LÖDIGE INDUSTRIES

THE SPECIALIST FOR COMPLEX LOGISTICS SYSTEMS AND MACHINERY

As a specialist for logistics systems and lifts, the German company Lödige Industries has been helping companies from a whole range of industries since 1948.

Our solutions and services are very broad and range over different application areas. The key to our success is our expertise in mechanical engineering, system integration and service, which is integrated into every thing we do.

Lödige Asia, a wholly-owned subsidiary of Lödige Industries, has been bringing the strength of the Lödige Industries Group to Asia with local focus on its clients’ needs.

Lödige Asia is headquartered in Hong Kong and supported by its offices in Singapore, Kuala Lumpur, Beijing and Sydney, which makes us well placed to meet all material handling requirements throughout the region.

With a local team of over 200 technicians, engineers, project managers and material handling system experts we bring the traditions of German engineering to Asia. By integrating local skills and components with high performance precision equipment manufactured in Germany, we deliver integrated material handling systems that combine the highest levels of quality at the lowest cost.

Through our global network of regional locations we ensure that you can always access our pooled expertise quickly. Lödige Asia provides quality and expertise you can rely on, for projects both large and small. Our aim is to achieve maximum quality in all areas.
SYNERGY FROM EXPERTISE

Our group’s local presence means we are never far away from our customers.

Expertise in engineering, system integration and service, for solutions to meet your needs.

A quality management system delivering consistent product and service quality worldwide.

Global personal management of your projects by experienced specialists.

Our group’s international knowledge transfer: benefit from the Lodige Group’s expertise across all sectors.
AIRPORT LOGISTICS FROM THE MARKET LEADER

HIGH THROUGHPUT TECHNOLOGY

Lödige develops systems and machinery for reliable cargo and baggage handling. We combine established technology, innovative methods and intelligent processes into a model for success: greater speed, less space and maximum availability.

OUR SOLUTIONS:

CARGO HANDLING
Systems and individual components for cost-efficient transportation, storage and build & break of air cargo units and consignments.

EXPRESS HANDLING
High-throughput and space-saving logistics systems for handling express parcels at airports.

BAGGAGE HANDLING
Intelligent solutions for efficient baggage sorting and process-reliable loading of baggage in ULDs.

AIRCRAFT MAINTENANCE
Automated handling of stored aircraft parts and tools, and working platforms, lifting and lowering equipment for aircraft maintenance.

CATERING LOGISTICS
Systems for storing, cooling and moving catering carts that are efficient in terms of space, time and cost.

WWW.LODIGE.ASIA
AAT’s Terminal 2 at Hong Kong International Airport is designed to handle 910,000 tons of cargo per annum. Lödige Industries designed, installed and commissioned the fully automated material handling system at the heart of the building. In addition, Lödige provides maintenance services 24/7 through a dedicated on site team. AAT Terminal 2 contains the worlds tallest ETV’s, designed and manufactured by Lödige, handling ULDs weighing up to 6.5 tonnes, to a height of 43 metres, fully automatically.

REFERENCE | ASIA AIRFREIGHT TERMINAL (AAT), HONG KONG

Air Cargo Handling
(ANA Cargo Terminal, Tokyo, Japan)

Lödige SpinSorter
Express Handling

Slave Pallet Mover
Cargo Handling
(SCSC Terminal, Vietnam)
REFERENCE | FULLY AUTOMATED CAR PARK SYSTEM, DOKK1, AARHUS

Automated Car Park System with 1,000 parking spaces for the new library and community center “DOKK1” in Aarhus (Denmark). Lödige’s turn-key scope of works included system design, manufacturing and supply of mechanical and electrical equipment, steel and concrete works, transfer cabins as well as payment, IT and supervisory control systems.
SPACE-SAVING AND SAFE
A NEW LEVEL OF PARKING FREEDOM

Lödige Industries’ park and hide principle supplies state of the art parking solutions for requirements of just one car up to many thousands. Expensive ramps and slopes that take up a lot of space are now a thing of the past.

OUR SOLUTIONS:

1 | CAR SCISSOR LIFT MAGUS®
Space-saving parking solution suitable for one or two cars. Completely integrated into driveways or front-/back yards.

2 | CAR LIFTS PEGASOS & TRAFFICO®
Car lifts for the transport over 2 to 15 levels or more. PEGASOS (2a) requires particularly small installation dimensions. TRAFFICO® (2b) offers convenient and customisable user operations.

