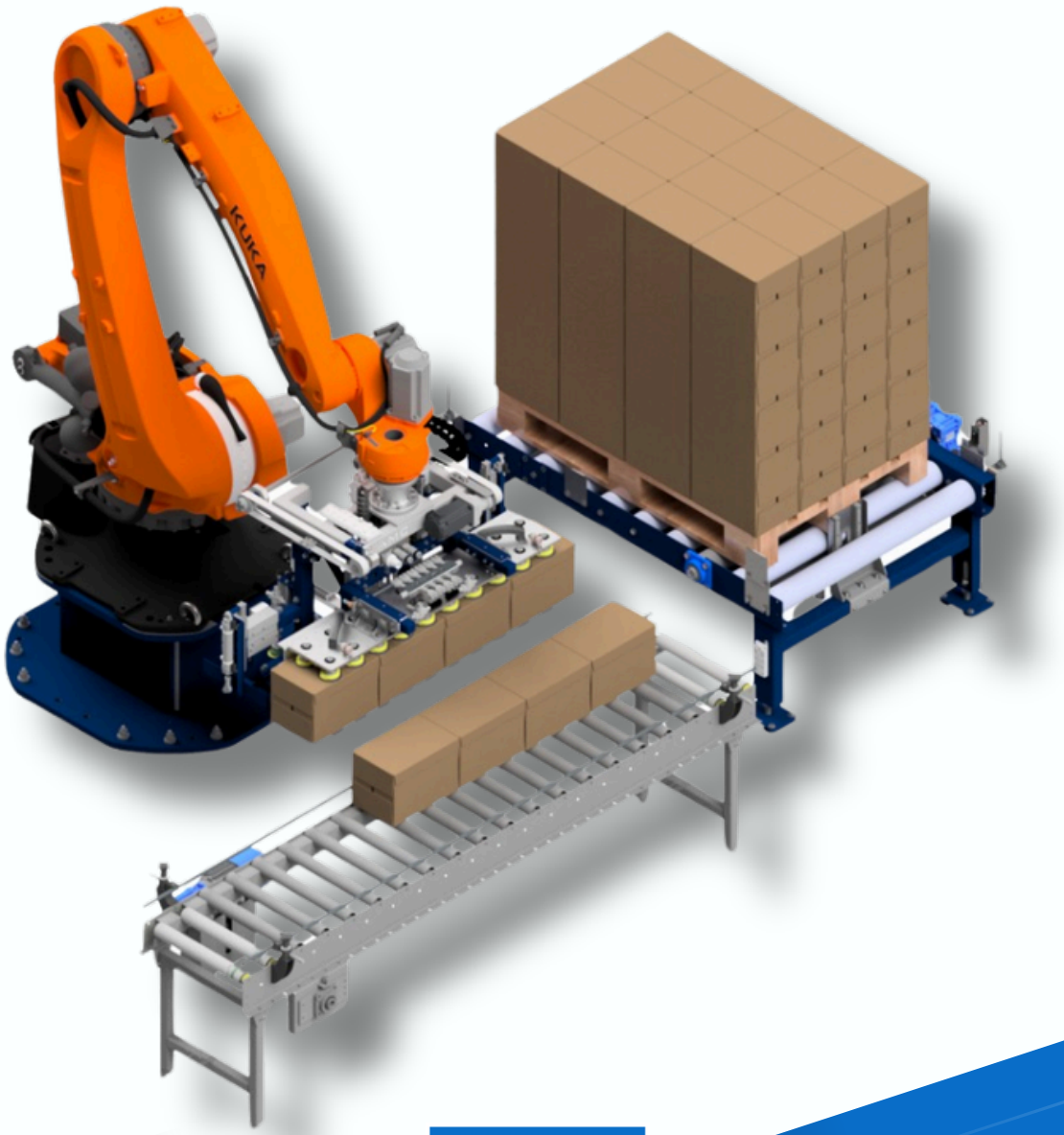
MULTIFORMAT AUTOMATIC BOX PALLETIZING LINE

LPC SERIES



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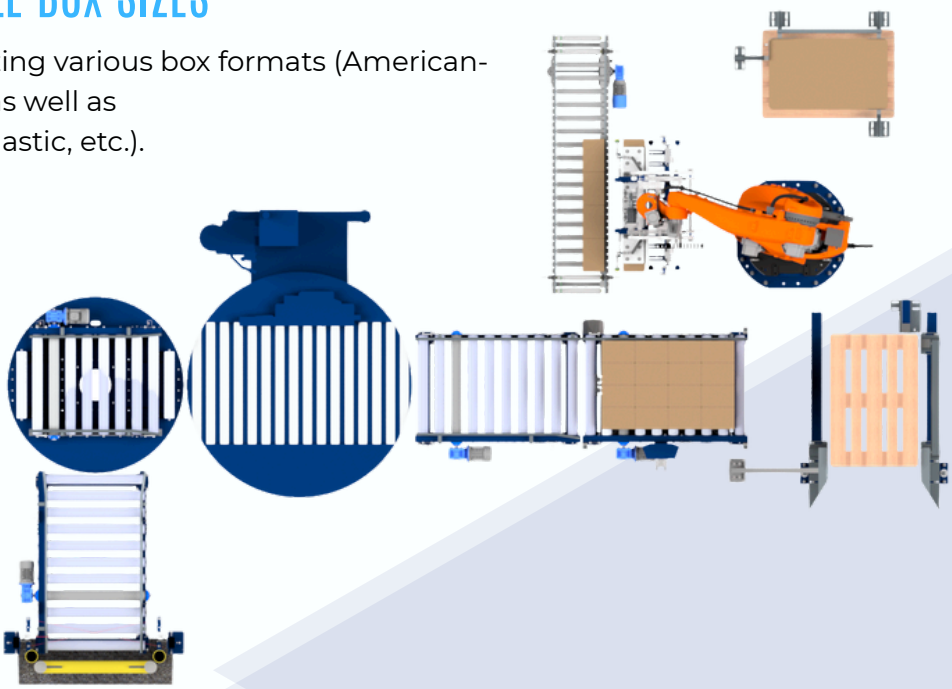
A line designed for the palletizing of boxes of various sizes and formats using an industrial robot. We design robotic cells capable of adapting to multiple plant configurations, packaging types, and production volumes. This allows for their implementation without altering the existing layout, maximizing space utilization and ensuring operational continuity.
These solutions are particularly effective when flexibility is required to adapt to changing product formats or lines with limited space, without compromising pallet stability or product traceability.

GENERAL FEATURES

- Made of painted carbon steel (or, optionally, stainless steel).
- 5-axis palletizing robots.
- Pallet type: European (1200x800 mm) or American (1200x1000 mm).
- Capacidad del almacén de palets: 12 unidades.
- Storage capacity for interlayer cardboard: more than 250.

ACCEPTABLE BOX SIZES

Our lines are capable of palletizing various box formats (American-style, self-assembling, B1, etc.) as well as
various materials (cardboard, plastic, etc.).

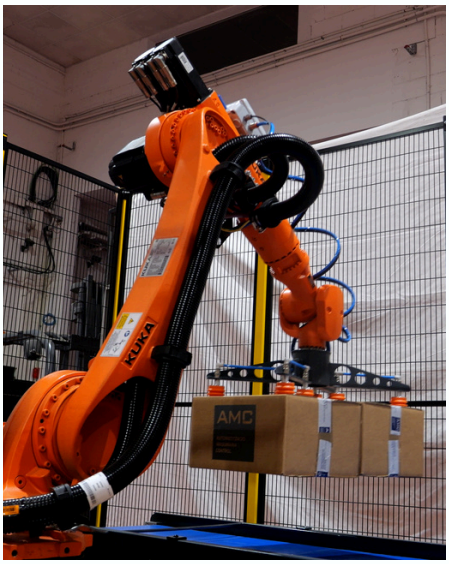




INSTALLATION COMPONENTS

To adapt to the needs of our various customers, our product lines can include the following features.

- **Conveyor lines:** We design and manufacture conveyor lines tailored to each project to transport boxes from the end of the customer's production line to the robot's pickup points. We also handle the conveyor lines that transport pallets to the exit of the palletizing facility.



- **Weighing equipment:** We integrate weighing systems to check the weight of boxes before they are palletized.

- **Strapping equipment:** We integrate automatic strapping machines that secure the completed pallets with strapping, so they are ready for storage or shipment upon removal.



- **Labeling systems:** A fully automated labeling system applies labels to products, packaging, and containers as part of industrial production. These systems print the required label themselves before applying it and can place it anywhere on the box.

- **Machine vision and quality control systems:** Robotic cells can be connected to automated conveyors, machine vision systems, and quality control sensors, creating a fully autonomous end-of-line system. They enable the detection of deviations, validation of positioning or dynamic adjustments in real time. The integration adapts to the protocols and control systems you already have in use (PLC, SCADA, MES), ensuring product traceability all the way to the final pallet.

- **Automatic pallet change:** A pallet storage area is incorporated, and the robot is responsible for placing an empty pallet on the palletizing line whenever a pallet change is needed.

- **Interlayer storage area:** A separator storage area (cardboard, plastic, etc.) is incorporated, and the robot is responsible for placing the separators after a layer on the pallet has been completed.

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