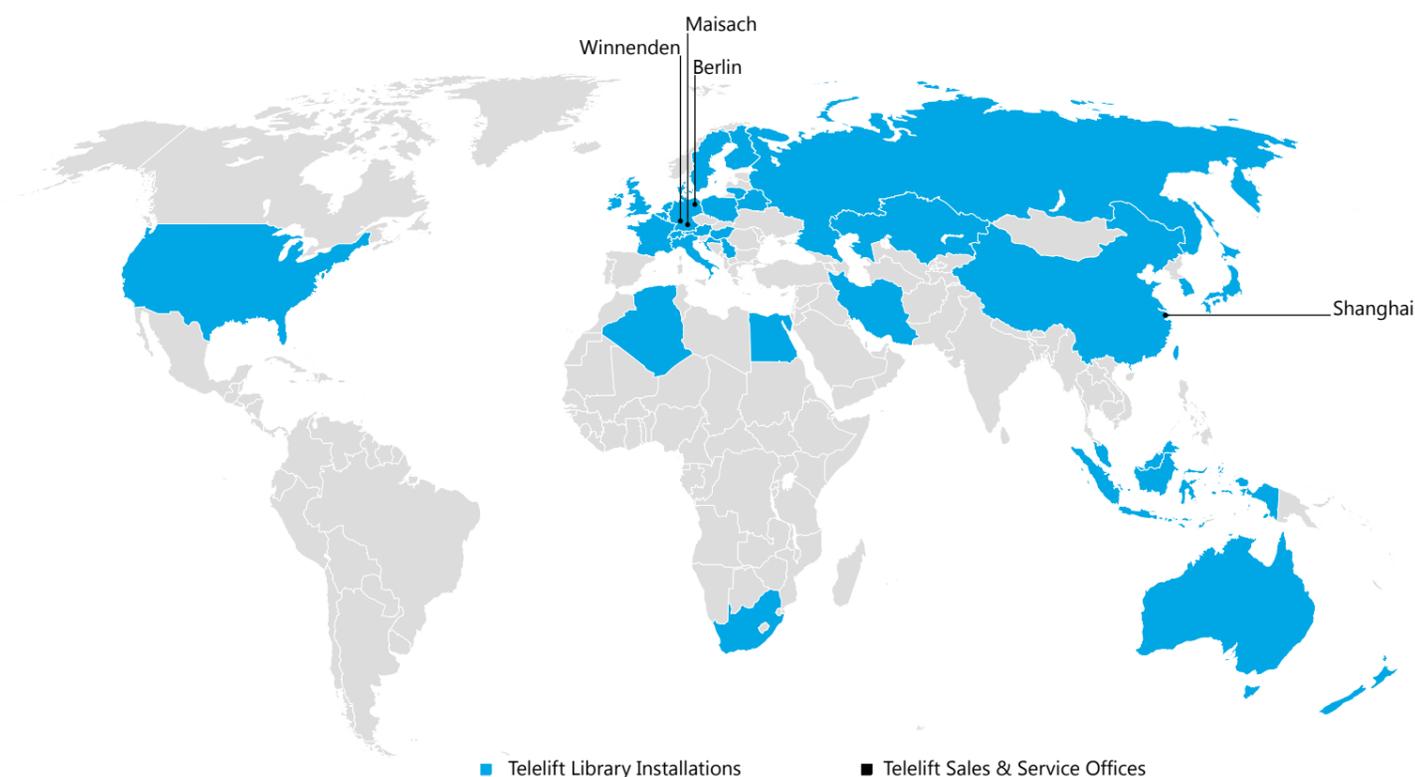
INTEGRATED SYSTEMS for all kinds of libraries and archives

LONG-TERM INVESTMENT SECURITY thanks to advanced technology

LIBRARY 4.0 THE FUTURE IS ALREADY IN SIGHT

Libraries are multi-media houses and modern educational and cultural centres these days, reaching out to children, young people and adults of all educational and cultural backgrounds. They provide free access to information, promoting research, science and life-long learning. In our digitised, networked society, libraries also convey the relevant media skills. Libraries are a Third Place, encouraging communication and encounter – they nurture cultural identity and are a force for social integration.