3 | CAR PARK SYSTEM
Fully automated car park systems based on the latest technologies. Enable efficient, comfortable and space-saving parking for 50 to over 1,000 cars.
Lödige has been a specialist designer and producer of goods lifts for many decades. Our solutions include the transport of goods, cars and passengers in industry, retail and logistics. Since 1948 we have been producing lifts using state of the art technologies resulting in machines renowned for their reliability.

OUR SOLUTIONS:

1 | OLYMPUS SERIES GOODS LIFTS
Standard goods lifts with extensive range of designs for loads up to 15 t.

2 | SHERPA® GOODS LIFTS
Ideal for transporting goods up to 3,000 kg in storage and production areas. Simple installation due to self-supporting steel shaft structure and no need for a pit or machine room.

3 | SPECIAL SYSTEMS
Goods lifts for customised applications: e.g. scenery lifts for theatres, lifts with a nominal load over 25 t etc.

WWW.LODIGE.ASIA
The automotive production industry is continuously optimising and modifying its production lines to suit changes in market demand and needs. Lödige goods lifts provide easy expansion of warehousing operations by easily integrating into existing buildings, without the need for major refits.

Lödige Asia delivered four SHERPA® goods lifts with access for persons to BMW’s Shenyang plant in 2009 and 2012. (Travel height: 5.4 m, Nominal load: 1,000 kg, Cabin dimensions (W x D x H): 1,500 x 1,500 x 2,000 mm).

SHERPA® with ESCORTA option

REFERENCE | BMW BRILLIANCE AUTOMOTIVE, SHENGYANG, CHINA

LÖDIGE INDUSTRIES
EFFICIENT ON ANY SCALE
LOADING TECHNOLOGY FOR THE TOUGHEST REQUIREMENTS

Safe and time-saving loading becomes particularly efficient with Lodige’s tried and tested technology. Depending on customer requirements, we provide compact solutions with low height through to high performance systems for loads up to 100 tons. In this way, we also lift entire lorries to a height of up to 15 metres with ease.

OUR SOLUTIONS:

1 | SMALL CLASS
The scissor lift tables in the Small Class are offered with a lifting height of 900 mm and in two platform sizes 1,400 x 850 mm and 1,700 x 1,200 mm.

2 | MIDDLE CLASS
The scissor lift tables in the Middle Class are offered with a lifting height of 1,800 mm and lifting capacity of 6,000 kg.

3 | HEAVY CLASS
Heavy Class products are designed for loads weighing up to 100 t and elevations of up to 15 m.

4 | INDIVIDUAL SOLUTIONS
Special products for special applications.

WWW.LODIGE.ASIA
Space is tight in Amsterdam city centre. Since the modernisation of the “Stadsschouwburg Amsterdam” theatre, scenery is transported over several floors using two Lodige Lorry Lifts.

**Outdoor system: Extended Atlas**
- Load capacity: 20 t
- Lifting height: 11.5 m
- Platform dimensions (L x W): 13.6 x 3.9 m
- Feature: double-deck

**Indoor system: Giant**
- Load capacity: 24 t
- Lifting height: 5.3 m
- Platform dimensions (L x W): 16.5 x 7.8 m

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**REFERENCE | STADSSCHOUWBURG AMSTERDAM**

**Heavy Class**
**Extended Atlas (LorryLift)**
(Stadsschouwburg Amsterdam)

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**Truck Dock**
(Asia Airfreight Terminal, Hong Kong)

**Truck Dock**
(SCSC, Ho Chi Minh City, Vietnam)

**Loading Scissor Lift**
(ANA Cargo Terminal, Tokyo, Japan)
The storage and retrieval machine was made and installed by Lödige Industries for the customer ICM Airport Technics at warehouse of Den Norske Opera Oslo.

(Lifting height: 17.75 m, Nominal load: 5 t, Platform size (L x W): 9,400 x 3,500 mm)

**REFERENCE | OSLO OPERA HOUSE**

360° tilt mechanism for organic waste containers

Conveyor system for waste management (NUKEM Technologies)
POOLING KNOWLEDGE

EXPERTISE IN CUSTOMISED SOLUTIONS

Where customised engineering solutions are required, Lödige is the right choice. We carefully analyse your requirements and develop the right solution for you, to optimise handling and material flow. Our expertise is your success!

