



Solutions for Airport Logistics Terminal Equipment



TECHNOLOGY IN MOTION

LODIGE
INDUSTRIES



Lödige Industries - Technology in Motion

The core competence of the Lödige Industries Group is located in both manufacturing and in the realisation of materials handling systems for aviation, industry, logistics and distribution centres.

With a worldwide labour force of over 600 employees Lödige has evolved over the past 60 years from a small business manufacturing hydraulic lifting platforms to a worldwide enterprise.

Lödige has earned a reputation as a reliable partner for the whole business of material handling systems. From the installation of a single lift to a fully automated turnkey cargo terminal, Lödige offers the complete solution for your needs as a one-stop solution: design and consultancy, manufacture, installation, project management and servicing.

Lödige is certified to ISO 9001 standards.

Air Cargo ETV System (Royal Mail, London)





Flexible air freight handling

With Lödige Terminal Equipment you can handle air freight with efficiency and flexibility.

- Typical benefits:
- Modular design
 - Variable arrangement
 - Quick installation



Roller Conveyors



FlexLoader



Workstation (EWS)



Truck Dock



Slave Pallets



Slave Pallet Mover



Lödige FlexLoader

The mobile all-rounder
for ULD handling

The Lödige FlexLoader combines the advantages of a pallet transporter and a truck dock.

The new machine can transport, raise, lower and rotate ULDs.



Advantages of the FlexLoader:

- Attractive price - bridging the cost between forklifts and ETVs
- Mobile - build and break anywhere within the warehouse
- The FlexLoader is battery powered and is operated from a remote control panel ensuring a clear view of transported and transferred ULDs at any time
- Pallet transfer to slave pallets, workstations, lorries, powered conveyors or storage positions
- High manoeuvrability
- Environmentally friendly - battery operation
- Through the integrated steerable drive the FlexLoader can move freely
- Drive directions: reverse - left and right, as well as steering ability during travel



The FlexLoader XL raises to 3,050 mm high. In this way racks with two levels can be accessed.

Technical Data

Capacity: 6,800 kg
ULD: category max. 15 ft
(baseplate size:
max. 3,175 x 2,440 mm)

Max. Stroke:
FlexLoader L: 1,600 mm
FlexLoader XL: 3,050 mm
Lowest height: 203 mm

Lifting speed: max. 0.05 m/s

Driving speed: max. 1 m/s

Conveying speed: max. 0.3 m/s

Vehicle dimensions:
Length: 3,500 mm
Width: 4,430 mm
Height:
FlexLoader L: 2,200 mm
FlexLoader XL: 3,480 mm

Workstation (EWS)

Build up/Break down stations



Ergonomic working procedures are achieved using the Lödige Elevating Workstation (EWS). The EWS lifts or lowers the ULD to the optimum loading height.



Technical Data

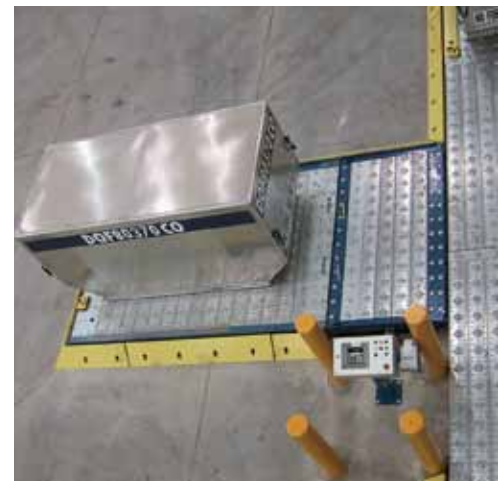
Lifting capacity:	6,800 kg
Collapsed height:	800 mm
Lifting stroke:	max. 2,000 mm
Lifting speed:	0.05 m/s
Drive rating:	8 kW
Tare weight:	5,000 kg
Length:	3,600 mm
Width:	2,700 mm

Advantages of the Lödige Workstation:

- Robust construction
- Various transfer deck models available
- Back-up functions (emergency lowering, manual deck transfer)
- Proven hydraulic lifting technology
- Ram protection option

Designs available:

- Roller deck (NEP or WEP)
- Ball deck
- Steel plate (for use with slave pallets)
- Weighing facility
- Drive-over capability



Lödige Truck Dock

TruckDockModular

TDM-Series

The Lödige Truck Dock Modular satisfies the growing demand for a versatile, adaptable, economical scissors lift to load and unload ULD trucks and dollies.