THIS MEANS that innovative library technology is more than ever a key factor. It helps libraries to focus on their valued role in terms of culture and education and meet growing demand in the context of digital transformation. Our future-oriented logistics solutions ease staff workload, making more time for other tasks. This means personal consultation, events and other on-demand services can be developed. Automation takes all media items back to their original shelf or stack location more quickly, making them available to go out on loan to users again more quickly.



AUTOMATED FROM RETURN TO BOOKSHELF

Intelligent components in conjunction with a sophisticated complete solution. An automated return machine takes media items back in a quick and easy process. Returned items are monitored and checked in the library management system. After check-in, books and CDs, etc. are sorted individually according to pre-defined categories and conveyed to the appropriate book trolley or UniSortCar™. The book is then transported to its final location in the library area or stacks: even to other floors – carefully, quietly and without any need to reload.

SUPERIOR FLEXIBILITY Working alongside architects and logistics professionals, the ideal system is designed to suit the requirements of your library within the available space. An optional number of automated return machines, sorting destinations and conveyor tracks can be linked together. Individual modules can be combined, offering maximum system flexibility. Thanks to the modular system structure and streamlined flexible routing, the perfect solution is individually tailored to the building and stated requirements. The number of UniSortCars™ to be included is determined by the required transport capacity.

USER FRIENDLY INTERFACE Users benefit from the modern and intuitive return points. Secured with RFID labels, library items can be returned in a single process. When users log in, the software provides useful additional information such as recommended reads and event promotions. Accounts are easy to view and manage in a few clicks. Staff benefit from a straightforward user interface, providing an overview of the entire routing system and car location from a special terminal or work place PC. The desired operating mode including UniSortCars™ in active or standby mode can be programmed in a short time.

+ OUTSTANDING!

