

PAL - X1 LTS - 6

Technical Data Sheet

What it is and what it promises

Automates the stacking of finished-product pallets with precision, stability, and consistent speed. Each layer is placed with millimetric accuracy,

ensuring a continuous and reliable production flow. Designed to optimize the line and drastically reduce downtime.



**ADVANCED
PRECISION**



**INTELLIGENT
CONTROL**



**IMMEDIATE
SUPPORT**

KINEON

Registered address: P.zza Cavalieri di Vittorio Veneto n°3, 12050, Guarene (CN)
Operational address: Loc. Rivetto Sant' Anna n°108, 12040, Monteu Roero (CN)

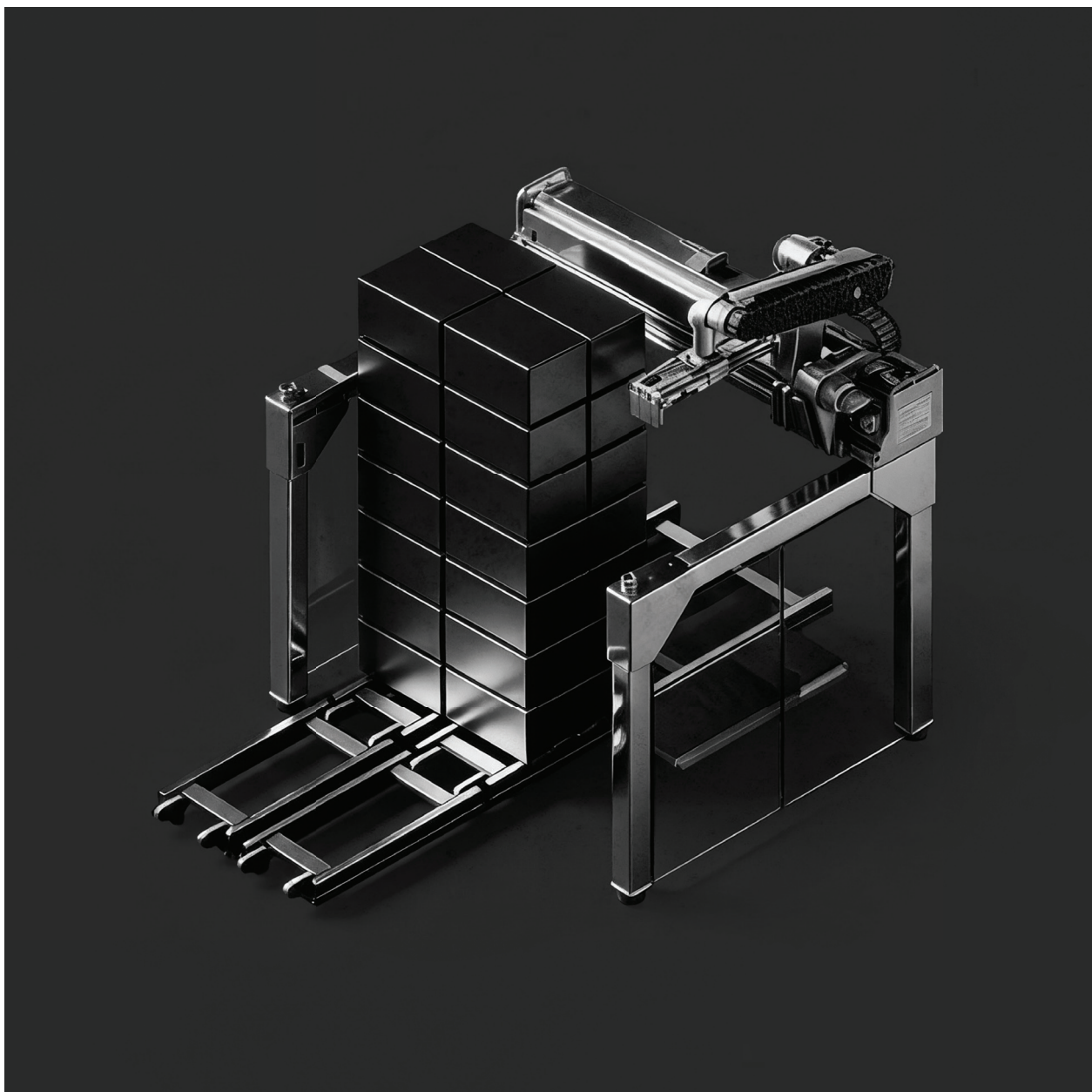
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Precision automatic palletizing

The PAL-X1 LTS-6 is an **automatic industrial robot designed to pick boxes, bundles, or cartons coming from the production line and place them onto an empty pallet** according to a predefined pattern. It handles the stacking of finished-product pallets quickly and stably, completely replacing manual labor.

