

VISION & COLD END

EASYROCK: EMS automates pallet packaging removal

As acclaimed global industrial automation supplier, EMS is known for its engineering expertise and technological prowess. The group's latest innovation, EASYROCK, now automates the removal of shrink film from glass loading units while enhancing safety, efficiency and customization – all in a significant breakthrough that reduces risk, conserves energy and maintains high production rates.

Recognized worldwide as a leading industrial automation supplier, EMS' engineering expertise has impacted a wide variety of industries – all thanks to the fusion of technological know-how. One of the group's latest innovations, EASYROCK, is the result of that same solid background, which is combined with the goal of providing customers with increasingly high-performance and sustainable solutions.

TROUBLESHOOTING SAFETY HAZARDS

EASYROCK is EMS' robotic unwrapping system for the automatic removal of shrink film from loading units of hollow glass intended for subsequent depal-



letizing. Manual film removal involves risks that originate from use by plant personnel of both cutting tools and ladders, passage on handling conveyors and the potential for items falling from the load unit. As such, installing EASYROCK at the infeed of depalletizing lines will greatly increase the overall safety of the working environment, as well as boosting line efficiency and providing maximum application flexibility.

FEATURES THAT STAND OUT

Indeed EASYROCK is equipped with a system that performs a preliminary analysis of the load unit (LU), thus enabling:

- The automatic detection of the workability of the loading unit upon pallets.
- The acquisition of key data concerning the LU for the proper management of all subsequent operations.
- The handling of different LU formats without the need for operator intervention.

EASYROCK makes use of a motorized rotating blade cutting system that ensures the integrity of the product and layer pads while focusing upon sustainability by reducing the use of heating elements or hot air blowers to cut the film - which significantly decreases energy consumption.

The patent pending, multifunction head is the system's core as it can manage film pick, cut and removal in a single station.

MODULAR DESIGN FOR CUSTOM CONFIGURATIONS

Here the modular design of the EASYROCK system allows customers to tailor configuration according to their production needs.

Two different devices are available for automatic waste film handling, namely:



- The film shredding and suction system.
- The film compacting system.

EASYROCK can be configured with auxiliary modules that can be implemented according to the type of LU being handled. These modules are:

- Top press plate.
- Straps removal system for cases where plastic strapping is present in addition to plastic film.

The use of a robot keeps maintenance costs low while enabling production rates of 15 to 60 load units-per-hour with an option to increase output even higher to achieve 90 load units-per-hour. By so doing, EASYROCK rep-

resents a breakthrough in automation innovation that optimizes the production process while increasing factory safety. ■



EMS Group S.p.A.

Via G. Galilei, 29
42027 Montecchio Emilia (RE),
Italy
Tel.: +39 0522 861911
Email: ems@emsgroup.com
www.emsgroup.com