THE LATEST returns and transport technology

PROFITABLE TEAMWORK by experienced specialists in the field

RELIABLE interfaces for returns and sorting systems

PROFESSIONAL project management: consultancy - planning – implementation

OPTIONAL 24/7 operation



INCREASED MEDIA USE due to efficient, optimised processes

RELIEVES STAFF of monotonous sorting and transport tasks

FREED RESOURCES enable expanded service and library offerings

ACCELERATED returns process

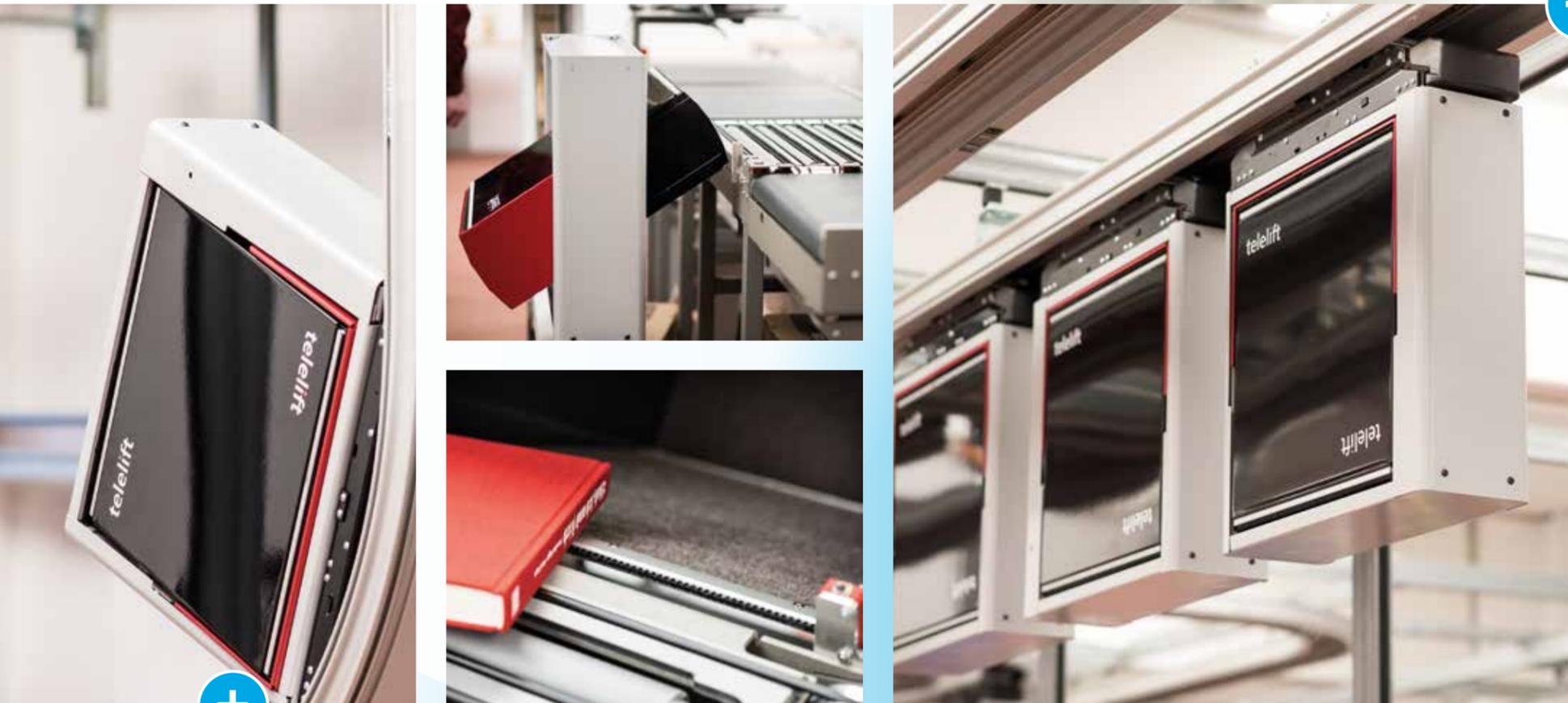
INTELLIGENT standardised tracking + tracing

SIMPLY SMART! The system controls everyday library processes completely automatically. Reserved items are sorted first and the rest sent onwards in seconds flat. Intelligent and reliable control combined with the right number of diverters deliver a high level of efficiency. It takes just a few seconds to unload onto a book bin or stacking cart when the UniSortCar™ reaches its destination, and it all happens autonomously. Empty UniSortCars™ return immediately to the first available sorting station, standing at a waiting position ready for the next media items to arrive. Processes are optimised by standardised tracking and tracing. This means that usage capacity, system performance and peak period buffer scenarios are easy to plan and control.

SINGLE MEDIA TRANSPORT HIGH-TECH DESIGN + LATEST FUNCTIONALITY

Books, CD/DVDs, AV media, illustrated books and periodicals: whatever media items you want to transport, the recently developed UniSortCar™ is suitable for all items, with its functional square format and stable fixing on the track. Media items travel along the sorting belt to the cars from any desired starting position. Individual items are transported safely thanks to an elastic inner coating. An electronic locking system protects the contents of the car from being removed during transport.

EVEN GREATER FLEXIBILITY! Loading and unloading is a controlled and reliable background process and can be automatic or manual from the left or the right side of the track. The UniSortCar™ can unload in both directions, offering more route variations. Once at the destination, up to twelve individual sub-destinations can be triggered. The UniSortCar™ takes just a few seconds at the sorting belt to take the book and send it on its way. Several cars are activated automatically at peak times. When returns are low the UniSortCars™ are parked in a special area ready to be called up.



OUTSTANDING!

