- ● References
- ● Local Sales & Service

SACO
AIRPORT EQUIPMENT

Cargo Handling Systems

Your local representative:

Please visit the website for contact details of your local representative:
www.saco.aero

SACO
AIRPORT EQUIPMENT

SOLVING YOUR CARGO HANDLING CHALLENGES
www.saco.aero

We take care!

SACO AIRPORT EQUIPMENT - CARGO HANDLING SOLUTIONS

With air traffic predicted to grow at an average rate of 8% per year, and in some areas even up to 20%, the amount of air cargo flown around will also increase tremendously. As a result, companies involved with air cargo face growing challenges on how to organise this and how to get cargo from and to their customers safely and on time. For this, SACO backed by more than 50 years of experience, offers ULD handling solutions ranging from basic systems for manual manoeuvring to fully mechanised and automated systems.

Based in Mierlo, The Netherlands, SACO designs, manufactures and supplies turnkey Cargo Handling Equipment and Systems. Due to the modular design of SACO's units, it is easy to move, modify, extend and upgrade an existing system in phases when cargo volumes grow. Users can adjust investments to their needs. Full after sales support, tailor made maintenance solutions and 24-hours service ensure a high performance standard throughout the system's entire life span.

SACO's systems have been successfully supplied and commissioned in many European countries, but also in India, Indonesia, Russia, U.A.E., USA, Canada, Brazil, Rwanda, Ethiopia, Australia and New Zealand.

CORPORATE BACKGROUND

SACO is fully owned by and incorporated into SMA BV based in The Netherlands. SMA BV has its origin in 1951 and has evolved into an internationally oriented organisation with multiple divisions. The core activities of the company - construction, manufacturing, supply and assembly of steel and machine constructions – are sub-divided in five divisions. SACO enjoys the advantages of having a flat organization with short and direct communication lines, whereas SACO is also able to handle large projects requiring extensive manpower and project management is part of the Machine constructions division.

PRODUCT PORTFOLIO

SACO's portfolio includes extensive solutions for the handling of air cargo ULD's (pallets and containers). Ranging from conveyor decks, truck docks, dolly docks, build-up / break-down workstations, weighing systems, multi-level storage systems incorporating (elevating) transfer vehicles, to SACO's slave pallet system to additional flexibility.
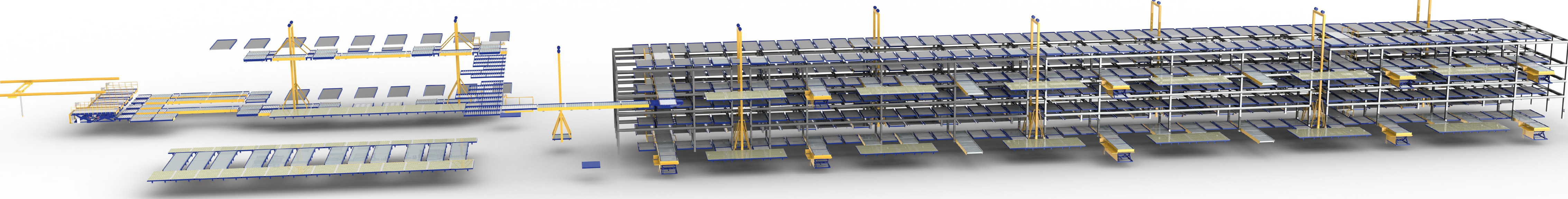
SACO's turnkey approach enables the supply of cost effective integrated hardware and software solutions for the control and management of air cargo handling and storage systems. This can vary from a standard PLC control system to overall Material Handling Software and management IT-systems.
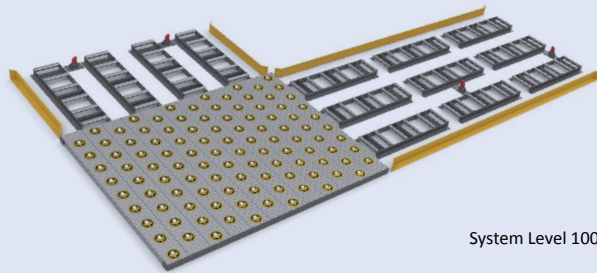
SACO IS MEMBER OF:

