

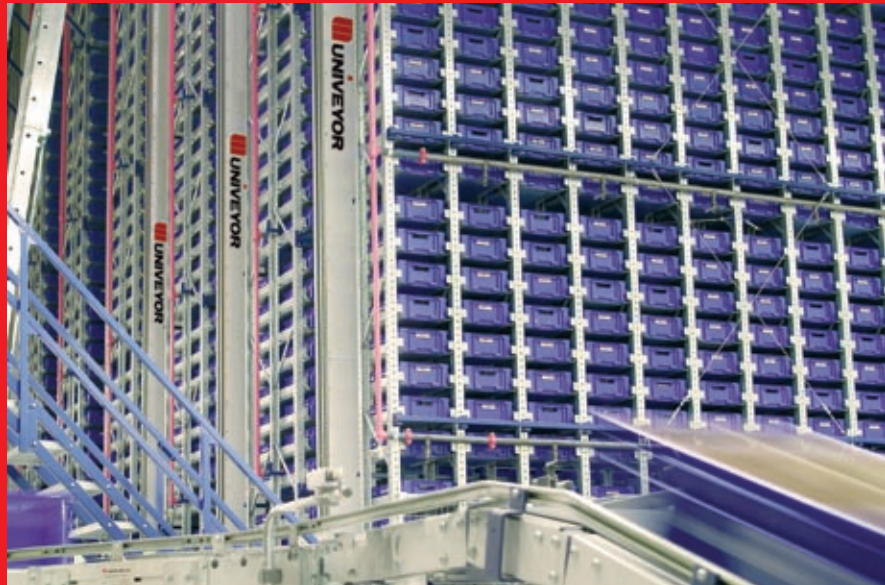


 **UNIVEYOR**

# Miniload Systems

With multiple  
retrievers for  
boxes and cartons





Univeyor is a supplier of complete miniload systems including ergonomic and functional picking and packing stations, conveyors, and a complete control system with graphical Windows user interface and on-line access to the customer's ERP system.

The illustration above shows a miniload storage system with cartons. A custom-designed multi-retriever with automatic width adjustment handles boxes and cartons of various sizes. The items are placed on and picked up from standard rack shelves.

# Univeyor Miniload Systems

## Miniload systems for both boxes and cartons

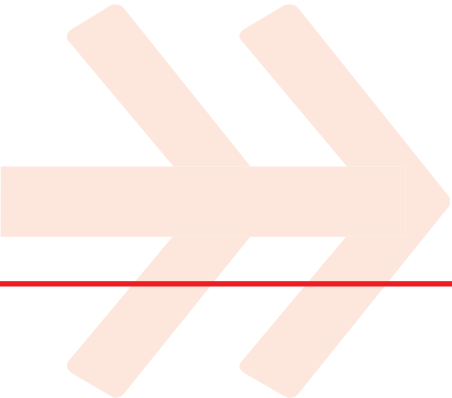
Univeyor's miniload systems meet today's increasing demands for fast and faultless picking, capacity and flexibility. We have implemented miniload systems at a number of large companies and distribution centres that are known for their high standards of reliable and timely delivery.

### STATE-OF-THE-ART TECHNOLOGY IN THE INTELLIGENT STORAGE SYSTEM

The miniload systems can be extended as required. The technology is subject to ongoing development and is based on the latest and safest know-how in this field – including servo engineering with accuracy down to a millimetre, maintenance-free components and automatic corrections e.g. in case of unintentional displacement in the racks.

### MULTIPLE, FLEXIBLE RETRIEVERS

As a speciality, Univeyor is able to offer a number of different retrievers for various purposes – retrievers that may even be customised to suit the current needs of the individual company. We have developed a multi-retriever that can place and pick-up cartons on standard rack shelves and handle almost any type of box or carton. Pages 6-7 show our different "standard" retrievers at a glance.