- FUTURE-PROOF**, state-of-the-art system solution
- DURABLE** high-quality components
- NEW** UniSortCar™ can also be used with existing systems
- ENERGY-CONSCIOUS** operation
- 100 PERCENT** recyclable + toxinfree components



- QUICK, SAFE AND QUIET** item transport
- STREAMLINED**, flexible routing
- VARIABLE TRANSPORT OPTIONS:** horizontal, vertical and overhead
- AUTOMATIC** on-demand control
- HIGH-PERFORMANCE** fast transport

STREAMLINED DESIGN The colour of the car is timeless, elegant and goes well with any ambience. The tracks have a minimalist design and can be installed unobtrusively. All materials used are selected with the environment in mind and are robust and durable.

EFFICIENT COLLECTIVE TRANSPORT QUICK + SECURE FROM THE SHELVES TO THE DESK

If several media items need to be fetched from the stacks or taken to the archives at the same time, the practical UniSafeCar™ does the job quickly, safely and efficiently. In just few minutes spontaneous orders will be dispatched to the reading room or to the lending desk. And internal logistics are much quicker to complete. Staff can simply order a batch of titles directly to their work place if they need to be processed or digitised.

CAREFUL TRANSPORTATION The UniSafeCar™ is a particularly safe form of transport and is ideal for valuable historic manuscripts, prints, charts, early printed books, microforms and of course all modern types of inventory. Cars are loaded and unloaded by hand. They can transport up to 10kg and accept formats up to DIN A2. The container's cardan suspension system ensures that contents do not move if the car switches from vertical to horizontal or overhead mode. The soft rubberized container bottom of UniSafeCar™ also prevents media from sliding around.

INTUITIVE CONTROL The loaded car is selected on a touch screen terminal and sent to the desired destination via direct selection. If the equipment is linked to the library management system, a scanner can be used for automatically reading the item location, which is stored on the label. The sender can track the arrival on the terminal. At the same time, the recipient can see what and how many deliveries to expect. An audible and visual signal tells them when the car has reached its final station. Notification by SMS and email is also available.



OUTSTANDING!

- PROTECTIVE TRANSPORT** for valuable inventory
- ALL TECHNOLOGIES:** RFID, EM, barcode
- ELECTRONIC CAR ID** for position control
- PRECISE MONITORING** + highly secure
- LINKED** to fully automated stacks
- COMBINABLE** with UniSortCar™



- SPONTANEOUS** direct transport
- MANUAL LOADING** up to 10kg
- ALL FORMATS** up to DIN A2
- ACCELERATED** ordering processes
- FOCUSED CONTROL** via 10" touch screen
- TECHNOLOGY TRIED** and tested over decades





SPECIALIST ADVICE WITH AN EYE TO THE FUTURE THE KEY TO SUCCESS

Professional planning and design are vital for any installation to be successful. Architects and planning specialists are assisted by Telexift technology experts with the necessary knowledge for new builds, existing structures and listed buildings. They will methodically discuss issues such as current space requirements, the static load capabilities of the building and fire prevention. System performance, specifications, increases in efficiency and associated structural requirements are major aspects that Telexift can explain in the context of forward planning.

SUSTAINABLE SOLUTION FOR THE FUTURE The main objective is to design a modern facility that will last a long time and allow expansion or improvement at a later date if the need arises. Material flow analysis and differentiated ROI assessments provide information about the changing relationship between staff and energy costs before and after automation. The potential for saving money and financial write-offs can be identified in a targeted manner. With clever planning, greater use can be made of previously unused cellar or ancillary spaces, providing more room and a better user experience. This is a timely advantage, given the current trend of seeing libraries as a Third Place.

MODERN LOOK Apart from being a purely functional feature, the streamlined look of the tracks and cars can also work as a smart and playful design element. Sections of the route can be left visible to users, giving a secret glimpse of the progressive technology going on behind the scenes – something that will fascinate any library user. But it's also possible to hide the transport system completely behind suspended ceilings. Ceiling openings are very small and hardly noticeable. One thing is certain: this logistics solution always saves space. The static load for the building is minimal.



OUTSTANDING!