ACN

AirCargoBelgium

NVG

TIACA

REFERENCES

DHL · Menzies AVIATION · WFS Worldwide Flight Services · dnata · ROYAL AIR FORCE · Lufthansa Cargo

AIRPORTS AUTHORITY OF INDIA · FedEx · swissport · Royal Flora Holland · CANADIAN NORTH · CAINIAO

TNT · LATAM CARGO · AVIAPARTNER · Fraport · UNITED AIRLINES A STAR ALLIANCE MEMBER · DB SCHENKER

UPS · Yusen Logistics · TURKISH CARGO · AIR CANADA · ATHENS INTERNATIONAL AIRPORT · AIRFRANCE KLM Martinair CARGO

We take care!

SYSTEM LEVEL 100

System height: 100 mm
Components: • Roller track - units with 3 or 6 rollers
              • Ball deck
              • Castor deck
              • Pallet stop - single / double
              • Side guides

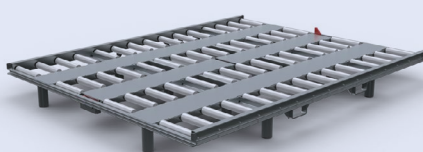*Budget cargo handling system, for manual manoeuvring of ULD's.*

System Level 100

SLAVE PALLET SYSTEM

System height: 270 mm
Components: • Pallet Master ride-on,
              • alternatively Pallet Master pedestrian
              • Slave Pallet - 10ft NEP / WEP - Open / closed
              • Slave Pallet Ball deck - 10ft
              • Slave Pallet Castor deck - 10ft

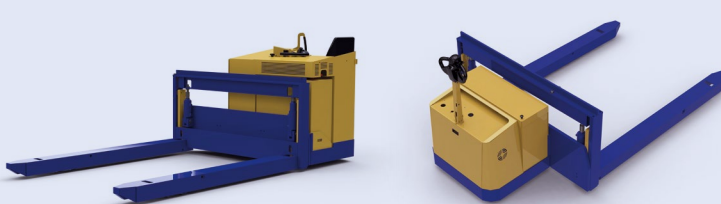*Flexible cargo handling system, for handling of ULD's.*

Slave Pallet open - 10ft NEP

SLAVE PALLET SYSTEM - PALLET MASTER

Turning circle: Radius 3,200 mm
Lift capacity: 8,000 kg
Lift stroke: 185 - 550 mm, to enable docking of slave
                 pallets to conveyors at 508 mm.

Pallet Masters for manoeuvring of ULD's on slave pallets
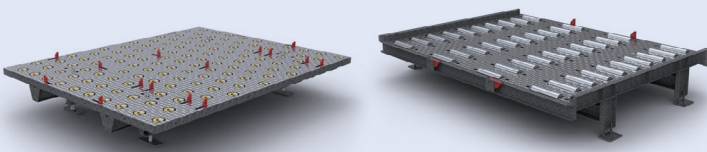*Battery powered with 48 VAC system.*

Pallet Master ride-on   Pallet Master pedestrian

SYSTEM LEVEL 508 - MANUAL

System height: 508 mm
Components: • Roller deck–10ft / 15ft / 20ft NEP / 10ft WEP
              • Ball deck - 10ft
              • Castor deck - 10ft
Options: • Pallet stops
              • Weighing System

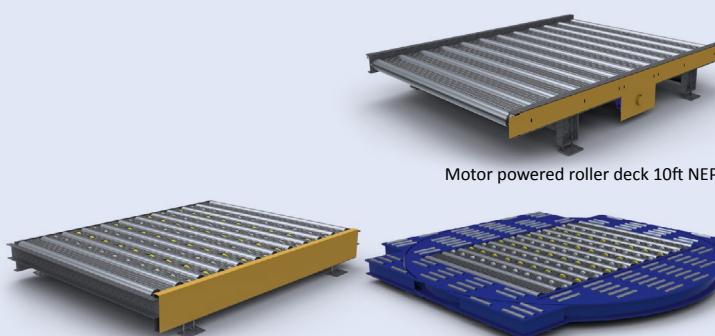*Cargo handling system, for manual manoeuvring of ULD's at Dolly height.*

