



AIRPORT LOGISTICS SOLUTIONS

We create
space and time





WE CREATE SPACE AND TIME


The success of airport logistics depends on the speed of the workflows and the reliability of the processes.

The systems designed by Lödige for reliably handling any amount of cargo and baggage at airports take cycle times to a new dimension. We combine proven technology, innovative processes and intelligent workflows to ensure success, guaranteeing faster handling, efficient space utilisation, and the highest levels of availability.

With over 77 years of experience and the constantly increasing expertise of our specialists, we guarantee optimal handling and secure workflows around the globe – 365 days a year, 24 hours a day.



OVERVIEW OF AIRPORT LOGISTICS SOLUTIONS:

 <p>AIR CARGO Systems and individual components for cost-efficient transportation, storage and build & break of unit load devices and consignments. > P 04 – 11</p>	 <p>CATERING LOGISTICS Systems for handling, storing and cooling in-flight catering that are efficient in terms of space, time and cost. > P 14 – 15</p>	 <p>GLOBAL REFERENCES Some of the successful projects executed with the help of Lödige's expertise. > P 18 – 19</p>
 <p>ULD HANDLING Autonomous and intelligent transportation of ULDs with automated guided vehicles. > P 12 – 13</p>	 <p>SERVICE AND MODERNISATION Customised service and maintenance packages. Permanent availability and optimised performance thanks to scheduled maintenance, servicing and modernisation of your assets. > P 16 – 17</p>	

The world's tallest ETVs, featuring four impressive 43m units, are setting the standard in the industry.

This fully automated system boasts an exceptional peak daily loading capacity of up to 4,000 tons.

Asia Airfreight Terminal (AAT) at Hong Kong International Airport.

Freight handling facility of Lufthansa Cargo, JFK Airport New York

NOT A SECOND LONGER THAN NECESSARY ON THE GROUND

We make sure your cargo business is profitable. System solutions from Lödige ensure optimised turnaround performance and generate real time benefits – so your aircraft can earn money.

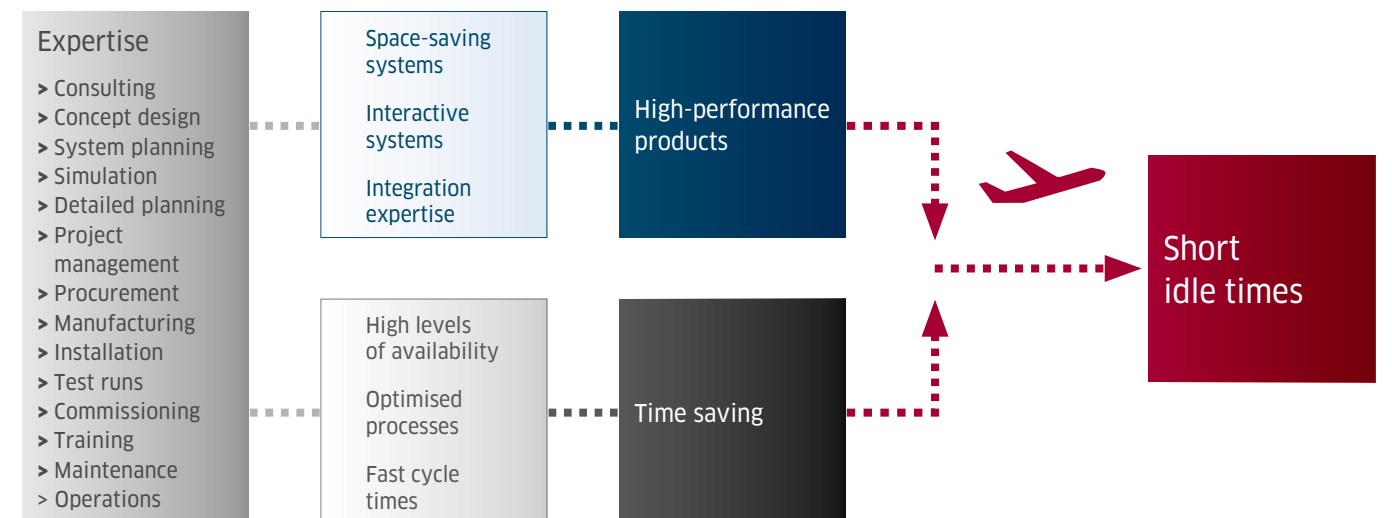
In addition to the fleet, the biggest investment facing air cargo business is the construction of air cargo terminals. The best possible handling facilities have to be provided on limited space to sustainably ensure the cost efficiency of the fleet. After all: aircraft are there to fly, with the highest load factors possible!

