

Designer , manufacturer and supplier of turn key
**Cargo Handling Systems &
Ground Support Equipment**
specialized for air cargo

SACO 
airport equipment

Your key partner in added logistic value

Slave pallet system



- Flexible and cost effective cargo handling system for air cargo pallets and containers (ULD's)
- Suitable for extension of existing fixed conveyor and storage systems



- By using the Pallet Master, slave pallets can dock with existing conveyor systems with e.g. dolly docks and truck docks at standard 508 mm / 20 inch dolly height
- By using multiple slave pallets, a dedicated conveyor system can be set up in virtually any configuration
- Building and breaking of air cargo pallets at any place in your warehouse. In an ideal situation as close as possible to loose cargo racking to reduce use of forklift trucks
- Low energy consumption in comparison to fixed roller conveyor systems
- Easily expandable in case of increased capacity requirements
- The order of loading ULD's into trucks can easily be changed
- The system can be used for large capacities in relatively small areas
- Slave pallets can be reached from all four sides for safe and easy building up to a height of 1,500 mm
- In case slave pallets are not used, they can be stacked by using a forklift truck to save expensive handling space
- ULD's: Maximum 10 ft. "winged pallets" (96 inch x 125 inch), 15,000 lbs / 6,800 kg
- System can fully integrate with previously manufactured Slave Master, Pallet Mover and ACEquip Cargo systems
- Full spares and product support from SACO and our Service Points

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SPECIFICATIONS

Pallet Master

- Specially purpose designed for the manoeuvring of air cargo ULD's on slave pallets
- Two standard versions are available:
 - "pedestrian" version for walking operator, fitted with tiller arm for steering
 - "ride-on" version for riding operator, fitted with power steering
- Rugged but straight forward design for ease of maintenance
- Low maintenance costs.
- Robust and stable chassis and lift frame to ensure stable horizontal load at all times.
- Expected life time before major refurbishment is 10 - 15 years in busy environments.
- Dimensions: W x H x L: ± 2,100 x 1,600 x 5,000 mm
- Weight: total including battery: ± 3,500 kg.
- Tine dimensions: W x H x L: 200 x 190 x 3,230 mm, c.t.c. : 1,800 mm
- Nominal load 8,000 kg (6,800 kg ULD and 1,200 kg slave pallet)
- Hydraulic operated lift system with two tines (forks) with lifting range from 280 mm (roller height slave pallet) to 530 mm. This enables slave pallets to dock with existing roller conveyors at the standard 508 mm system height (20 inch dolly height). The required lift height can be pre-set.
- Lifting speed: approx. 80 mm/sec unloaded, approx. 50 mm/sec fully loaded
- Operator variable travel speed. Maximum speeds:
 - unloaded approx. 11 km/h
 - loaded approx. 8 km/h
 - pedestrian version limited to 6 km/h
- Turning Circle, with slave pallet: Radius = 4 m
- Electrics are based on standard 24 VDC system with low energy consumption.
- Electric drive 2.0 kW with rechargeable battery.
- Battery endurance / consumption:
 - Power consumption is highly dependant on type of use, loading and distances covered.
 - with pedestrian version: 24 VDC 375 Ah, 6 hour constant typical use over 36 km
 - with "ride-on" version: 24 VDC 425 Ah, 5 hour constant typical use over 60 km
- Battery Charger 24 VDC 60 A

Options / Alternatives

- LD3 pedestrian version of the Pallet Master, for walking operator, fitted with tiller arm for steering. Nominal load 4,000 kg specially adapted for handling LD3 (AKE) containers and 5 ft pallets.
- Flashing beacon.
- Spare battery.
- Battery charging station with charger and fixed roller conveyor.
- Battery changing trolley with roller conveyor.
- Customised colouring and/or lettering.
- Special versions (also non-air cargo) can be engineered to suit your application.



Pallet Master ride-on



Pallet Master pedestrian



Pallet Master pedestrian LD3



Slave Pallet ball deck

Slave Pallet

- For supporting pallets and containers (ULD's) during manoeuvring and building / breaking.
- Available in various versions, such as;
 - Narrow (NEP) or Wide (WEP) orientation of the ULD
 - fitted with roller deck for conveying in one direction (NEP or WEP), or
 - fitted with ball deck for conveying in two directions (NEP and WEP)
- ULD's: maximum "winged pallet" 10 ft (96 inch x 125 inch), 15,000 lbs / 6,800 kg.
- Slave pallets can be stacked when not in use
- Slave pallets can be picked up on all 4 sides by the Pallet Master
- Empty slave pallets can be picked up on the 2 long sides by a standard fork lift truck.
- Standard height 280 mm (with roller or ball deck)