L508 - Castor deck 10ft   L508 - Roller deck 10ft WEP

SYSTEM LEVEL 508 - POWERED

System height: 508 mm
Components: • Motor powered roller deck – 10ft /
                20ft NEP / 10ft WEP
              • Right Angle deck - 10ft
              • Turn table with Motor powered roller deck or
                Right angle deck - 10ft
Options: • Manual or powered pallet stops
              • Weighing System

Cargo handling system, for automated handling of ULD's at Dolly height.

Motor powered roller deck 10ft NEP

Right Angle deck 10ft   Turn Table – Right angle deck

TRUCK DOCKS

Operatingheight: 508 - 1,608 mm
Available sizes: 10ft /15ft / 20ft NEP
Available decks: • Motor powered roller deck
                  • Roller deck
                  • Ball deck
                  • Castor deck
                  • Drive-over deck
Options: • Operator platform
                  • Heavy duty rising roller barrier
                  • Side shift
                  • Weighing system
                  • Winch
                  • Container rotation section
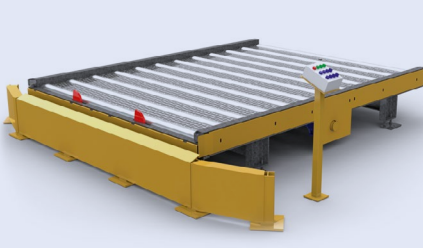
Truck docks for loading and unloading ULD's to and from trucks.

Truck Dock - 20ft NEP

DOLLY DOCKS

Operating height: 508 mm
Available sizes: 10ft / 15ft / 20ft NEP / 10ft WEP
Available decks: • Motor powered roller deck
                   • Roller deck
                   • Ball deck
                   • Castor deck
Options: • Scissor lift
                   • Heavy duty protection barrier
                   • Side shift
                   • Weighing system

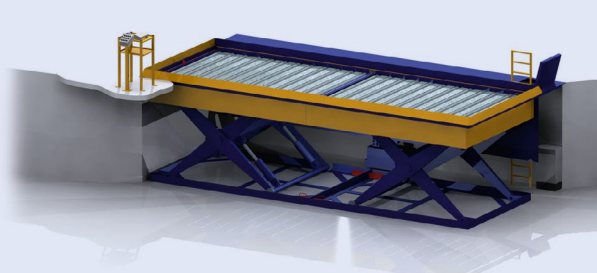*Dolly docks for loading and unloading ULD's to and from dollies.*

Dolly dock – 10ft NEP

BUILD-UP BREAK-DOWN WORK STATIONS

Operating height: 508 mm above floor level
                   1,400 mm below floor level
Available sizes: 10ft / 15ft / 20ft / 2 x 10ft NEP / 10ft WEP
Available decks: • Motor powered roller deck
                   • Roller deck
                   • Ball deck
                   • Castor deck
                   • Flat steel deck
                   • Drive-over deck
Options: • Weighing system

BUBD Work stations for the build-up and break-down of ULD's.

Build-up Break-down Work station – 20ft NEP

TRANSFER VEHICLES (TV)

Operating height: 508 mm
Available sizes: 10ft / 15ft / 20ft / 10ft WEP
Options: • TVU; Transfer Vehicle prepared
                     to enable upgrading to a
                     2-level ETV
                   • Weighing system
                   • Automatic or semi-automatic operation

Transfer Vehicles for automatically receiving, holding and transferring ULD's in a single level storage deck system.

