Factsheet

Kardex Compact Buffer
The Kardex Compact Buffer is a Vertical Buffer Module (VBM) that provides solutions for fast-growing product ranges with limited storage space. The system uses a lightweight mini-load crane with a telescopic gripper to individually transport bins or trays to the access opening point.

The Kardex Compact Buffer sets new standards in terms of speed, precision, and energy efficiency, offering highly-dense storage and precise picking for small parts and small-volume parts. It is fully scalable with a low investment point and provides a wide choice of inbound and outbound automated interfaces to integrate seamlessly with both existing processes or technology and future automation. The entire transition process from design and planning to implementation requires a quarter of the time compared to similar systems.

Learn more in our customer success stories

Application range

Order picking
By utilizing the goods-to-person principle and offering excellent retrieval performance and considerable space savings, VBMs are especially suitable to pick slow-moving goods. They accurately pick various kinds of articles in small quantities. The Kardex Compact Buffer offers unique benefits to companies with 24-hour service and overnight delivery of goods such as spare parts.

Order consolidation
To quickly and accurately consolidate orders before shipping or packing, the Kardex Compact Buffer combined with the Kardex Java Machine Interface (JMIF) software and automated conveyor connection is the recommended solution. Order bins are scanned, stored and retrieved just-in-time and in sequence without any human intervention.

Assembly kitting
The Kardex Compact Buffer combines order picking and buffering into one system. Complete assembly sets can be retrieved just-in-time and conveyed directly to the assembly workstations. It ensures a high availability and a permanent inventory overview. Compared to conventional shelving, throughput can be increased by up to 200%.
Main components

Rack system
- Scalable design in a 25 mm grid to store bins & trays
- The base frame guides the miniload crane & adjustable leveling feet easily adapt to uneven floors

Miniload crane
- Rotating gripper with telescopic load handling device moves bins or trays
- Lightweight construction enables high energy efficiency

Turntable
- Ergonomic access to one single bin & efficient picking at all unit dimensions
- Provides one bin & simultaneously prepares the next one

Single access opening
- Additional picking access & ideal for replenishment
- Enables controlled access to individual bins or trays

Software & control
- Web-based & compatible with a wide range of hardware
- Added value via enhanced functions

Unit dimensions in millimeters

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth</td>
<td>2,350 (2,450)</td>
</tr>
<tr>
<td>Height</td>
<td>3,000 – 12,000 in 100 mm steps</td>
</tr>
<tr>
<td>Width</td>
<td>1,920 – 19,970 (20,025)</td>
</tr>
</tbody>
</table>

Payloads max. 35 kg/bin

Performance
- 143 bin presentations per hour*
- 130 bin presentations per hour**

Storage capacity
- 1,440 bins*
- 2,880 bins**

Bin dimensions (in millimeters)
- Standard mini-load system compatible bins 600 × 400 (up to 640 × 440)

Learn more about VBM
Complementary technology

Kardex can install its Kardex Compact Buffer either as a stand-alone solution or integrated into an overall logistics concept. By adding further enhancements or combining it with other technologies, users benefit from higher performance results and see improvements in throughput and accuracy.

Workstation equipment
- LED pointer, position indicator, optical status signals, confirmation button, VESA bracket for monitor, sockets & interfaces

Conveyor connection
- Permanent retrieval and replenishment
- Combination of multiple units and remote workstations

Kardex VBM Box
- Maximum storage capacity
- Flexible in design, size and number of storage locations

Life Cycle Service
- Holistic, flexible, and modular service portfolio
- Remote support and optional services like smart monitoring, assistance and conferencing or analytics

Further options and storage environments with air conditioning, fire protection or esd versions are available.
Smart Intralogistics Solutions

Kardex offers an A-Z product portfolio targeting the niche needs of various industries. Discover innovative offers ranging from everyday handling of bins and pallets or storage in controlled environments to fully-integrated automated storage solutions and material handling systems. From day one, the Life Cycle Service team works hand-in-hand to support your project implementation, maintenance and future plans.

kardex.com