



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 pallets system for 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.

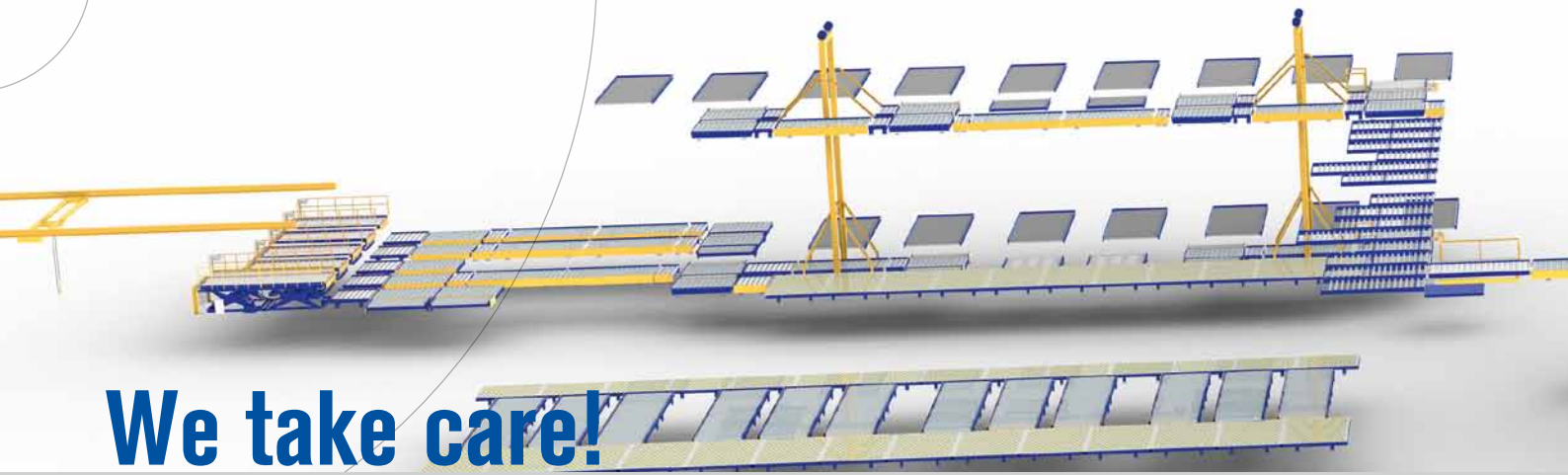
CARGO TERMINAL IT SYSTEMS

The SACO cargo terminal IT system includes a scalable and modular software package designed to control all the operations of a modern air cargo handling terminal, including machine automation (in co-ordination with PLCs), data processing and communication with host computer(s).

It is capable of varying levels of operation. In its simplest form it is an inventory control tool and a flight staging tool with or without machine automation. It manages ULD and loose freight inventory, maintains a record of where everything is stored (manual locations, floor, shelves, conveyors) and directs the operators via step-by-step instructions through all warehouse operations. In its expanded form, it is a true automated AWB handling system. The operator receives, breaks down, stores, retrieves and builds up AWBs. AWB requests are translated into unique ULDs, pallets, rollboxes, manual locations; it directs all underlying machinery to perform all required moves (stores, retrieves, location changes) automatically.



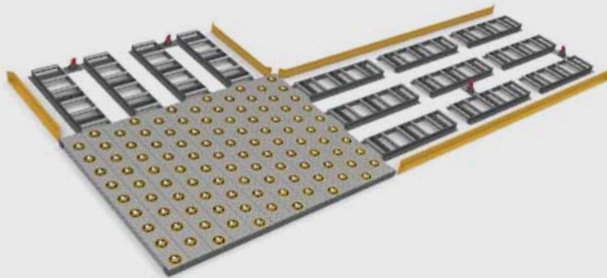
We take care!