Transfer Vehicle – 20ft NEP

ELEVATING TRANSFER VEHICLES (ETV)

Typical operating 1st level   508 mm
Heights: 2nd level   4,008 mm
                   3rd level   7,508 mm
                   4th level   11,008 mm
Available sizes: 10ft / 15ft / 20ft / 10ft WEP
Options: • Weighing system
                   • Automatic or semi-automatic operation

Elevating Transfer Vehicles for automatically receiving, holding and transferring ULD's in a multi level storage deck system.
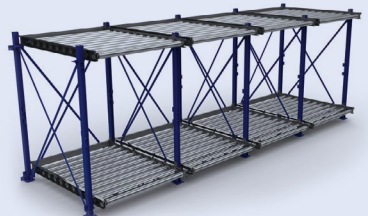
Elevating Transfer Vehicle 10ft NEP

FRICTION POWERED ROLLER DECKS

Operating height: 508 mm
Available sizes: • 10ft / 15ft / 20ft NEP / 10ft WEP

Friction powered roller decks for storage of ULD's are installed in single level or multi-level racking structures.
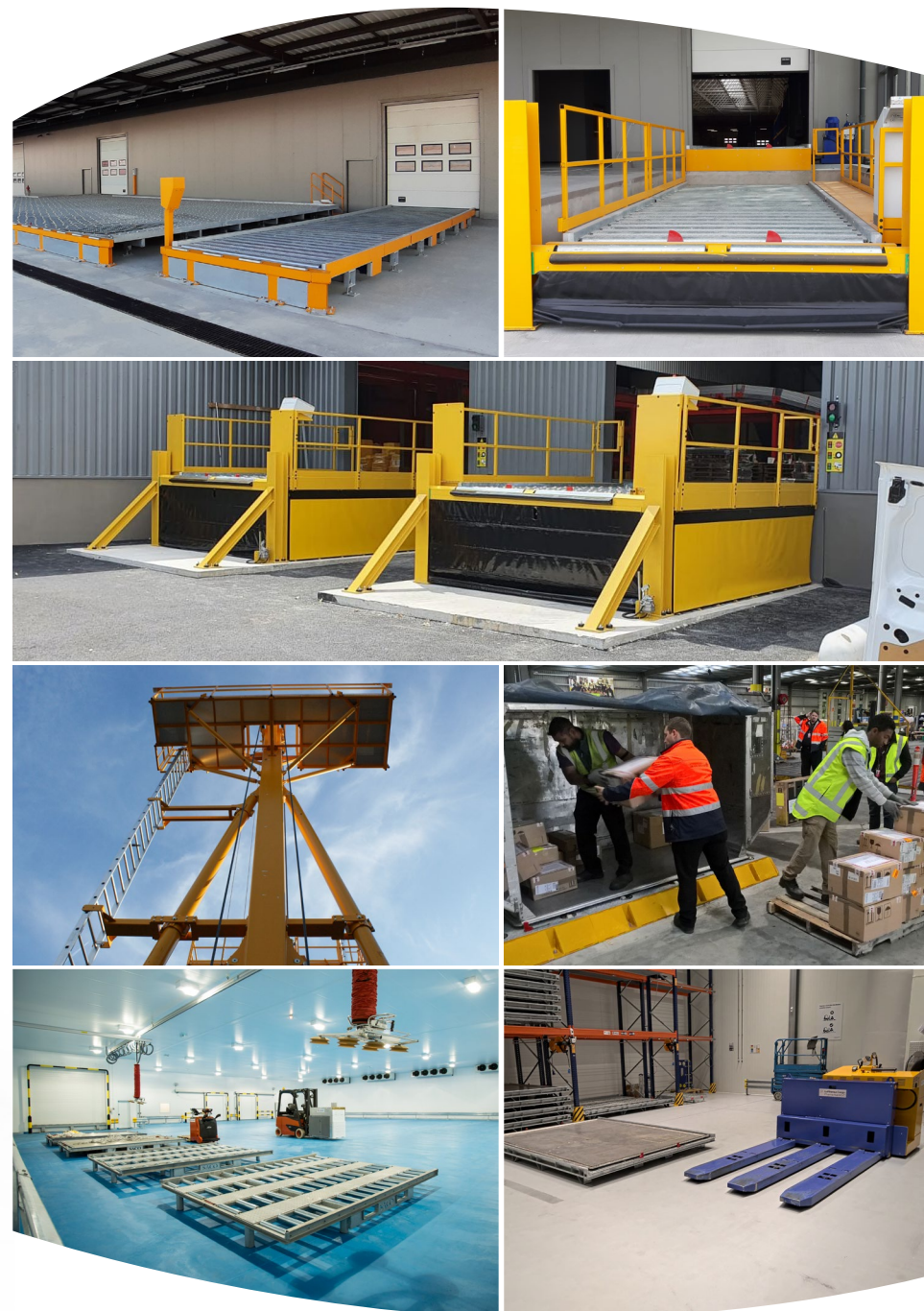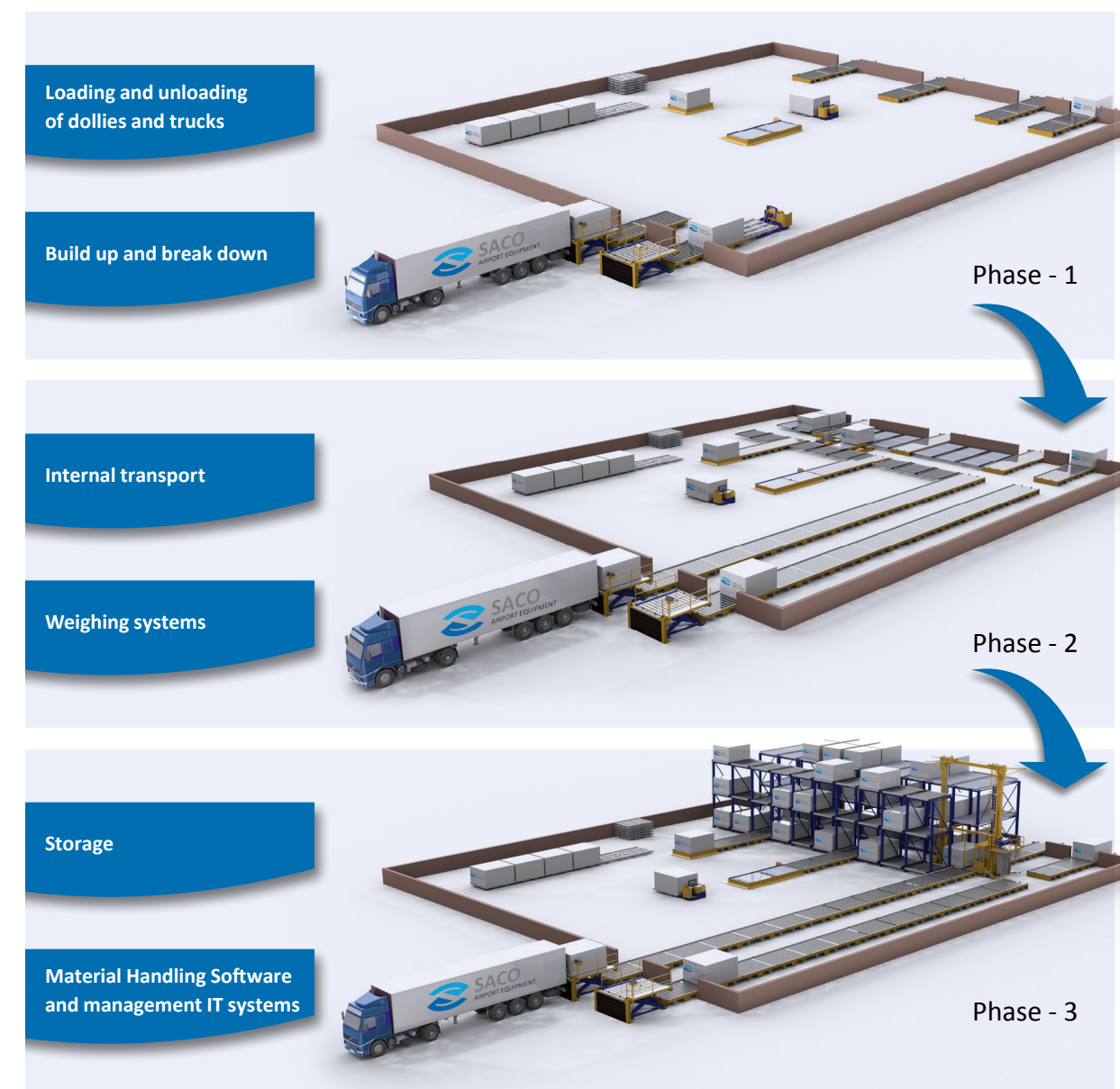
Friction powered roller deck 10ft NEP

We take care!

