



Kardex Megamat

Vertical Carousel Module

Factsheet

kardex

Kardex Megamat

The Kardex Megamat is a Vertical Carousel Module (VCM) using the pater-noster principle to provide quick and precise access to stored goods. This future oriented system, based on the latest technologies, is built with a series of carriers attached in fixed locations to a chain drive. A motor powers the carriers to move in a vertical loop around a track in both forward and reverse directions.

The Kardex Megamat is especially suitable for frequently accessed goods because it conveys the right carrier to the access opening via the shortest possible path. It is the ideal choice when storing products with similar heights. Each unit can be used as a stand-alone solution or connected to a networked system, thereby ensuring the highest level of efficiency and flexibility.

Kardex tailors solutions to meet various industry needs by offering a variety of Kardex Megamat machines. Whether warehouse requirements call for picking small, lightweight parts, storing and retrieving loads up to 650 kilograms, using as an interim storage solution for semi-finish products or as a storage buffer during drying phases, Kardex offers multiple options.

 [Learn more](#) in our customer success stories

High
picking
performance

Minimal
footprint

Ideal for
uniform
storage
goods



Application range

Order picking

The Kardex Megamat is the perfect choice when it comes to order picking. It increases throughput, improves picking accuracy and optimizes worker ergonomics. It quickly provides goods at the right time providing up to 400 items per hour. Combined with the Kardex Color Pick System it significantly accelerates order fulfillment by picking multiple orders at the same time.

Spare parts management

Excellent spare parts management requires the efficient use of space, organization and inventory control. Many companies choose the Kardex Megamat to optimize their spare parts management process. It consolidates the inventory into 85% less floor space than traditional shelving and enables organized storage locations. This ensures that spare parts are always available and easy to pick.

SMD handling

Many customers use a Kardex Megamat for their SMD handling. It makes it easy to handle SMD reels and increases the access accuracy rate. In combination with advanced software features it uses the FIFO principle to avoid material aging or partially used SMD reels.



| Unit dimensions in millimeters | Kardex Megamat 180 | Kardex Megamat 350 | Kardex Megamat 650 |
|--------------------------------|---------------------|---------------------|---------------------|
| Width | 1,875 – 3,875 | 1,875 – 4,275 | 1,975 – 4,275 |
| Height | 2,210 – 7,510 | 2,360 – 10,010 | 2,360 – 10,010 |
| Depth | 1,251; 1,441; 1,631 | 1,271; 1,471; 1,671 | 1,311; 1,511; 1,711 |
| Payload | 180 kg | 350 kg | 650 kg |

Standard technical data, other sizes possible on request

 [Learn more about VCMs](#)

Main components



Access opening

- Smooth and smart design for ergonomic access
- Multiple access openings possible



Multipurpose, customizable carrier system

- Adaptable & user-friendly to store goods directly or in bins
- Subdivide storage locations using intermediate shelves, drawers or dividers



Personal protection light curtain

- The unit stops operating if the light barrier is activated
- Protects the operator and the inventory



Multi-touch operator panel

- High-resolution multi-touch operator panel
- Intuitive user interface in a tile-shaped design



Software architecture TIC platform

- Modular, future-oriented hardware and software platform
- Interface ILA enables a future-proof and stable connection

Complementary technology

Kardex can install its Kardex Megamat 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, accuracy and lifetime.



Display LED-Navigator

- Improves user guidance
- Provides order information at exactly the right time



Workstation equipment

- Position indicator, confirmation button, RFID reader, sockets & interfaces
- Hardware handshake for robot or conveyor connection



Kardex VCM Box

- Organized storage & full use of space
- Up to 20% higher storage volume than other products



Life Cycle Service

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



High Performance Package

- Option for high performance applications e.g. order fulfillment
- Enables higher number of cycles during the lifetime

Further options and storage environments with air conditioning, clean room, fire protection or esd versions are available.



Spare parts management with Kardex Megamats



SMD handling with Kardex Megamats

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.

