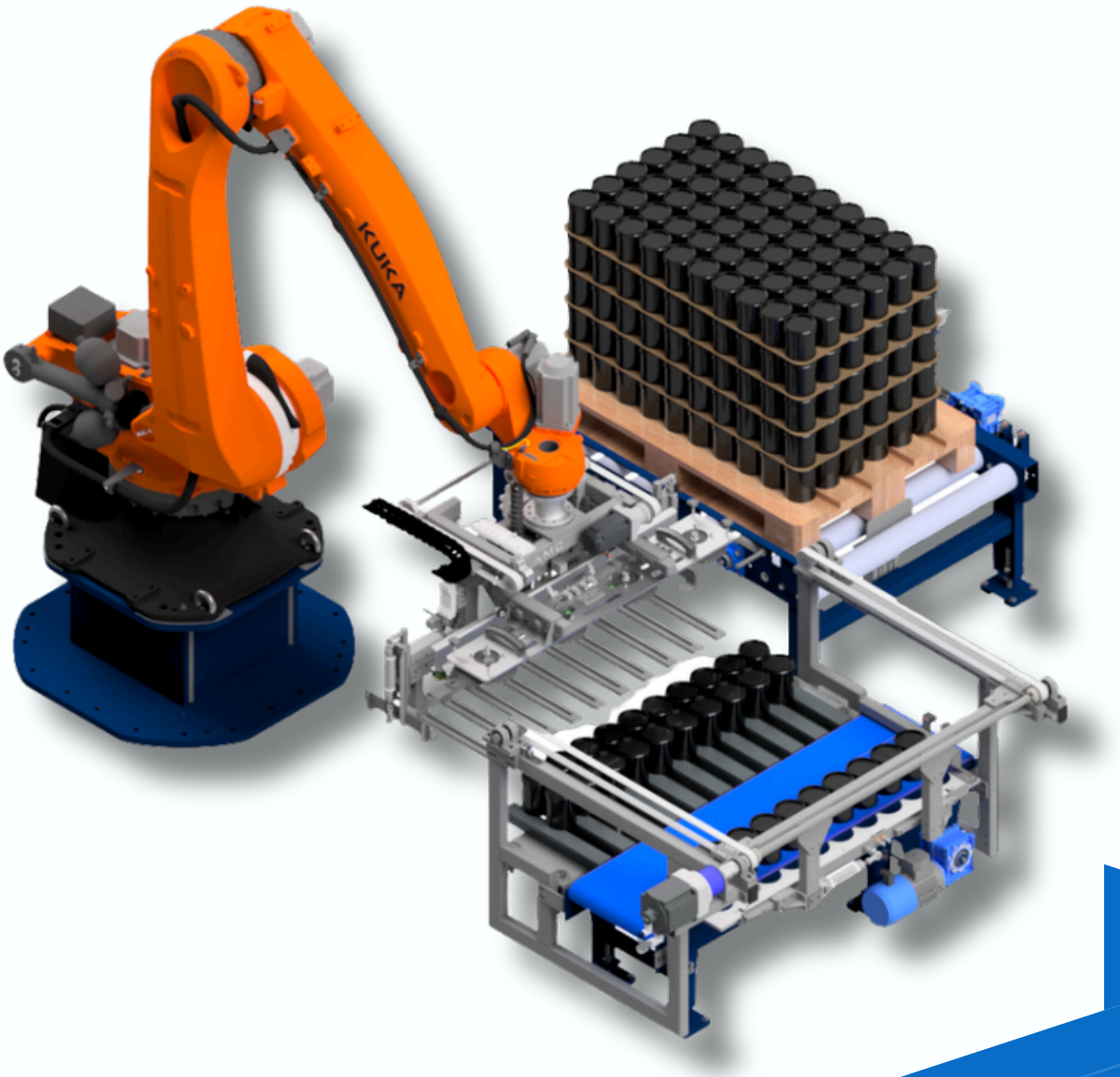
MULTIFORMAT AUTOMATIC PACKAGING PALLETIZING LINE

LPE SERIES



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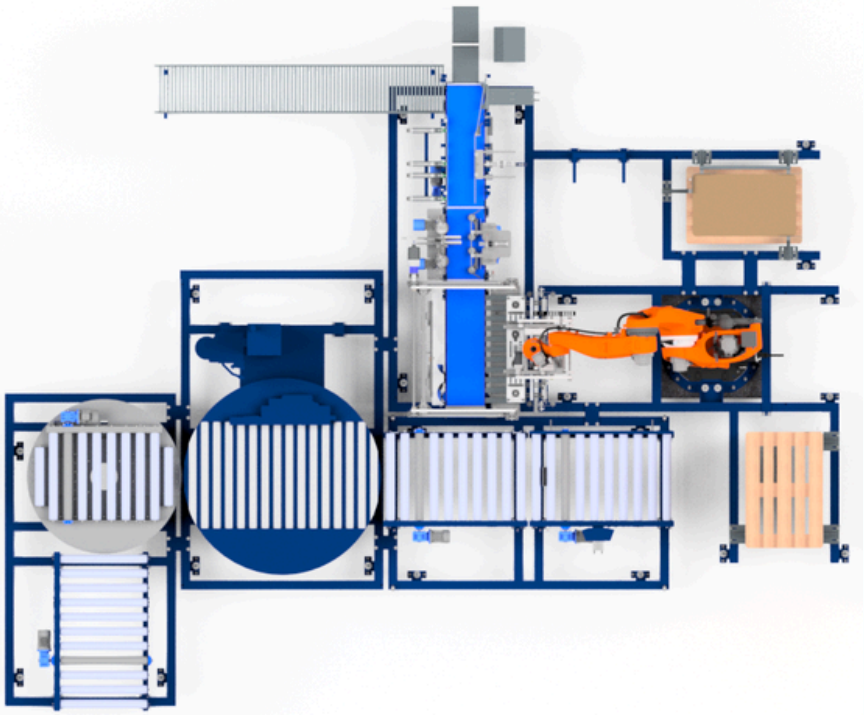
Project for the automatic palletizing and strapping of various container formats. Our solution is capable of palletizing multiple formats using a single robot, for which we have designed a gripper that can handle different container sizes or, with minor adjustments, adapt to bags, boxes, or other types of containers.



GENERAL FEATURES

- Multi-format line constructed in painted carbon steel.
- Kuka KR 240 PA R3200 robot.
- Pallet type: European.
- Pallet storage capacity: 12 units.
- Capacity of the interlayer cardboard storage area: more than 250.
- Maximum output: 20 pallets/hour

- 3 different jar sizes:

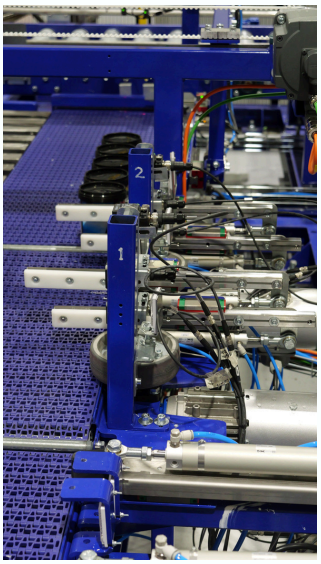
15 lts. maximum weight 28 kgs.	4 lts. maximum weight 8 kgs.	0,75 lts. maximum weight 1,5 kgs.
Output 9 containers/min.	Output 14 containers/min.	Output 16 containers/min.
Palletized in 2 or 3 tiers with 11 containers per tier	Palletized in 3 tiers with 25 containers per tier	Palletized in 5 tiers with 60 containers per tier, with cardboard dividers between each tier

VIDEO



INSTALLATION COMPONENTS

- **Can feeding line:** Pneumatic actuators regulate the flow of cans into the system.
- **Can rotation station:** This station positions the can handles so they do not interfere with the palletizing process. It is optimized to operate at high production rates.
- **Can grouping area:** The cans are grouped according to a customer-defined pattern to ensure efficiency and production during the palletizing process.
- **Industrial robot:** An anthropomorphic industrial robot has been installed to maneuver the various cans.





- **Multi-format robot gripper:** A tool has been manufactured with a design that allows it to grasp different types of cans with minimal adjustments. Due to its design, this gripper can also palletize other items such as bags, boxes, etc.
- **Pallet storage:** Pallet changes are performed automatically. To this end, we have incorporated a high-capacity storage system into the facility.
- **Interlayer cardboard storage:** For some formats, it is necessary to place sheets of cardboard between the different layers of containers. A high-capacity cardboard storage area has been incorporated, and the robot automatically places the cardboard sheets.
- **Conveyor lines:** Our roller conveyor lines transport the finished pallets to the exit area, so that operators receive the pallets ready for use.
- **Automatic strapping machine:** An automatic strapping machine has been installed to strap the completed pallets, so that they are ready for storage or shipment upon removal.

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