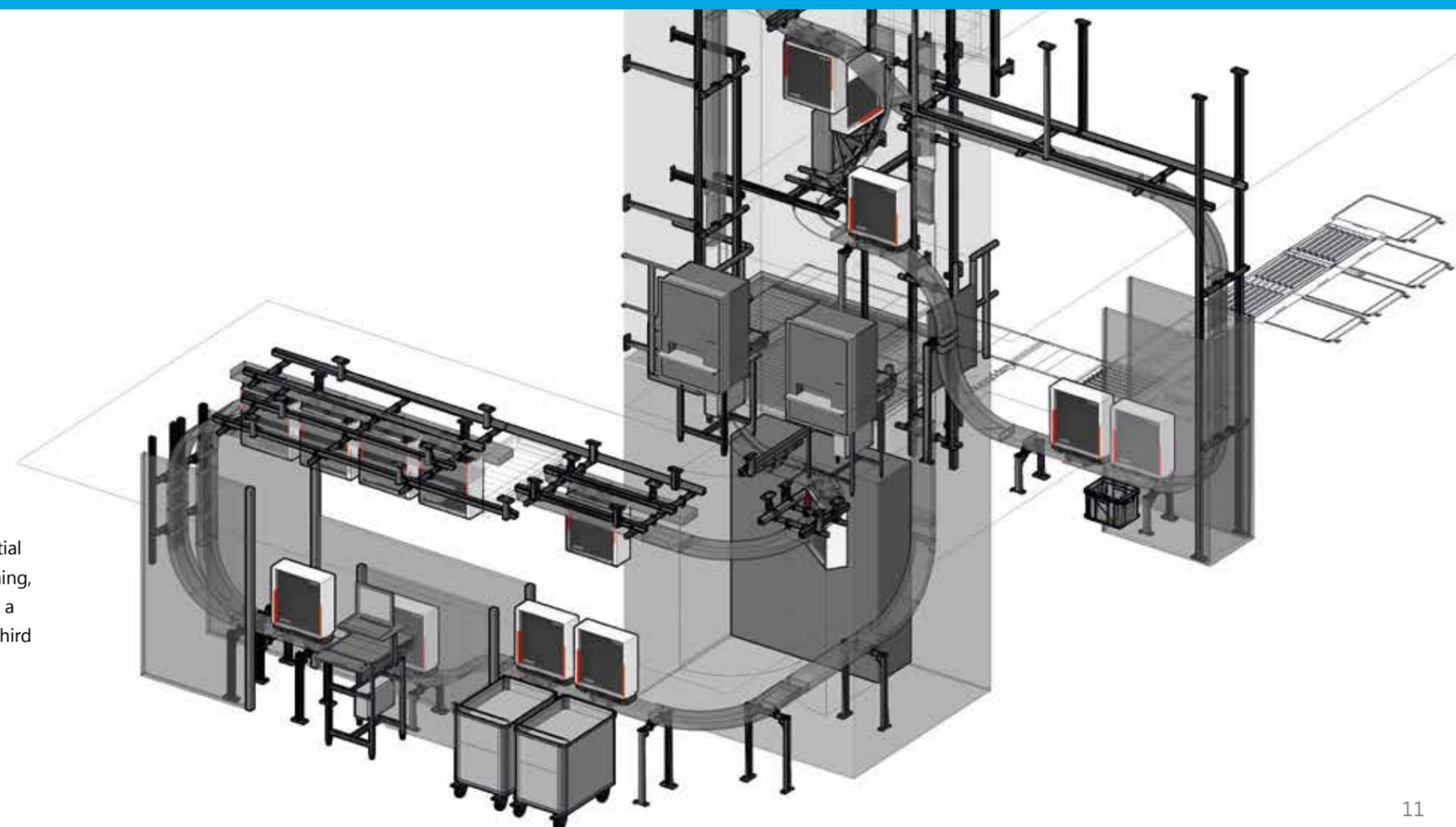
GERMAN ENGINEERING + Made in Germany

PROACTIVE ANALYSIS by specialists

BUDGET CONSCIOUS - ROI/material flow analysis

GREATER COMFORT and convenience experienced in the library

ATTRACTIVE APPEARANCE of technical design





PUBLIC LIBRARY STUTTGART, GERMANY

SINGLE ITEM TRANSPORT OVER EIGHT FLOORS

Hailed as a »cathedral of knowledge« in the press, the Public Library on Mailänder Platz houses over 530,000 media items in an area the size of three football pitches. It is one of the most modern libraries in Europe, and a hub of knowledge transfer, reflection, encounters and communication. Designed by South Korean architect Eun Young Yi and constructed in 2011, its atmospheric interior exerts a magnetic attraction: around 1.5 million people visit every year. It is open from 9 a.m. to 9 p.m. six days a week.

+ FACTS + FIGURES

2.54 MILLION loans per year

24/7 returns and sorting

70 UniSortCars™ in operation

8 floors + 44 sorting destinations

USERS HAVE ACCESS to four automated return machines. Items are immediately sorted via a conveyor belt into one of three media bins or individually into a UniSortCar™, which sets off right away. There are always several UniSortCars™ ready and waiting, ensuring rapid service. A total of 70 cars operate on 200m of track running over eight floors. On each floor, items are re-sorted at five specially designated distribution points – directly onto docked stacking carts or media bins.