SACO, your turn key supplier for a wide range of applications and investment plans. As cargo volumes grow, let your system evolve through phases with SACO's modular equipment design.
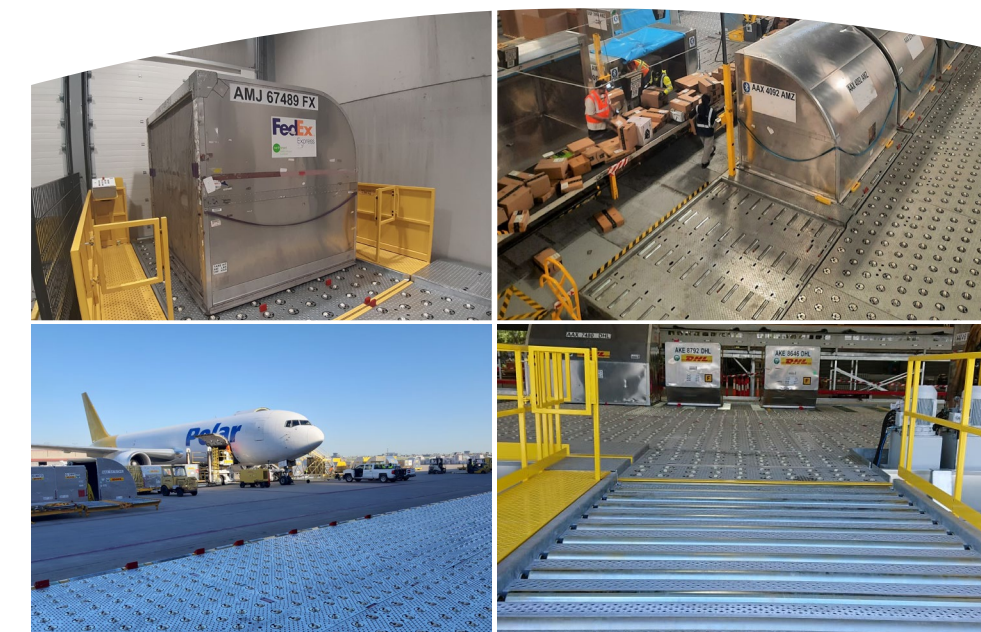
Loading and unloading of dollies and trucks

Build up and break down

Phase - 1

Internal transport

Weighing systems

Phase - 2

Storage

Material Handling Software and management IT systems

Phase - 3

Based on 5 decades of relevant experience, SACO has a full set of handling equipment available to configure any solution that may be required. This includes storage and conveyor decks, truck docks, dolly docks, workstations, scissor lifts, ULD hoists, (elevating) transfer vehicles ((E)TV's, pallet masters / slave pallets, Depending on the required capacity, ULD storage systems can be based on ETV's or on the Lift & Run principle incorporating multiple TV's and hoists.

POSTAL AND EXPRESS PARCEL

Speed and flexibility are of the essence with Postal and Express Parcel handling. SACO has developed a reliable set of standard equipment for ULD handling dedicated for this sector.
This is mainly based on modular castor decks, roller decks, truck docks, and integrated weighing systems.

PERISHABLE AIR CARGO

The handling of perishables such as flowers, fruits, vegetables, fish, meat, and medicines etc. requires special attention. Not only is this related to keeping the cool chain intact, or segregation and storage in independent temperature controlled conditions, but also the handling equipment is to be suited for the ambient conditions and dedicated handling requirements.

ULD Handling and storage solutions