This calls for the strength of the market leader: Since 1975, Lödige has been implementing air cargo handling systems on all scales imaginable. A recognised innovator, Lödige brought the Lift and Run Terminal concept to the market in the 1990's, dramatically increasing the efficiency of mega cargo terminal design. We help you to identify the optimal solution for your throughput and capacity requirements.

Automatic ETV ULD Handling System

SMARTIST cargo hub of Turkish Cargo at Istanbul Airport

OPTIMISED WORKFLOWS FOR A QUICKER TAKE OFF:





Lödige FlexLoader:
The mobile
all-rounder for
ULD handling



FLEXIBLE OPTIMISED PROCESSES

We offer a comprehensive range of conveying equipment. The flexible equipment and special machinery deployed by Lödige make working in HUBs particularly efficient and reliable. The modular design of the integrated components enables customised system planning and rapid responses to changing conditions.

Pallet Mover
with Mobile Work-
station



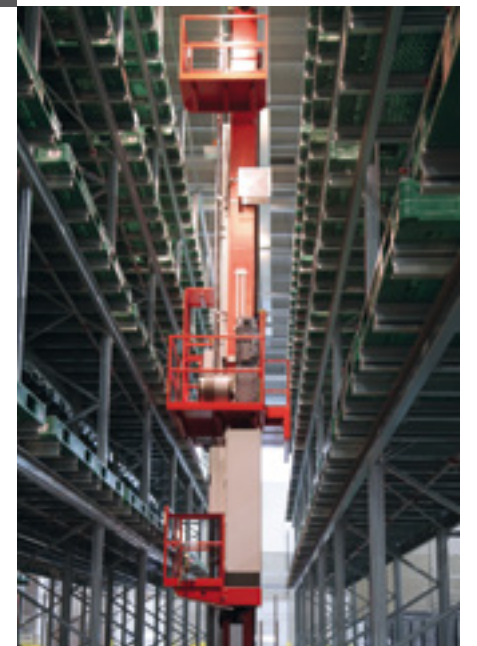
Automated Storage
& Retrieval System



Stacker crane



Lödige pallet
(1,700 x 1,700 mm)

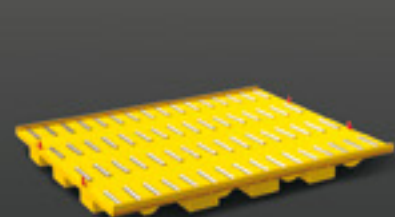




CARGO OPTIMISED MOVEMENT

Combine mechanised and manual solutions for handling and storing air cargo according to your requirements. Products are designed specifically for air cargo and optimally support standard cargo units.

Conveyor systems have to hold up in the rough cargo processing environment. For decades, Lödige's terminal equipment has been proving its performance capabilities in cargo facilities worldwide, and helping our customers around the globe to turn their cargo around quickly, safely and efficiently.



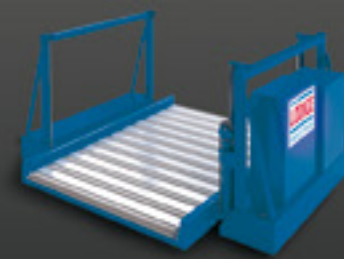
1 ULD SUPPORT PALLET

The basis for moving cargo, even in non-mechanised terminals. The pallet is mounted on 16 rollers to ensure the safe handling of ULDs.



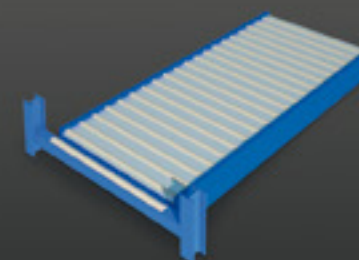
2 CARGO PALLET MOVER

The Cargo Pallet Mover is an electrically operated floor conveyor for transporting ULD Support Pallets. It is powered by a battery and has a lifting unit for elevating pallets. Three forks ensure the ULDs are transferred safely. This means ULD Support Pallets can be moved throughout the building quickly and easily.



