

DEPAL - X1 LTS - 6 — Technical Data Sheet

What it is and what it promises

The beating heart that keeps the production line constantly in motion. It picks up product layers from pallets and delivers them to production

with precision and perfect timing, transforming every stage into a continuous flow, without pauses or interruptions.



**ABSOLUTE
PRECISION**



**INTELLIGENT
CONTROL**



**SMART
MAINTENANCE**





Robotic energy in motion

The PAL-X1 LTS-6 Depalletizer is a high-precision robotic system designed to pick layers of bottles, jars, cans, or boxes from pallets and place them onto the production line. It ensures a continuous and safe flow, eliminating physical strain and risks for operators. Key Features:

LTS-6 Architecture: telescopic 6-axis robot mounted overhead (1.8-2.4 m).

RPL Control: proprietary software with AI for smooth trajectories and layer recognition.

De-Wrapping Module (optional): automatic removal of stretch film for a zero-attendance production line.

Remote Support: integrated remote assistance for immediate diagnostics and reduced machine downtime.

PARAMETERS	SPECIFICATION	UNIT	NOTE FOR AGENT
MODEL	DEPAL-X1 LTS-6	-	Linear Telescopic System with 6 Axes
NOMINAL SPEED	720	cycles/hour	Constant productivity (12 cycles/minute)
PAYLOAD CAPACITY	120	kg	Handles heavy gripper heads (vacuum/magnetic)
MAX. PALLET HEIGHT	2800	mm	Ideal for depalletizing tall loads
REPEATABILITY	± 0.5	mm	Millimeter precision for conveyor infeed
MAX. FOOTPRINT	~4.8x 2.2	m	Ultra-compact layout (Full Version)



The added value

01. ——— **TURNKEY SOLUTION**

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

02. ——— **AUTO-STRIP**

The optional system automatically cuts and removes the plastic film. It eliminates the need for a manual de-wrapping operator and the use of dangerous blades.

03. ——— **VERSATILE GRIPPER**

The tool can handle both the product (via a vacuum or magnetic plate) and the removal of the interlayer sheet within the same cycle, depositing it in a dedicated area.

04. ——— **OPTIMAL LAYOUT**

The overhead mounting and integrated structure free up floor space, facilitating the passage of forklifts and operators and allowing the installation of waste areas beneath the robot.



Scalability and customization

The DEPAL-X1 LTS-6 platform is a modular solution that perfectly adapts to the desired level of automation, covering the entire investment range.

LEVEL 1: DEPAL-X1 BASE

Functionality: Supply of the robot with gripping tool and handling of a single manual floor-level pallet position.

Commercial Objective: Maximum accessibility. It allows line loading automation with minimal investment and a flexible footprint.

LEVEL 2: MODULAR CUSTOMIZATION

The price increases gradually based on the modules added to optimize efficiency:

Interlayer Handling Module: Automatic system for picking and stacking cardboard sheets between product layers.

Pallet Warehouse Module: For automatic evacuation and stacking of empty pallets once unloaded.

Logistics Module: Integration of roller conveyors for automatic entry of full pallets, increasing line autonomy.

LEVEL 3: FEEDER FULL AUTOMATION

Functionality: Includes automatic film removal (de-wrapping), interlayer handling, pallet evacuation, and logistics integration.

Commercial Objective: Maximum efficiency and full autonomy. The system receives the sealed pallet and delivers product ready for filling, ensuring seamless flow. Ideal for 24/7 zero-attendance operation

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**Line autonomy. Compact layout.
Keep production always in motion.**