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 VDC system.*



Pallet Master ride-on

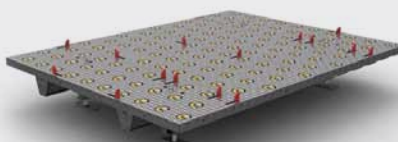


Pallet Master pedestrian

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

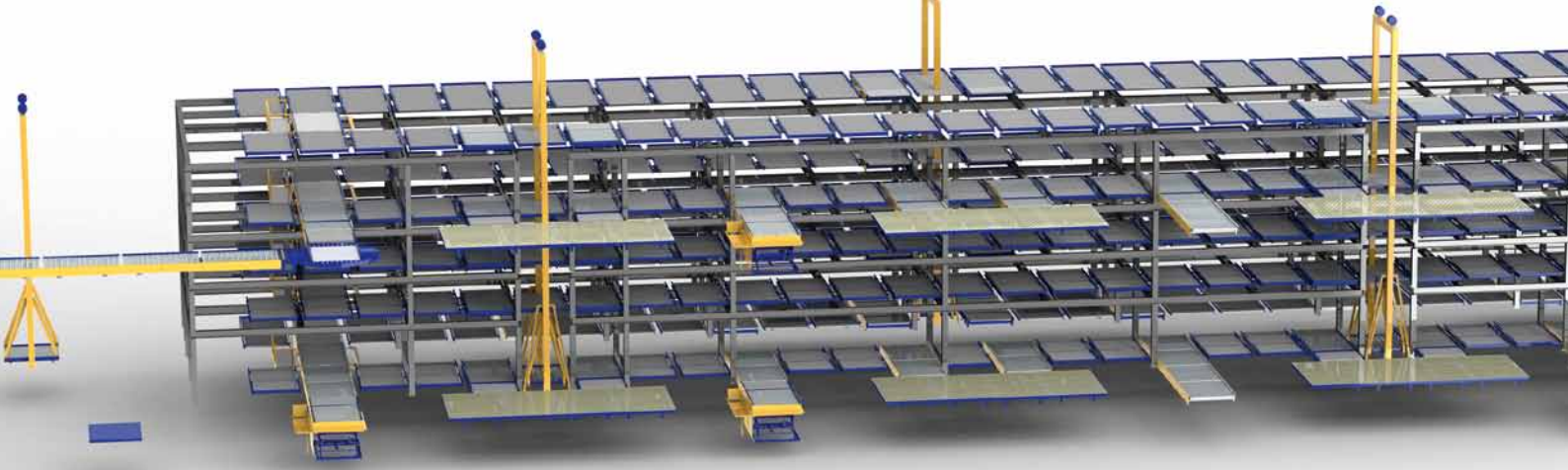
Cargo handling system, for manual manoeuvring of ULD's at Dolly height.



L508 - Castor deck 10ft



L508 - Roller deck 10ft WEP



SYSTEM LEVEL 508 - POWERED

System height: 508 mm

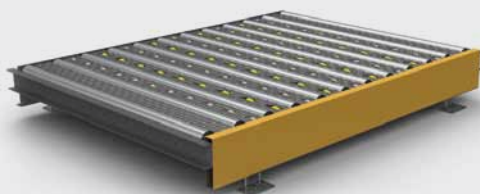
- Components:
- Motor powered roller deck - 10ft / 20ft NEP / 10ft WEP
 - Right Angle deck - 10ft
 - Turn table with Motor powered roller deck or Right angle deck - 10ft

- Options:
- Manual or powered pallet stops
 - Weighing System

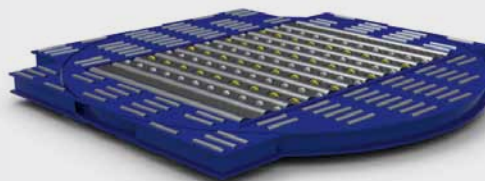
Cargo handling system, for automated handling of ULD's at Dolly height.



Motor powered roller deck 10ft NEP



Right Angle deck 10ft



Turn Table - Right angle deck

TRUCK DOCKS

Operating height: 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.

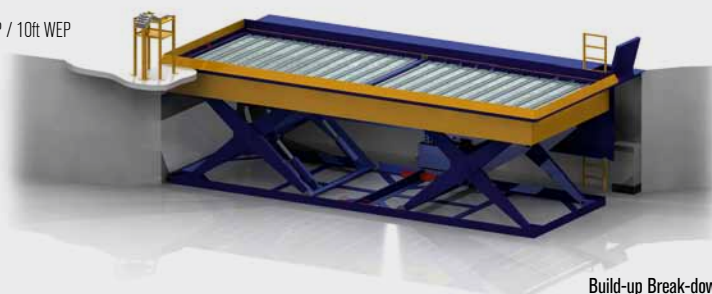


Dolly dock - 10ft NEP



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 along the length of the track to interface with motor powered conveyor equipment and single level storage deck system with friction powered roller decks.

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 along the length of the track to interface with motor powered conveyor equipment and multi level storage deck system with friction powered roller decks.