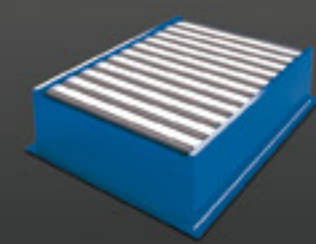
3 FLEXLOADER

The FlexLoader merges the functionality of a truck dock and a pallet transporter. It is remote controlled and battery operated, making it particularly flexible. Its freely steerable drive system allows it to move in any direction. The FlexLoader has an integrated lifting function, which makes it possible to pick up and set down ULDs and pallets from different heights.



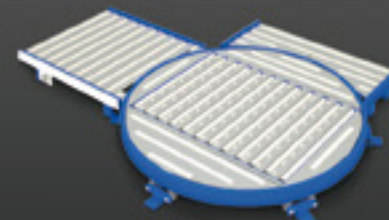
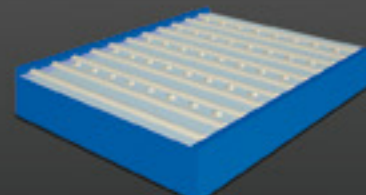
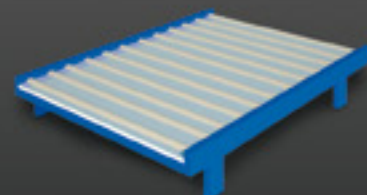
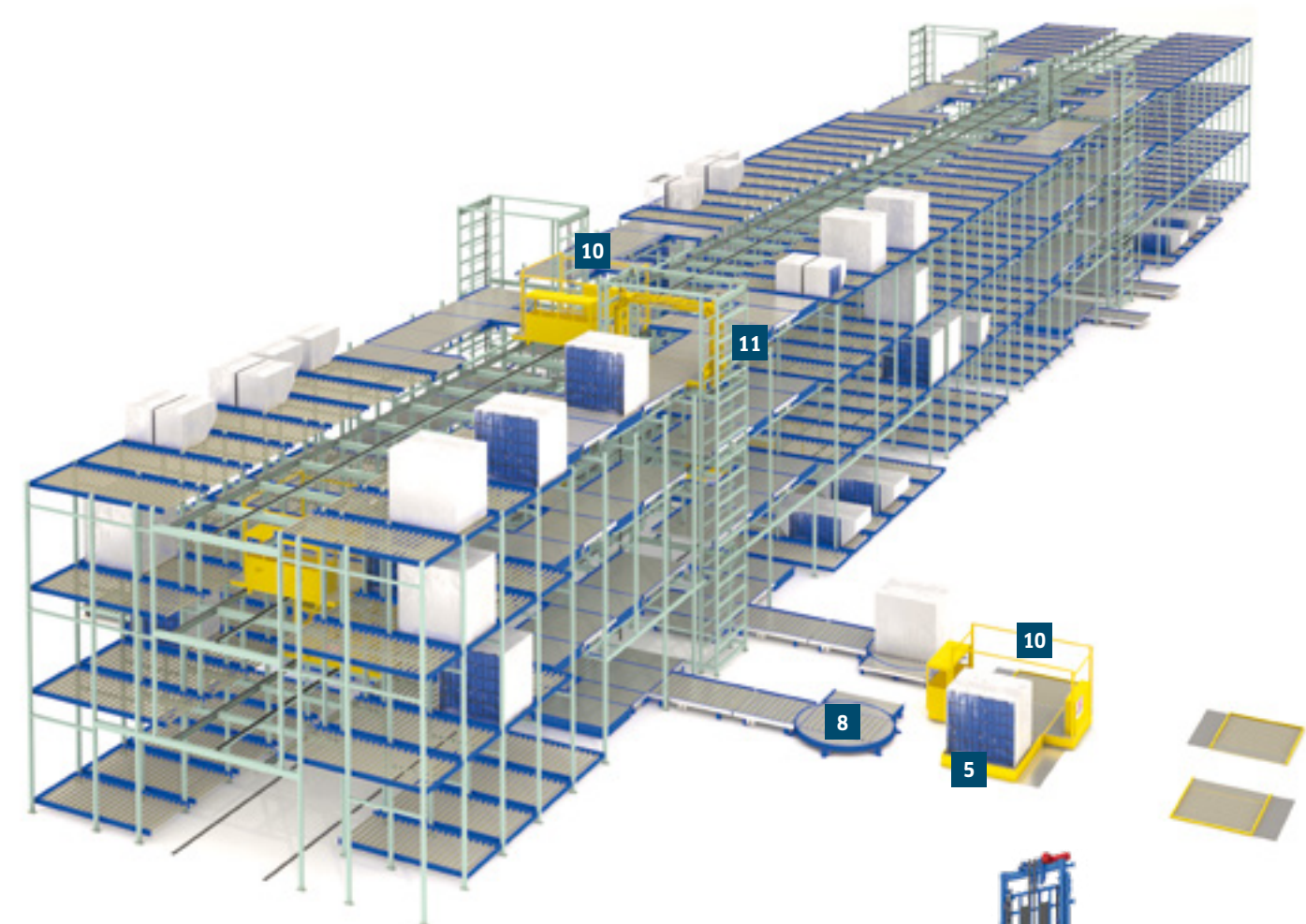
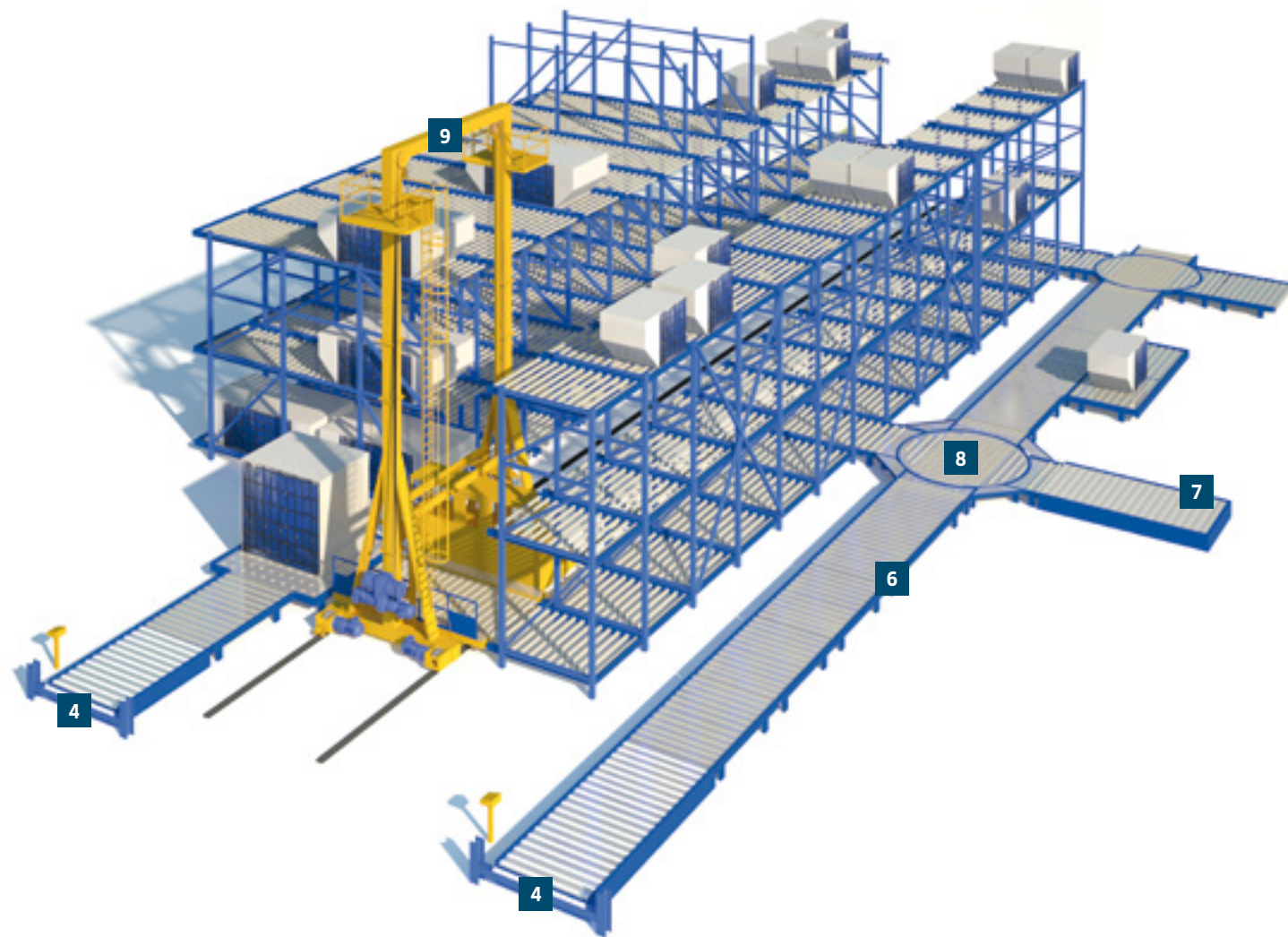
4 TRUCK DOCK