Architecture: Exclusive LTS-6 kinematics (Linear Telescopic System - 6 Axes) with the robot mounted at height (1.8-2.4 m).

Proprietary Control (RPL): The management software is developed in-house and includes Artificial Intelligence (AI) functions. It enables intuitive programming and quick format changes.

Remote Support: the system is equipped with remote assistance functionality for immediate diagnostics and support, reducing machine downtime.

PARAMETERS	SPECIFICATION	UNIT	NOTE FOR AGENT
MODEL	PAL-X1 LTS-6	-	Linear Telescopic System - 6 Axes
RATED SPEED	720	cycles/ora	Reference productivity
PAYLOAD	120	kg	Allows handling of complex grippers and high loads
MAX PALLET HEIGHT	2800	mm	Supports high-density pallets and vertical storage
REPEATABILITY	± 0.5	mm	Positioning accuracy
MAX FOOTPRINT	~4.8x 2.2	m	Total layout for the Full Option version



Value added

01. **TURNKEY SOLUTION**

The robot, RPL control system, and end-of-arm tooling (EOAT) are designed and manufactured in-house. This ensures perfect integration and a single point of responsibility for warranty and service.

02. **VERSATILE GRIPPING**

The end-of-arm tooling can be configured as a gripper, vacuum, or hybrid version. The hybrid version handles both products and interlayer sheets with a single tool.

03. **UNIQUE STRENGTH**

The system combines a 120 kg payload capacity with the ability to palletize up to 2,800 mm, ensuring stability with heavy loads and high stacking heights.

04. **OPTIMAL LAYOUT**

The robot's elevated mounting position and integrated structure free up floor space, facilitating safe passage and access for operators and forklifts.



Scalability and customization

The PAL-X1 LTS-6 platform is not sold in fixed packages, **but as a modular and scalable solution that adapts perfectly to the customer's desired level of automation.** The agent can configure the machine continuously between the entry level and maximum automation, covering the full price range.

LEVEL 1: PAL-X1 BASE

Functionality: Supply of the robot with end-of-arm tooling (EOAT) and pallet handling in a single manual floor position.

Commercial Objective: Maximum accessibility and minimum initial investment. It eliminates manual physical effort, introducing end-of-line automation with a flexible footprint.

LEVEL 2: MODULAR CUSTOMIZATION

This level represents the phase in which the customer can add optional modules to optimize efficiency and adapt the machine to their production needs.

The price increases gradually based on the selected accessories.

Dual Pallet Module: by adding a double station, managed manually or in semi-automatic mode, operational continuity is ensured. While the robot works on one pallet, the operator can remove the finished pallet from the other station.

Material Handling Module: the integration of an Automatic Pallet Magazine and/or Interlayer Sheet Inserter significantly reduces the required human interaction, increasing line autonomy and expanding the available work buffer for smoother production.

Logistics Module: the integration of conveyors or roller systems enables automatic pallet infeed and outfeed, preparing the system for full warehouse logistics integration and optimizing the production flow from start to finish.

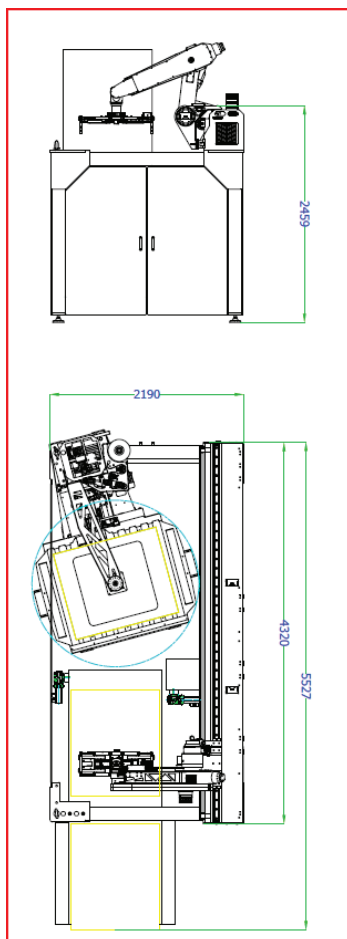


Scalability and customization

LIVELLO 3: PAL-X1 FULL WRAP

Functionality: The Full Option version includes full automation (conveyors, pallet magazine, interlayer sheet inserter, and integrated stretch wrapper).

Commercial Objective: Maximum efficiency and autonomy. The pallet exits the cell fully wrapped and ready for shipment. Ideal for 24/7 working cycles in minimal spaces.



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Compact in space. High performance.
Automates the line and speeds up production.