Picking and packing stations are often supplied as an integral part of a miniload system. Univeyor has specifically developed ergonomically optimised workplaces – with high efficiency and functionality.





Univeyor has delivered complete miniloader systems to, among others, TetraPak (S), Fisher Clinical (UK), Arla Foods (DK), Oticon (DK), Solar (DK & S), Spar Kjøp (N), TOP-TOY (DK), SBS (DK), Danfoss (DK), Fittings Specialisten (DK) and Lauritz Knudsen (DK).

# Univeyor Miniload Systems

## Reliable systems at a wide range of customers


Univeyor has designed and implemented complete miniload systems at a number of large companies with the most stringent demands to logistics – with picking and packing stations, complete conveying systems and an integrated control system linked to the company's ERP system.

### CONTROL SYSTEMS

Univeyor's control systems are in a modular design that flexibly accommodates modifications and extensions. Each module has well-defined interfaces, and the system can be integrated into the customer's existing warehouse management system and overall production system. The software is PC-based with a logical and intuitive graphical user interface that allows system monitoring based on status and statistics for all relevant parameters.

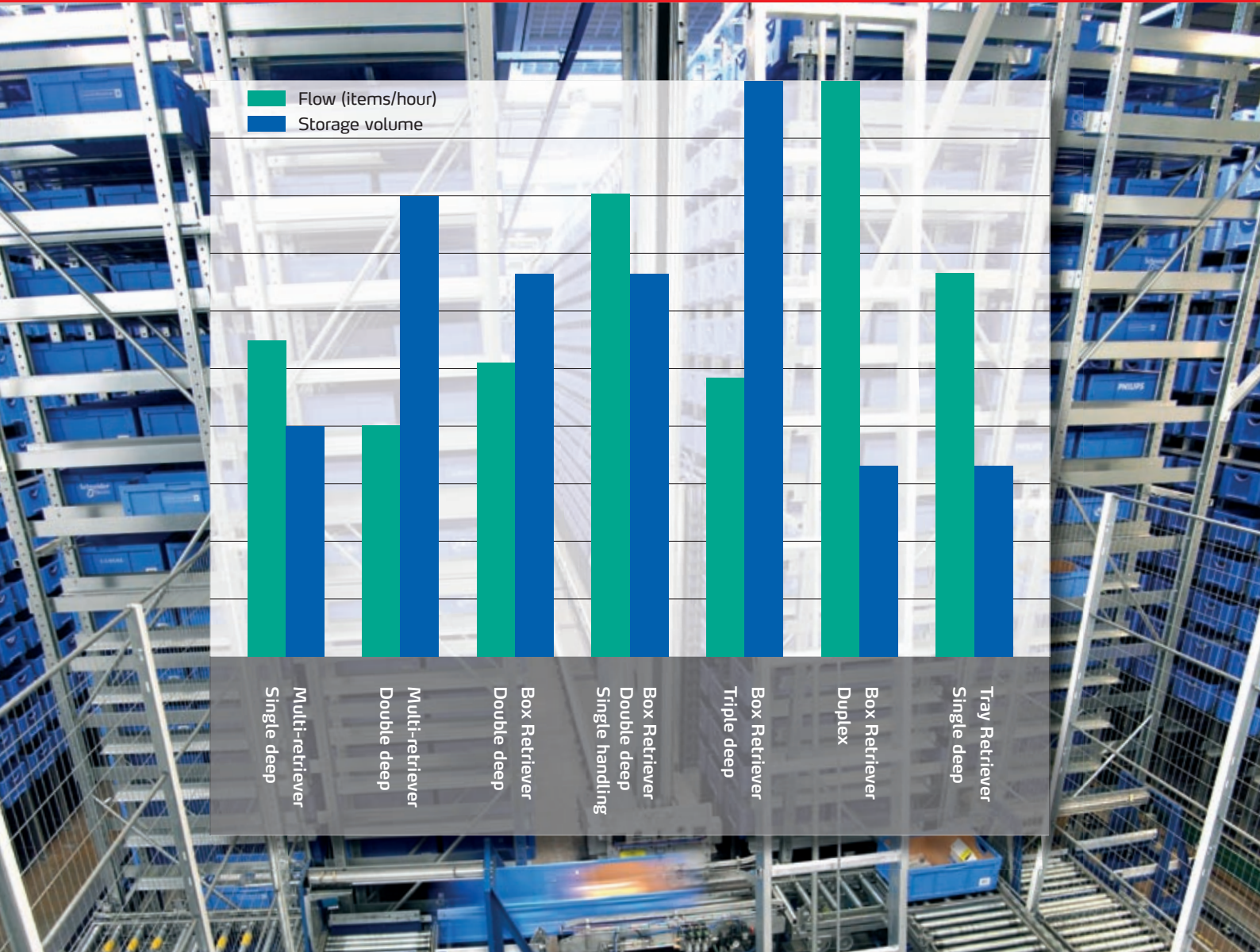
### OPERATIONAL RELIABILITY AND ONLINE SERVICE

Univeyor's miniload is a high-capacity system with a very high degree of operational reliability. The selection of components renders systems that are almost maintenance-free, with very long service intervals. Our maintenance contracts are worked out individually and include for instance the option of a 24/7/365 hotline.



