

TOP CONVEYOR

Product's features

The solution is designed to equip an OMRON HD-1500 **Autonomous Mobile Robot (AMR)**, in order to give it the capacity to **transfer** and **transport** pallets. These operations are carried out in complete **safety** by ensuring:

- The transfer of pallets from a **mobile conveyor** to a **fixed conveyor** and vice versa
- The **transport** of pallets in a **safe way** when the mobile conveyor moves
- The **alignment** between the mobile conveyor and the fixed conveyor to **authorize a pallet transfer**
- The **correct positioning** of the pallet during and after the **transfer phases**

Key data

Solution dimensions

- ✦ Conveying height : custom-made from 450mm
- ✦ OA length: 1840mm
- ✦ OA width : 1330mm
- ✦ Total mass: 780kg
- ✦ Payload : **1250kg**

Securing the pallet

- ✦ 4 centering sensors
- ✦ 4 overtravel sensors
- ✦ Brake control

Euro-type pallet formats



- ✦ 800x1200 mm
- ✦ 1000x1200 mm



Centering during pallet transfer

- ✦ Removable axial centering parts depending on type of pallet
- ✦ Redundant check for the proper docking
- ✦ Optional optical data transmission

Mobile conveyor navigation

- ✦ Variable speed up to **1,8m/s** max
- ✦ Autonomous navigation of the robot taking into account load size

Pallet transfer

- ✦ Set of side motorized rollers driven by belts (Ø60)
- ✦ Set of free central rollers (Ø50)
- ✦ Variable and adaptable conveying speed up to **12m/min** max

Non-contractual data

Technologies

✦ Network functions :

- Communication through Ethernet, EtherCAT and WIFI

✦ Management and steering functions :

- OMRON MobilePlanner for mobile conveyor fleet management (Enterprise Manager)
- OMRON Sysmac Studio for management of the pallet transfer process (PLCs integrated into the mobile conveyor)

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