Truck Dock Modular design allows

- The ability to assemble from standard “off-the-shelf” modules a unit that fits the clients requirements
- Quick and easy future up grading and retrofitting of modules

The basic model includes:

- Scissor lift assembly, hydraulic power pack and base frame (without side shift)
- Transfer deck (powered rollers)
- Control Panel

Transfer decks (optional):

- Ball deck
- Castor deck
- Non-powered roller decks



Technical Data

Capacity:	7,000 kg
Collapsed height:	508 mm
Stroke:	1,100 mm
Deck width:	2,700 mm
Deck length:	
TDM-10	3,600 mm
TDM-15	5,120 mm

Optional modules:

- “Side shift” module (+/- 150 mm)
- Moving ram protection with powered roller (vertical guide columns set in, or on the floor)
- Operator platform(s) - 600 mm wide
- Stop, front / rear
- Weighing scales with read-out display
- Electric or hydraulic winch (500 daN pulling force)

Safety equipment (chain skirt, trip bar etc.) as required.



Slave Pallet Mover

ULD Transporter



Slave Pallet Mover combined with slave pallets is the flexible and versatile system for the air cargo handling needs.

Examples of applications of the Slave Pallet Mover:

- Build and break activities anywhere in the warehouse
- Import/export ULD staging
- Loading/unloading of ULDs into mechanised systems
- Loading/unloading of ULDs to and from dollies
- Flexible organisation of build and break positions
- Additional build and break positions to overcome peaks

Optional features:

- Safety canopy
- Fork extensions (600 mm)
- Warning horn & light
- Winch, hydraulic
- ULD pusher
- Battery changing cradle



Pallet Mover with powered Slave Pallet



Technical Data

Payload:	6,800 kg
ULD (incl. wing container)	max. 10 ft
Length:	4,330 mm
Width:	1,720 mm
Height:	1,700 mm
Min./max. transfer height with Slave Pallet	203.2 / 508 mm
Number of forks:	3
Length of forks:	2,600 mm
Width of forks:	320 mm
Height of forks:	115 - 445 mm



Battery changing cradle for the quickest changing of an empty battery for a fully charged one. The unit consists of the base frame with height adjustable feet and a sliding battery tray. The battery charger is located at one end of the base frame.





References Terminal Equipment

- Aeroporti Rom
- Avia-Partner
- British Airways
- Cargo Centre Sweden
- Swissport
- CSC
- D.Logistics
- Flightcare
- Huffer
- KLM
- Lufthansa
- Malaysia Airlines
- Menzies
- Polar Air
- Port Ground
- Skylink



Pallets and Manual Handling Areas



Castor Deck

Slave pallets and manual handling areas support the safe and simple handling of ULDs.

Lödige Slave Pallets (10 ft)

- The pallet can be picked up from all four sides and is stackable
- In accordance with IATA AHM 911
- Manual stops to retain container on the pallet (Raised position: 50 mm above the pallet height)
- The fixed side guides on the long sides provide ULD guidance. Through the 25 mm height above the roll plane the ULDs are held safely and do not provide a hindrance during build and break operations of an ULD using fork lift vehicles
- Designed with rollers and balls
- Capacity: 6,800 kg
- Length: 3,600 mm, width: 2,600 mm
- Height of transfer plane: 203.2 mm

Manual handling areas

On the manual handling areas ULDs can be moved easily. You can set up flexible flat storage for ULDs or use the space as transport and delivery areas.

- Modular design
- From 10 m² to 5,000 m² and beyond
- Elements are designed according to the project specific requirements
- Workstations and Truck Docks can be integrated into / onto the work surface
- Designed with rollers, balls or castors



Slave Pallet with rollers



Manual Handling Areas
BALL MAT - Modular Grating Type



Manual Handling Areas
BALL MAT - Modular Steel Channel Type





Overview of airport logistics solutions

AIR CARGO

We provide systems and individual components for transporting, storing and repacking air cargo units.

BAGGAGE HANDLING

Efficient baggage sorting solutions are part of our portfolio, as is loading luggage items into ULDs.

CATERING LOGISTICS

We also design solutions that meet airport requirements in the form of space-saving systems for storing food.

ASSEMBLY AND MAINTENANCE

Automated handling of the storage of aircraft parts, tools and working platforms for assembling and maintaining aircraft..

EXPRESS HANDLING

We offer high-throughput logistical systems for handling courier cargo at airports.

SERVICE

We offer spares, upgrades, maintenance and refurbishment services.



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