The truck dock facilitates the loading and unloading of air cargo units onto and off trucks. Equipped with a hydraulic lifting unit and a vertical shift function, the truck dock aligns conveyor elements to the truck loading ramp. ULDs or pallets are transferred horizontally by a powered roller conveyor.



5 WORK STATION

Work stations from Lödige are working platforms that enable ergonomic performance of build and break activities. The work station lowers the ULD to the optimum preferred height for ergonomic loading and unloading. The work station can be manufactured in different configurations to meet specific needs.



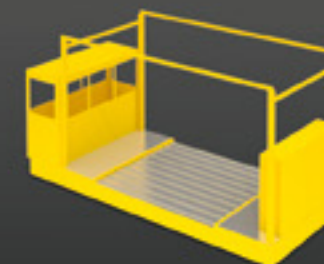
6 ROLLER DECK
The roller deck is used to transport ULDs in a single direction on a horizontal plane and is combined with other elements to create an overall system.

7 RIGHT ANGLE DECK
Changes the direction of travel of ULDs by 90 degrees by combining two conveyors in a single unit.

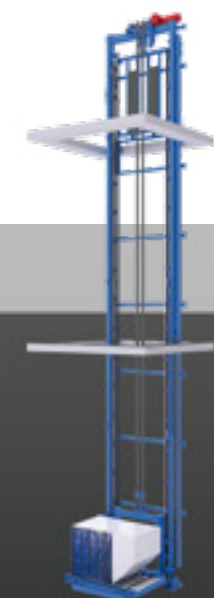
8 TURNTABLE
Allows the ULD to be aligned according to preference.



9 ELEVATING TRANSFER VEHICLE
This storage and retrieval vehicle is used for storing ULDs in racks. Equipped with a lift, the vehicle transports ULDs vertically and horizontally at the same time. It runs on rails which also supply the power needed.



10 TRANSFER VEHICLE
The transfer vehicle is used for transporting cargo horizontally on a single level. The individual loading units are moved on and off the racking by interconnecting the integrated roller conveyor with external roller decks. As well as transporting ULDs which can take up the entire surface of the roller deck, it is possible to transfer two containers simultaneously.



11 HOIST
Hoists connect the different levels of an air cargo terminal.

The intelligent AGV from Lödige has won the "Air Cargo Technology Provider of the Year" award at the Payload Asia Awards 2022.

Always on time!

Automated ULD delivery

INTELLIGENT TRANSPORTATION AUTOMATED GUIDED VEHICLE

Lödige Industries is revolutionising the response to current challenges in air cargo handling with the introduction of intelligent automated guided vehicles (AGV) for flexible and scalable ULD transportation. As integral element of fully automated cargo terminals, our new AGVs provide the link between import/export areas and build & break workzones as well as automated storage and retrieval systems. In manual terminals, they can enable cargo handlers to take the first step towards the benefits of automation.



MAXIMUM FLEXIBILITY FOR YOUR CARGO TERMINAL

Quickly and easily route transportation inside your terminal. Assign routes via your warehouse management system (WMS) and free personnel for other tasks. Reduce stationary equipment and create flexible, scalable and reliable cargo flows.