+ FACTS + FIGURES

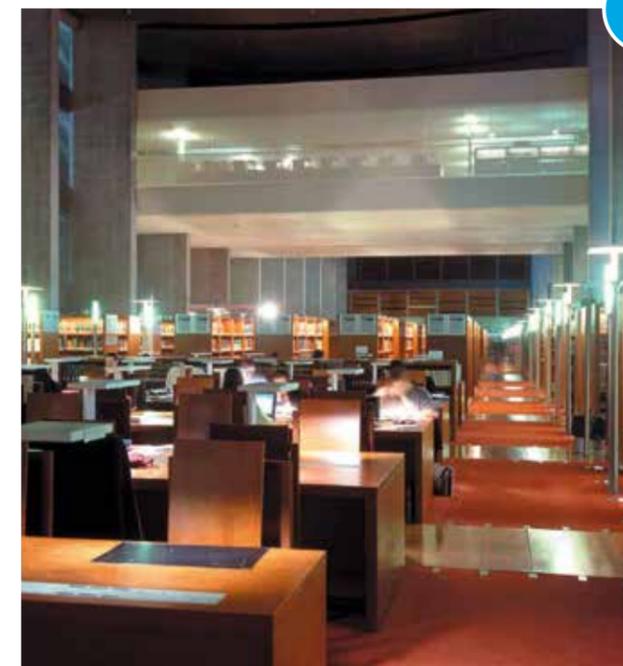
10 MILLION books and documents

3,000 collective journeys a day

355 cars in operation

200 loading stations on **8km** of track

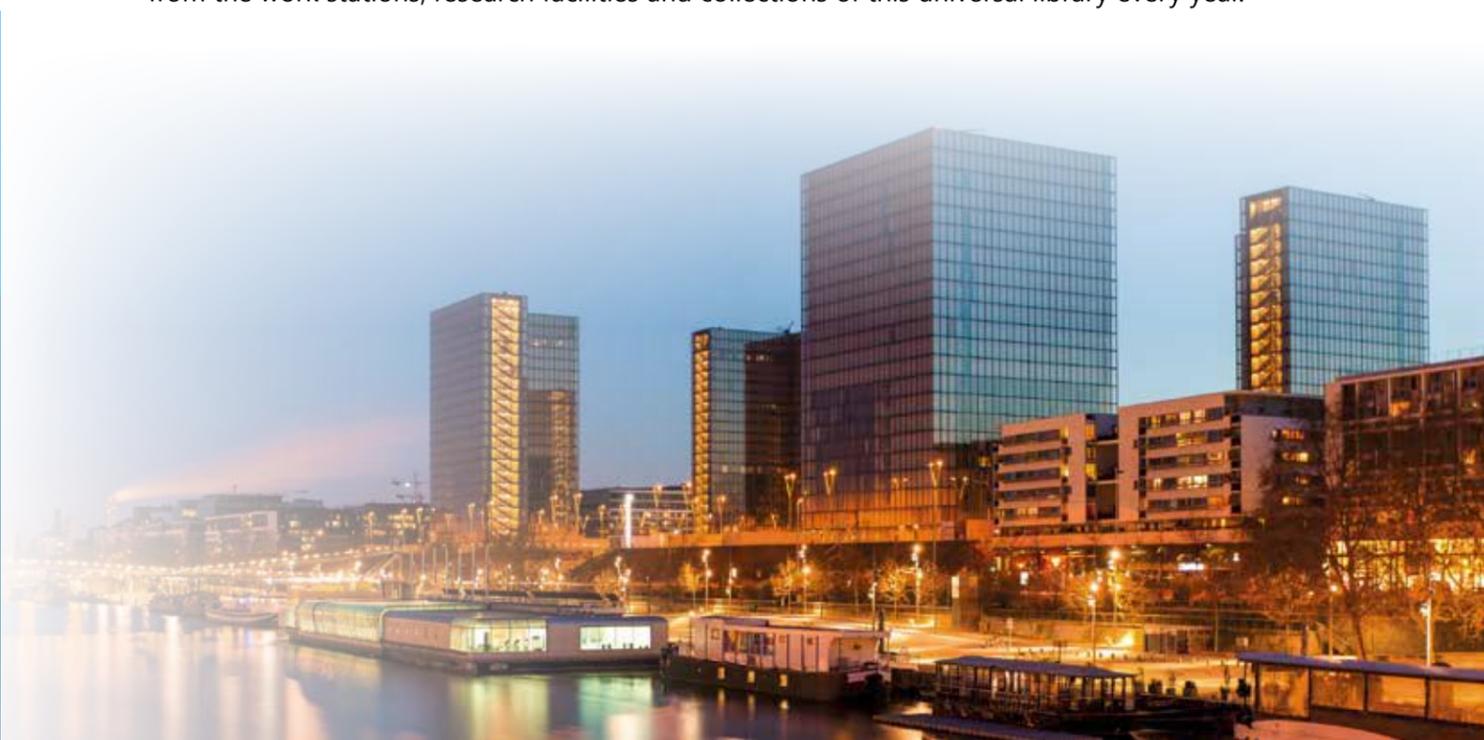
EXTENDING ACROSS every floor of the four stack towers, the archive logistics system is the biggest automated transport facility in Europe. A total of 355 cars operate on over eight km of track network, while 483 diverters ensure that cars always take the shortest route. On average, around 3,000 journeys are made every day, all carrying media. Loading and unloading takes place at 200 stations.



BIBLIOTHÈQUE NATIONALE DE FRANCE, PARIS

FROM STACKS TO READING ROOM IN THE BLINK OF AN EYE

Designed by Dominique Perrault and built in 1996, the spectacular Bibliothèque Nationale de France (BnF or Bibliothèque François-Mitterrand) is superlative on a number of fronts. The collections alone are unique in the world and extremely valuable: there are over ten million books, printed materials, manuscripts, engravings, photographs, charts and plans, music scores, coins, audio documents and much more. The BnF is said to house an inventory of around 30 million books and documents, making it one of the biggest libraries in the world. Over 800,000 scientists, students and general users benefit from the work stations, research facilities and collections of this universal library every year.