SUMMARY OF SOME BESPOKE SOLUTIONS:

- Storage and retrieval machines for especially heavy or odd-shaped loads
- Systems for dismantling nuclear power plants
- Converyer system for waste management
- Can Traversing Units (CTU) for manufacturing chemical fibres
- 360° tilt mechanism for organic waste containers
- Converyer system for transporting goods onto passenger ships
- Mounting platforms
- Zinc pot lifting table
- Belt winder

Zinc pot lifting table
PERFECT MATERIAL FLOW

INTRALOGISTICS, REDUCING UNIT COSTS

We work closely with our customers to plan and simulate conveyor solutions and then turn them into profitable turn-key systems. Make use of our cross-sector expertise to improve your internal goods and material flow and increase your system’s performance to permanently reduce your operational costs.

OUR SOLUTIONS:

1 | MATERIAL HANDLING SYSTEMS
Systems for automated material flow optimisation of goods and material throughput.

2 | STORAGE SOLUTIONS
Storage solutions for pallets, cages, containers, long materials, coils or special goods.

3 | ORDER-PICKING SYSTEMS
Powerful solutions for large and heavy items, up to 3 level order picking in the fully automated system.

4 | PRODUCTION LOGISTICS
Efficiently linking production processes – individual solutions for smooth-running processes in the production.

5 | DESIGN & PROJECT PLANNING
Concept development through data collection and analysis, material flow analysis, operation concept, simulation, evaluation of optimisation approaches and detailed planning.
Automated storage and retrieval system of cabs
(MAN AG)

Material handling system
(BMW Group, Workshop Dingolfing)

OUR SERVICE IS YOUR VALUE ADDED
Lödige Industries operates worldwide with regional subsidiaries. We offer solutions from a single source: consulting, planning, construction, manufacturing, installation, commissioning and maintenance.

REFERENCE | JELD-WEN, MITTWEIDA
Complete design package: Lödige Industries supplied a fully automated order picking and storage system for the door manufacturer Vest-Wood (formerly Pfleiderer) in Germany.

With the system, doors are automatically sorted, stored, order picked and prepared for dispatch. A service agreement with Lödige Industries permanently guarantees uninterrupted availability.

Real-time simulation
process flow in a storage system

Automated storage and retrieval system of cabs
(MAN AG)
REFERENCE | ASIA AIRFREIGHT TERMINAL, HONG KONG

An air cargo system with 1.5 million tonnes annual tonnage capacity consisting of fully automated ULD and ASRS System. Mapping of processes, including air cargo tracking, multi-step build & break handling, landside acceptance / delivery planning, deadline of airside supply.
PERFECTLY NETWORKED
FOR THE SMOOTH FLOW
OF INFORMATION

Our team of project and software engineers works on developing efficient software systems to optimize your work processes.

Lödige Enterprise Suite 4.0 offers complete software solutions for handling and managing facilities in an optimal and cost-efficient way.

All processes that deal with material handling, process planning and optimising, can be managed and controlled by this software. Together with standard functionality and interfaces, Lödige offers various Plug-In Options. These allow to achieve better in-house efficiency, higher throughput, improved processes and cost saving.

LÖDIGE ENTERPRISE SUITE PLUG-INS TO OPTIMISE YOUR BUSINESS:

- Auto Break Delivery
- AWB Handling
- Build & Break Planning
- Auto Dispatch
- Forklift Guidance
- Ramp Access Management
- Operations Dashboard
- Enhanced Alerting
- FIDS/3rd Party Interfaces
- Development Emulation
- Equipment Control
- Maintenance Management
- Advanced Reporting & Statistics
- System-Dashboard
Lödige Asia provides bespoke maintenance services, which guarantee your systems operate reliably at the lowest possible cost. At the same time, our service network ensures a fast response in the event of random faults even for systems not delivered by Lödige.

In addition, as your needs change over time, we can support the expansion of your facility, or the transition to new technologies. As we have for many customers, we can upgrade your system without interrupting your daily operation.

**REFERENCE | MASKARGO ADVANCED CARGO CENTRE**

The MASkargo refurbishment project expanded the clients handling capacity to 1 million tons of cargo per annum. The refurbishment of the MHS Equipment and Control Systems replaces obsolete technologies, improves machine, operations and designs out recurring faults.

