ALS Logistic Solutions is one of the leading Automation solution provider of Material Handling, Cargo and Car Park Systems. With more than 20 years of experience, ALS has proven its expertise in ergonomic space-saving solutions for warehouses and parking areas.

ALS Products and Services range covers Airport Consulting and IT Solutions, Air Cargo Handling Systems, Automated Storage and Retrieval Systems (high-bay warehousing), Warehouse Management Systems and Automated Car Parks.

With ISO 9001:2008 standards, ALS qualified engineering and project management team specializing in:
- Pre-project Planning;
- Complete Design of Material flow;
- Simulation;
- Information Technology and QA/QC;
- Schedule Planning;
- Implementation;
- Training and After Sales Support.

Our cargo handling portfolio covers a full range of all solutions from basic manual operation to fully automated operations, consisting of, but not limited to Air Cargo Handling Systems, Modular Warehouse Equipment & Express Handling Systems.

ALS Automated Storage and Retrieval Systems (ASRS) are designed for the computerized storage and retrieval of goods in the manufacturing, stock-keeping and distribution facilities where space is scarce and efficiency and high throughput are a must.

The ASRS concept is the equivalent to high density storage of palletized cargo by means of a high level of automation and efficiency; whether for mini load shipments or high bay pallet storage systems.

In order to achieve optimal material flow and guarantee customer throughput, ALS offers highly advanced automated IT storage systems. We study the customer requirements to provide optimal material flow solutions, offering turnkey projects for Automatic High Bay warehouses by applying highly sophisticated software technologies.

ALS provides systems that best suits the complex operational concept and solve the material handling challenges at optimum levels.

ALS offers Logistics Consultancy services with focus on the Development, Planning and Design of Fully Automated Cargo and Material Handling Solutions, taking into consideration the buildings and infrastructure design for existing or green field facilities.

Our team of specialists offers professional and customized solutions with the highest standards according to ISO 9001:2008.

With Head Offices in UAE, Germany, Malaysia and Singapore to cover the Middle East, African, European and Asian markets we ensure a reliable network of suppliers, providing world-class engineering and IT solutions for our clients worldwide.
Air Cargo Handling Systems
Elevating Transfer Vehicle (ETV)
Specifically designed for the efficient Storage and Retrieval of ULDs and Air Cargo Pallets. The ETV stores and retrieves all types of ULDs and Pallets on multiple levels using friction driven or motorised roller decks with a capacity of up to 14,000 kg.

ULD Racking Systems
The steel structure for the ETV system is designed in a way to enable high bay storage of 5, 10, 15, 20 ft ULDs. The Friction driven decks, or motorized ones, are mounted on the rack structure in multiple levels.

Lowerable Workstations
This workstation is designed for the efficient buildup and breakdown of ULDs & Pallets with handling capability from 5 to 20 ft. The workstation is typically installed in the breakdown and buildup areas. The workstations are controlled via user friendly panels with touchscreens and weighing scales indicators for cargo units identification.

Stationary Workstations
For an efficient buildup and breakdown of Pallets and ULDs, workstations are designed for drive-over handling in order to optimise the vehicles’ access and are controlled via foot-control panel located on the floor.
Reliability Through Excellence

Pallet Hoists are designed to utilize the available vertical space in the warehouse with minimum requirements of civil works. The Hoists create access to additional levels which leads to maximum utilization of the warehouse space. The flexible and versatile design ensures a user friendly interface between the different warehouse levels at various lifting capacity.

ULD and Goods’ Lift

Pallet Hoists are designed to utilize the available vertical space in the warehouse with minimum requirements of civil works. The Hoists create access to additional levels which leads to maximum utilization of the warehouse space. The flexible and versatile design ensures a user friendly interface between the different warehouse levels at various lifting capacity.

Truck Docks

The truck dock consists of driven roller or castor decks integrated with a tandem hydraulic scissors lifts. This allows ULDs access to trucks of different heights with capacity ranging from 5 to 20 ft with integrated scales and winch.

Portals and Conveyors

The automated sorting, weighing and identification of parcels is done on belts, roller conveyors or stationary on the warehouse floor with an interface to the client portal.
Express Handling Systems

- Heavy duty belt conveyors / Roller curve conveyors
- ULD Pallet Mover
- Slave Pallet

Ball, Castor, Gravity and Roller Decks
High Bay Warehousing
In order to achieve optimal material flow and guarantee desired customer throughput, ALS offer highly advanced automated IT storage systems.

ALS design and install systems most suitable for the complex operational concept, solving the material handling challenges at most efficient levels.

ALS Automated Storage and Retrieval Systems (ASRS) are designed for the computerised storage and retrieval of goods in the manufacturing, stock-keeping and distribution facilities where space is scarce and efficiency and high throughput are a must.

The ASRS concept is the equivalent to high density storage of palletised cargo by means of a high level of automation and efficiency; whether for mini load shipments or high bay pallet storage systems.

Input/Output stations of an ASRS is a set of conveyors designed to interface with the automated storage mechanism for the delivery of the totes or pallets efficiently and safely to the picking stations and vice-versa.

The workstations can be fitted with Volume Scanners, Weighing Scales, Barcode Readers (or RFID) and Contour Checks, etc.

The Tote/Box storage system is a high-density buffer designed to maximize the vertical warehouse space while maintaining a compact footprint. A high-speed Stacker Crane is integrated to allow the storage and retrieval of loads to support the high-volume order picking operations. Multiple options of input and output stations are available to streamline the picking and material flow.

The Shuttle System (or OSR) is ideally suited for use in order fulfilment and distribution centres where high performance, dense and speed are required. Each shuttle serves a specific level in the racking system where they store and retrieve load carriers (containers, cartons or trays). The load carriers, with contents weighing up to 50 kg, can be stored in several deep design, allowing the maximum storage in the available footprint.
AFTER SALES AND MAINTENANCE SERVICE

ALS offers maintenance and after sales support for all types of air cargo handling and warehouse equipment. We provide 24/7 remote access and hotline for automated systems and associated components.

- Air Cargo Handling & Warehouse Equipment such as: ETVs (Elevated Transfer Vehicles), Truck Docks, ULD Handling Equipment/Workstations/Pallets Hoists/Goods Lifts, Belt conveying and sorting systems, Powered Conveyors, Automated volume and weight measuring systems for pallets & ULDs, Stacker Cranes, Castor Decks/Ball Decks/Free Gravity or Motorized Roller Decks, Control Cabinets & PLC
- GSE Equipment such as; Aircraft tow tractors, baggage tow tractors, and related components
- IT Support for Inspection / Diagnosis / Repair of Automatic Storage and Retrieval Systems (ASRS) PLC Control Systems and SCADA Material Handling Control System (MHCS) Software Support
- Extended Standby Service & Trouble Shooting through 24/7 Remote Access Service / Hotline for Automated Systems and associated components

ALS DESIGN AND CONSULTANCY SERVICE

ALS offers Logistics Consultancy services with focus on the Development, Planning and Design of Fully Automated Cargo and Material Handling Solutions, taking into consideration the buildings and infrastructure design for existing or green field facilities.

- Services for technical design studies with regard to the Concept Design stage
- Design and Construction
- MHS layout to be incorporated into Architectural Services
- Building Engineering Services related to MHS Data collection, Preparatory work, Preliminary Design
- Data collection, Preparatory work, Preliminary Design
- Tender Documents
- Develop a technical analysis and a construction schedule to act in accordance with the Clients timeline requirements
- Possibility to handle contractual issues and perform time and quality controls