

PALLETIZZAZIONE ISLAND E-PAL 3



The E-PAL 3 palletizing island is a system made up of an Anthropomorphic Robot able to handling up to 3 incoming product lines and an equal number of exit conveyor for full pallet unloading.

The feeding area, handling products during robot picking up (depending on the format) is carried out by motorized conveyor belts.

The pallet exit transport system is made by motorized chain roller conveyors, able to manage (in addition to the pallet in the composition phase) a two pallets buffer for each of the 3 exit lines (one ready for picking from stock and one acting as a buffer).

The special modular gripping system, designed to meet the specific needs of each type of product, allows multiple picking of products (boxes) and at the same time the removal of empty pallets and the introducing of the relative separating layers.



E-PAL 3



The machine is composed by the following groups:

- FEEDING GROUP WITH PRODUCT FORMATION (ONE FOR EACH ENTRY LINE) for the arrival management, separation, counting and products queue formation coming from the upstream machines
- ANTHROPOMORPHIC ROBOT WITH PICKING HEAD (COMAU PAL-180) for products picking (by suction cups) from the feeding group and the deposit in the relative outgoing pallet or intermediate carton layer introducing .
For empty pallet picking from pallet warehouse by lateral mechanical arms
- INTERMEDIATE LAYER CARTONS WAREHOUSE GROUP for collecting and intermediate layer carton picking for introducing between the layers making up the pallet
- EMPTY PALLETS WAREHOUSE GROUP for picking and depositing empty pallets in the relative loading station
- PALLET EXIT TRANSPORT GROUP (ONE FOR EACH ENTRY LINE) composed by 2 conveyors in sequence; the first for full pallet advancing to the waiting station (buffer), the second for pallet transporting to the unloading area (with trans-pallet or forklift)

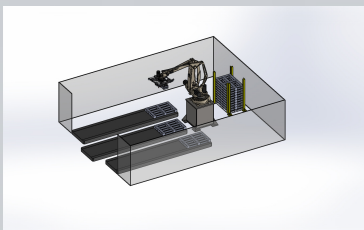
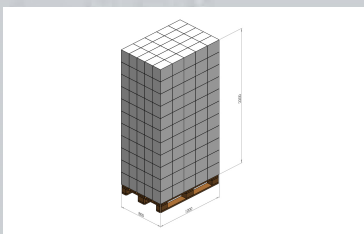
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TECNICAL DATA:

Dimensions (mm)	L=8000 P=6500 A=2450
Installed Power	12 Kw
Power Supply	400 Vac - 50 Hz
Electrical Protection	IP54
Air Consumption	25 NI/1'
Robot Weight	1250 Kg
Working Temperature	min 5°C max 40°

PALLET MAXIMUM DIMENSION :

X = 800 mm; Y = 1200 mm; Z = 2200 mm



ROBOT TECNICAL DATA:

- Axis Number: 4
- 360° working area
- Payload: 180 Kg
- Cycle/Hour Maximum: 900 (15 PPM)



The product, arrived in the entry area, is aligned for pick out



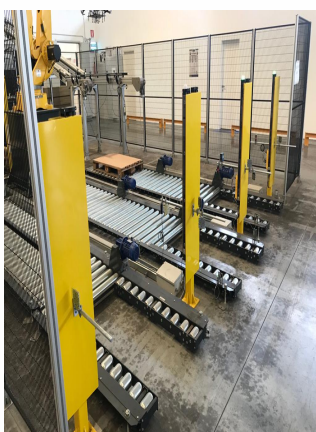
After picking up, the robot place the product on the relative pallet



At each completed layer the robot picks up the intermediate layer carton from the warehouse (if required by the format)



After full pallet advancement the robot picks up the new empty pallet from the warehouse



After pallet filling, is advanced to the unloading station (if free) or to the intermediate station (buffer)



Arrived in unloading area the completed pallet remains awaiting unloading

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