



Intuitive Picking Assistant

for Kardex Shuttle

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. Machine movement and approach information support safe interaction with the Kardex Shuttle.

2

Pick and put

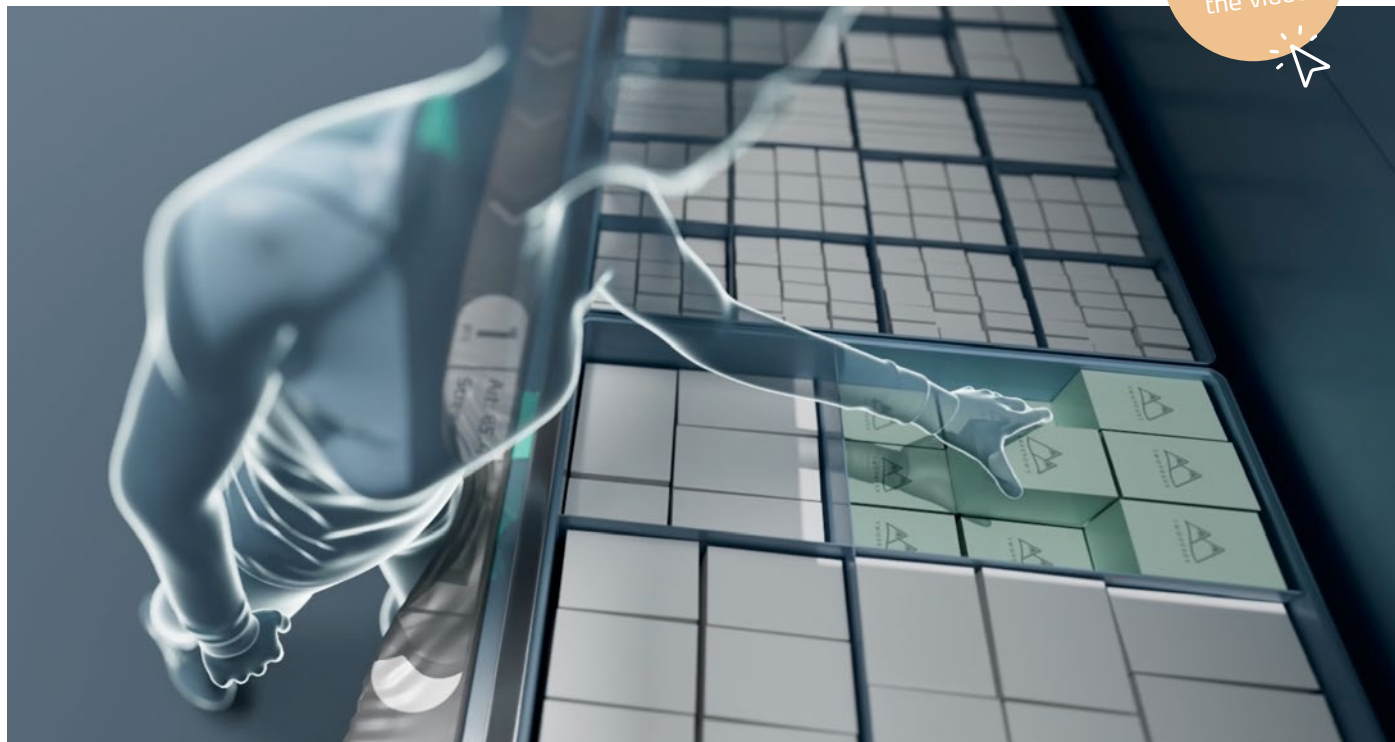
During the pick or put process, the item to be picked and the required quantity are displayed close to the relevant storage location on the ergonomic interaction pad. Integrated cameras detect hand movements and interactions with storage locations in real time. If the operator reaches into an incorrect 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 access relevant machine and process information without moving to a separate control interface.

Click here
to watch
the video



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.

Global expertise with local presence

Kardex is your global partner for smart intralogistics solutions and delivers semi- and fully automated systems worldwide. With a strong international footprint and a broad network of local specialists, Kardex supports you from initial concept and system design to implementation and long-term operational support.

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

Take your intralogistics to the next level and contact your local Kardex team for a complimentary consultation.



Get in touch