Univeyor offers a modular full scale service management concept including a 24-hour service hotline.

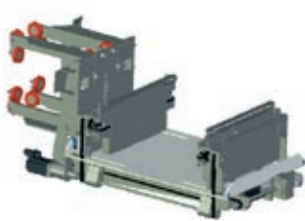




The above figure shows the relative correlation between storage volume and flow (items/hour) for different retriever types. Please note that the data for the miniload retriever are only a guideline - contact Univeyor for dimensioning, optional customisation and a complete logistic system design.

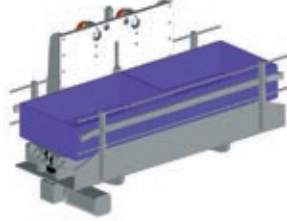
# Univeyor Miniload Systems

## Univeyor multiple, flexible retrievers



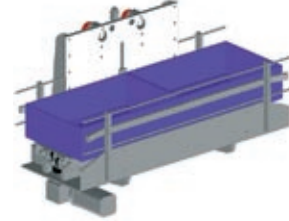
### Multi-retriever

The solution for storing both cartons and boxes. Width-adjustable retriever handles cartons in arbitrary sizes.



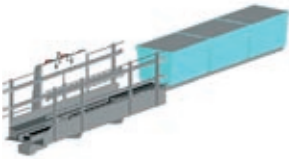
### Box-retriever. Double

The solution for handling plastic boxes - double deep in the shelf location.



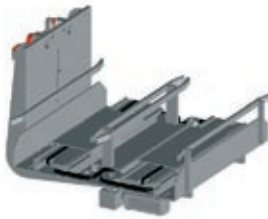
### Double, single handling

The solution for individual handling of plastic boxes double deep - from different locations.



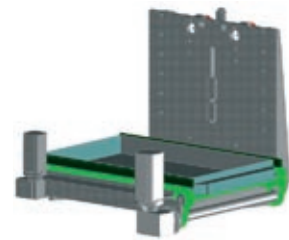
### Box-retriever. Triple

The solution for handling plastic boxes - triple deep in the shelf location.



### Box-retriever. Duplex

Handling two plastic boxes side by side - thus allowing for two different item numbers to be handled at a time.



### Tray-retriever. Single

This solution allows for very compact storing with a high capacity - one box deep in the location.



Univeyor's multi-retriever handles basically all types of boxes and cartons and is available as both single and double deep retrievers. The items are placed on and picked up from long shelves, thus eliminating the need for re-picking from cartons to boxes.





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