OPTIMUM ACCURACY & EFFICIENCY

The data-based intelligence of our AGVs enables absolute accuracy and complete control over cargo flows. Reduce the potential for ULD damage, enable 24/7 operations and free workforce for higher value tasks.

KEEPING COOL WHEN THE GOING GETS HOT

The cycle time for loading in-flight catering is 15 minutes. The food and drink not only has to be first sorted quickly and efficiently by passenger class; it also has to be cooled consistently and cost efficiently.

Lödige has developed a compact storage and transportation system that relieves the burden on airport kitchens in every respect. The trolleys, transport containers and frames are stored in specially designed elevator towers where preliminary sorting takes place and the food is also cooled at the same time. As such, it is only the tower, and not the building, that has to be cooled to storage temperature. Space saving, efficient, and with a high throughput – the perfect supply system.



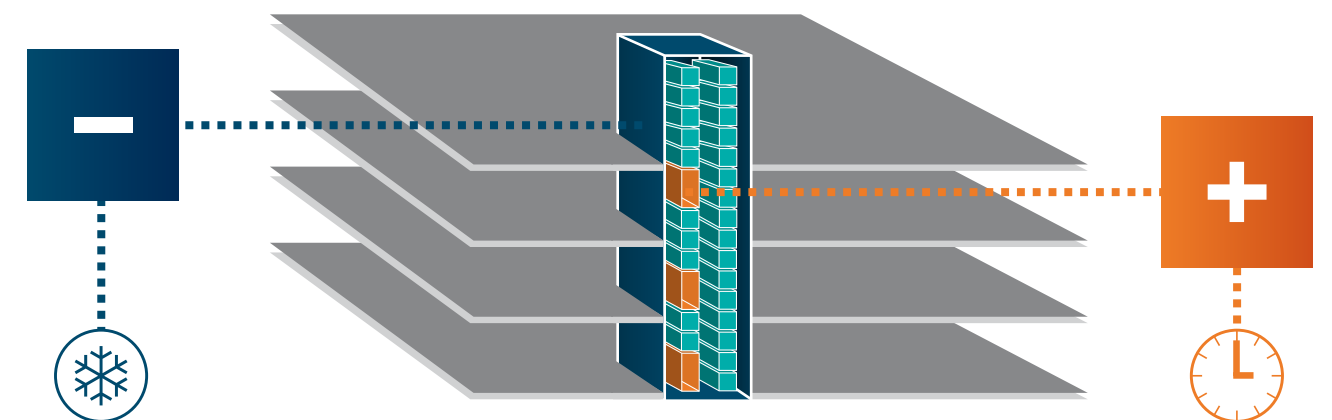
Typical array
of temperature
controlled Trolley
Towers.



SPACE TOWER
forms an integral
part of the
production process.



SPACE TOWER - THE PERFECT COOLING AND TRANSPORTATION SYSTEM



LESS REFRIGERATION SPACE
Only the storage towers are cooled,
which lowers unit costs.

MORE TIME, MORE PROFIT
Time-saving preliminary sorting of the trolleys,
transport containers and frames increases
throughput and efficiency.

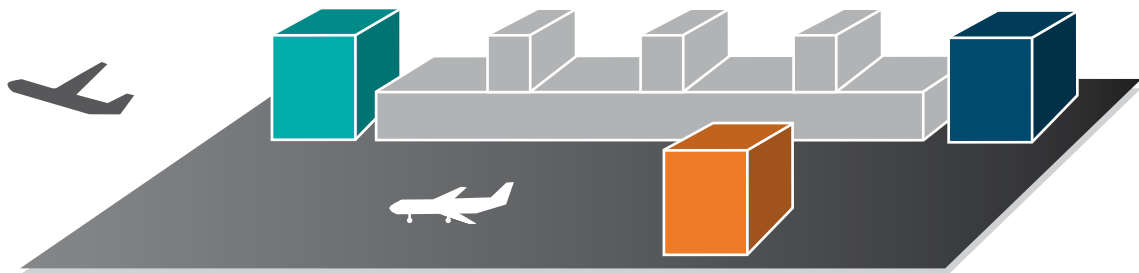


24/7 Lödige
Remote Assistance

Professional Service
on the highest level



ALWAYS THERE WHERE WE ARE NEEDED



Operation	Maintenance	Modification / Modernisation
Host interface management	System check	Upgrade
Work planning	Preventive maintenance	Extension
Operator supervision	SLA improvement	Relocate
	24/7 Remote Control Centre	

ALWAYS AT YOUR SERVICE

Systems designed by Lödige are renowned for the highest levels of availability. In addition to the engineering quality and redundant design, our comprehensive preventive maintenance concept ensures added safety. We operate service centres around the globe and very close to the logistics centres of our customers to ensure our ability to respond immediately when problems arise.

