

Intuitive Picking Assistant

for Kardex Shuttle

Product Guide

kardex

Intuitive guidance at the point of work

Warehouse and picking processes are becoming increasingly complex. Higher SKU diversity, shorter order cycles, and growing expectations for fast and accurate order fulfilment place greater demands on both warehouse operations and the people working within them.

Operators need to maintain accuracy and productivity throughout repetitive picking and putting tasks. This makes simple, intuitive processes increasingly important in day-to-day operations.

The Intuitive Picking Assistant for Kardex Shuttle addresses this need by bringing guidance and interaction directly to the point of work, helping reduce cognitive load and keeping operators focused on the task at hand.

Product overview

What is the Intuitive Picking Assistant for Kardex Shuttle?

The Intuitive Picking Assistant (IPA) for Kardex Shuttle is a visual guidance and operator assistance system that provides intuitive, real-time support directly at the access opening.

It combines projected visual guidance, camera technology, software, and an ergonomic interaction pad to create a seamless interface between operator and machine. Relevant process information and controls are provided within the immediate working area.

The IPA for Kardex Shuttle guides operators throughout the picking and putting process with clear, step-by-step visual instructions and immediate feedback. Seamless integration with the warehouse management system (WMS) supports synchronized, process-driven operations.

Key components

The Intuitive Picking Assistant for Kardex Shuttle brings together several hardware and software components to create an integrated operator experience.

Projectors display visual guidance, process information, and virtual controls directly within the working area

Integrated cameras detect hand movements and interactions with storage locations in real time

An **ergonomic interaction pad** provides a comfortable surface for projected controls and direct operator interaction

A **computer** processes information from the cameras, projectors, and the connected warehouse management system

Software integration connects the Intuitive Picking Assistant with the WMS and enables process-driven guidance throughout the workflow

How does it work?

The solution supports the operator throughout the three main phases of the picking and putting process.

1

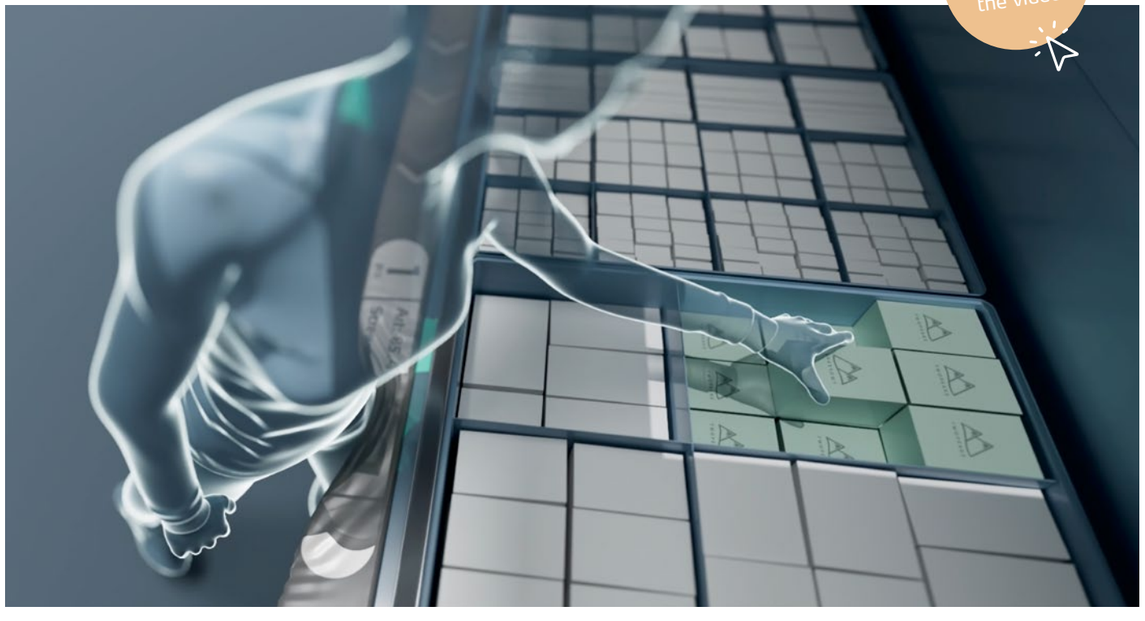
Approach and locate
Visual guidance leads the operator towards the relevant location, where the correct storage position on the tray is clearly highlighted. A countdown on the ergonomic interaction pad shows the remaining time in seconds until the tray is ready for picking. Machine movement and approach information support safe interaction with the Kardex Shuttle.

2

Pick and put
During the pick or put process, the item to be picked and the required quantity are displayed close to the relevant storage location on the ergonomic interaction pad. Integrated cameras detect hand movements and interactions with storage locations in real time. If the operator reaches into an incorrect storage location, the system provides immediate visual feedback. Audio feedback can also confirm interaction with the correct compartment.

3

Interact
The ergonomic interaction pad provides virtual controls directly at the access opening. Operators can confirm completed picks, adjust quantities and specify the reason for any changes, as well as access relevant machine and process information without moving to a separate control interface.



Benefits

Intuitive operation
Relevant information and dynamic visual controls are available directly within the working area, helping operators stay focused on the current process step. This simplifies everyday operation and helps reduce cognitive load.

Accurate picking
Clear visual orientation helps identify the correct storage location, while real-time feedback alerts the operator to incorrect interactions. This allows mistakes to be recognized and corrected directly during the process before they can affect subsequent steps.

Efficient workflows
Operators spend less time searching for the correct location or checking information elsewhere. By bringing guidance and interaction together within the same working area, the IPA for Kardex Shuttle creates a more streamlined connection between operator, storage system, and picking and putting process.

Easy onboarding
Intuitive visual guidance helps new and temporary operators quickly understand and follow picking processes with minimal training. Clear, step-by-step guidance reduces process complexity and supports consistent task execution, regardless of the operator's level of experience.

Ergonomic operation
The ergonomically designed interaction pad is positioned directly at the access opening. In addition to displaying relevant information and controls, its cushioned surface offers added comfort when operators lean against the access opening during repetitive picking and putting tasks.

Technical specifications

Machine requirements

The Intuitive Picking Assistant for Kardex Shuttle is compatible with defined standard Kardex Shuttle configurations.

The following requirements apply:

✓	Supported access openings	Single access opening
		Multiple access openings on opposite sides
✓	Supported tray widths:	1,850 mm
		2,050 mm
		2,450 mm
		2,850 mm
		3,050 mm
		3,250 mm
		3,650 mm
		4,050 mm
✓	Supported tray depths:	813 mm
		864 mm
✓	Suitable for dual tray delivery	
✓	Suitable for stored goods and boxes up to 400 mm in height	
✓	Approximately 400 mm of storage space above the access opening is required for installation	

Software and connectivity

The IPA for Kardex Shuttle is compatible with Kardex Power Pick System from version 5.8 or higher and Kardex Power Pick Cloud with the latest updates. Kardex Drive connects SAP® directly with Kardex automated storage systems, supporting IPA for Kardex Shuttle to operate within SAP®-based workflows. Integration via the Kardex Total Intelligence Concept (TIC) controller enables communication between the warehouse management system and the solution, using the MQTT-based ILA interface.

Internet connectivity is required for remote software updates, including new features and bug fixes.



Global expertise with local presence

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By combining global expertise, unified software solutions, and Life Cycle Services, Kardex helps customers across a wide range of industries achieve sustainable warehouse performance.

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