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



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.



ULD Handling and storage solutions

GENERAL AIR CARGO

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.

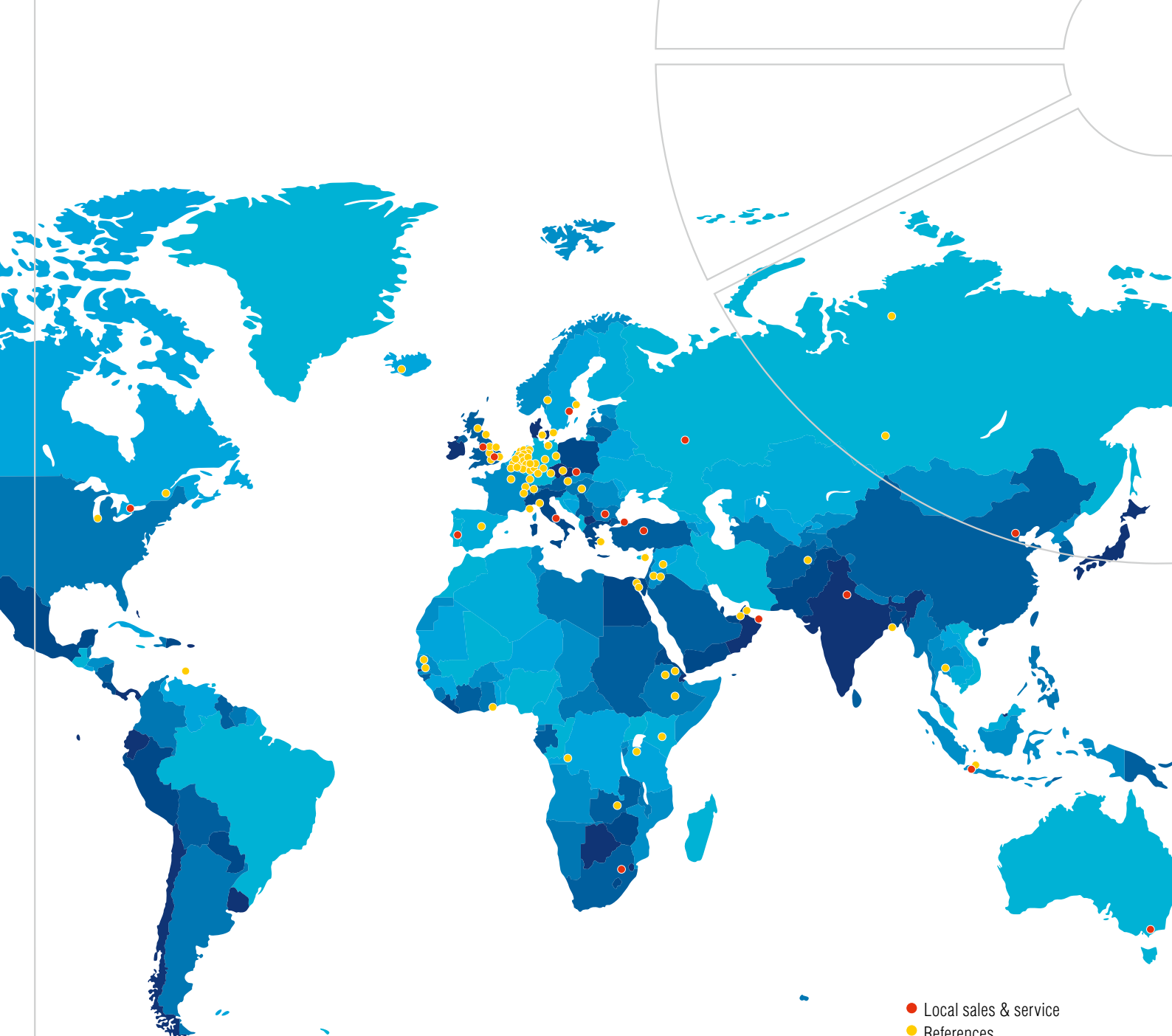
This is mainly based on modular castor decks, roller decks, truck docks, and integrated weighing systems.



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.





- Local sales & service
- References

Your local representative:

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



Saco Airport Equipment B.V.

Industrieweg 2
5731 HR Mierlo NL

P.O. Box 47
5730 AA Mierlo NL

Tel.: +31 (0)492 430 059
Fax: +31 (0)492 432 713

info@saco.aero
www.saco.aero