Depending on the maintenance contract, the services provided by Lödige range from maintenance, modernisation and repairs to individual assets, right up to monitoring and modernising entire air cargo systems.

Lödige maintenance organisations are typically located close to international cargo hubs worldwide. Our full service contracts guarantee the highest availability of cargo handling systems and are mediated at the lowest possible cost.

Our local teams are backed up by international experts such that no problem is too difficult to solve and no part impossible to obtain.

Lödige Service
Technicians
are available
worldwide.



OVERVIEW OF SERVICES

MAINTENANCE

Customised maintenance strategies ensure the safety and value preservation of individual assets and systems. Multi-level maintenance contracts enable you to adapt the maintenance of your assets in accordance with your specific requirements.

REPAIR AND SPARE PARTS

Our regional proximity enables us to respond quickly when problems arise and repairs are needed.

MODIFICATION AND MODERNISATION

Lödige Service offers you a whole host of options for adapting your assets to changed work conditions and for bringing them in line with the current state of technology.

CUSTOMER CARE CENTRE

We offer 24/7 remote monitoring for all Lödige products. Errors in the system can be detected quickly via remote diagnosis and in many cases corrected directly from the control centre without having to resort to a local technician.



Cargo terminal
of Swissport,
Frankfurt,
Germany



SMARTIST
cargo hub of
Turkish Cargo,
Istanbul,
Turkey

MORE THAN 28M TONS OF AIR CARGO

handled annually by Lödige Industries
systems around the world.

GLOBAL PRESENCE – LÖDIGE INDUSTRIES




EXAMPLES OF REFERENCES

- **AAT Asia Airfreight Terminal, T1 & T2 & Coolport**, HKSAR, China (2004, 2017, 2021)
- **Alibaba Cainiao Smart Gateway**, HKSAR, China (2021)
- **Cathay Dining** (formerly known as Cathay Pacific Catering Services), HKSAR, China (2004, 2017)
- **Eastern Air Logistics, T2 & T3 & T4**, Pudong, Shanghai, China (2018, 2020, 2022, 2024)
- **Southwest Air Catering Co Ltd**, Tianfu, Chengdu, China (2019)
- **Tianfu Cargo Terminal**, Chengdu, China (2020)
- **dnata**, Singapore (1979, 2013, 2016, 2021)
- **SATS, T2 & T3 & T4 & T5**, Singapore (1992, 1994, 2009, 2015, 2017, 2019, 2021)
- **TNT**, Singapore (2008)
- **SCSC**, Ho-Chi-Minh, Vietnam (2009, 2022)
- **MASKargo Malaysia**, Kuala Lumpur, Malaysia (2010)
- **dnata**, Amsterdam, Netherlands (2022)
- **Swissport**, Frankfurt, Germany (2019)
- **Turkish Airlines**, Istanbul, Turkey (2017)
- **Finnair Cargo**, Helsinki, Finland (2017)

and more.....


Founded in 1948, Lödige Industries is headquartered in Warburg, Germany. Today we have more than a thousand employees in Europe, Asia, the Middle East and the United States.


Lödige Industries supplies solutions for a broad range of industries and specialises in providing complex material flow systems for logistics tasks.

 **SMART CITY SOLUTIONS**
Innovative parking and last mile delivery solutions for urban living spaces.

 **AIRPORT LOGISTICS**
High-performance logistics solutions from the market leader.

 **INDUSTRIAL LOGISTICS**
State of the art systems for automated handling of goods and merchandise.

 **LIFT SOLUTIONS**
High-performance lift solutions for goods and passengers.

 **LIFE CYCLE SERVICE**
Global excellence in service, support and maintenance.

DISCOVER
MORE



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