Lödige Asia provides a full service on site team 24 hours per day providing planned maintenance, corrective maintenance, spare parts, IT support and consultancy.
Residential service,
(Cathay Pacific Catering Services, Hong Kong)

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MAINTENANCE
We offer maintenance agreements with different levels of cover to provide you with long-term system reliability at the lowest cost.

CONSULTING
We can provide expert advice on your current asset condition and potential system performance improvements.

SPARE PARTS AND REPAIRS
Our international service network guarantees rapid assistance in the event of any necessary repairs.

MODERNISATION
Our service teams provide you with a number of options for upgrading your systems to state of the art standards.

24/7 REMOTE-CONTROL SERVICE
In order to reduce the cost of the local service monitoring and to increase system availability, Lodige offers 24/7 remote assistance.

FULLY AUTOMATED CAR PARK SYSTEM

OUR SERVICE PORTFOLIO:
We offer services that cover all needs for material handling systems. From basic periodic inspections, to full residential service contracts where a Lodige team is based in your facility 24/7 providing support based upon guaranteed service levels.

We can advise you on:

- Maintenance optimisation – cost vs performance;
- Maintenance outsourcing – focus on your core business;
- MHS asset condition – benchmarked against other systems using predictive techniques;
- Operational process optimisation – get the best out of your MHS;
- Control system upgrades – to the latest state of the art;
- Equipment refurbishment / replacement – increasing performance and reliability;
- Automation of semi automatic or manual systems – reduce your labour costs.
Lödige has been engaged to support AAT through a long-term maintenance contract for both cargo Terminals 1 and 2.

AAT Terminal 1:
- PLC conversion from Siemens S5 to S7;
- MHS IT Application replacement.

02 | SATS COOLPORT, SINGAPORE
- Conversion of MHS from general cargo to integrated perishables terminal.

03 | CELEBI CARGO TERMINAL, NEW DELHI
- Replacement of fixed workstations with elevating workstations;
- Integration of new bypass lanes and storage areas;
- Replacement of existing ETV with latest Lödige design.

04 | BFS, BANGKOK
- Integration of import ASRS system to free up operational warehouse space;
- Modification of ULD system to provide new business functions.

05 | MASKARO ADVANCED CARGO CENTRE, KUALA LUMPUR
Full MHS overhaul to extend operational life by ten years including:
- Mechanical & Electrical overhaul of ULD & Bin/Box system;
- MHS IT Application replacement; latest Lodige design;
- Bin Stacker Crane replacement;
- Integration of new ULD equipment to increase terminal capacity.
A STRONG PRESENCE IN ASIA

LÖDIGE MACHINERY AND SYSTEMS ARE USED WORLDWIDE

Many customers in Asia are already benefiting from our know-how and years of experience in materials handling and storage technology. Lödige Asia is well known for:

- its applied expertise in planning and realising projects,
- its innovation in the development of products and systems,
- and its effective service, which permanently ensures safety and reliability.
SOME OF OUR PROJECTS:

- **01 | CATHAY PACIFIC CATERING SERVICES (H.K.) LTD., HONG KONG**
  Lodge Group developed a compact storage and transportation system that optimises material flows within CPCS facility.

- **02 | BMW BRILLIANCE AUTOMOTIVE, SHENYANG, CHINA**
  SHERPA®, Lodge’s goods lift, is the optimum integration solution for transporting goods.

- **03 | MARINA SOUTH DEVELOPMENT, SINGAPORE**
  Lodge, as a well-experienced lifts’ specialist, has delivered 30 tons truck lift for Marina One. The lift vertically transfers heavy trucks between ground floor and basement levels to a height of 9 metres.

- **04 | AAT, HONG KONG**
  Air cargo logistics for capacity 910,000 t/year. The heart of the container handling system is four storage and retrieval machines each with a lifting height of 43 m.

- **05 | SCSC CARGO TERMINAL, HO CHI MINH CITY, VIETNAM**
  Lodge’s Pallet and Container Handling System ensured SCSC achieves the functionality and capability needed to create a world class air cargo facility.

- **06 | AUSTRALIA POST, SYDNEY, MELBOURNE, AUSTRALIA**
  Lodge Asia in cooperation with Vanderlande Industries delivered new parcel sorting systems for Australia Post’s Sydney and Melbourne parcel processing facilities.