



Integrated automatic palletizer

For a global enterprise operating in beauty & personal care, we designed and built a 3-axis Cartesian automatic palletizing system: 26 m long Y axis, 6,100 m long X axis, 3.20 m long axis. Integration with production, LGV, wrapper and automatic warehouse.

• Description of our Palletizer

The palletizer is equipped with a vacuum gripping system (pliers with size 1200 mm X 1000 mm) to pick up both the boxes and the whole layer of the pallet (5 boxes at the same time).

The palletizer has an important speed of 2 m / s on all the axes with an acceleration of 2 m / s² with a maximum weight of 125 kg. For this reason we have had to design and create suitable supporting structures to support the system.

• Integrated software system

The software we created manages 62 footboards on the ground, the entry of the pallets already full (managed by LGVs), the entry of the boxes for palletizing coming from 2 different production lines, and the exit to the wrapper.

It also manages the supply of empty platforms on 2 stations for LGVs, modified by us to integrate them into the system, which will bring them into production.

The software is completely integrated with the production and the automatic warehouse in order to optimize the whole process.

• Safety and certifications

We have implemented the latest generation safety systems.

In particular, the system provided by IO-link allows you to control, manage and configure all the sensors via the Web.

AN INNOVATIVE PALLETIZING SOLUTION



Mechanics



Electronics

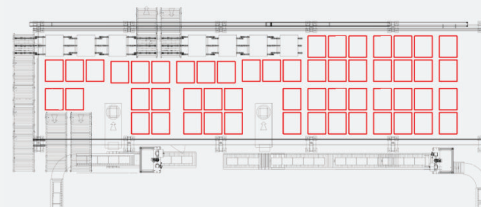


Software

Always connected and manageable via the Internet



Watch it on Youtube: <https://youtu.be/Xkz-JmCqwOM>



*Plan of the area where the automatic Palletizer moves.
In red the positions of the pallets managed by the System.*

SERVICES AND TECHNOLOGIES USED

PALLETIZING SYSTEMS

SCADA

SPECIAL MACHINES

MECHATRONICS



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