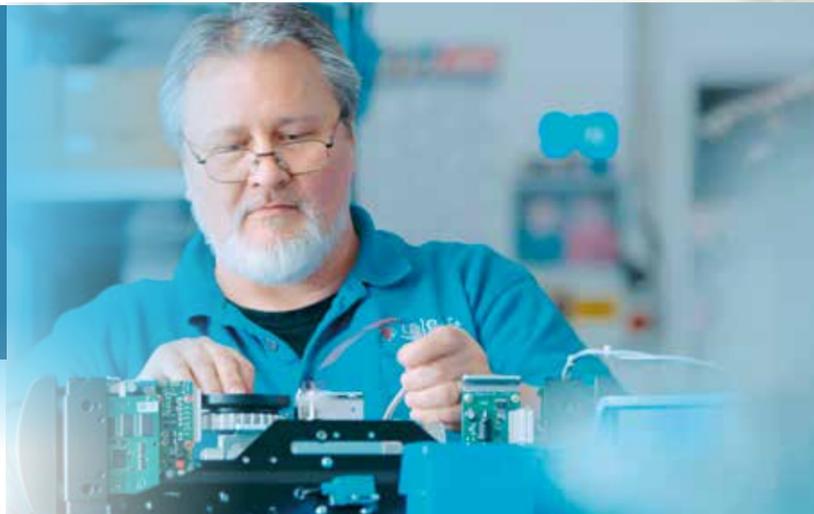


YOUR SERVICE + SUPPORT PARTNER QUICK, RELIABLE AND PROACTIVE

PROFESSIONAL MAINTENANCE and facilities management is an essential factor in terms of value generation for your system. We employ preventive maintenance to ensure that your transport facility is available at all times. Regular checks, cleaning and maintenance to the central system components carried out by our trained professionals minimise any down time and guarantee durability for the entire transport system.

NATIONWIDE SERVICE NETWORK

We respond to fault reports immediately – and round the clock. We can introduce initial measures via the remote access option. Our generous service network of qualified technicians means we can be on the spot very quickly. Where possible, repairs can be made while the system is still running.



MODERNISATION MADE EASY EFFICIENCY AT ALL TIMES

OUR TECHNOLOGY is future-safe because it is not just innovative, but open to adaptation and change, too. Demands on a production system usually become more complex over time and logistics processes change. So it is vital to stay on the ball, being quick to retro-fit existing systems to meet requirements – making them more flexible and versatile. With this in mind, we analyse your system data, identifying and evaluating the cause and effect of individual transport and sorting processes. This gives us a precise idea of if and when an upgrade (retro-fit) would be sensible.



OUTSTANDING!

- INCREASED PRODUCTIVITY** with minimal investment costs
- GREATER EFFICIENCY** e.g. through energy savings
- TRUSTED SYSTEM ENVIRONMENT** + no training requirement
- STABLE, BUDGET-CONSCIOUS** operating lifetime of basic system
- FUTURE-PROOF**



OUTSTANDING!

- PREVENTIVE MAINTENANCE** for seamless operation
- 24/7 NATIONWIDE SERVICE** for minimum response times
- RUNNING** repairs
- VERSATILE** maintenance models
- TRANSPARENCY** for annual running costs

SMART MAINTENANCE There are many different options for upgrading both hardware and software. Continuous advances in process technology mean that simply updating the control technology can reap rewards, for example. There are many reasons why a system update might be a sensible idea. Changes to performance requirements in terms of transport volumes, new logistics processes, newer functionalities and user-friendly add-ons and increasing maintenance costs may be relevant factors. But the same applies across the board: tailored advice and a customised design from us will provide the basis for seamless implementation.

LIFETIME PARTNERSHIP Our system solutions are famous for their longevity. We ensure that essential spare parts remain available for decades after installation. Specific improvements can be developed at any time on the basis of customer-specific fault statistics and diagnostics. If your own technicians take charge of maintenance and support, we can provide them with the essential know-how through training sessions.

QUALITY PROVIDED BY STANDARDS Telelift is built on over 50 years of experience. The company is DIN ISO 9001:2015 certified, ensuring continuous quality assurance and optimised, process-oriented quality management. All products are produced in Germany and are standardised. Open interfaces enable seamless and secure connection to third-party systems.

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