KINEON

SOLUTIONS
FOR ADVANCED
MANUFACTURING

FEEDER - X1 LTS - 6 — Technical Data Sheet

What it is and what it promises

More than just a loader: it is the connecting link that eliminates every bottleneck between warehouse and production.

Like an intelligent "buffer" system, it synchronizes pallet handling with the rhythm of the case erector, creating a continuous and unstoppable flow.

HIGH-SPEED
PERFORMANCE

OPERATIONAL
VERSATILITY

INTEGRATION
FLEXIBILITY

KINEON SRL

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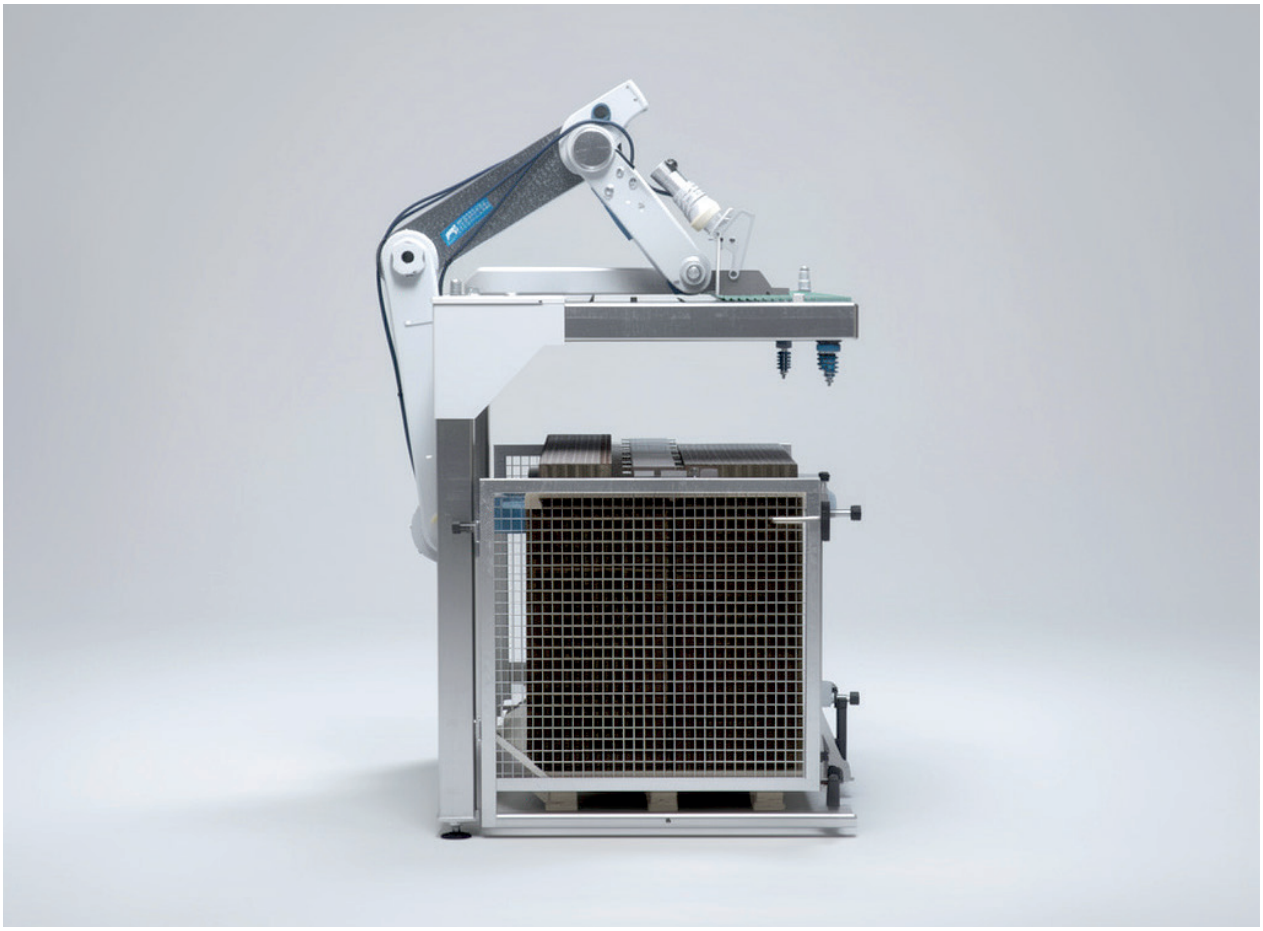
Technical Data Sheet

The bridge between warehouse and production

FEEDER-X1 LTS-6 is a high-speed industrial robot **designed to automate the feeding and handling of flat or stacked consumables** (such as cartons, blanks, honeycomb pads, and separators).

It precisely picks items and feeds them into forming or case packing machines (new or existing), **ensuring a continuous flow while reducing manual intervention and bottlenecks.**



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The added value

01.
SPEED

Theoretical throughput of 5,000 pieces/hour or 720 feeding cycles/hour, eliminating manual feeding bottlenecks and maximizing the productivity of case erectors.

02.
SAFE BYPASS

The overhead-mounted robot frees up the working area and allows manual intervention on the downstream machine, ensuring production continuity even when the robot is not in operation.

03.
UNIQUE KINEMATICS

The system uses the same LTS-6 robot as the PAL-X1, programmed for standardization, spare parts, and maintenance (RPL language)

04.
OPTIMAL LAYOUT

Overhead robot installation and integrated structure free up floor space, facilitating safe passage for operators and forklifts.

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Technical details

PARAMETERS	SPECIFICATION	UNIT	NOTE FOR AGENT
MODEL	PAL-X1 LTS-6	-	Linear Telescopic System - 6 Axes
NOMINAL SPEED	720	cycles/hour	Reference productivity (12 cycles/minute)
PAYLOAD CAPACITY	120	kg	Enables handling of complex grippers and heavy loads.
MAX. PALLET HEIGHT	1700	mm	Supports high-density pallets and vertical storage.
REPEATABILITY	± 0.5	mm	Positioning accuracy
MAX. FOOTPRINT	~2.8x 2.2	m	Total layout for the Full Option version.

Typical Applications

Blank/Carton Feeding: Picking of flat blanks and placement into the forming area for the production of displays or complex boxes.
American Case Feeding (RSC/KSR): High-speed pick from stacks of cartons and transfer to the case erector.

Divider/Honeycomb Insertion: Pick & place of separators for feeding divider/honeycomb inserter systems.

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Scalability and customization

LEVEL 1: FEEDER BASE

Functionality: Supply of the LTS-6 robot with end-of-arm tooling (EOAT) configured for a single format and a single manual pick position (operator reloads parts).

Commercial Objective: Maximum accessibility and minimal initial investment. Eliminates physical effort and repetitive pick & place operations.

LEVEL 2: MODULAR CUSTOMIZATION

This level adds modules to increase autonomy and flexibility.
For example:

Autonomous Warehouse Module (HFF):
Adds an extra pallet pick position to extend autonomy and allow machine operation without downtime due to pallet changeovers.

Quick Format Change Module: Integration of multi-format grippers or automatic tool-changing systems to handle different geometries on the same line.

Vision & Control Module: Integration of a 2D/3D vision system for picking from non-precise positions and for quality control.

LEVEL 3: FEEDER FULL AUTOMATION

Functionality: The Full Option version includes product feeding logistics (pallet conveyors).

Commercial Objective: Maximum efficiency, autonomy, and continuous speed for 24/7 unattended operation cycles.

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Advanced robotic performance.
Unlocks production flows without limits.

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